



American Thoracic Society International Conference



Where today's science meets tomorrow's care™

Final Program



ATS 2017

*Where today's science
meets tomorrow's care™*

May 19-May 24, 2017
Washington, DC
conference.thoracic.org



Welcome to ATS 2017

Welcome to Washington, DC for the 2017 American Thoracic Society International Conference. The conference, which is expected to draw more than 15,000 investigators, educators, and clinicians, is truly the destination for pediatric and adult pulmonary, critical care, and sleep medicine professionals at every level of their careers.

The conference is all about learning, networking and connections. Because it engages attendees across many disciplines and continents, the ATS International Conference draws a large, diverse group of participants, a dedicated and collegial community that inspires each of us to make a difference in patients' lives, now and in the future. By virtue of its size — ATS 2017 features approximately 6,700 original research projects and case reports, 500 sessions, and 800 speakers — participants can attend sessions and special events from early morning to the evening. At ATS 2017 there will be something for everyone.

Don't miss the following important events:

- **Opening Ceremony** featuring a keynote presentation by Nobel Laureate James Heckman, PhD, MA, from the Center for the Economics of Human Development at the University of Chicago.
- **Ninth Annual ATS Foundation Research Program Benefit** honoring David M. Center, MD, with the Foundation's Breathing for Life Award on Saturday.
- **ATS Diversity Forum** will feature Eliseo J. Pérez-Stable, MD, Director, National Institute on Minority Health and Health Disparities at the National Institutes of Health.
- **Keynote Series** highlight state of the art lectures on selected topics in an unopposed format to showcase major discoveries in pulmonary, critical care and sleep medicine.
- **Respiratory Health Awards**, which includes the Trudeau Medal, Distinguished Achievement Awards, and Amberson Lecture, given by Peter D. Pare, MD, of the University of British Columbia.
- **ATS Plenary Session** will feature a talk by Marc L. Busch, PhD, the Karl F. Landegger Professor of International Business Diplomacy at the School of Foreign Service, Georgetown University.
- **Assembly Membership Meetings**, which are open to all attendees.

These events create a sense of community among the International Conference attendees, which is precisely what our founders had hoped when they established the world's first respiratory society.

Finally, we wish to acknowledge the hard work and outstanding efforts of the members of the International Conference Committee, Education Committee, Assembly Program Committees, and ATS staff. The success of our conference depends on the dedication, creativity, and support of these individuals. We welcome you to the International Conference and hope you take advantage of all Washington has to offer.

INTERNATIONAL CONFERENCE COMMITTEE

Zea Borok, MD, Chair 2015-2017
 Jess Mandel, MD, Chair 2017-2019
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 Colin R. Cooke, MD
 Sonye K. Danoff, MD, PhD
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 Renee D. Stapleton, MD, PhD
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 Esra Tasali, MD
 Judith Tate, PhD, RN
 Atul Malhotra, MD



David Gozal, MD
 President
 American Thoracic Society



Zea Borok, MD
 Chair
 International Conference
 Committee



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ATS 2017 INTERNATIONAL CONFERENCE MAY 19-24 WASHINGTON, D.C.

This year the session portion of the Final Program for the ATS International Conference is available in printed and digital format. This publication contains the programs and speakers for the postgraduate courses, scientific and educational sessions presented at the conference.

You can download this PDF, the Conference APP or access the program via the [online program itinerary](#).

1	Friday Postgraduate Courses
10	Saturday Postgraduate Courses
21	Sunday Conference Sessions
129	Monday Conference Sessions
246	Tuesday Conference Sessions
356	Wednesday Conference Sessions

The information contained in this program is up to date as of March 9, 2017. For the most current session information, please visit the [online program itinerary](#).



CONFERENCE PLANNERS DISCLOSURES

In accordance with the ACCME Standards for Commercial Support, and those of the *ATS Policy on Management of Conflict of Interest in Official ATS Documents, Projects and Conferences*, *ATS Policy Governing Relationships Between the Tobacco Industry, ATS Members, and Non-Members Who Participate in ATS Activities*, and *ATS Policy on Professionalism and Ethical Conduct* chairs, moderators, presenters and official planners of the International Conference are required to disclose to ATS any potential conflicts of interest (COI) held by them or their spouse/life partner relevant to their presentation(s) or conference role, including all professional or other financial involvement with tobacco or e-cigarette entities, all relevant financial relationships with commercial interests, and all other relationships that could be perceived as influencing their participation. Conference presenters are also asked to disclose if there will be any discussion in the presentation of “off-label” (unapproved) use of substances/products not approved in the United States for the use under discussion (as per the U.S. Food and Drug Administration Guidance for Industry: Industry-Supported Scientific and Educational Activities).

For the 2017 International Conference, this disclosure information for all individuals in control of content was requested and received by ATS in advance of the Conference, reviewed by appropriate ATS reviewers, and session chairs and others in positions of authority were instructed to manage (resolve) identified faculty conflicts according to procedures overseen by the ATS Ethics and Conflict of Interest Committee.

To access the disclosures made by the faculty of the 2017 International Conference, please go to <http://conference.thoracic.org/speakers>

The following members of the Education Committee have disclosed no financial relationships with commercial interests:

Debra M. Boyer, MD, Chair	DorAnne M. Donesky, PhD, ANP-BC	Abigail R. Lara, MD	Viswam S. Nair, MSCR, MD
Jason T. Poston, MD, Vice Chair	Garth Garrison, MD	Moishe Liberman, MD, PhD	Jeremy E. Orr, MD
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Mark K. Abe, MD	Margaret M. Hayes, MD	Patrick Lyons, MD	Jessica E. Pittman, MD, MPH
Shozab Ahmed, MBBS	Amjad Horani, MD	Samir Makani, MD	Allan J. Walkey, MD, MSc
William G. Carlos, MD	Shazia M. Jamil, MD	Atul Malhotra, MD	Tisha S. Wang, MD
Alison S. Clay, MD	Carl A. Kaplan, MD	Jakob I. McSparron, MD	Carolyn H. Welsh, MD
Walter D. Conwell, MD	Jack Kelly	Paul E. Moore, MD	Lisa F. Wolfe, MD
Daniel R. Crouch, MD, MS	Denay P. Kirkpatrick, DNP	Marc Moss, MD	

The following members of the Education Committee have disclosed the following financial relationships with commercial interests:

Caralee E. Caplan-Shaw, MD: <i>AristaMD and Cohero Health (Consultant); Bard Peripheral Vascular, Inc. and Veran Medical Technologies (Food/Beverage Only); Cook Incorporated (Food/Beverage Only, Spouse-CME Speaker); MedImmune, Novartis Pharma and Teva Pharmaceuticals USA (Research Support); Myriad Genetic Laboratories (Spouse-Consultant)</i>	Colleen L. Channick, MD: <i>Actelion Pharmaceuticals US and Bayer HealthCare Pharmaceuticals (Spouse-Consultant); Medtronic and Olympus Corporation of the Americas (Consultant)</i>	Samaan Rafeq, MD: <i>Boston Scientific (Consultant, Speaker); Veran Medical (Consultant)</i>	Mary E. Strek, MD: <i>Boehringer Ingelheim Pharmaceuticals (Data and Safety Monitoring Board, Research Support); Gilead Sciences, InterMune, MedImmune, and Vertex Pharmaceuticals (research support)</i>
	Charles Dela Cruz, MD, PhD: <i>Cempra (Advisory Committee); Sanofi-Aventis U.S. (Consultant)</i>	Jordan S. Rettig: <i>Boston's Children Hospital (Intellectual Property Not Commercialized)</i>	Bishoy Zakhary, MD: <i>ELSO ECMO Training Courses and ACCP (Course Instructor)</i>

The following members of the International Conference Committee have disclosed no financial relationships with commercial interests:

Zea Borok, MD, Chair	Michelle N. Gong, MD, MS	William Man, MD, PhD	Gwen S. Skloot, MD
Jess Mandel, MD, Chair Appointee	David Gozal, MD, MBA	Paul E. Moore, MD	Christopher G. Slatore, MD
JiYeon Choi, PhD, RN	Tillie-Louise Hackett, PhD	Marc Moss, MD	Anne I. Sperling, PhD
Colin R. Cooke, MD	Anastassios C. Koumbourlis, MD, MPH	Marilyn Moy, MD, MSc	Renee D. Stapleton, PhD, MD
Sonye K. Danoff, MD, PhD	Patty Lee, MD	Robert L. Owens, MD	Lynn T. Tanoue, MD
Laura C. Feemster, MSc, MD	Tricia D. LeVan, PhD	Karen M. Ridge, PhD	Esra Tasali, MD
Andrew P. Fontenot, MD	Atul Malhotra, MD	Jussi J. Saukkonen, MD	Judith Tate, PhD, RN

The following members of the International Conference Committee have disclosed the following financial relationships with commercial interests:

Anna Hemnes, MD: <i>Actelion Pharmaceuticals, US and United Therapeutics Corporation (Advisory Committee); Pfizer, Inc. (Expert Testimony)</i>	Tim Lahm, MD: <i>Bayer HealthCare Pharmaceuticals (Speaker); Gilead Sciences and Pfizer AG (Research Support)</i>	Mark L. Metersky, MD: <i>Aradigm and Bayer (Research Support); EBSCO (Consultant); Grifols (Advisory Committee)</i>
Augusto A. Litonjua, MD: <i>AstraZeneca Pharmaceuticals (Advisory Committee); Springer Humana Press and UpToDate (author)</i>	Frank C. Sciurba, MD: <i>Boehringer Ingelheim b.v. (Advisory Committee); BTG and Pulmonx Corporation (Research Support)</i>	



CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 7

PG1A CRITICAL CARE ULTRASOUND AND ECHOCARDIOGRAPHY I

This is part 1 of a two-part course which includes PG1B on Saturday, May 20. Those registering for PG1A will be registered for PG1A and PG1B.

Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$900 In-Training Member: \$675
Non-Member: \$1,200 In-Training Non-Member: \$775

 **Registrants must bring a laptop to the course to view the course material.**

Assembly on Critical Care

8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 145 A (Middle Building, Street Level)

Target Audience

Providers of critical care or emergency medicine

Objectives

At the conclusion of this session, the participant will be able to:

- apply ultrasound at bedside to assess critically ill patients;
- diagnose alternate etiologies of shock in the critically ill patient;
- apply ultrasound to guide common ICU procedures.

This is a 2-day postgraduate course that consists of didactic lectures and hands-on stations. The focus is primarily bedside transthoracic echocardiography, with some diagnostic ultrasound. The topics include basic and intermediate critical care echocardiography (including hemodynamic measures), assessment of fluid status, procedural guidance for vascular access and thoracentesis, venography. The hands-on stations will include both healthy models and simulators that can demonstrate abnormal pathology.

Chairing: M.J. Lanspa, MD, MS, Salt Lake City, UT
X. Monnet, MD, PhD, Paris, France

8:00 Welcome & Introduction to Critical Care Ultrasound: Training and Competency
M.J. Lanspa, MD, MS, Salt Lake City, UT

8:15 Basic Physics, Artifacts, Knobology
Z. Shaman, MD, Cleveland, OH

8:45 Transthoracic Windows and Views
A. Leibowitz, MD, Boston, MA

9:15 Basic Evaluation of LV Systolic Function, Measurement of Cardiac Output
S. Price, MBBS, PhD, EDICM, London, United Kingdom

9:45 Basic Evaluation of RV Size and Function, the RV in Pulmonary Disease
D. Pradhan, MD, New York, NY

10:15 Break

10:30 Practical Skills Sessions: Hands-On Station I

Apical Window

X. Monnet, MD, PhD, Paris, France
T. Brakke, MD, Omaha, NE
Z. Shaman, MD, Cleveland, OH
L. Grecu, MD, Stony Brook, NY

Parasternal Window

P. Mohabir, MD, Stanford, CA
G.B. Allen, MD, Burlington, VT
J. Kasal, MD, St. Louis, MO
S. Price, MBBS, PhD, EDICM, London, United Kingdom
D. Pradhan, MD, New York, NY

Subcostal Window

M. Hunter-Behrend, MD, Tacoma, WA
L. Rapoport, MD, Santa Clara, CA
V.A. Dinh, MD, Loma Linda, CA
E. Teo, MD, Atlanta, GA
J. Pittman, MD, Salt Lake City, UT

12:00 LUNCH

12:30 Lunch and Clinical Cases I
L. Grecu, MD, Stony Brook, NY

12:45 Chest Ultrasound
P. Mohabir, MD, Stanford, CA

1:15 Basic Valvulopathy
T. Brakke, MD, Omaha, NE

1:45 Basic Assessment of Diastolic Function
C.K. Grissom, MD, Murray, UT

2:15 Break

2:30 Practical Skills Sessions: Hands-On Station II

Lung Ultrasound (Model and Management)

P. Mohabir, MD, Stanford, CA
L. Rapoport, MD, Santa Clara, CA
M. Hunter-Behrend, MD, Tacoma, WA
Z. Shaman, MD, Cleveland, OH
D. Pradhan, MD, New York, NY

**Diastolic Measurements**

J. Pittman, MD, Salt Lake City, UT
 T. Brakke, MD, Omaha, NE
 S. Price, MBBS, PhD, EDICM, London, United Kingdom
 X. Monnet, MD, PhD, Paris, France
 A. Leibowitz, MD, Boston, MA

Cardiac Output

L. Grecu, MD, Stony Brook, NY
 V.A. Dinh, MD, Loma Linda, CA
 J. Kasal, MD, St. Louis, MO
 E. Teo, MD, Atlanta, GA
 G.B. Allen, MD, Burlington, VT

BASIC • TRANSLATIONAL**POSTGRADUATE COURSE**

CME Credits Available: 6.5

PG2 HOW TO USE 'OMICS TO STUDY LUNG DISEASE

Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350 In-Training Member: \$200
 Non-Member: \$425 In-Training Non-Member: \$300

Registrants must bring a laptop to the course to view the course material.

Assemblies on Allergy, Immunology and Inflammation; Respiratory Cell and Molecular Biology; Respiratory Structure and Function; Thoracic Oncology; Genetics and Genomics Section

8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 152 A (Middle Building, Street Level)

Target Audience

Lung researchers interested in applying so called 'omics based approaches, which frequently rely on the deep sequencing revolution, to study all aspects of the lung including disease

Objectives

At the conclusion of this session, the participant will be able to:

- gain new findings about how genome wide studies of gene expression enhance the understanding of lung disease;
- learn practical approaches to using existing genome wide data sets to study lung disease and improve patient care.

The 'omics revolution continues full speed and is transforming the approach to basic and translational research on lung disease. However, it can be difficult to gain even a working familiarity with many of the key techniques in this rapidly changing field. This course will provide a practical overview of the latest in 'Omics-based techniques and how they can be applied to study lung disease. Topics will include genetics, transcriptomics, single-cell analysis, phenomics, deep sequencing-based methodologies to study gene regulation, including ChIP-seq and Atac-seq, and an overview of statistical approaches and mining of publicly available 'Omics data.

Chairing: B.E. Himes, PhD, Philadelphia, PA
 A.N. Gerber, MD, PhD, Denver, CO
 M.M. Wurfel, MD, PhD, Seattle, WA

8:00 Introduction

M.M. Wurfel, MD, PhD, Seattle, WA

8:20 Common Themes of 'Omics Studies

P.G. Woodruff, MD, MPH, San Francisco, CA

8:55 Analyzing RNA Using Omics

B.A. Raby, MD, MPH, Boston, MA

9:30 Break**9:45 Single Cell Transcriptomics**

T.J. Desai, MD, Stanford, CA

10:20 Integrating Genomics and Transcriptomics

D. Meyers, PhD, Winston-Salem, NC

10:55 Methylomics and the Lung

I. Yang, PhD, Aurora, CO

11:30 General Discussion**11:45 LUNCH****12:45 ChIP-Seq: Studying the Pulmonary Cistrome**

A.N. Gerber, MD, PhD, Denver, CO

1:20 Atac-Seq and Other Genome Wide Methods of Studying Chromatin

R. Bauer, PhD, South San Francisco, CA

1:55 Break**2:10 The Public Domain: Exploiting Existing Datasets**

N. Bhakta, MD, PhD, San Francisco, CA

2:40 Omics: A Statistical and Computational Overview

B.E. Himes, PhD, Philadelphia, PA

3:30 Summary and General Discussion

A.N. Gerber, MD, PhD, Denver, CO

BEHAVIORAL • CLINICAL**POSTGRADUATE COURSE**

CME Credits Available: 7

PG3 LOOK BEFORE YOU LEAP: SKILLS FOR CRITICAL EVALUATION OF CLINICAL RESEARCH

Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$400 In-Training Member: \$250
 Non-Member: \$475 In-Training Non-Member: \$350

Registrants must bring a laptop to the course to view the course material.

Assemblies on Behavioral Science and Health Services Research; Allergy, Immunology and Inflammation; Clinical Problems; Critical Care; Environmental, Occupational and Population Health; Nursing; Pediatrics; Pulmonary Circulation; Pulmonary Rehabilitation; Sleep and Respiratory Neurobiology and Thoracic Oncology

8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 204 B-C (South Building, Level 2)

Target Audience

All health care providers



Objectives

At the conclusion of this session, the participant will be able to:

- learn reasoning behind specific design and analytic approaches most commonly used in quantitative interventional and observational studies, as well as qualitative research;
- better able to identify the strengths and limitations of design choices and subsequent results obtained from clinical studies;
- apply a systematic approach to evaluating and analyzing the quality of clinical studies in the medical literature to guide decisions for uptake of evidence into your practice.

Which studies should change your clinical practice? This session will combine didactics with a workshop to provide a toolkit for clinicians to develop a systematic approach to evaluating the primary clinical research literature. Attendees will interact with clinical researchers and evidence based medicine experts during didactic sessions to learn the elements that characterize quality interventional, observational, and qualitative studies. During two afternoon small group workshops, participants will break out into three rotating small groups with 1-2 faculty members to 1) participate in mini-journal clubs for RCT, observational, and qualitative research "case studies"; and 2) develop a personal strategy to assess the quality of clinical research for adoption into practice.

Each participant should leave the session with a better understanding of both a rigorous approach to evaluating the literature, as well as the internal and external influences that result in their own decisions to change practice.

Chairing: A.J. Walkey, MD, MSc, Boston, MA
H.B. Gershengorn, MD, Bronx, NY

8:00 Introduction

A.J. Walkey, MD, MSc, Boston, MA

8:05 RCT Basics: "Establishing the Gold Standard"

R. Parke, RN, PhD, Auckland, New Zealand

8:35 RCTS: "All that Glitters"

J.A. Krishnan, MD, PhD, Chicago, IL

9:05 General Discussion

9:15 Break

9:25 Observational Outcomes Research: "You Can Observe a Lot Just by Watching"

H.B. Gershengorn, MD, Bronx, NY

9:50 Comparative Effectiveness: "Identifying Who's Doing Things Right, so You Can Do the Right Things"

A.J. Walkey, MD, MSc, Boston, MA

10:20 General Discussion

10:30 Qualitative Research: "The Storytellers Rule Society"

K.A. Riekert, PhD, Baltimore, MD

11:00 General Discussion

11:10 LUNCH

12:00 Meta-Analysis: "Greater than the Sum of Its Parts?"

R. Zarychanski, MD, Winnipeg, Canada

12:25 PRO: Clinical Practice Guidelines, "Maybe Overrated But... Clinicians Still Ask for Guidance"

J. Brozek, MD, PhD, Hamilton, Canada

12:50 CON: Clinical Practice Guidelines, "Genius Abhors a Consensus"

B.P. Kavanagh, MD, Toronto, Canada

1:15 Small Group Discussion I

A.J. Walkey, MD, MSc, Boston, MA

A.B. Mehta, MD, Denver, CO

M. Hua, MD, MSc, New York, NY

H.B. Gershengorn, MD, Bronx, NY

R. Parke, RN, PhD, Auckland, New Zealand

J. Brozek, MD, PhD, Hamilton, Canada

B.P. Kavanagh, MD, Toronto, Canada

R. Zarychanski, MD, Winnipeg, Canada

K.A. Riekert, PhD, Baltimore, MD

3:15 Small Group Discussion II: Putting It All Together

A.J. Walkey, MD, MSc, Boston, MA

A.B. Mehta, MD, Denver, CO

M. Hua, MD, MSc, New York, NY

H.B. Gershengorn, MD, Bronx, NY

R. Parke, RN, PhD, Auckland, New Zealand

J. Brozek, MD, PhD, Hamilton, Canada

B.P. Kavanagh, MD, Toronto, Canada

R. Zarychanski, MD, Winnipeg, Canada

K.A. Riekert, PhD, Baltimore, MD

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

POSTGRADUATE COURSE

CME Credits Available: 7.25

PG4 INTERSTITIAL LUNG DISEASE: CURRENT TRENDS IN DIAGNOSIS AND MANAGEMENT

 Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350

In-Training Member: \$200

Non-Member: \$425

In-Training Non-Member: \$300

 Registrants must bring a laptop to the course to view the course material.

Assemblies on Clinical Problems; Allergy, Immunology and Inflammation; Behavioral Science and Health Services Research; Environmental, Occupational and Population Health; Nursing; Pulmonary Rehabilitation

8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 202 A (South Building, Level 2)

Target Audience

Clinicians, nurses, other allied health staff, researchers, investigators in basic and clinic science pertinent to interstitial lung disease, and sponsors for research

Objectives

At the conclusion of this session, the participant will be able to:

- accurately diagnose patients with specific forms of ILD;
- gain improved understanding in current concepts in pathogenesis and genetic aspects of pulmonary fibrosis as well as knowledge of new therapeutic strategies to treat patients with ILD/pulmonary fibrosis.



This course will provide an introduction and update on the diagnosis and management of the heterogeneous group of interstitial lung diseases (ILDs) of unknown etiology as well as ILD in the setting of connective tissue diseases, vasculitis, and environmental exposures. Idiopathic pulmonary fibrosis (IPF), alveolar proteinosis, and granulomatous ILD (hypersensitivity pneumonitis and sarcoidosis) are among the diseases that will be discussed. Genetic factors, precision medicine for diagnosis and treatment as well as newer concepts in the pathogenesis of IPF and novel treatment strategies to modulate pulmonary fibrosis will be discussed. Attendees will be updated on evolving enhanced knowledge in the clinical management of patients with ILD. The importance of making an accurate diagnosis will be demonstrated by live interactions with a panel of experts from multiple disciplines confronted with 3-4 cases unknown to them. This will illustrate multidisciplinary diagnosis (MDD) in action. Additional talks will focus on the symptom management of patients with IPF and endpoints to assess treatment response beyond conventionally used pulmonary function tests.

Chairing: G. Raghu, MD, Seattle, WA
L. Richeldi, MD, PhD, Rome, Italy

- 8:00 Introduction**
G. Raghu, MD, Seattle, WA
- 8:05 Interstitial Lung Disease: An Overview and Approach to Diagnosis**
G. Raghu, MD, Seattle, WA
- 8:30 Imaging in ILD: Clues to Diagnosis**
E.A. Kazerooni, MD, Ann Arbor, MI
- 9:00 Histopathology Features of ILD, Does Tissue Sampling Matter?: Role of Transbronchial, Cryo, and Thorascopic Biopsies**
J.L. Myers, MD, Ann Arbor, MI
- 9:25 Precision Medicine for IPF Diagnosis: Time for Genetic Screening and Intervention?**
M. Armanios, MD, Baltimore, MD
- 9:50 Pulmonary Fibrosis: Concepts in Pathogenesis, Peripheral Biomarkers in the Circulating Venous Blood and New Targets for Treatment**
T.M. Maher, MD, MSc, PhD, London, United Kingdom
- 10:15 Break**
- 10:25 Connective Tissue Disease for the Pulmonologist Evaluating Interstitial Lung Disease: A Rheumatologist's View**
A. Fischer, MD, Aurora, CO
- 10:50 Panel Discussion**
L. Ho, MD, Seattle, WA
- 11:50 LUNCH**
- 12:20 Alveolar Hemorrhage and Pulmonary Vasculitides: What's New?**
U. Specks, MD, Rochester, MN
- 12:40 Cystic Lung Disease, Making the Correct Diagnosis: Discuss Challenges and Strategies in Diagnosis of Cystic Lung Disease Including LAM, Pulmonary LCH, LIP and Others**
M.K. Glassberg, MD, Miami, FL
- 1:05 Hypersensitivity Pneumonitis: Diagnosis and in Pursuit of the Cause: What and Where Is the Antigen and What Does the Antigen Do to Cause Disease?**
E. Fernandez Perez, MD, Denver, CO

- 1:30 Sarcoidosis: Treatment Beyond Prednisone and Methotrexate**
M.A. Judson, MD, Albany, NY
- 1:50 Early Detection and Subclinical ILD: Lessons Learned from the Multi-Ethnic Study of Atherosclerosis (MESA) Database**
A.J. Podolanczuk, MD, New York, NY
- 2:15 Co-Morbidities in Patients with IPF**
V. Cottin, MD, PhD, Lyon, France
- 2:40 Break**
- 2:50 Idiopathic Pulmonary Fibrosis: Precision Medicine and Endpoints for Assessing Treatment Response Beyond Forced Vital Capacity**
F.J. Martinez, MD, New York, NY
- 3:15 Reducing Cough and Other Symptoms and Improving Quality of Life for Patients with IPF: Therapeutic Needs and Palliative Care**
M. Wijsenbeek, MD, Rotterdam, Netherlands
- 3:35 Treatment of IPF: Current Landscape of Treatment and Ongoing/Upcoming Clinical Trials**
L. Richeldi, MD, PhD, Rome, Italy

CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 6.5

PG5 A PHYSIOLOGIC APPROACH TO THE TREATMENT OF SHOCK

Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$400

In-Training Member: \$250

Non-Member: \$475

In-Training Non-Member: \$350

Registrants must bring a laptop to the course to view the course material.

Assemblies on Critical Care; Clinical Problems; Respiratory Structure and Function

8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 152 B (Middle Building, Street Level)

Target Audience

Clinicians who treat patients with shock. In addition, physiologists and basic scientists who are interested in the scientific basis for medical practice

Objectives

At the conclusion of this session, the participant will be able to:

- apply basic principles in fluid management of shock;
- rationally develop strategy for vasopressor use;
- understand the principles behind and select patients for mechanical support.

This course will use a combination of didactic lectures and small group breakout sessions to describe a 'first-principles' approach to the individualized management of shock. The goal of the course is to enable participants to apply fundamental principles at the bedside. Topics include assessment of fluid responsiveness, physiology of right heart failure, choice of



inotropes/vasopressors, blood pressure targets and assessment of oxygen delivery, as well as cardiogenic shock and the physiology of mechanical support. We will explore controversies in the physiologic literature concerning these issues and critically examine common clinical practice in light of the current physiologic literature.

Chairing: C.C. Hardin, MD, PhD, Boston, MA
K.A. Hibbert, MD, Boston, MA

8:00 Introduction: A Physiologic Approach to Shock

C.C. Hardin, MD, PhD, Boston, MA

8:20 Meaningful Clinical Targets in Patients with Shock

S. Magder, MD, Montreal, Canada

9:20 Assessing Fluid Responsiveness

V.B. Kerry, MD, Boston, MA

10:05 Break

10:25 Vasopressors and Inotropes

A.J. Goodwin, MD, MSCR, Charleston, SC

11:05 Physiology of Right Heart Failure

R. Naeije, MD, PhD, Brussels, Belgium

12:05 LUNCH

12:50 Mechanical Support for Cardiogenic Shock

G. Lewis, MD, Boston, MA

1:35 Physiology and Treatment of Hemorrhagic Shock

S. Henry, MD, Baltimore, MD

2:20 Break

2:40 Case Examples

K.A. Hibbert, MD, Boston, MA

BASIC • TRANSLATIONAL

POSTGRADUATE COURSE

CME Credits Available: 6.5

PG6 LUNG INNATE IMMUNITY: FRONTLINES OF HOST DEFENSE

 Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350

In-Training Member: \$200

Non-Member: \$425

In-Training Non-Member: \$300



Registrants must bring a laptop to the course to view the course material.

Assemblies on Microbiology, Tuberculosis and Pulmonary Infections; Allergy, Immunology and Inflammation; Respiratory Cell and Molecular Biology

8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 145 B (Middle Building, Street Level)

Target Audience

Investigators and providers of lung health; postdoctoral fellows in training; students with particular interest in understanding the scientific basis for disease susceptibility to lung infections

Objectives

At the conclusion of this session, the participant will be able to:

- apply new findings and information regarding normal host responses to microbial infections in the lung;
- learn new findings about novel strategies and approaches to the management of lung infections;
- improve the life and health status of patients with lung infections.

The course will provide state of the art presentations by experts in the field, updating current knowledge and cutting-edge research in the area of lung innate immunity and host defense. Presentations will provide insights into current understanding of critical components of lung protective mechanisms, in addition to elucidating mechanisms of host susceptibility to serious lung infections.

Chairing: H. Koziel, MD, Boston, MA
J.P. Mizgerd, ScD, Boston, MA

8:00 Sensing and Signaling Infection Through Pattern Recognition Receptors

J. Imler, PhD, Strasbourg, France

8:30 Cytosolic Immune Receptors and the Inflammasome

Speaker To Be Announced

9:00 Alveolar Macrophage Plasticity and Interplay with Epithelial Cells

R.J. Snelgrove, PhD, London, United Kingdom

9:30 Epithelial Cells in Lung Host Defenses: More than a Barrier

A.S. Prince, MD, New York, NY

10:00 Break

10:15 Lung Dendritic Cells Link Innate and Adaptive Immunity

Speaker To Be Announced

10:45 Systemic Responses to Lung Infection: What Happens in the Lung Does Not Stay in the Lung

L.J. Quinton, PhD, Boston, MA

11:15 Lung Resident Memory Cells: Reshaping Mucosal Innate Immunity

D. Farber, PhD, New York, NY

11:45 LUNCH

12:45 Visualizing Integrated Immune Responses in the Lung

P. Torabi-Parizi, MD, Bethesda, MD

1:15 Role of the Environment on Lung Infection Susceptibility and Pneumonia Pathogenesis

L. Kobzik, MD, Boston, MA

1:45 Airway Microbiome and Innate Immunity

S.V. Lynch, PhD, San Francisco, CA

2:15 Break

2:30 Mutations as Windows into Immunity and Infection in the Lung

S.M. Holland, MD, Bethesda, MD

3:00 Macrophages Determine Injury and Inflammation Resolution in the Infected Lung

S.V. Herold, MD, PhD, Giessen, Germany

3:30 Innate Determinants of Vaccine Responses

K. Mayer, MD, PhD, Bethesda, MD

**BASIC • CLINICAL • TRANSLATIONAL****POSTGRADUATE COURSE**

CME Credits Available: 7

MOC Points Available: 7

PG7 PEDIATRIC RESPIRATORY PHYSIOLOGY: WHEN IT'S NORMAL AND WHEN IT'S NOT

Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350 In-Training Member: \$200
Non-Member: \$425 In-Training Non-Member: \$300

Registrants must bring a laptop to the course to view the course material.

Assemblies on Pediatrics; Clinical Problems; Critical Care; Pulmonary Circulation; Respiratory Cell and Molecular Biology; Respiratory Structure and Function; Sleep and Respiratory Neurobiology

8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 143 B-C (Middle Building, Street Level)

Target Audience

Fellows in training as well as established physicians in the practice of pediatric pulmonology, critical care or neonatal medicine who are interested in reviewing basic physiology principles as they apply to clinical care

Objectives

At the conclusion of this session, the participant will be able to:

- apply several basic respiratory principles to the diagnosis and management of common pediatric respiratory disorders;
- learn how physiologic measurements can be used to change interventions and enhance outcomes;
- identify the rationale for several measurement techniques and determine when these should be used.

The course will consist of a series of paired lectures covering several topics in pediatric respiratory physiology, reviewing first normal physiologic aspects of a topic and then the companion talk will review pathophysiology relating to a particular pediatric respiratory disease that highlights when the normal physiology goes awry. An interactive format, using questions from the speakers will be used to enhance audience participation, and to allow the participant to understand key concepts or to identify areas requiring additional study.

Chairing: H.B. Panitch, MD, Philadelphia, PA
J.L. Allen, MD, Philadelphia, PA

8:00 Airways and Airway Smooth Muscle
T.H. Shaffer, MSE, PhD, Wilmington, DE

8:35 Wheezing in Infants
T. Guilbert, MD, MS, Cincinnati, OH

9:10 Pulmonary Circulation and Transitional Circulation
S. Lakshminrusimha, MD, Buffalo, NY

9:45 Break

9:55 BPD and Pulmonary Hypertension
S.H. Abman, MD, Aurora, CO

10:30 Neural Control of the Lung
H.B. Panitch, MD, Philadelphia, PA

11:05 The Denervated Lung: Respiratory Responsiveness Following Transplantation
G. Kurland, MD, Pittsburgh, PA

11:40 LUNCH

12:20 Chest Wall and Respiratory Muscle Mechanics
J.L. Allen, MD, Philadelphia, PA

12:55 Weakness and Thoracic Insufficiency Syndrome
G.J. Redding, MD, Seattle, WA

1:30 Control of Breathing
S. Ward, MD, Los Angeles, CA

2:05 Break

2:15 Abnormal Control of Breathing
T.G. Keens, MD, Los Angeles, CA

2:50 Mucociliary Clearance and Pharmacotherapy
J. Clancy, MD, Cincinnati, OH

3:25 Primary Ciliary Dyskinesia
T.W. Ferkol, MD, St. Louis, MO

BEHAVIORAL • CLINICAL**POSTGRADUATE COURSE**

CME Credits Available: 6.25

PG8 PRACTICAL OUTCOME TOOLS IN COPD: FROM CLINICAL CARE TO CLINICAL TRIALS

Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350 In-Training Member: \$200
Non-Member: \$425 In-Training Non-Member: \$300

Registrants must bring a laptop to the course to view the course material.

Assemblies on Pulmonary Rehabilitation; Behavioral Science and Health Services Research; Clinical Problems; Nursing

8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 201 (South Building, Level 2)

Target Audience

Clinicians involved in the management of patients with COPD; any clinical researcher in COPD

Objectives

At the conclusion of this session, the participant will be able to:

- gain new strategies to manage the care of patients with COPD by being aware of practical outcome tools that can be used to provide holistic assessment;
- assess the response of treatment by improving the means of assessing outcomes in patients with COPD;
- understand what is required for a practical outcome tool to be used in a clinical trial.

COPD is a heterogeneous, multi-system disease, and global assessment of the patient is required to optimize and personalize care in patients with COPD.



There is a need to characterize and phenotype patient population in different settings - clinical and research.

The aims of this course are: To describe the psychometric and prognostic properties of outcome tools commonly used in patients with COPD in different clinical care settings, and whether these can be utilized in clinical trials; disseminate recent ATS/ERS statements on field walking tests, limb muscle dysfunction and pulmonary rehabilitation; disseminate work of the COPD Biomarker Qualification Consortium.

Chairing: W. Man, MD, PhD, Harefield, United Kingdom
S.J. Singh, PhD, Leicester, United Kingdom

8:00 Six Minute Walk Test

M.A. Spruit, PhD, PT, Horn, Netherlands

8:20 Shuttle Walk Tests

S.J. Singh, PhD, Leicester, United Kingdom

8:40 Cycle Ergometry and Cardiopulmonary Exercise

H.B. Rossiter, PhD, Torrance, CA

9:00 Gerontology Physical Performance Tools and Frailty

M. Maddocks, PhD, London, United Kingdom

9:20 Adapting Test Choice According to the Question Posed

M. Polkey, MD, London, United Kingdom

9:50 Break

10:10 Measuring Muscle Function and Mass in COPD

F. Maltais, MD, Quebec, Canada

10:30 Balance Measures in COPD

D. Brooks, PhD, Toronto, Canada

10:50 Assessing Activities of Daily Living in COPD

S. Lareau, MS, RN, Aurora, CO

11:10 Outcome Tools to Directly Measure Physical Activity in COPD

M.L. Moy, MD, MSc, Boston, MA

11:30 Sleep Disturbance in COPD

X. Soler, MD, PhD, San Diego, CA

11:50 LUNCH

1:00 Measuring Dyspnea in COPD

P.M. Meek, PhD, RN, Denver, CO

1:20 Practical Measures of Health Status in COPD

S. Kon, MD, PhD, Harefield, United Kingdom

1:40 Anxiety, Depression and Pain in COPD

A.M. Yohannes, PhD, Manchester, United Kingdom

2:00 COPD Biomarker Qualification Consortium

R. Tal-Singer, PhD, King of Prussia, PA

2:20 Break

2:40 EXACT-PRO and Measuring Exacerbations in COPD

L. Murray, PhD, MPH, Bethesda, MD

3:00 Hospital Admissions in COPD: How Are They Measured in Clinical Trials of COPD

J. Quint, MSc, PhD, London, United Kingdom

3:20 The Future? Genetics and Genomics in the Global Assessment of the Patient with COPD

E.S. Wan, MD, Boston, MA

3:50 Summary and General Discussion

W. Man, MD, PhD, Harefield, United Kingdom

This session and the International Conference are supported by an educational grant from AstraZeneca LP.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 6.75

PG9 MASTER PHYSIOLOGY CLASS: HEMODYNAMICS

R Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$400

In-Training Member: \$250

Non-Member: \$475

In-Training Non-Member: \$350

 **Registrants must bring a laptop to the course to view the course material.**

Assemblies on Respiratory Structure and Function; Critical Care

8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 151 A (Middle Building, Street Level)

Target Audience

Practicing clinicians and resident-to-fellow level trainees whose primary clinical focus is critical care medicine

Objectives

At the conclusion of this session, the participant will be able to:

- describe the basic principles of cardiac and pulmonary circulatory physiology;
- understand and describe key features of the cerebral, splanchnic and renal vascular systems and their application to the care of critically ill patients;
- interpret hemodynamic data and describe the physiologic principles underlying the observed patterns and relationships.

Speakers will use a combination of didactic lectures and small group learning to review core principles of hemodynamics including cardiac physiology, the physiology of the major vascular beds, the hemodynamic effects of mechanical ventilation and the bedside assessment of a patient's hemodynamic status.

Chairing: A.M. Luks, MD, Seattle, WA
R.W. Glenny, MD, Seattle, WA

8:00 Introduction

A.M. Luks, MD, Seattle, WA

8:10 Physiology of the Pulmonary Circulation

R.W. Glenny, MD, Seattle, WA

8:50 Renovascular Physiology

M. Hoenig, MD, Boston, MA

9:30 Break

9:40 Cerebrovascular Physiology

N. Badjatia, MD, Baltimore, MD



- 10:20 Small Group Case Review**
 A.M. Luks, MD, Seattle, WA
 R.W. Glenny, MD, Seattle, WA
 B. Coruh, MD, Seattle, WA
 R. Schwartzstein, MD, Boston, MA
 A.S. Clay, MD, Durham, NC
 W.G. Carlos, MD, MSCR, Indianapolis, IN
 P.G. Carvalho, MD, Boise, ID
 J. Petersson, MD, PhD, Stockholm, Sweden
 M.M. Hayes, MD, Boston, MA
 J.T. Poston, MD, Chicago, IL
 J.B. Richards, MD, Charleston, SC
- 11:35 LUNCH**
- 12:35 Cardiac Physiology for the Intensivist**
 S. Magder, MD, Montreal, Canada
- 1:15 The Splanchnic Circulation**
 A.M. Luks, MD, Seattle, WA
- 1:55 Break**
- 2:05 Hemodynamics Effects of Mechanical Ventilation**
 A.S. Clay, MD, Durham, NC
- 2:45 Small Group Case Review**
 A.M. Luks, MD, Seattle, WA
 R.W. Glenny, MD, Seattle, WA
 B. Coruh, MD, Seattle, WA
 R. Schwartzstein, MD, Boston, MA
 J.T. Poston, MD, Chicago, IL
 A.S. Clay, MD, Durham, NC
 W.G. Carlos, MD, MSCR, Indianapolis, IN
 P.G. Carvalho, MD, Boise, ID
 M.M. Hayes, MD, Boston, MA
 J. Petersson, MD, PhD, Stockholm, Sweden
 J.B. Richards, MD, Charleston, SC

CLINICAL**POSTGRADUATE COURSE**

CME Credits Available: 7

PG10 ORAL APPLIANCE THERAPY AND RELATED TOPICS IN DENTAL SLEEP MEDICINE

 Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350 In-Training Member: \$200
 Non-Member: \$425 In-Training Non-Member: \$300

Assemblies on Sleep and Respiratory Neurobiology**8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Room 202 B (South Building, Level 2)****Target Audience**

Sleep, respiratory and neurobiology physicians, dental professionals, sleep laboratory, staff including respiratory therapists

Objectives

At the conclusion of this session, the participant will be able to:

- improve how health care providers assess the oral cavity and overall patient for the suspected presence of sleep-disordered breathing;
- apply appliance selection and titration strategies to optimize oral appliance therapy for OSA;
- improve the quality of health/life status of OSA patients by providing successful oral appliance therapy, as a stand-alone treatment or in combination with other modalities.

This course will cover the foundation of knowledge about obstructive sleep apnea and clinical signs in the oral cavity and relevant medical history. How to screen patients for oral appliance therapy, and evaluate effective mandibular advancement devices, including titration processes will be addressed as well as treating sleep apnea patients in an interdisciplinary fashion, with alternative treatment modalities.

Chairing: J.E. Metz, DDS, Columbus, OH

- 8:00 Introduction**
 J.E. Metz, DDS, Columbus, OH
- 8:10 Patient Selection for OAT, Clinical Signs, Screening, Dental Examination and Medical Co-Morbidities Relevant to the Dental Practice**
 J. Blank, DDS, Springfield, OH
- 8:40 Case Studies of Orthodontics and Impact on Airway**
 T. Wilcko, DMD, Erie, PA
- 9:25 Hypertension and Type 2 Diabetes Mellitus in OSA and Oral Appliance Therapy**
 F. Gagnadoux, MD, Angers, France
- 10:10 Break**
- 10:20 A Current Update on Sleep Bruxism, Orofacial Pain and Research Topics**
 G. Lavigne, DMD, MSc, PhD, Montreal, Canada
- 11:20 Drug-Induced Sleep Endoscopy for Evaluation of Oral Appliance Effectiveness and Hypoglossal Nerve Stimulation Surgery**
 O. Vanderveken, MD, PhD, Antwerp, Belgium
- 12:20 LUNCH**
- 1:05 Evolving Meaningful Alternatives to CPAP Therapy**
 D.P. White, MD, Denver, CO
- 1:55 Types of Oral Appliances for the Treatment of OSA, and How to Recognize a Successful Appliance**
 F.R. Almeida, DDS, MSc, PhD, Vancouver, Canada
- 2:25 Break**
- 2:35 Titration Process for Oral Appliance Therapy in the Sleep Laboratory**
 D. Shrivastava, MD, Sacramento, CA
 P. McBride, BA, RDA, CSHS, Suffern, NY
 U. Khatwa, MD, Cambridge, MA
- 3:25 Case Studies of Successful Oral Appliance Therapy Patients with Different Vertical Dimensions**
 J.E. Metz, DDS, Columbus, OH



CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 7

PG11 LUNG CANCER STATE OF THE ART: 2017

R Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350 In-Training Member: \$200
Non-Member: \$425 In-Training Non-Member: \$300

Assemblies on Thoracic Oncology; Clinical Problems

8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 144 A-B (Middle Building, Street Level)

Target Audience

Clinicians of various specialties (pulmonary medicine, thoracic surgery, medical and radiation oncology, physician extenders) who are involved in the care of patients with lung cancer

Objectives

At the conclusion of this session, the participant will be able to:

- learn strategies for developing and improving screening programs including identifying persons eligible and most likely to benefit from screening, shared decision making aids, and best ways to provide tobacco treatment and cessation support;
- manage and to diagnose solid and ground glass pulmonary nodules;
- learn new findings about key developments in clinical research that have impacted lung cancer outcomes and be updated on evolving therapies in NSCLC.

A comprehensive and up to date review coupled with interactive tumor boards will cover screening and development of screening programs, tobacco interventions, prognostic factors, and approach to pulmonary nodules (solid and sub-solid) including nodule management guidelines and diagnostic interventions. In addition, we will discuss challenges in SBRT for Stage I: when is it clinically indicated without tissue confirmation and a pro con debate on whether all patients need to undergo EBUS for nodal staging, the epidemic of lung cancer in women, advances in personalized medicine and immunotherapy, management of malignant pleural effusions and toxicities due to lung cancer therapies.

Chairing: M.P. Rivera, MD, Chapel Hill, NC
D.J. Feller-Kopman, MD, Baltimore, MD

8:00 Introduction

M.P. Rivera, MD, Chapel Hill, NC

8:05 Smoke Gets in Your Eyes: Tobacco Control and Cessation

A. Vachani, MD, MS, Philadelphia, PA

8:30 Beyond the NLST: An Update of LDCT Screening and Development of Screening Programs

R.S. Wiener, MD, MPH, Boston, MA

8:55 If You Have a Hammer Not Everything Is a Nail: Diagnostic Procedures in the Work Up of Lesions Concerning for Lung Cancer

N.T. Tanner, MD, MSCR, Charleston, SC

9:20 The Solid Pulmonary Nodule: When Is It Cancer

M.K. Gould, MD, MS, Pasadena, CA

9:45 Ground Glass Nodule: To Treat (or Not) a Fuzzy Spot
J.D. Blasberg, MD, New Haven, CT

10:10 Break

10:20 Interactive Tumor Board

M.P. Rivera, MD, Chapel Hill, NC
N.T. Tanner, MD, MSCR, Charleston, SC
R.S. Wiener, MD, MPH, Boston, MA
M.K. Gould, MD, MS, Pasadena, CA
J.D. Blasberg, MD, New Haven, CT

10:55 The Holy Grail of Prognostic Factors in Lung Cancer: Searching for Omniscience

F.C. Detterbeck, MD, New Haven, CT

11:20 The Specter of Gender: Lung Cancer in Women

M.P. Rivera, MD, Chapel Hill, NC

11:45 LUNCH

12:30 Don't MUSS with My EBUS (Pro-Con Debate): All Patients with Stage I NSCL Undergoing SBRT Need Staging EBUS

J.A. Akulian, MD, MPH, Chapel Hill, NC
R. Osarogiagbon, MD, Memphis, TN

1:10 Is Tissue Always the Issue?: Treating Patients Without Tissue Diagnosis with SBRT

R. Hales, MD, Baltimore, MD

1:35 How Not to Die Short of Breath: Management of Malignant Pleural Effusions

D.J. Feller-Kopman, MD, Baltimore, MD

2:00 Break

2:10 Immunotherapy's Rook to Lung Cancer's King: CHECKMATE: Novel Therapies in NSCLC

J. Brahmer, MD, Baltimore, MD

2:35 Palliative Care in Lung Cancer: It Really Works

G.C. Michaud, MD, New York, NY

3:00 Pulmonary Complications Associated with Lung Cancer Therapies

P.B. Camus, MD, Dijon, France

3:25 Interactive Tumor Board

D.J. Feller-Kopman, MD, Baltimore, MD
F.C. Detterbeck, MD, New Haven, CT
R. Hales, MD, Baltimore, MD
J. Brahmer, MD, Baltimore, MD
G.C. Michaud, MD, New York, NY



CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 7

PG1B CRITICAL CARE ULTRASOUND AND ECHOCARDIOGRAPHY II

This is part 2 of a two-part course which includes PG1A on Friday, May 19.

 **Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited. See PG1A for course fees.**

 **Registrants must bring a laptop to the course to view the course material.**

Assembly on Critical Care

8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 145 A (Middle Building, Street Level)

Target Audience

Providers of critical care or emergency medicine

Objectives

At the conclusion of this session, the participant will be able to:

- apply ultrasound at bedside to assess critically ill patients;
- diagnose alternate etiologies of shock in the critically ill patient;
- apply ultrasound to guide common ICU procedures.

This is a 2-day postgraduate course that consists of didactic lectures and hands-on stations. The focus is primarily bedside transthoracic echocardiography, with some diagnostic ultrasound. The topics include basic and intermediate critical care echocardiography (including hemodynamic measures), assessment of fluid status, procedural guidance for vascular access and thoracentesis, venography. The hands-on stations will include both healthy models and simulators that can demonstrate abnormal pathology.

Chairing: M.J. Lanspa, MD, MS, Salt Lake City, UT
X. Monnet, MD, PhD, Paris, France

8:00 Vascular Ultrasound: DVT Evaluation
L. Rapoport, MD, Santa Clara, CA

8:25 Vascular Access
M. Hunter-Behrend, MD, Tacoma, WA

8:50 Tamponade
G.B. Allen, MD, Burlington, VT

9:20 Using Ultrasound to Assess Intravascular Volume and Fluid Responsiveness
X. Monnet, MD, PhD, Paris, France

9:50 Ultrasound for Diuresis and Dialysis
E. Hirshberg, MD, MS, Salt Lake City, UT

10:15 Break

10:30 Practical Skills Sessions: Hands-On Station III

Volume Status

X. Monnet, MD, PhD, Paris, France
P. Mohabir, MD, Stanford, CA
J. Kasal, MD, St. Louis, MO
E. Teo, MD, Atlanta, GA
D. Pradhan, MD, New York, NY

Tamponade Evaluation

V.A. Dinh, MD, Loma Linda, CA
G.B. Allen, MD, Burlington, VT
A. Leibowitz, MD, Boston, MA
S. Price, MBBS, PhD, EDICM, London, United Kingdom
T. Brakke, MD, Omaha, NE

Vascular Ultrasound

L. Rapoport, MD, Santa Clara, CA
M. Hunter-Behrend, MD, Tacoma, WA
Z. Shaman, MD, Cleveland, OH
L. Grecu, MD, Stony Brook, NY
J. Pittman, MD, Salt Lake City, UT

12:00 LUNCH

12:30 Lunch and Clinical Cases II
E. Teo, MD, Atlanta, GA

12:45 Abdominal Ultrasonography
V.A. Dinh, MD, Loma Linda, CA

1:15 Goal Directed Management of Shock Using Echocardiography
J. Kasal, MD, St. Louis, MO

1:45 Incorporating Echocardiography into CPR
M.J. Lanspa, MD, MS, Salt Lake City, UT

2:15 Break

2:30 Practical Skills Sessions: Hands-On Station IV

Echo in Shock and CPR

P. Mohabir, MD, Stanford, CA
D. Pradhan, MD, New York, NY
T. Brakke, MD, Omaha, NE
S. Price, MBBS, PhD, EDICM, London, United Kingdom
L. Grecu, MD, Stony Brook, NY

Abdominal Ultrasound

L. Rapoport, MD, Santa Clara, CA
Z. Shaman, MD, Cleveland, OH
J. Pittman, MD, Salt Lake City, UT
G.B. Allen, MD, Burlington, VT
M. Hunter-Behrend, MD, Tacoma, WA



Ask the Expert

A. Leibowitz, MD, Boston, MA
J. Kasal, MD, St. Louis, MO
X. Monnet, MD, PhD, Paris, France
V.A. Dinh, MD, Loma Linda, CA
E. Teo, MD, Atlanta, GA

CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 6.75

PG12 BRONCH DAY: A COMPREHENSIVE, HANDS-ON GUIDE TO BASIC BRONCHOSCOPY AND EBUS

Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$475 In-Training Member: \$300
Non-Member: \$550 In-Training Non-Member: \$400

Registrants must bring a laptop to the course to view the course material.

Assemblies on Clinical Problems; Critical Care; Pediatrics; Thoracic Oncology

8:00 a.m. - 4:00 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Room 145 B (Middle Building, Street Level)

Target Audience

Adult and pediatric pulmonologists and intensivists, thoracic surgeons, physicians in training, allied health professionals, and anesthesiologists interested in improving their skills in diagnostic and therapeutic flexible bronchoscopy and EBUS

Objectives

At the conclusion of this session, the participant will be able to:

- diagnose and manage adults and children with benign and malignant respiratory diseases;
- improve knowledge of basic flexible bronchoscopy and strengthen procedural skills;
- understand the indications for linear and radial endobronchial ultrasound and the skills necessary to perform these procedures.

This course is designed to provide a comprehensive introduction to diagnostic and therapeutic flexible bronchoscopy. Participants will acquire the knowledge and skills to improve their proficiency in basic bronchoscopic techniques and be introduced to more advanced diagnostic bronchoscopy, including linear and radial endobronchial ultrasound. A series of didactic lectures will be followed by intensive, hands-on training, through the use of physical and virtual reality simulators which will help participants strengthen their procedural skills. This course will be of particular interest to provider seeking to refine their flexible bronchoscopy skills and wish to review the data behind the various bronchoscopic techniques. Audience Response System to be used during lectures.

Chairing: C.L. Channick, MD, Boston, MA
S. Oh, MD, Los Angeles, CA

8:00 A Quick and Comprehensive Review of Airway Anatomy: The Larynx and Tracheobronchial Tree
L. Frye, MD, Chicago, IL

8:15 Optimizing Basic Bronchoscopy Skills: Bronchoalveolar Lavage, Endobronchial Brushings, and Endobronchial Biopsies
C.M. Kinsey, MD, MPH, Burlington, VT

8:40 Improving Your Technique and Yield for Transbronchial and Needle Aspiration Biopsies
S. Oh, MD, Los Angeles, CA

9:05 Pediatric Flexible Bronchoscopy for the Adult and Pediatric Bronchoscopists
J. Puchalski, MD, New Haven, CT

9:30 Break

9:40 The Role of Flexible Bronchoscopy in the Management of Hemoptysis
C.R. Lamb, MD, Burlington, MA

10:05 Performing Flexible Bronchoscopy in High-Risk Patients: How to Maximize Outcomes
A. Majid, MD, Boston, MA

10:30 The Fundamentals of Linear EBUS: Overview of the Basic Technique and the Data
C.L. Channick, MD, Boston, MA

10:55 Introduction to Radial EBUS: Review of the Evidence
G.C. Michaud, MD, New York, NY

11:20 Bronchial Thermoplasty: Practice and Principles
A. Mahajan, MD, Falls Church, VA

11:45 LUNCH

12:45 Practical Skills Sessions

Bronchoscopy with Brushing, Biopsy, and Needle Aspiration of Endobronchial Lesion

C.M. Kinsey, MD, MPH, Burlington, VT
A. Mahajan, MD, Falls Church, VA
S. Goldfarb, MD, Philadelphia, PA

Bronchoscopic Management of Hemoptysis

A. Majid, MD, Boston, MA
J. Puchalski, MD, New Haven, CT

Management of the Difficult Airway

S. Oh, MD, Los Angeles, CA
I. Susanto, MD, Los Angeles, CA
A. Vicencio, MD, New York, NY

Techniques for Foreign Body Removal Using Flexible Bronchoscopy

C.L. Channick, MD, Boston, MA
B. Husta, MD, New York, NY
C.Y. Spencer, MD, New York, NY

Radial Endobronchial Ultrasound

L. Frye, MD, Chicago, IL
J. Cardenas-Garcia, MD, Hershey, PA

Endobronchial Ultrasound-TBNA

C.R. Lamb, MD, Burlington, MA
G.C. Michaud, MD, New York, NY

**BASIC****POSTGRADUATE COURSE**

CME Credits Available: 6.75

PG13 FLOW CYTOMETRY IN HUMAN AND MOUSE LUNGS: FROM EXPERIMENTAL DESIGN TO ANALYSIS

Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$400	In-Training Member: \$250
Non-Member: \$475	In-Training Non-Member: \$350

Registrants must bring a laptop to the course to view the course material.

Assemblies on Allergy, Immunology and Inflammation; Respiratory Cell and Molecular Biology

8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 204 B-C (South Building, Level 2)

Target Audience

Basic and clinical researchers interested in learning about the techniques to perform high quality flow cytometry in lung samples

Objectives

At the conclusion of this session, the participant will be able to:

- identify the critical components of performing high quality flow cytometry including tissue digestion and handling, performance and data analysis;
- learn about methodologies to identify structural and immune cell populations in the lung and how to link these to bioinformatics and next generation sequencing;
- practically apply the skills learned in this session on cases designed to address routine problems with flow cytometry performance and data analysis.

Flow cytometry is a vital tool to understand the cellular basis and pathological processes in multiple organ systems. However, the implementation of multicolor flow cytometry and cell sorting is technically challenging. This challenge hampers overall reproducibility and cell type generalization across scientific laboratories in the field. This session will assemble a group of experts with the capacity to comprehensively review the technical and interpretive aspects of pulmonary cell isolation and flow cytometric analysis of both non-hematopoietic and hematopoietic cells. Specifically, lectures will focus on strategies for flow cytometric panel design, sample preparation/staining, data analysis, interpretation and presentation.

Chairing: R.M. Tighe, MD, Durham, NC
A.V. Misharin, MD, PhD, Chicago, IL
C. Jakubzick, PhD, Denver, CO

8:00 Introduction, Review of Format for the Day
R.M. Tighe, MD, Durham, NC

8:10 Programmatic Perspective on Modern Flow Cytometry in Clinical and Basic Research
P.K. Chattopadhyay, PhD, Bethesda, MD

8:50 Key Steps in Conducting a High Quality Flow Cytometry Study in Research and Clinical Settings
R.M. Tighe, MD, Durham, NC

9:20 Use of Mass Cytometry (CyTOF) for Analysis of Lung Tissue
N. McGovern, PhD, Singapore, Singapore

9:50 Break

10:05 Flow Cytometry of Myeloid Cells in the Murine and Human Lung
C. Jakubzick, PhD, Denver, CO

10:45 Flow Cytometry of Epithelial, Endothelial and Stromal Cells in the Lung
E.F. Redente, PhD, Denver, CO

11:15 Flow Cytometry Analysis of Experimental Lung Cancers
K. Politi, PhD, New Haven, CT

11:45 LUNCH

12:30 Flow Cytometry Analysis of Lymphoid Cells in the Lung
C.M. Lloyd, PhD, London, United Kingdom

1:00 Cell Sorting and Downstream -Omics Applications
A.V. Misharin, MD, PhD, Chicago, IL

1:30 Bioinformatic Approaches in Flow Cytometry
R. Brinkman, PhD, Vancouver, Canada

2:00 Break

2:15 Practical Aspects of Compensation in Flow Cytometry
Y.R. Yu, MD, PhD, Durham, NC

2:35 Errors Commonly Found in Flow Cytometry
A.V. Misharin, MD, PhD, Chicago, IL

3:00 Practical Workshop on the Performance of Flow Cytometry
R.M. Tighe, MD, Durham, NC
A.V. Misharin, MD, PhD, Chicago, IL
C. Jakubzick, PhD, Denver, CO
E.F. Redente, PhD, Denver, CO

BEHAVIORAL • CLINICAL**POSTGRADUATE COURSE**

CME Credits Available: 6.75

PG14 RACING TO EXCELLENCE: THE ART AND SCIENCE OF CRITICAL CARE QUALITY IMPROVEMENT

Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$400	In-Training Member: \$250
Non-Member: \$475	In-Training Non-Member: \$350

Registrants must bring a laptop to the course to view the course material.

Assemblies on Behavioral Science and Health Services Research; Critical Care; Nursing; Quality Improvement and Implementation Committee

8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 209 A-B (South Building, Level 2)

Target Audience

Physicians, nurses, respiratory therapists, practice managers, hospital administrators and researchers interested in quality improvement

Objectives

At the conclusion of this session, the participant will be able to:



- understand the techniques and tools required to lead efforts in quality measurement and improvement in health care;
- identify enablers, barriers, and solutions to facilitate effective implementation;
- improve quality at the local level, engaging administrators, mid-level managers, and bedside clinicians to effectively overcome barriers, utilize enablers, and implement programs.

Due to changes in the health care landscape, there is intense pressure to improve the quality of care delivered. The pressure is especially intense in critical care, a venue associated with significant mortality, morbidity, and disproportionate cost. At the same time, despite an ever increasing number of guidelines and an emerging evidence base, knowledge translation is slow and incomplete. Didactic content will include a combination of high level quality overview sessions and a pragmatic set of talks intended for immediate application during the three skills building sessions. Participants will select one of three quality improvement topics for the skills building breakout sessions and work through a simulated quality improvement case study under the guidance of facilitators with deep expertise in the respective topics.

Chairing: D.W. Ford, MD, MSCR, Charleston, SC
A. Amaral, MD, Toronto, Canada
M. Mikkelsen, MD, MSCE, Philadelphia, PA

8:00 Introduction

D.W. Ford, MD, MSCR, Charleston, SC

8:20 Making a Difference: The Science of Quality Improvement

V. Liu, MD, MS, Oakland, CA

8:40 Money Talks: How Financial Incentives (and Disincentives) Impact QI

A. Weinacker, MD, Stanford, CA

9:00 QI Planning: Where Do I Start? Identifying the Problem That Requires a Solution

M. Howell, MD, MPH, Chicago, IL

9:20 QI Planning: Fishbone Diagrams and the Pareto Principle: Identifying and Prioritizing Potential Solutions

W.D. Schweickert, MD, Philadelphia, PA

9:40 Break

10:00 QI Implementation: Plan, Do, Study, Act (PDSA) Cycles

C.L. Hough, MD, Seattle, WA

10:20 Breakout Session I

Implementing the ABCDE Bundle

W.D. Schweickert, MD, Philadelphia, PA
D.K. Costa, PhD, RN, Ann Arbor, MI
C.L. Hough, MD, Seattle, WA
A. Amaral, MD, Toronto, Canada

Palliative and End of Life Care

E.K. Kross, MD, Seattle, WA
S.S. Carson, MD, Chapel Hill, NC
D.W. Ford, MD, MSCR, Charleston, SC

Sepsis

V. Liu, MD, MS, Oakland, CA
I.S. Douglas, MD, Denver, CO
M. Howell, MD, MPH, Chicago, IL
M. Mikkelsen, MD, MSCE, Philadelphia, PA

11:00 QI Implementation: No One Is an Island: Designing the Initiative with Key Stakeholders (Including Patients and Families) in Mind

D.K. Costa, PhD, RN, Ann Arbor, MI

11:20 QI Evaluation: Show Me the Data! How to Measure Implementation and Patient-Centered Outcomes

A. Amaral, MD, Toronto, Canada

11:40 LUNCH

12:20 QI Implementation: Building a Team and Delivering a Message

I.S. Douglas, MD, Denver, CO

12:40 Breakout Session II

Implementing the ABCDE Bundle

W.D. Schweickert, MD, Philadelphia, PA
D.K. Costa, PhD, RN, Ann Arbor, MI
C.L. Hough, MD, Seattle, WA
A. Amaral, MD, Toronto, Canada

Palliative and End of Life Care

E.K. Kross, MD, Seattle, WA
S.S. Carson, MD, Chapel Hill, NC
D.W. Ford, MD, MSCR, Charleston, SC

Sepsis

V. Liu, MD, MS, Oakland, CA
I.S. Douglas, MD, Denver, CO
M. Howell, MD, MPH, Chicago, IL
M.E. Mikkelsen, MD, MSCE, Philadelphia, PA

1:20 QI Implementation: Creating a Communication Plan and Roll Out Strategy that Motivates

M. Mikkelsen, MD, MSCE, Philadelphia, PA

1:40 Break

2:00 QI Implementation: My Mistakes in Trying to Implement and How to Avoid Repeating Them

G.D. Rubinfeld, MD, MSc, Toronto, Canada

2:20 Breakout Session III

Implementing the ABCDE Bundle

W.D. Schweickert, MD, Philadelphia, PA
D.K. Costa, PhD, RN, Ann Arbor, MI
C.L. Hough, MD, Seattle, WA
A. Amaral, MD, Toronto, Canada

Palliative and End of Life Care

E.K. Kross, MD, Seattle, WA
S.S. Carson, MD, Chapel Hill, NC
D.W. Ford, MD, MSCR, Charleston, SC

Sepsis

V. Liu, MD, MS, Oakland, CA
I.S. Douglas, MD, Denver, CO
M. Howell, MD, MPH, Chicago, IL
M.E. Mikkelsen, MD, MSCE, Philadelphia, PA

3:00 QI Team Reports and Debrief

A. Amaral, MD, Toronto, Canada
D.W. Ford, MD, MSCR, Charleston, SC
M.E. Mikkelsen, MD, MSCE, Philadelphia, PA



CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 6.5

PG15 ADVANCES IN THE DIAGNOSIS AND MANAGEMENT OF SARCOIDOSIS

Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350 In-Training Member: \$200
Non-Member: \$425 In-Training Non-Member: \$300

Registrants must bring a laptop to the course to view the course material.

Assemblies on Clinical Problems; Allergy, Immunology and Inflammation

8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 143 B-C (Middle Building, Street Level)

Target Audience

Clinicians who see sarcoidosis patients; especially on trainees, recent graduates, and individuals interested to establish a sarcoidosis clinic

Objectives

At the conclusion of this session, the participant will be able to:

- understand the changing epidemiology of sarcoidosis and current concepts in the pathogenesis of sarcoidosis;
- diagnose patients with sarcoidosis and identify specific organ involvement, incorporating newer tools;
- provide improved care to patients with sarcoidosis through comprehensive management strategies and an understanding of current and novel therapeutic strategies.

This is an overview of the most recent advances in the diagnosis and management of the whole patient for sarcoidosis. It would be of particular interest to individuals who are establishing a multidisciplinary sarcoidosis clinic, or as a refresher to those trained in some aspects of sarcoidosis. Two panel-based, case-based discussions will summarize and incorporate the decision-making and choices of treating patients with sarcoidosis, with practical information about difficult diagnosis, mimickers, initiating therapy, stopping therapy, how to manage toxicities, how to combine medications, and assessment of other problems like pulmonary hypertension. It is meant to tie together the concepts from the prior speakers.

Chairing: D.A. Culver, DO, Cleveland, OH
M. Drent, MD, Nieuwegein, Netherlands

8:00 Advances in Untangling the Pathobiology of Sarcoidosis
D.R. Moller, MD, Baltimore, MD

8:30 Evolution of Bronchoscopy for the Diagnosis of Sarcoidosis
R. Trisolini, MD, Bolgna, Italy

8:55 Pitfalls, Challenges, and New Modalities for Diagnosis of Sarcoidosis
L.A. Maier, MD, MSPH, Denver, CO

9:20 Changing Epidemiology of Sarcoidosis
Y. Cozier, DSc, MPH, Boston, MA

9:40 Break

10:00 Assessing Sarcoidosis
J.C. Grutters, MD, PhD, Nieuwegein, Netherlands

10:25 Consequences of Sarcoidosis
M. Drent, MD, Nieuwegein, Netherlands

10:50 Natural History, Prognosis and the Decision to Treat
A.U. Wells, MD, London, United Kingdom

11:15 Case-Based Panel Discussion: Challenging Diagnostic Situations
D.A. Culver, DO, Cleveland, OH
J.P. Kanne, MD, Madison, WI
C. Farver, MD, Cleveland, OH
M.A. Judson, MD, Albany, NY
L.A. Maier, MD, MSPH, Denver, CO
R. Trisolini, MD, Bolgna, Italy

12:00 LUNCH

12:50 Treatment Options from Steroids to the Newest Agents
R.P. Baughman, MD, Cincinnati, OH

1:20 Practical Use of Immunosuppressants
D.A. Culver, DO, Cleveland, OH

1:40 Identifying Health Disparities & How to Adjust Your Management Style to Fit Your Patient
M.A. Judson, MD, Albany, NY

2:00 How to Set up A Successful Sarcoidosis Clinic
L. O'Hare, CRNP, Birmingham, AL

2:20 Break

2:40 Critical Organ Involvement
K.C. Patterson, MD, Philadelphia, PA

3:00 Diagnosis and Management of Other Organ Involvement
W.E. James, MD, Charleston, SC

3:20 Panel Discussion: Challenging Treatment Situations
R.P. Baughman, MD, Cincinnati, OH
J.C. Grutters, MD, PhD, Nieuwegein, Netherlands
K.C. Patterson, MD, Philadelphia, PA
A.U. Wells, MD, London, United Kingdom

This session and the International Conference are supported by an educational grant from Mallinckrodt Pharmaceuticals.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 6.5

PG16 CASED-BASED REVIEW OF THORACIC IMAGING FOR THE PULMONOLOGIST AND CRITICAL CARE PHYSICIAN

Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350 In-Training Member: \$200
Non-Member: \$425 In-Training Non-Member: \$300

Registrants must bring a laptop to the course to view the course material.

Assemblies on Clinical Problems; Microbiology, Tuberculosis and Pulmonary Infections; Pulmonary Circulation; Thoracic Oncology


8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 144 A-B (Middle Building, Street Level)
Target Audience

Pulmonologists, critical care physicians, thoracic surgeons, mid-level providers, respiratory therapists, residents, fellows, and students

Objectives

At the conclusion of this session, the participant will be able to:

- formulate a differential diagnosis of respiratory diseases based on diagnostic imaging findings;
- improve strategies for the evaluation of solitary pulmonary nodules and for staging lung cancer;
- state the value of a multidisciplinary approach to diagnosis and management of patients with diffuse lung disease.

This course will review major aspects of thoracic imaging with presentations targeted toward the pulmonologist and critical care physician using a case-based approach and audience participation. Subspecialized thoracic radiologists will give case-based presentations focusing on the practical aspects of chest imaging. Presentations will be image rich and focus on key imaging findings, differential diagnoses, and potential pitfalls. Topics will cover a broad range of chest disease and will be relevant to trainees, generalists, and specialists, alike. At the conclusion of the course, learners will have increased knowledge about thoracic imaging and be able to apply this knowledge to their respective practices.

Chairing: J.P. Kanne, MD, Madison, WI
C.C. Wu, MD, Houston, TX

8:00 Imaging Diseases of the Small Airways
T.S. Henry, MD, San Francisco, CA

8:30 Imaging Diseases of the Large Airways
S. Rossi, MD, Buenos Aires, Argentina

9:00 Imaging of Pulmonary Vascular Diseases
J.P. Kanne, MD, Madison, WI

9:30 Critical Care Thoracic Imaging
C. Schaefer-Prokop, MD, Nijmegen, Netherlands

10:00 Break

10:15 Imaging of Pleural Diseases
C.C. Wu, MD, Houston, TX

10:45 Imaging of the Solitary Pulmonary Nodule
J.H. Chung, MD, Chicago, IL

11:15 Lung Cancer Imaging
A. Leung, MD, Stanford, CA

11:45 LUNCH

12:45 Imaging of Pulmonary Infections
L. Ketai, MD, Albuquerque, NM

1:15 HRCT of Diffuse Lung Disease
D.A. Lynch, MD, Denver, CO

1:45 Break

2:00 Multidisciplinary Approach to Diffuse Lung Diseases
K.K. Brown, MD, Denver, CO
D.A. Lynch, MD, Denver, CO
S. Groshong, MD, Denver, CO

BEHAVIORAL • CLINICAL • TRANSLATIONAL
POSTGRADUATE COURSE
CME Credits Available: 7
PG17 BEST PRACTICES AND CLINICAL RESEARCH SKILLS DEVELOPMENT FOR CLINICAL RESEARCH COORDINATORS

R Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$100

In-Training Member: \$50

Non-Member: \$150

In-Training Non-Member: \$75

 Registrants must bring a laptop to the course to view the course material.

Assemblies on Nursing; Behavioral Science and Health Services Research; Clinical Problems; Pulmonary Rehabilitation

8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 152 A (Middle Building, Street Level)
Target Audience

This course will offer clinical research coordinators, nurses, respiratory therapists and investigators a practical skills skills-based course to develop best practices for skills essential to conduct high quality clinical research

Objectives

At the conclusion of this session, the participant will be able to:

- gain knowledge and skills necessary to contribute to the successful execution of pulmonary clinical trials;
- acquire relevant knowledge of proper technique for commonly performed procedures;
- learn the scientific background of state of the science commonly performed procedures conducted in pulmonary trials.

This is a practical, clinical research skills development course involving topics chosen by CRCs across the country following a needs assessment survey completed by over 100 CRCs. To complement the didactic portion of the workshop, we have incorporated breakout sessions for discussion and networking among attendees; both of which were requested during the CRC Forum at ATS 2016. Lectures will provide scientific background for skills that CRCs perform daily. Discussion will allow coordinators from across the world to share experience, knowledge, and methods for recruitment, retention, standardized measurement, and regulatory compliance. This course will provide a venue for supporting and promoting best practices among those who coordinate the clinical trials from which clinical practice is changed. It will provide value to nationwide clinical trial networks by helping to establish consistency in data collection and procedure execution.

Chairing: N.E. Bracken, MSN, ACNP-BC, Chicago, IL
K.O. Lindell, PhD, RN, Pittsburgh, PA

8:00 Welcome and Introductions
N.E. Bracken, MSN, ACNP-BC, Chicago, IL

8:15 6-Minute Walk Testing
E.G. Collins, PhD, RN, Chicago, IL

9:00 Spirometry
D.M. Mannino, MD, Lexington, KY

9:45 Break



- 10:00 Recruitment and Retention of Minority Populations**
M.N. Eakin, PhD, Baltimore, MD
- 10:45 Respiratory Inhaler Device Technique**
N.E. Bracken, MSN, ACNP-BC, Chicago, IL
- 11:30 Methacholine Challenge**
S. Nyenhuis, MD, Chicago, IL
- 12:15 LUNCH**
- 12:45 General Discussion**
Speaker To Be Announced
- 1:20 CPAP/BiPAP**
D. Hart, MSN, Auckland, New Zealand
- 2:05 Regulatory Management**
M. Carno, PhD, MBA, MJ, CHRC, RN, Rochester, NY
- 2:50 Break**
- 3:05 Impulse Oscillometry**
C. Dumonceaux, BSc, RRT, RCPT(P), CCRP, Calgary, Canada
- 3:50 Wrap Up and Closing Remarks**
K.O. Lindell, PhD, RN, Pittsburgh, PA

CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 7

PG18 AERODIGESTIVE APPROACH TO COMPLEX CHRONIC PEDIATRIC DISEASES

Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350 In-Training Member: \$200
Non-Member: \$425 In-Training Non-Member: \$300

Registrants must bring a laptop to the course to view the course material.

Assemblies on Pediatrics; Nursing

8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 202 B (South Building, Level 2)

Target Audience

Pediatric pulmonologists, gastroenterologists, surgeons, fellows, nurses, speech therapists, and health care practitioners providing care coordination to children with chronic multi-system disease. Faculty representative of major aerodigestive programs, U.S. and international, with gender and discipline diversity and a mix of junior aerodigestive providers and senior program, clinical, and research leaders

Objectives

At the conclusion of this session, the participant will be able to:

- apply successful strategies to develop multi-disciplinary pediatric programs;
- measure relevant outcomes to pediatric populations with complex chronic diseases;
- gain new strategies and methods for pediatric pulmonologists to diagnose and manage complex airway disease.

This course will aid pediatric pulmonologists and care coordinators to develop multidisciplinary programs for children with complex chronic conditions affecting lung health. An integrated team approach to coordinated evaluation and management of children with complex diseases affecting airways and breathing, feeding and swallowing, and development, will be presented. This will focus on the rationale and quality imperative for such programs and strategies to work within and across institutions for program development, expanding provider practices into newer roles and the identification and measurement of outcomes.

Chairing: R.P. Boesch, DO, Rochester, MN
M. Kazachkov, MD, New York, NY

- 8:00 The Past, Present, and Future of Pediatric Aerodigestive Programs**
R.E. Wood, PhD, MD, Cincinnati, OH
- 8:25 Organization and Knowledge Generation, What Aerodigestive Can Learn from chILD**
R.R. Deterding, MD, Aurora, CO
- 8:50 Building an Aerodigestive Program in Your Hospital**
J. Erkman, MSN, CPNP, New York, NY
C. Miller, PhD, MHA, Cincinnati, OH
- 9:15 Untangling Airway, Lung, Maturational, and GI Disease in the Premature Infant**
E.B. Hysinger, MD, Cincinnati, OH
- 9:40 Aerodigestive Approach to Children with Trisomy 21**
E. DeBoer, MD, Aurora, CO
- 10:00 Break**
- 10:10 Aerodigestive Approach to Tracheoesophageal Fistula and Esophageal Atresia**
E. Eber, MD, Graz, Austria
- 10:30 Is Severe Asthma an Aerodigestive Problem?**
M. Kazachkov, MD, New York, NY
- 10:50 Indications and Methods for Interventional Pulmonology in Complex Pediatric Patients**
R.M. Kern, MD, Rochester, MN
- 11:15 Why Should Pediatricians Do Interventional Pulmonology?**
R.P. Boesch, DO, Rochester, MN
- 11:35 LUNCH**
- 12:20 The Role of the Anesthesia Provider in Aerodigestive Programs**
M. Brooks Peterson, MD, Aurora, CO
- 12:45 The Pulmonologist's Role in Optimization for Airway Surgery and Decannulation**
J. Piccione, DO, MS, Philadelphia, PA
- 1:10 The Multi-Disciplinary Approach to Aspiration**
C. Daines, MD, Tucson, AZ
- 1:35 Feeding Disorders and Swallowing Dysfunction in the Aerodigestive Patient**
C. Miller, PhD, Cincinnati, OH
- 2:00 Break**
- 2:10 Airway and GI Microbiomes. Pure Science or Clinical Application?**
M. Kazachkov, MD, New York, NY
- 2:35 Pediatric Motility Disorders**
R. Rosen, MD, Boston, MA

The information contained in this program is up to date as of March 9, 2017.

For the most current session information, please visit the [online program itinerary](#).

**3:00 Aerodigestive Case Presentations**

R.R. Detering, MD, Aurora, CO
 R. Rosen, MD, Boston, MA
 C. Miller, PhD, Cincinnati, OH
 J. Piccione, DO, MS, Philadelphia, PA

3:45 Where We Are Headed: Maturation of Pediatric Aerodigestive as a Defined Model of Care

R.P. Boesch, DO, Rochester, MN

CLINICAL**POSTGRADUATE COURSE**

CME Credits Available: 6.5

PG19 CRITICAL CARE OF THE PATIENT WITH PULMONARY VASCULAR DISEASE

Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350 In-Training Member: \$200
 Non-Member: \$425 In-Training Non-Member: \$300

Registrants must bring a laptop to the course to view the course material.

Assemblies on Pulmonary Circulation; Critical Care

8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 202 A (South Building, Level 2)

Target Audience

Pulmonary and cardiology faculty, intensivists of all backgrounds, trainees, allied health professionals

Objectives

At the conclusion of this session, the participant will be able to:

- understand etiology and pathophysiology of RV failure in critically ill patients;
- identify strategies for the diagnosis and treatment of pulmonary vascular disease in critically ill patients;
- interpret common pulmonary artery catheter waveform patterns and learn about the basics of RV echocardiography in critically ill patients with pulmonary vascular disease.

This comprehensive course will provide the learner with a strategy to care for critically ill patients with various diseases of the pulmonary vasculature and right ventricle. Presenters will provide a framework for understanding pathophysiology, hemodynamics, and specific high-risk scenarios using state of the art evidence and clinical expertise. Common pitfalls and knowledge gaps in caring for patients with pulmonary vascular and right heart failure will be addressed. By the session's conclusion, learners should have a refined approach for the management of these challenging patients.

Chairing: C.E. Ventetulo, MD, MS, Providence, RI

T.M. Bull, MD, Aurora, CO
 T. Lahm, MD, Indianapolis, IN

8:00 Mechanisms of RV Failure in Critical Illness

R. Naeije, MD, PhD, Brussels, Belgium

8:30 The PA Catheter in Critically Ill Patients with Pulmonary Vascular Disease: The Nuts and Bolts of PAC Waveform Analysis

J.B. Hall, MD, Chicago, IL

9:30 Echo in the ICU: How Can It Help in the Critically Ill Pulmonary Vascular Disease Patient?

A. Vieillard-Baron, MD, PhD, Paris, France

10:00 Break**Management of PAH in ICU****10:15 Supportive Care: Volume, Arrhythmias, Mechanical Ventilation**

T. Lahm, MD, Indianapolis, IN

10:45 Pulmonary Vasodilators and Management of Hemodynamics (Pressors and Inotropes)

J.R. Klinger, MD, Providence, RI

11:15 Pulmonary Vascular Disease in Pregnancy: PH, PAH and Embolism Syndromes

A.R. Hemnes, MD, Nashville, TN

11:45 Pulmonary Vasculitis Crises in the ICU

U. Specks, MD, Rochester, MN

12:15 LUNCH**1:15 Post-Cardiotomy RV Dysfunction**

J.L. Diaz-Gomez, MD, Jacksonville, FL

1:45 Catheter-Based Therapy and PERT for VTE: Yay or Nay

T.M. Bull, MD, Aurora, CO

2:00 Rebuttal

J.A. Kline, MD, Indianapolis, IN

2:15 Catheter-Based Therapy and PERT for VTE: Yay or Nay

J.A. Kline, MD, Indianapolis, IN

2:30 Rebuttal

T.M. Bull, MD, Aurora, CO

2:45 Break**3:00 Reperfusion Injury and Post-Endarterectomy Care in CTEPH**

W. Auger, MD, San Diego, CA

3:30 Mechanical Circulatory Support for the RV

M.M. Hoeper, MD, Hannover, Germany

BASIC • TRANSLATIONAL**POSTGRADUATE COURSE**

CME Credits Available: 7

PG20 THE HALLMARKS OF AGING IN THE LUNG

Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350 In-Training Member: \$200
 Non-Member: \$425 In-Training Non-Member: \$300

Registrants must bring a laptop to the course to view the course material.

Assemblies on Respiratory Cell and Molecular Biology; Allergy, Immunology and Inflammation

8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 152 B (Middle Building, Street Level)

Target Audience

Basic and clinical researchers interested in learning about the hallmarks of the aging lung and new methods of studying lung aging

**Objectives**

At the conclusion of this session, the participant will be able to:

- recognize the hallmarks of aging in the lung;
- understand and learn the new systems biology approaches to study the aging lung;
- learn about the new tools and techniques for assessment of the aging in the lung.

Aging is one the crucial factors contributing to lung diseases, however, mechanisms of normal aging are not well understood. Moreover, there is no clear consensus about the hallmarks of normal aging in the lung, both in clinical settings and in research. This session will assemble a group of experts with the capacity to comprehensively review the state of the art in aging research. Specifically, lectures will focus on practically oriented, measurable hallmarks of aging which can be used in clinical and basic research.

Chairing: P.J. Lee, MD, New Haven, CT
M. Rojas, MD, Pittsburgh, PA
A.V. Misharin, MD, PhD, Chicago, IL

- 8:00 General Welcome and Overview of the Hallmarks of Aging in the Lung**
P.J. Lee, MD, New Haven, CT
- 8:15 NIH NIA Programmatic Perspective on Aging-Related Research**
R. Kohanski, PhD, Bethesda, MD
- 8:50 Lung Endothelium in Aging and Age-Related Lung Disease**
P.J. Lee, MD, New Haven, CT
- 9:25 Immune Landscape in the Aging Lung**
A.V. Misharin, MD, PhD, Chicago, IL
- 10:00 Break**
- 10:10 Extracellular Matrix and the Aging Lung**
V.J. Thannickal, MD, Birmingham, AL
- 10:45 Proteostasis and Aging**
W. Balch, PhD, La Jolla, CA
- 11:20 Cellular Senescence**
I. Rahman, PhD, Rochester, NY
- 11:55 LUNCH**
- 12:35 Mitochondrial Dysfunction and Aging**
G.S. Budinger, MD, Chicago, IL
- 1:10 The Long and Short of Telomeres and Telomerase in Lung Disease**
M. Armanios, MD, Baltimore, MD
- 1:45 Break**
- 1:55 Influenza Virus Infection of the Stem Cell Niche - Implications for Lung Regeneration**
S. Herold, MD, PhD, Giessen, Germany
- 2:30 Age-Related Changes in Lung Mesenchymal Cells**
M. Rojas, MD, Pittsburgh, PA
- 3:05 Age-Related Changes in Ubiquitin-Proteasome System**
S. Meiners, PhD, Munich, Germany
- 3:40 Closing Remarks and Open Discussion**
M. Rojas, MD, Pittsburgh, PA

CLINICAL**POSTGRADUATE COURSE**

CME Credits Available: 7

PG21 PULMONARY FUNCTION AND CARDIOPULMONARY EXERCISE TESTING: MOVING FROM THEORY TO CLINICAL PRACTICE

R Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350 In-Training Member: \$200
Non-Member: \$425 In-Training Non-Member: \$300

Registrants must bring a laptop to the course to view the course material.

Assemblies on Respiratory Structure and Function; Clinical Problems

8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 207 B (South Building, Level 2)

Target Audience

Current and future directors of PFT labs, attending physicians, respiratory therapists, trainees, fellows, and other interested health care providers

Objectives

At the conclusion of this session, the participant will be able to:

- gain further understanding of the principles and practice of pulmonary function and exercise physiology diagnostic tests;
- develop greater confidence interpreting pulmonary function and cardiopulmonary exercise test results in clinical practice;
- identify strategies to approach the interpretation of pulmonary function and cardiopulmonary exercise test results in complex patients.

This course will focus on the approach to interpreting pulmonary function and cardiopulmonary exercise tests, moving from the basic physiologic underpinnings to implementation in clinical practice. We will combine didactic lectures with case-based instruction in small group settings, and we will offer participants the opportunity to bring their own complex cases for review by an expert team of clinicians and physiologists. Small group discussion will include pulmonary function and exercise tests, and we will use a team approach to facilitating the group discussions including content experts and pulmonary function laboratory medical directors from around the world.

Chairing: C.E. Berry, MD, Tucson, AZ
M.C. McCormack, MD, MHS, Baltimore, MD
D.A. Kaminsky, MD, Burlington, VT

8:00 Introduction to Pulmonary Function and Cardiopulmonary Exercise Testing: From Physiology to Practice
C.E. Berry, MD, Tucson, AZ

8:15 Take a Deep Breath: Expert Approach to Spirometry Interpretation and Reference Equations
B.H. Culver, MD, Seattle, WA

8:45 Sizing Things Up: Lung Volume Measurement and Interpretation
B. Borg, BAppSc, CRFS, Prahran, Australia

9:15 Confusion with Diffusion: Understanding Diffusing Capacity and KCO
C.E. Berry, MD, Tucson, AZ



- 9:45** **What About the Kids? Special Considerations for Pediatric Pulmonary Function Measurement and Interpretation**
D. Weiner, MD, Pittsburgh, PA
- 10:15** **Easing Your Frustration with Bronchoprovocation: Rethinking the Approach to Challenge Testing and Interpretation**
T.S. Hallstrand, MD, MPH, Seattle, WA
- 10:45** *Break*
- 11:00** **Make the Case: Pulmonary Function Testing**
M.C. McCormack, MD, MHS, Baltimore, MD
M. Rosenfeld, MD, MPH, Seattle, WA
- 12:00** *LUNCH*
- 12:30** **First Things First: Indications, Patient Evaluation, and Protocols for Exercise Testing**
C.D. Mottram, RRT, RPFT, Rochester, MN
- 1:00** **Data Overload: Understanding the Physiology and Evaluating the Data in Cardiopulmonary Exercise Testing**
C.G. Irvin, PhD, Burlington, VT
- 1:30** **Abnormal Responses to Exercise: What Happens in Patients with Cardiopulmonary Disease?**
D.A. Kaminsky, MD, Burlington, VT
- 2:15** *Break*
- 2:30** **Make the Case: Cardiopulmonary Exercise Testing**
C.E. Berry, MD, Tucson, AZ
R. Casaburi, MD, PhD, Torrance, CA
N. MacIntyre, MD, Durham, NC

- complete the 2016 ABIM Pulmonary and Critical Care SEP module.

Led by expert faculty, this active learning session is a clinical practice and literature review designed around the most recent ABIM Self-Evaluation Process modules in pulmonary and critical care medicine. Using the ABIM-SEP questions with an audience response system as a launching point, faculty will lead a brief didactic review followed by an engaging discussion of knowledge gaps, controversy, and practice variation. In addition to a valuable review of high-impact medical knowledge and critical thinking, this session will provide a convenient opportunity to fulfill ABIM maintenance of certification requirements while at the ATS international conference.

Chairing: J.T. Poston, MD, Chicago, IL

- 8:00** **Introduction**
J.T. Poston, MD, Chicago, IL
- 8:10** **Pulmonary Part 1**
J.T. Poston, MD, Chicago, IL
- 9:50** *Break*
- 10:00** **Pulmonary Part 2**
B. Coruh, MD, Seattle, WA
- 11:40** *LUNCH*
- 12:30** **Critical Care Part 1**
J.B. Hall, MD, Chicago, IL
- 2:10** *Break*
- 2:20** **Critical Care Part 2**
P.A. Kritek, MD, Seattle, WA

CLINICAL

POSTGRADUATE COURSE

CME Credits Available: 6.75

PG22 PULMONARY AND CRITICAL CARE REVIEWS: BUILT AROUND THE 2016 ABIM-SEP MODULES

Pre-registration and additional fees required. Continental breakfast and box lunch included. Attendance is limited.

Member: \$350 In-Training Member: \$200
Non-Member: \$425 In-Training Non-Member: \$300

Registrants must bring a laptop to the course to view the course material.

Education Committee

8:00 a.m. - 4:00 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 207 A (South Building, Level 2)

Target Audience

Clinicians practicing pulmonary and/or critical care medicine; clinicians seeking ABIM MOC credit

Objectives

At the conclusion of this session, the participant will be able to:

- critically review and interpret recent literature in pulmonary and critical care medicine;
- apply recent literature in pulmonary and critical care medicine to clinical practice;



4:30 p.m. - 5:30 p.m.

OPENING CEREMONY

WALTER E. WASHINGTON CONVENTION CENTER
Hall E (Middle Building, Level 2)

The American Thoracic Society invites you to attend the Opening Ceremony for the 2017 International Conference. The keynote speaker is Nobel Laureate **James Heckman, PhD, MA**, from the Center for the Economics of Human Development at the University of Chicago. Professor Heckman has devoted his professional life to understanding the origins of major social and economic problems related to inequality, social mobility, discrimination, skill formation and regulation, and to devising and evaluating alternative strategies for addressing those problems.

Also during the Opening Ceremony will be an address by ATS President **David Gozal, MD, MBA** and the presentation of several Respiratory Health Awards.

The following awards will be presented:

Public Service Award: Michelle M. Cloutier, MD, Hartford, CT

World Lung Health Award: Surendra K. Sharma, MBBS, MD, PhD, New Delhi, India

Jo Rae Wright Award for Outstanding Science: Hallie C. Prescott, MD, MSc, Ann Arbor, MI

5:30 p.m. - 6:30 p.m.

**THE NETWORKING EXCHANGE
FOR EARLY CAREER PROFESSIONALS**

MARRIOTT MARQUIS WASHINGTON
University of DC/Catholic University (Level M1)

The Networking Exchange for Early Career Professionals is an annual networking event for early career professionals and first time conference attendees. This one hour event is intended to provide a relaxed atmosphere where attendees can network with peers, ATS leaders, program directors, associate program directors and division directors, as well as other prominent thought leaders. Cocktails and appetizers will be provided.

The Membership Committee, Training Committee, and the Members in Transition and Training Committee (MITT) jointly host the Networking Exchange for Early Career Professionals.

Conference badges are required for admission.

Space is limited. There is no additional fee.



CLINICAL

PEDIATRIC CLINICAL CORE CURRICULUM

CME Credits Available: 1

MOC Points Available: 1

PCC1 PEDIATRIC CLINICAL CORE CURRICULUM

Pediatric Core Curriculum Working Group

7:00 a.m. - 8:00 a.m. **WALTER E. WASHINGTON CONVENTION CENTER****Ballroom B (South Building, Level 3)****Target Audience**

Pediatric pulmonary and critical care physicians who work in a clinical setting and are currently engaged in maintenance of certification

Objectives

At the conclusion of this session, the participant will be able to:

- remain current with medical knowledge relevant to their practice in pediatric pulmonology;
- evaluate their understanding of key skills and content areas in pediatric pulmonology as well as receive feedback on their comprehension of a result of a pre-test/post-test comparison;
- support clinicians who are engaged in maintenance of certification activities by providing updates on subjects included in recertification requirements.

The Pediatric Core Curriculum symposia promote lifelong learning and the enhancement of the clinical judgment and skills essential for practicing pediatrician. The symposia will address topics that have been identified by an ATS pediatric working group, which is comprised of members of the ATS Education Committee and the International Conference Committee, who have identified important areas within pediatric medicine (including severe asthma, ILD, BPD, pulmonary hypertension and pulmonary manifestations of pulmonary disease). Attendees will increase their medical knowledge as a result of attending this symposium, and this will be measured by a comparison of pre-test vs. post-test results on the corresponding maintenance of certification module. The ATS Pediatric Core Curriculum will focus on a 3-year content cycle of key medical content in the area of pediatric medicine.

Chairing: J. Rettig, MD, Boston, MA

7:00 Severe Asthma: Outpatient Evaluation

J. Gaffin, MD, Boston, MA

7:30 Severe Asthma: Inpatient Management

K.R. Ross, MD, Cleveland, OH

This session and the International Conference are supported by an educational grant from Teva Pharmaceuticals

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

BASIC • CLINICAL • TRANSLATIONAL

ATS KEYNOTE SERIES

CME Credits Available: .75

The Keynote Series provides state of the art lectures on selected topics in an unopposed format to showcase major discoveries in pulmonary, critical care and sleep medicine. The speakers have been chosen by input from the members and various ATS committees with consensus built via the

K1 AIDS TO ZIKA: THE PERPETUAL CHALLENGE OF EMERGING AND RE-EMERGING INFECTIOUS DISEASES8:15 a.m. - 9:00 a.m. **WALTER E. WASHINGTON CONVENTION CENTER****East Salon A-C (South Building, Street Level)****Speaker:** A. Fauci, MD, Bethesda, MD

This session will be chaired by J.M. Beck, MD, Denver, CO

K2 TELOMERES AND TELOMERASE IN PULMONARY FIBROSIS AND EMPHYSEMA8:15 a.m. - 9:00 a.m. **WALTER E. WASHINGTON CONVENTION CENTER****West Salon G-I (South Building, Street Level)****Speaker:** M. Armanios, MD, Baltimore, MD

This session will be chaired by Z. Borok, MD, Los Angeles, CA.

**CLINICAL****YEAR IN REVIEW**

CME Credits Available: 2

MOC Points Available: 2

Nursing Contact Hours Available: 2.4

A1 CLINICAL YEAR IN REVIEW 1**9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER****Hall E (Middle Building, Level 2)****Target Audience**

Providers including physicians; registered nurses; advanced practice nurses; respiratory therapists; physician assistants; trainees including residents and fellows; clinical researchers

Objectives

At the conclusion of this session, the participant will be able to:

- apply new clinical research knowledge to clinical practice;
- describe new strategies for managing the care of common conditions in pulmonary, critical care, and sleep;
- apply new findings regarding key conditions in pulmonary, critical care and sleep.

The annual Clinical Year in Review symposia topics are reviews of key clinical research publications over the last year. Each speaker is asked to review the 5-7 most important and influential publications on their topic in the prior year.

Chairing: D.J. Lederer, MD, MS, New York, NY
D.W. Ford, MD, MSCR, Charleston, SC
V.E. Ortega, MD, PhD, Winston-Salem, NC

9:15 New Tools to Support Acute Respiratory Failure
D. Brodie, MD, New York, NY

9:45 General Critical Care
D.W. Ford, MD, MSCR, Charleston, SC

10:15 The Brain and Critical Care
T.P. Bleck, MD, MCCM, Chicago, IL

10:45 Sleep Disordered Breathing
S.S. Redline, MD, MPH, Boston, MA

BASIC • CLINICAL**CLINICAL TOPICS IN PULMONARY MEDICINE**

CME Credits Available: 2

A2 JAMA AND THE NEW ENGLAND JOURNAL OF MEDICINE. DISCUSSION ON THE EDGE: REPORTS OF RECENTLY PUBLISHED PULMONARY RESEARCH

This session will provide a forum for attendees to interact with the authors and editors about papers published in JAMA and the New England Journal of Medicine. Papers presented will be recent publications, selected by the editors, to be of significant importance to the field of pulmonary medicine. Attendees will have the opportunity to hear presentations directly from the author and address questions to both the authors and editors. The discussion is intended to provide

a unique insight into these papers, the selection process, and how the research applies directly to the field of pulmonary medicine.

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER**Room 207 A-B (South Building, Level 2)**

Chairing: G.T. O'Connor, MD, MS, Associate Editor, JAMA
J.M. Drazen, MD, Editor-in-Chief, New England Journal of Medicine

*Speakers And Talks To Be Announced***CLINICAL****CLINICAL TOPICS IN PULMONARY MEDICINE**

CME Credits Available: 2

A3 FELLOWS CASE CONFERENCE

Training Committee; Assemblies on Allergy, Immunology and Inflammation; Behavioral Science and Health Services Research; Clinical Problems

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER**Ballroom C (South Building, Level 3)****Target Audience**

Clinicians, nurses, fellows, residents, and researchers looking to broaden their clinical acumen to facilitate clinical and translational research.

Objectives

At the conclusion of this session, the participant will be able to:

- recognize clinical, radiographic, and pathologic findings of rare diseases or unusual presentations of common diseases;
- gain insight into clinical decision-making skills which will improve the quality of learners' practice and potentially improve quality of care for the learner's patients;
- develop strategies to evaluate patients with common symptoms that include uncommon/rare diseases in the differential diagnosis when appropriate.

This session will consist of unique cases presented and discussed by fellows with a panel of clinical experts to moderate the discussion and provide commentary. The cases will provide new insights into disease pathogenesis, diagnosis, and/or treatment.

Selected cases will include clear clinical teaching points with review of associated pathology and radiology as appropriate. Finally, the discussion will highlight medical decision making important for both physicians-in-training and seasoned clinicians.

Chairing: L.E. Crotty Alexander, MD, San Diego, CA

9:15 Welcome and Introduction

L.E. Crotty Alexander, MD, San Diego, CA
K. Burkart, MD, MSc, New York, NY

9:20 Case Presentations

The Mystery Lungs: Is Smoking or Asthma the Cause?
A.A. Alsaad, MD, Jacksonville, FL

Climbing High: A Rare Complication of High Altitude Pulmonary Edema
N. Mansouri, MD, Boston, MA



Pulmonary and Aortic Masse: When the Rare Meets the Unusual
O.A. Odunusi, MD, Omaha, NE

Lung Disease in the Setting of AIDS: An Under-Recognized Entity
V. Kundel, MD, New York, NY

Cough Up the Diagnosis!
D.M. Golovyan, MD, Fishers, IN

When Asthma Is Not Just Asthma
S. Campbell, DO, Chicago, IL

10:30 Experts

Clinicians
M.I. Schwarz, MD, Aurora, CO
A.H. Limper, MD, Rochester, MN

Pathologist
J.L. Myers, MD, Ann Arbor, MI

Radiologist
C.T. Lin, MD, Baltimore, MD

CLINICAL • TRANSLATIONAL

CRITICAL CARE TRACK

CME Credits Available: 2

MOC Points Available: 2

A4 DETERMINANTS OF LONG-TERM OUTCOMES AMONG CRITICALLY ILL OLDER ADULTS: FROM CELL TO POPULATION

Assembly on Critical Care

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 146 A-B (Middle Building, Street Level)

Target Audience

Clinical and translational scientists who study the basic and clinical aspects of critical illness; nurses, physicians, pharmacists, therapists and social workers who provide care in the intensive care unit (ICU), inpatient providers caring for patients transferred from the ICU, and outpatient providers who care for ICU survivors

Objectives

At the conclusion of this session, the participant will be able to:

- identify important risk factors that increase vulnerability in older adults, such as frailty, disability, and aging biology and understand the effects of these risk factors on long-term outcomes for older survivors of critical illness;
- gain an understanding of the role of longitudinal studies of aging in advancing the science of critical care outcomes research and how these studies have improved our understanding of prognosis in a way that can be applied at the bedside, and ways that longitudinal functional information can be added into future studies;
- facilitate the integration of geriatrics and critical care research to improve the care of older adults with critical illness by identifying funding opportunities for aging-related critical care research from the National Institute of Aging;

Older adults comprise the majority of patients admitted to ICUs each year. The aging population and improved survival from critical illness is expected to drive

a significant increase in the number of older ICU survivors with life-altering physical and cognitive impairments. This session will explore age-related biological processes and clinical factors that affect long-term outcomes from a clinical and translational science perspective, including ways to enhance care for critically ill older adults. Finally, this session will explore the role of aging-related research in understanding outcomes after critical illness and introduce attendees to research programs from the National Institute on Aging.

Chairing: L. Ferrante, MD, New Haven, CT
N.E. Brummel, MD, Nashville, TN
W.J. Ehlenbach, MD, Madison, WI

9:15 **Aging Biology and Critical Illness: Bidirectional Mechanistic Insights**

D.C. Files, MD, Winston-Salem, NC

9:35 **Phenotypic, Deficit Accumulation, and Social Perspectives of Frailty in Older Adults with Critical Illness**

N.E. Brummel, MD, Nashville, TN

9:55 **The Importance of Pre-ICU Factors on Long-Term Outcomes Among Critically Ill Older Adults**

L. Ferrante, MD, New Haven, CT

10:15 **Personalizing ICU Care for Older Adults: Applying Outcomes Research to Older Adults with Critical Illness**

W.J. Ehlenbach, MD, Madison, WI

10:35 **Finding Hidden Data About Pre-ICU Functioning to Understand the Long Arc of Your Patient's Life**

T.J. Iwashyna, MD, PhD, Ann Arbor, MI

10:55 **Meet the NIA: Research Opportunities at the Nexus of Aging and Critical Illness**

S. Ziemann, MD, PhD, Bethesda, MD

BASIC • TRANSLATIONAL

BASIC SCIENCE CORE

CME Credits Available: 2

A5 DOHAD: DEVELOPMENTAL ORIGINS OF HEALTH AND DISEASE AND THE CIRCLE OF LIFE FOR LUNG DISEASE

Assemblies on Allergy, Immunology and Inflammation; Respiratory Cell and Molecular Biology; Respiratory Structure and Function

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS WASHINGTON

Independence Ballroom E-H (Level M4)

Target Audience

Those conducting translational research; those conducting basic or discovery research; those conducting clinical research; research and clinical fellows; graduate students; providers of lung health

Objectives

At the conclusion of this session, the participant will be able to:

- understand the developmental origins of health and disease theory and how it relates to the evolution of adult-onset disease;
- learn new findings about the impact of exposure to environmental toxins and microorganisms, as well as the nature of the lung microbiome, as



determinants of developmental programming leading to human lung disease;

- learn new findings about the contribution of paternal epigenetics for disease programming for chronic disease.

The developmental origins of health and disease theory is based on evidence that a suboptimal environment during fetal and neonatal development can impact the evolution of adult-onset disease. A compromised prenatal (and early postnatal) environment leads to increased risk of a number of chronic diseases. DOHaD research is only just emerging as a significant force with respect to lung health and disease. This session will highlight fundamental elements of the DOHaD theory, leveraging examples of significant advances in other disease areas, as well as presenting current significant advances being made with respect to an array of lung disorders.

Chairing: A.J. Halayko, PhD, Winnipeg, Canada
M. Konigshoff, MD, PhD, Aurora, CO

9:15 DOHaD Theory: How In Utero Mechanisms Identify Therapeutic Targets for Hypertension
S.T. Davidge, PhD, Edmonton, Canada

9:41 The Airway Microbiome at Birth: Setting the Stage for Subsequent Lung Disease
C.V. Lal, MD, Birmingham, AL

10:04 Environmental Shaping of the Innate Immune Response: Mechanisms for Asthma Protection in Kids
A.I. Sperling, PhD, Chicago, IL

10:27 Pulmonary Effects of Maternal Smoking or Vaping During Pregnancy on Lung Development, Epigenetics, and Life Long Lung Health
E.R. Spindel, MD, PhD, Beaverton, OR

10:50 Sex-Specificity in Transgenerational Inheritance: Noncoding RNAs, Environmental Epigenetics and Disease
W. Yan, MD, PhD, Reno, NV

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

A6 BARBARIANS AT THE GATE: VIRUSES AND THE AIRWAY EPITHELIUM IN ASTHMA

Assemblies on Allergy, Immunology and Inflammation; Environmental, Occupational and Population Health; Pediatrics; Respiratory Cell and Molecular Biology

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER
Ballroom A (South Building, Level 3)

Target Audience

Lung health providers, trainees, and those involved in research or clinical care related to asthma and lung infections. This topic is expected to appeal to both scientists and clinicians.

Objectives

At the conclusion of this session, the participant will be able to:

- describe the most up-to-date information on the relationship between early life viral infections and risk for development of asthma;

- understand and describe new advances in the molecular understanding of common childhood respiratory viruses;
- describe the role of the airway epithelium in mediating host-environment interactions.

Viral respiratory infections are the most common causes of wheezing in infants and young children and are associated with an increased risk of developing childhood asthma. In addition, viral respiratory infections are common triggers of asthma exacerbations in adult and pediatric patients with pre-existing asthma. The mechanisms by which viral respiratory infections increase future risk of asthma and cause asthma exacerbations are uncertain. Investigators in the NIAID-funded Asthma and Allergic Disease Cooperative Research Center (AADCRC) shed light on these mechanisms through basic, translational and clinical investigation. These studies have yielded new insights into the central role of viral infection in the pathogenesis of asthma and the role that the airway epithelium plays in mediating host-virus interactions. This symposium will present these new discoveries and place them in the context of human disease.

Chairing: P.G. Woodruff, MD, MPH, San Francisco, CA
D. Byers, MD, PhD, St. Louis, MO
R.S. Peebles, MD, Nashville, TN

9:15 Epithelial Barrier Programs in Asthma and Allergic Disease
M.J. Holtzman, MD, St. Louis, MO

9:35 Host and Viral Determinants of Infant and Childhood Allergy and Asthma
T. Hartert, MD, MPH, Nashville, TN

9:55 Mechanisms and Environmental Determinants of Rhinovirus Illness Severity
J.E. Gern, MD, Madison, WI

10:15 Epithelial Determinants of Childhood Asthma
G.K. Hershey, MD, PhD, Cincinnati, OH

10:35 Epithelial Control of Responses to Allergen Challenge and Viral Exacerbation
S.F. Ziegler, PhD, Seattle, WA

This session and the International Conference are supported by an educational grant from Teva Pharmaceuticals

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

BEHAVIORAL • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

A7 HOT TOPICS IN PULMONARY REHABILITATION: A PRO/CON DEBATE

Assemblies on Pulmonary Rehabilitation; Behavioral Science and Health Services Research; Clinical Problems

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 143 A-C (Middle Building, Street Level)

Target Audience

Clinicians of all disciplines with an interest in chronic disease management, registered nurses, advanced practice nurses, respiratory therapists, providers



of pulmonary rehabilitation services, clinical researchers, and physicians in training

Objectives

At the conclusion of this session, the participant will be able to:

- identify five areas of controversy in the field of pulmonary rehabilitation medicine;
- describe how the latest advances in pulmonary rehabilitation can modify and optimize existing practices in the care of patients with chronic pulmonary disease;
- apply a balanced and evidence-based view to current controversies in pulmonary rehabilitation medicine.

There are ongoing controversial issues in pulmonary rehabilitation medicine that significantly impact the overall approach to the care of patients with chronic pulmonary disease. This symposium will explore these knowledge gaps through the vehicle of the pro/con debate. The specific topics will be debated by an international faculty of experts who will provide balanced and evidence-based information regarding these controversial areas to guide and improve current clinical practice.

Chairing: M.L. Moy, MD, MSc, Boston, MA
W. Man, MD, PhD, Harefield, United Kingdom

- 9:15 PRO: We Can Increase Access to Pulmonary Rehabilitation**
C.L. Rochester, MD, New Haven, CT
- 9:25 CON: We Cannot Increase Access to Pulmonary Rehabilitation**
C.M. Garvey, FNP, MSN, MPH, San Francisco, CA
- 9:39 PRO: A Mortality Study is Needed to Prove Efficacy of Pulmonary Rehabilitation**
R. Casaburi, MD, PhD, Torrance, CA
- 9:49 CON: A Mortality Study is Not Needed to Prove Efficacy of Pulmonary Rehabilitation**
B.R. Celli, MD, Boston, MA
- 10:03 PRO: "Add-Ons" Should Be Used in Conventional Pulmonary Rehabilitation**
S.P. Bhatt, MD, Birmingham, AL
- 10:13 CON: "Add-Ons" Should Not Be Used in Conventional Pulmonary Rehabilitation**
H. Demeyer, PhD, Leuven, Belgium
- 10:27 PRO: Pulmonary Rehabilitation Should Be Delivered at Home**
A.E. Holland, PhD, Melbourne, Australia
- 10:37 CON: Pulmonary Rehabilitation Should Not Be Delivered at Home**
J. Bourbeau, MD, Montreal, Canada
- 10:51 PRO: Directly Measured Physical Activity Should Be Routinely Assessed in Clinical Care**
T. Troosters, PhD, Leuven, Belgium
- 11:01 CON: Directly Measured Physical Activity Should Not Be Routinely Assessed in Clinical Care**
H.Q. Nguyen, PhD, RN, Pasadena, CA

There will be a 5-minute discussion after each talk.

BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

A8 A PRO/CON DEBATE: CONTROVERSIES IN PAH PATHOGENESIS

Assembly on Pulmonary Circulation

9:15 a.m. - 11:15 a.m.

MARRIOTT MARQUIS WASHINGTON

Liberty Ballroom I-L (Level M4)

Target Audience

Basic, translational and clinical researchers and clinicians with an interest in pulmonary arterial hypertension

Objectives

At the conclusion of this session, the participant will be able to:

- summarize the evidence why the immune system plays a role in the etiology of pulmonary arterial hypertension;
- learn about the opposing processes of endothelial cell apoptosis and proliferation that both play a role in the pathogenesis of PAH and probably even at the same time;
- critically weigh the role of shear stress and dysfunctional BMPR2 signaling in the development of PAH.

This session will focus on controversies in the understanding of the pathogenesis of pulmonary arterial hypertension (PAH). By employing a pro/con debate style, this session will critically evaluate opposing views of how pulmonary hypertension develops, identify points of agreement and disagreement with the ultimate goal to reach a consensus to identify novel treatment targets for PAH.

Chairing: E.F. Spiekerkoetter, MD, Palo Alto, CA
W.M. Kuebler, MD, PhD, Toronto, Canada

- 9:15 Pulmonary Arterial Hypertension Is an Autoimmune Disease**
M. Nicolls, MD, Stanford, CA
- 9:25 Pulmonary Arterial Hypertension Is NOT an Autoimmune Disease**
A. Olschewski, MD, Graz, Austria
- 9:35 Rebuttal**
- 9:40 Rebuttal**
- 9:45 Hemodynamic Stress Is the Most Important Driver in the Pathogenesis of Occlusive Neointimal Lesions in PAH**
K. Abe, MD, PhD, Fukuoka, Japan
- 9:55 Hemodynamic Stress Is NOT the Most Important Driver in the Pathogenesis of Occlusive Neointimal Lesions in PAH**
M. Rabinovitch, MD, Stanford, CA
- 10:05 Rebuttal**
- 10:10 Rebuttal**
- 10:15 Pulmonary Hypertension Is a Disease of Endothelial Cell Apoptosis NOT Proliferation**
D. Stewart, MD, Ottawa, Canada



10:25 Pulmonary Hypertension Is a Disease of Proliferation and NOT Endothelial Cell Apoptosis
S.Y. Chan, MD, PhD, Pittsburgh, PA

10:35 Rebuttal

10:40 Rebuttal

10:45 BMPR2 Signaling Is the Central Therapeutic Target in PAH
N. Morrell, MD, Cambridge, United Kingdom

10:55 BMPR2 Signaling Is NOT the Central Therapeutic Target in PAH
S. Archer, MD, Kingston, Canada

11:05 Rebuttal

11:10 Rebuttal

This session and the International Conference are supported by an educational grant from Actelion Pharmaceuticals US, Inc.

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BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

A9 IN MEMORY OF PETER T. MACKLEM: EMERGENT PHENOMENA AND HETEROGENEITY IN RESPIRATORY DISEASE

Assemblies on Respiratory Structure and Function; Allergy, Immunology and Inflammation; Pulmonary Circulation; Respiratory Cell and Molecular Biology; Sleep and Respiratory Neurobiology

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 5 (Level M2)

Target Audience

Those with an interest in complex phenomena in the lung originating from interactions among the elements of a system or organ such as the cells of the epithelial cell layer, airways within the bronchial tree in asthma, and blood vessels in the vascular tree in pulmonary hypertension

Objectives

At the conclusion of this session, the participant will be able to:

- gain knowledge on how emergent behavior can explain phenomena of lung diseases such as ventilation defects during bronchoconstriction, and how it might be indicative of idiopathic pulmonary hypertension;
- identify emergent phenomena in lung physiology and lung disease for further investigation or the development of novel treatment approaches.

Lung environment interactions have the potential to trigger seemingly small changes in the lung, which may have much greater impact on the lung through Emergent Phenomena. Expanding on Peter Macklem's article "Emergent phenomena and the secrets of life" (J. Appl. Physiol., 104: 1844-1846, 2008), the session will review key concepts of emergent behavior where the spontaneous development of self-organized order among ensembles occurs, resulting in patterns that can be neither predicted nor explained by examining the isolated components. The session will explore the role of emergent phenomena in health and disease processes such as asthma, breathing during sleep, and pulmonary arterial hypertension.

Chairing: G.K. Prisk, DSc, PhD, La Jolla, CA
T. Winkler, PhD, Boston, MA
J.P. Butler, PhD, Boston, MA

9:15 Cell Migration and Long Range Correlations
J.J. Fredberg, PhD, Boston, MA

9:35 Emergent Oscillatory Behavior in Breathing
J.P. Butler, PhD, Boston, MA

9:55 Airway Instability and Runaway Bronchoconstriction
T. Winkler, PhD, Boston, MA

10:15 The Mechanical Consequences of Emergent Behavior in the Lung
J.H.T. Bates, DSc, PhD, Burlington, VT

10:35 Nonlinear Dynamics and Pulmonary Arterial Hypertension
S.R. Hopkins, MD, PhD, La Jolla, CA

10:55 General Discussion
G.K. Prisk, DSc, PhD, La Jolla, CA

There will be a 5-minute discussion after each talk.

CLINICAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

A10 A PRO/CON DEBATE IN PEDIATRIC ASTHMA

Assemblies on Pediatrics; Allergy, Immunology and Inflammation; Clinical Problems; Environmental, Occupational and Population Health

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Ballroom B (South Building, Level 3)

Target Audience

Providers of pediatric asthma care, including registered nurses and advanced practice nurses

Objectives

At the conclusion of this session, the participant will be able to:

- discuss recent data about early allergen exposure and asthma;
- explain the use of FeNO as a method of monitoring asthma control as well as Vitamin D supplementation in the treatment of asthma;
- apply recent data to the treatment of preschool children with intermittent asthma.

This pro/con session will review the evidence on four current controversies in pediatric asthma: 1) Early environmental allergen exposure prevents asthma; 2) Vitamin D supplementation should be a part of asthma management; 3) FeNO should be a standard part of asthma monitoring; and 4) Intermittent ICS is preferred therapy for preschool children with intermittent asthma. Each speaker will review current literature as they present their argument either for or against the topic statement.

Chairing: T. Simoneau, MD, Hartford, CT
E. Forno, MD, MPH, Pittsburgh, PA
A. Bush, MD, London, United Kingdom



- 9:15 Early Allergen Exposure Prevents Asthma**
W. Phipatanakul, MD, Boston, MA
- 9:25 Early Allergen Exposure Does Not Prevent Asthma**
G.B. Marks, MBBS, PhD, Sydney, Australia
- 9:35 General Discussion**
- 9:41 Rebuttal**
W. Phipatanakul, MD, Boston, MA
- 9:43 Rebuttal**
G.B. Marks, MBBS, PhD, Sydney, Australia
- 9:45 Vitamin D Supplementation Should Be a Part of Asthma Management**
B.L. Chawes, MD, PhD, Copenhagen, Denmark
- 9:55 Vitamin D Supplementation Should Not Be a Part of Asthma Management**
J.C. Celedon, MD, DrPH, Pittsburgh, PA
- 10:05 General Discussion**
- 10:11 Rebuttal**
J.C. Celedon, MD, DrPH, Pittsburgh, PA
- 10:13 Rebuttal**
B.L. Chawes, MD, PhD, Copenhagen, Denmark
- 10:15 FeNO Measurement Should Be a Standard Part of Asthma Monitoring**
A. Bush, MD, London, United Kingdom
- 10:25 FeNO Measurement Should Not be a Standard Part of Asthma Monitoring**
M. Pijnenburg, MD, PhD, Rotterdam, Netherlands
- 10:35 General Discussion**
- 10:41 Rebuttal**
A. Bush, MD, London, United Kingdom
- 10:43 Rebuttal**
M. Pijnenburg, MD, PhD, Rotterdam, Netherlands
- 10:45 Intermittent ICS Is the Preferred Management for Preschool Children with Intermittent Asthma**
L. Bacharier, MD, St. Louis, MO
- 10:55 Intermittent ICS Is Not the Preferred Management for Preschool Children with Intermittent Asthma**
F. Ducharme, MD, Montreal, Canada
- 11:05 General Discussion**
- 11:11 Rebuttal**
L. Bacharier, MD, St. Louis, MO
- 11:13 Rebuttal**
F. Ducharme, MD, Montreal, Canada

This session and the International Conference are supported by an educational grant from Teva Pharmaceuticals

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

BEHAVIORAL • CLINICAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

MOC Points Available: 2

Nursing Contact Hours Available: 2.4

A11 LUNG CANCER SCREENING AND TOBACCO CESSATION: THE TEACHABLE MOMENT?

Assemblies on Thoracic Oncology; Behavioral Science and Health Services Research

9:15 a.m. - 11:15 a.m.

MARRIOTT MARQUIS WASHINGTON

Independence Ballroom A-D (Level M4)

Target Audience

Physicians; nurses; advanced practice practitioners (APRNs and PAs); and allied health providers (respiratory care) who participate in the care of patients who smoke, have smoked, have had lung cancer, or are perceived to have high lung cancer risk

Objectives

At the conclusion of this session, the participant will be able to:

- discuss the barriers and identify strategies in providing effective tobacco dependence treatment within LDCT screening programs;
- recognize research gaps in implementing smoking cessation interventions within LDCT programs;
- improve quit rates for patients who are referred for LDCT screening by optimizing guideline recommended smoking cessation interventions in this setting.

Smoking cessation treatment in conjunction with lung cancer screening offers the opportunity to reduce smoking related mortality. The best approach for delivering interventions in this setting is not known. The session will focus on 5 areas: (1) effect of screening on smoking cessation; (2) minimizing disparities in tobacco treatment within this context; (3) effective smoking cessation interventions specific to screening; (4) message framing to optimize cessation in this setting; (5) applying science to regulatory decision making. We will discuss clinical guidelines, highlight the evidence, address research gaps, and outline stakeholder recommendations for future research.

Chairing: H. Kathuria, MD, Boston, MA
L.T. Tanoue, MD, New Haven, CT
R.S. Wiener, MD, MPH, Boston, MA

9:15 A Patient Perspective on Lung Cancer Screening and Tobacco Use Cessation

K. Fennig, Beavercreek, OH

9:20 The Effect of Screening on Smoking Cessation: What Do We Know?

C. van der Aalst, PhD, Rotterdam, Netherlands

9:45 Minimizing Disparities: Tobacco Dependence Treatment and Lung Cancer Screening in Underserved Populations

M.P. Rivera, MD, Chapel Hill, NC

10:10 Innovative Approaches to Implementing Tobacco Treatment in Lung Cancer Screening

J.T. Fathi, ARNP, DNP, Seattle, WA



- 10:35** **Message Framing for Tobacco Dependence Disorder within the Lung Cancer Screening Setting**
B. Toll, PhD, Charleston, SC
- 11:00** **Maximizing the Moment: Future Directions for Integrating Smoking Cessation with Lung Cancer Screening**
H. Kathuria, MD, Boston, MA

BEHAVIORAL • CLINICAL**SCIENTIFIC SYMPOSIUM**

CME Credits Available: 2

A12 THE PROMISE AND REALITY OF WEARABLE HEALTH TECHNOLOGY

Drug/Device Discovery and Development Committee; Assemblies on Behavioral Science and Health Services Research; Clinical Problems

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 152 A-B (Middle Building, Street Level)

Target Audience

Health care professionals, patients and patient-support groups; clinicians and clinical investigators involved in translational and clinical research in both academic and industry settings

Objectives

At the conclusion of this session, the participant will be able to:

- learn and describe the current role of wearable devices in the prevention, identification, and management of pulmonary diseases, with special consideration for use of mobile health technology in vulnerable, high risk populations;
- gain understanding and describe the broad framework for conducting clinical studies of pulmonary diseases using wearable technology, including rational approaches, regulatory challenges and future directions for technology development;
- describe the future prospects for wearable devices in the prevention, identification, and management of pulmonary diseases.

This session will provide a state of the art discussion of the current and future role of wearable technology in the prevention and management of pulmonary diseases, with relevant information for both clinical and translational researchers and practicing clinicians. Topics will provide special emphasis on the role of wearable technology in interventions designed to reach vulnerable populations and to promote pulmonary health equity. The session will also describe considerations when conducting clinical studies dependent on or to further develop wearable technology for the prevention and management of pulmonary diseases.

Chairing: G.T. Ferguson, MD, Farmington Hills, MI
T.M. Powell-Wiley, MD, MPH, Bethesda, MD
B.J. Make, MD, Denver, CO

- 9:15** **Wearable Devices and Smoking Cessation: What Have We Learned About Using Wearables in Behavior Change?**
S.A. Murphy, PhD, Ann Arbor, MI
- 9:39** **The Role of Wearable Devices in Sleep Medicine**
M. Hirshkowitz, PhD, Houston, TX

- 10:03** **Use of Mobile Health Technology in Vulnerable Populations**
T.M. Powell-Wiley, MD, MPH, Bethesda, MD
- 10:27** **Wearable Technology in Assessing the Impact of Pulmonary Rehabilitation**
F.C. Sciurba, MD, Pittsburgh, PA
- 10:51** **Activity Monitors for Precision Assessment of Activity in COPD Patients**
R. Bowler, MD, PhD, Denver, CO

MINI SYMPOSIUM**A13 ROLE OF DYSBIOSIS IN LUNG DISEASE**

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 204 A-C (South Building, Level 2)

Chairing: A.M. Morris, MD, MS, Pittsburgh, PA
S.C. Flores, PhD, Aurora, CO
Y.J. Huang, MD, Ann Arbor, MI

Oral Presentations

- 9:15** **Lung Cancer and Lung Microbiome/J.J. Tsay, J. Clemente, T. Lhakhang, Y. Li, T.-A. Yie, B.G. Wu, B. Kapoor, J. Wang, D.H. Stermann, A. Heguy, W.N. Rom, M. Blaser, L.N. Segal, New York, NY, p.A1001**
- 9:30** **Lung Microbiome Dysbiosis Is a Risk Factor for Pulmonary Diffusion Abnormalities in Antiretroviral Treated HIV-Infection/M.D. Weiden, L.N. Segal, J. Clemente, Y. Li, M. Danckers-Degregory, A.M. Morris, S. Tapyrik, P. Diaz, R. Dawson, R. Van Zyl-Smit, K.U.J. Dheda, W.N. Rom, New York, NY, p.A1002**
- 9:45** **Lung Microbiota Are Altered in a Murine Model of Pulmonary Fibrosis and Are Necessary for Pathogenesis/D.N. O'Dwyer, S.L. Ashley, C.A. Wilke, N.R. Falkowski, G. Huffnagle, B.B. Moore, R.P. Dickson, Ann Arbor, MI, p.A1003**
- 10:00** **Early-Life Nasopharyngeal Colonization with Lactobacillus Reduces Risk of Childhood Wheezing Illnesses Following Respiratory Syncytial Virus Infection in Infancy/C. Rosas-Salazar, M. Shilts, A. Tovchigrechko, S. Schobel, J.D. Chappell, E.K. Larkin, T. Gebretsadik, R. Halpin, K.E. Nelson, M.L. Moore, L.J. Anderson, R.S. Peebles, S.R. Das, T. Hartert, Nashville, TN, p.A1004**
- 10:15** **Disruption of Lung Microbiota Precedes Peak Lung Injury in a Mouse Model of Acute Respiratory Distress Syndrome/S.L. Ashley, D.N. O'Dwyer, N.R. Falkowski, B.B. Moore, G. Huffnagle, R.P. Dickson, Ann Arbor, MI, p.A1005**
- 10:30** **Cigarette Smoke Dysregulates Gut Microbiome in Multiple Strains of Mice Correlating with Inflammation in the Lung/R. Xiao, B.G. Wu, M. Goldklang, M. McClelland, L.N. Segal, J.M. D'Armiento, New York, NY, p.A1006**
- 10:45** **Airway Inflammation, Asthma Control and Gut Microbiome Are Improved by Soluble Fibre Supplementation/L.G. Wood, B.S. Berthon, R. Zapiain, L.E.X. Leong, K.A. Baines, P.G. Gibson, D. Arnold, G. Rogers, New Lambton Heights, Australia, p.A1007**



11:00 **The Microbiome as a Predictor for Bronchiolitis Obliterans in COPD Lung Transplant Patients/C.** Schott, S. Weigt, B.A. Turturice, C. Ascoli, A. Metwally, K. Andropolis, D.L. Perkins, J.A. Belperio, P.W. Finn, Chicago, IL, p.A1008

MINI SYMPOSIUM

A14 COPD: SYSTEMS BIOLOGY AND COMORBIDITY

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 202 A (South Building, Level 2)

Chairing: D.D. Sin, MD, Vancouver, Canada
M.G. Foreman, MD, Atlanta, GA
F.C. Sciurba, MD, Pittsburgh, PA

Featured Speaker

9:15 Systems Biology Begets Comorbidity in COPD/A. Agusti, MD, Barcelona, Spain,

Oral Presentations

- 9:30 Low Muscle Mass and Mortality in Smokers with and Without COPD/A.A.** Diaz, C.H. Martinez, R. Harmouche, T.P. Young, M.-L.N. McDonald, J. Ross, R. San Jose Estepar, M.K. Han, R.P. Bowler, B.J. Make, E. Regan, E.K. Silverman, J.D. Crapo, G. Kinney, J. Hokanson, G. Washko, Boston, MA, p.A1009
- 9:45 Peripheral Leukocyte Telomere Length Is Associated with Short Term Lung Function Decline/J.** Leung, W.C. Tan, J. Bourbeau, J. Liu, S.P. Man, D.D. Sin, Vancouver, Canada, p.A1010
- 10:00 Lung Health and the Association with Cardiovascular Disease Outcomes: The CARDIA Study/M.J.** Cuttica, L.A. Colangelo, G. Washko, J.J. Carr, J. Rana, D.R. Jacobs, B. Thyagarajan, S. Sidney, C.E. Lewis, K. Liu, D. Lloyd-Jones, R. Kalhan, Chicago, IL, p.A1011
- 10:15 Retinal Microvascular Changes in People with COPD Compared to Age-Matched Smokers Without COPD/G.J.** McKay, R. McCarter, R.E. Hogg, M.-P.K. Bajaj, D. Burrage, S. Ruickbie, E.H. Baker, P.W. Jones, J.W. Dodd, Belfast, United Kingdom, p.A1012
- 10:30 Sarcopenia as a Predictor of Mortality in Obstructive Lung Disease: A Secondary Analysis of the CRELES Study/C.A.** Celis Preciado, M. Borda, D. Patino-Hernandez, C. Cano, M. Perez-Cepeda, Bogota, Colombia, p.A1013
- 10:45 Acute Exacerbations of Chronic Obstructive Pulmonary Disease Increase Subsequent Cardiovascular Event Risk: A Secondary Analysis of Adjudicated SUMMIT Study Data/K.M.** Kunisaki, M. Dransfield, J.A. Anderson, R.D. Brook, P.M.A. Calverley, B.R. Celli, C. Crim, B.F. Hartley, F.J. Martinez, D.E. Newby, A.A. Pragman, J. Vestbo, J. Yates, D.E. Niewoehner, Minneapolis, MN, p.A1014
- 11:00 Albuminuria Is Associated with Lung Function Decline and Incident Severe Chronic Lower Respiratory Disease Exacerbations: The NHLBI Pooled Cohorts Study/E.** Oelsner, P.P. Balte, P. Cassano, D.R. Jacobs, R.G. Barr, K. Burkart, R. Kalhan, R. Kronmal, L. Loehr, G.T. O'Connor, J. Schwartz, R. Tracy, M. Tsai, W. White, S. Yende, New York, NY, p.A1015

MINI SYMPOSIUM

A15 CRITICAL CARE: THE FUTURE OF CRITICAL CARE? REGIONALIZATION AND CLOSING THE GENDER GAP

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 146 C (Middle Building, Street Level)

Chairing: H.B. Gershengorn, MD, Bronx, NY
G.D. Rubinfeld, MD, MSc, Toronto, Canada
C.S. Calfee, MD, San Francisco, CA

Oral Presentations

- 9:15 Differences in Clinical Practice Guideline Committee Membership by Sex/E.** Merman, N. Goldberg, S. Luca, M. Jakab, C. Bell, D. Pincus, S. Straus, M.S. Herridge, S. Mehta, Toronto, Canada, p.A1016
- 9:30 Gender Gap in Critical Care Literature Authorship and Task Force Participation/K.T.** Janssen, H.M. Urbach, S.S. Wewerka, K.R. Ham, C.R. Cooke, S.E. Erickson, Minneapolis, MN, p.A1017

Featured Speaker 1

9:45 Diversity in Leadership: Critical in Critical Care/Speaker To Be Announced

Oral Presentations

- 10:00 Effect of High Volume ICUs on Mortality in ARDS Over 15 Years/M.** Dres, T. Pham, P. Aegerter, B. Guidet, L.J. Brochard, A. Demoule, G. Geri, Paris, France, p.A1018
- 10:15 A Comparison of Outcomes Between a High-Volume and Other Long-Term Care Hospitals in the Chicago Market: An Examination of Patients on Prolonged Mechanical Ventilation/B.** Demiralp, F. He, L. Koenig, D. Hengesbach, J. Prister, Rockville, MD, p.A1019
- 10:30 The Association of Admission to High-Acuity Versus Low-Acuity ICUs with Outcomes of ICU Patients at Low Risk of Dying/K.C.** Vranas, J.Y. Scott, O. Badawi, J.K. Jopling, M. Ramsey, M.O. Harhay, A. Milstein, X. Liu, M. Breslow, C.G. Slatore, M.P. Kerlin, Portland, OR, p.A1020
- 10:45 Longer Interhospital Transfer Times for Critical Care Patients Are Associated with Increased Mortality/A.** Neumeier, B.J. Clark, M. Moss, Aurora, CO, p.A1021

Featured Speaker 2

11:00 Regionalization of Critical Care/Speaker To Be Announced

MINI SYMPOSIUM

A16 WHY SHOULD WE BE CONCERNED ABOUT E-CIGARETTES?

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 147 A-B (Middle Building, Street Level)



Chairing: D. DeMeo, MD, MPH, Boston, MA
M.G. Foreman, MD, Atlanta, GA
I. Jaspers, PhD, Chapel Hill, NC

Oral Presentations

- 9:15** **Reasons for Electronic Cigarette Use Among Southern California Young Adults/H.** Hong, J. Barrington-Trimis, F. Liu, R. Urman, R. McConnell, Los Angeles, CA, p.A1022
- 9:30** **Particles Released from Primary E-Cigarette Vaping: Particle Size Distribution and Particle Deposition in the Human Respiratory Tract/Q.** Meng, Y. Son, H. Kipen, D. Laskin, S. Schwander, C. Delnevo, Piscataway, NJ, p.A1023
- 9:45** **The Damaging Effects of Electronic Cigarettes on Lung Structure/B.B.** Trinh, I.E. Rodriguez, V. Karoor, A.S. Rau, V. Reinikovaite, F.W.B. Deleyiannis, L. Taraseviciene-Stewart, Aurora, CO, p.A1024
- 10:00** **E-Cigarette User Airway Secretions Exhibit Increased Leukocyte Derived Inflammatory Mediator Proteins/B.** Reidel, A.A. Ford, G. Radicioni, P. Haridass, N.E. Alexis, I. Jaspers, R. Tarran, M. Kesimer, Chapel Hill, NC, p.A1025
- 10:15** **E-Cigarettes Cause Human Bronchial Epithelial Cell Apoptosis and Death as Well as Altered Cytokine Profile/M.** Ween, J. Whittall, S. Hodge, Adelaide, Australia, p.A1026
- 10:30** **Chronic Electronic Cigarette Inhalation Induces Multi-Organ Fibrosis in Multiple Mouse Strains/L.E.** Crotty Alexander, C. Drummond, A. Moshensky, Z. Yong, San Diego, CA, p.A1027
- 10:45** **Inhalation of Electronic Cigarette Vapor Induces Bronchospasm in Guinea Pig Model Through a Cholinergic Reflex/M.** Khosravi, R.-L. Lin, L.Y. Lee, Lexington, KY, p.A1028
- 11:00** **The Effect of E-cigarettes (EC) on Nasal Platelet Activating Factor Receptor (PAFR) Expression/L.** Miyashita, R. Suri, J. Grigg, London, United Kingdom, p.A1029

MINI SYMPOSIUM

A17 MEASUREMENT OF SYMPTOMS AND FUNCTION

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 102 A-B (South Building, Street Level)

Chairing: L. Matura, PhD, RN, Philadelphia, PA
M. Parshall, PhD, RN, Albuquerque, NM

Oral Presentations

- 9:15** **Visualizing MDP Results: The 'Dyspnea Profile Graph' Applied to Data from Hospitalized Patients/R.B.** Banzett, K. Baker, C. O'Donnell, M. Parshall, R. Lansing, R. Schwartzstein, J. Stevens, Boston, MA, p.A1030
- 9:30** **Development and Preliminary Testing of the Idiopathic Pulmonary Fibrosis Patient Reported Outcome Measure (IPF-PROm): UK and Ireland Multi-Centre Study/A.-M.** Russell, G. Jones, L. Saketkoo, A.-M. Doyle, T. Sanderson, C. D'Accord, H. Adamali, Z. Borrill, S. Fletcher, M. Wickremasinghe, R. Sabella, N. Cassidy, M. Weallans, M. Bray, E.A. Renzoni, A.U. Wells, M. Kokosi, S. Fleming, T. Maher, P. Cullinan, London, United Kingdom, p.A1031

9:45 **Domain Specific Cognitive Changes in Persons with Chronic Obstructive Pulmonary Disease (COPD): A Systematic Review and Meta-Analysis/J.A.** Slack, B. Giordani, J. Smith, L. Struble, J.L. Larson, Ann Arbor, MI, p.A1032

10:00 **Increased Physical Activity Associated with Decreased IL-6 and CRP in Patients with COPD/Z.** Chen, V.S. Fan, K. Pike, N. Yee, S. Borson, S. Adams, R. Kohen, G. Matute-Bello, H.Q. Nguyen, Seattle, WA, p.A1033

10:15 **The Relationships Between Inflammation and Fatigue Symptoms in Patients with COPD/J.** Lee, V.S. Fan, K. Pike, M.E. Jarrett, H.Q. Nguyen, Seattle, WA, p.A1034

10:30 **In Severely Obese COPD Patients, Obesity May Contribute to Exercise Intolerance More Than Lung Function/A.** Hernandez, S. Kolli, S. O'Connell Schnell, C. Jelinek, J. Butler, F. Laghi, E.G. Collins, Chicago, IL, p.A1035

10:45 **Lung Clearance Index (LCI) in Children from the Canadian Healthy Infant Longitudinal Development (CHILD) Birth Cohort with Preschool Asthma/A.** Dubeau, M. Emmerson, Z. Lu, B. Shen, K. Kowalik, P. Gustafsson, F. Ratjen, T.J. Moraes, M. Sears, P. Subbarao, Toronto, Canada, p.A1036

11:00 **Subjective and Objective Measurements of Sleep Post Therapy in Subjects with Endometrial, Breast and Melanoma Cancer/K.** Kairaitis, A.S. Madut, A. De Fazio, G. Mann, C. Clarke, E. Elder, J. French, N. Pathmanathan, G. Wain, A. Brand, M. Carlino, J. Howle, E. Wong, J. Wheatley, H. Dhillon, N. Marshall, T. Amis, Westmead, Australia, p.A1037

MINI SYMPOSIUM

A18 U GOT THE LOOK: DRUGS, TOXINS, GENES AND RISK ASSESSMENT IN PULMONARY HYPERTENSION

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS WASHINGTON

Liberty Ballroom M-P (Level M4)

Chairing: G.A. Heresi, MD, Cleveland, OH
W. Seeger, MD, Giessen, Germany

Oral Presentations

- 9:15** **Association of Stimulant Use with IPAH: A Case-Control Study/S.** Jain, S. Rajan, A. Holtz, S. Gupta, A. Sodimu, D. Fields, F. Torres, S. Bartolome, K. Chin, Dallas, TX, p.A1038
- 9:30** **Uncovering a Link Between Prescription Amphetamine-Based Stimulants and Pulmonary Hypertension - Data from a Northern California Multi-Specialty, Mixed Payer, Health Care System/E.M.** Stewart, C.M. Rajasingh, H. Hedlin, R.J. Romanelli, S.R. Wilson, V. De Jesus Perez, R.T. Zamanian, Stanford, CA, p.A1039
- 9:45** **Genetic Analysis of 2,156 WHO Group 1 PAH Patients Enrolled in the PAH Biobank/M.** Pauciulo, K. Lutz, C. Winslow, A. Walsworth, M. Barve, A. Reponen, L. Martin, H. He, W. Nichols, Cincinnati, OH, p.A1040



- 10:00 Genetic and Molecular Differences Between Combined and Isolated Post-Capillary Pulmonary Hypertension/D.F. Meoli, T.R. Assad, A.M. Glazer, E.K. Larkin, K. Monahan, J.D. West, E.H. Farber-Eger, Q.S. Wells, A.R. Hemnes, E.L. Brittain, Nashville, TN, p.A1041**
- 10:15 Risk Categories from European Guidelines Applied to the French Pulmonary Hypertension Registry/A. Boucly, X. Jais, V. Cottin, L. Savale, G. Prevo, C. O'Connell, F. Picard, J. Weatherald, P. De Groote, M. Jevnikar, E. Bergot, A. Chaouat, C. Chabanne, A. Bourdin, L. Rottat, D. Montani, G. Simonneau, M. Humbert, O. Sitbon, Le Kremlin-Bicetre, France, p.A1042**
- 10:30 Exercise Hemodynamics in the Screening for Pulmonary Vascular Disease in Patients with Portal Hypertension - Results from a Prospective Cross-Sectional Study/P. Douschan, G. Kovacs, R. Stauber, V. Foris, S. Pfeiffer, F. Gruber, V. Stadlbauer-Kollner, D. Kniepeiss, G. Zollner, P. Fickert, A. Avian, A. Olschewski, H. Olschewski, Graz, Austria, p.A1043**
- 10:45 Improved Right Ventricular Chamber Size and Contractility After Upfront Combination Therapy with Ambrisentan and Tadalafil in Scleroderma-Associated Pulmonary Arterial Hypertension/V. Mercurio, M. Mukherjee, R. Tedford, R.T. Zamanian, R. Khair, T. Sato, O. Minai, F. Torres, R.E. Girgis, K. Chin, R.L. Damico, T.M. Kolb, S. Mathai, P.M. Hassoun, Baltimore, MD, p.A1044**
- 11:00 Pulmonary Arterial Hypertension Treatment with Carvedilol for Heart Failure/S. Farha, D. Saygin, M. Park, C. Roach, S.A. Comhair, K. Highland, J. Hammel, D. Newmann, F. DiFilippo, W.W. Tang, S. Erzurum, Cleveland, OH, p.A1045**

MINI SYMPOSIUM

A19 THE EXTRACELLULAR MATRIX: A STICKY SITUATION

9:15 a.m. - 11:15 a.m. **MARRIOTT MARQUIS WASHINGTON**

Marquis Ballroom 6 (Level M2)

Chairing: J.K. Burgess, PhD, Groningen, Netherlands
B. Suki, PhD, Boston, MA

Oral Presentations

- 9:15 Extracellular Matrix Deposited by Asthmatic Human Airway Smooth Muscle Cells Enhances Basal Activation of TGF β /A.E. John, R. Krishnan, C.E. Brightling, D. Shaw, R.G. Jenkins, A.L. Tatler, Nottingham, United Kingdom, p.A1046**
- 9:30 Increase in Stiffness of the Airway Extracellular Matrix Beyond a Critical Threshold Is a Sufficient Condition for Healthy Human Airway Smooth Muscle to Become Hyperresponsive/H. Parameswaran, R. Krishnan, B. Suki, K. Lutchen, Boston, MA, p.A1047**
- 9:45 Matrix Stiffness Induces Remodeling Phenotypes in PSMCs Via YAP/TAZ-Mediated Repression of COX2 Expression and Activity/P. Dieffenbach, C. Mallarino, K.M. Choi, A. Coronata, D.J. Tschumperlin, L. Fredenburgh, Boston, MA, p.A1048**

- 10:00 In Primary Airway Epithelial Cells, a Mechanically-Induced Unjamming Transition Is Distinct from the Epithelial-Mesenchymal Transition/J. Mitchel, R. Hirsch, I. Stancil, M. O'Sullivan, J. Notbohm, J.P. Butler, J.-A. Park, Boston, MA, p.A1049**
- 10:15 Answering a 130 Year Old Question for Asthma and Airway Fibrosis Using Optical Microscopy and Infrared Spectroscopy/L. Mostaco-Guidolin, E.T. Osei, S. Booth, T.-L. Hackett, Vancouver, Canada, p.A1050**
- 10:30 Development of a Model to Study the Direct Effects of Matrix Stiffening on Airway Epithelial Cell Barrier Function in Asthma/N. Roy, E. Turner-Brannen, A. West, Winnipeg, Canada, p.A1051**
- 10:45 Enhanced Epithelial Regeneration on Human Neonatal Lung Derived Scaffolds Is Mediated by Tenascin-C/S.E. Gilpin, Q. Li, D. Evangelista-Leite, B.L. Frey, H.C. Ott, Boston, MA, p.A1052**
- 11:00 The Effect of Vitamin K Antagonists on Rates of Elastin Degradation: Potential Implications for Chronic Pulmonary Diseases/I. Piscoer, N.E.A. Drummen, J.M. Van Den Ouweland, M.T.H. Spanbroek, L. Bloem-de Vries, F.M.E. Franssen, E.F.M. Wouters, C. Vermeer, R. Janssen, Nijmegen, Netherlands, p.A1053**

RAPID: RAPID ABSTRACT POSTER DISCUSSION

A21 IMMUNE MECHANISMS OF SARCOIDOSIS AND OTHER GRANULOMATOUS DISEASES

9:15 a.m. - 11:15 a.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Room 206 (South Building, Level 2)

Abstract Summaries 9:15-9:45

Poster Viewing/Discussion 9:45-11:15

Chairing: N.Y. Hamzeh, MD, Denver, CO
W.P. Drake, MD, Nashville, TN
E.D. Crouser, MD, Columbus, OH

- 601 Increased CCR6+ Th17-Lineage Subset Polarization in Sarcoidosis Mediastinal Lymph Nodes/C.E. Broos, L.L. Koth, M. Van Nimwegen, J.C.C.M. In 't Veen, S.M.J. Paulissen, J.P. Van Hamburg, J.T. Annema, R. Heller-Baan, A. Kleinjan, H.C. Hoogsteden, R. Hendriks, B. Van Den Blink, M. Kool, Rotterdam, Netherlands, p.A1054**
- 602 Race Distinct Gene Expression Patterns in Peripheral Blood Mononuclear Cells and Bronchoalveolar Lavage Cells of Sarcoidosis Subjects/M. Vukmirovic, X. Yan, M. Gulati, W.P. Drake, K.F. Gibson, G. Deluliis, T. Woolard, T. Adams, B. Hu, N. Aurelien, S.M. O'Neal, M. Becich, H. Hochheiser, R.M. Senior, E.L. Herzog, E.S. Chen, A.M. Morris, J.K. Leader, Y. Zhang, J.G.N. Garcia, S.R. Wisniewski, P.V. Benos, L.A. Maier, D.R. Moller, L.L. Koth, N. Kaminski, New Haven, CT, p.A1055**



- 603 RNA Sequencing of Bronchoalveolar Lavage Cells in Subjects with Sarcoidosis Reveals Gene Expression Patterns Associated with Advanced Scadding Stage and Treatment Effects/M.** Vukmirovic, X. Yan, K.F. Gibson, M. Gulati, G. Deluliis, T. Woolard, T. Adams, B. Hu, N. Aurelien, S.M. O'Neal, M. Becich, H. Hochheiser, E.L. Herzog, R.M. Senior, E.S. Chen, A.M. Morris, J.K. Leader, Y. Zhang, J.G.N. Garcia, S.R. Wisniewski, P.V. Benos, L.A. Maier, D.R. Moller, W.P. Drake, L.L. Koth, N. Kaminski, New Haven, CT, p.A1056
- 604 The Roles of Monocyte Subsets in Pulmonary Sarcoidosis: Phenotypic and Transcriptomic Analysis/S.N. Machiraju, B.S. Benn, N.R. Bhakta, Z.E. Lehman, N. Arger, L.L. Koth, San Francisco, CA, p.A1057**
- 605 RNA Sequencing of Peripheral Blood Mononuclear Cells Reveals Gene Expression Changes Associated with Disease Progression and Response to Therapy in Sarcoidosis/X. Yan, M. Vukmirovic, M. Gulati, E.L. Herzog, K.F. Gibson, G. Deluliis, T. Woolard, T. Adams, B. Hu, N. Aurelien, S.M. O'Neal, M. Becich, H. Hochheiser, R.M. Senior, E.S. Chen, A.M. Morris, J.K. Leader, Y. Zhang, J.G.N. Garcia, S.R. Wisniewski, P.V. Benos, L.A. Maier, D.R. Moller, W.P. Drake, N. Kaminski, L.L. Koth, New Haven, CT, P.A1058**
- 606 A Comparison of Bronchoalveolar Lavage Cells (BAL) and Peripheral Blood Mononuclear Cells (PBMC) Genome Wide Expression Patterns in Sarcoidosis/X. Yan, M. Vukmirovic, M. Gulati, K.F. Gibson, G. Deluliis, T. Woolard, T. Adams, B. Hu, N. Aurelien, S. O'Neal, M. Becich, H. Hochheiser, R.M. Senior, E.S. Chen, A.M. Morris, J.K. Leader, Y. Zhang, J.G.N. Garcia, S.R. Wisniewski, E.L. Herzog, W.P. Drake, P.V. Benos, L.A. Maier, D.R. Moller, L.L. Koth, N. Kaminski, New Haven, CT, p.A1059**
- 607 Alternatively Activated (M2) Macrophage Polarization and the Sarcoidosis Immune Paradox/L.W. Locke, M.W. Julian, P. White, A. Papp, W. Sadee, L.S. Schlesinger, E.D. Crouser, Columbus, OH, p.A1060**
- 608 Inflammatory and Clinical Properties of CXCR3 Ligands in Sarcoidosis/N. Arger, M. Ho, R. Su, J. Ramstein, P.G. Woodruff, S. Sun, C. Nguyen, L. Koth, San Francisco, CA, p.A1061**
- 609 T Cell Immunophenotype and Clinical Associations in Sarcoidosis/L. Li, N.Y. Hamzeh, B. Barkes, K. MacPhail, L.A. Maier, Denver, CO, p.A1062**
- 610 MicroRNA Profiling of Sarcoidosis with Pulmonary Fibrosis in African Americans (A Proof of Concept Study)/B.T. Choudhry, S. Roghaee, L. Wang, A. Griswold, G. Holt, M. Campos, M. Mirsaedi, Miami, FL, p.A1063**
- 611 Gene Variants in HLA-DRA, C6orf10 and ATF6B Are Associated with Pulmonary Sarcoidosis in a Czech Population/M. Petrek, A. Kishore, M. Doubkova, K. Sikorova, M. Cvcancigerova, V. Kolek, Olomouc, Czech Republic, p.A1064**
- 612 IFN- γ -Producing Th17 Cells Exhibit Increased Programmed Death-1 Receptor Expression and Altered Effector Functions/L. Celada, W.P. Drake, Nashville, TN, p.A1065**
- 613 CD4⁺ Effector T Cells in Sarcoidosis Are Resistant to Regulatory T Cell Suppression in the Presence of Diverse Toll-Like Receptor Agonists/C. Mikacenic, V. Dmyterko, C. Hundhausen, E. Tomas, B. Collins, L. Ho, G. Raghu, J.H. Buckner, M.M. Wurfel, Seattle, WA, p.A1066**
- 614 The Role of Mycobacteria in the Pathogenesis of Sarcoidosis/O.S. Chioma, W.P. Drake, Nashville, TN, p.A1067**
- 615 Integrative Transcriptomics of Alveolar Immune Cells Identifies Matrix-Related Proteins as Potential Targets in Sarcoidosis/A. Mohan, S.A. Gharib, A. Malur, M. McPeck, B. Barna, L.M. Schnapp, M.J. Thomassen, Greenville, NC, p.A1068**
- 616 Microbiota in Alpha-1 Antitrypsin Deficiency and Sarcoidosis/K. Li, B.A. Methe, A.M. Morris, E. Ghedin, H. Hochheiser, R.G. Collman, Y. Yang, B. Frank, A. Fitch, L.A. Maier, K. Li, B.A. Methe, A.M. Morris, E. Ghedin, H. Hochheiser, R.G. Collman, L. Koth, P.G. Woodruff, M. Rossman, K.F. Gibson, W.P. Drake, E. Herzog, D.R. Moller, S. Wisniewski, R. Senior, J.G.N. Garcia, E.S. Chen, C.B. Strange, R. Sandhaus, M. Becich, N. Kaminski, Pittsburgh, PA, p.A1069**
- 617 Inflammatory Biomarkers in Patients with Sarcoidosis Associated Pulmonary Hypertension: The Registry of Sarcoidosis Associated Pulmonary Hypertension (ReSAPH)/P. Heukels, J. Van Hulst, M. Van Nimwegen, K. Bezemer, M. Wijsenbeek, R.P. Baughman, M. Kool, Rotterdam, Netherlands, p.A1070**
- 618 The Circulating Bacterial Microbiome in Pulmonary Sarcoidosis Relates to Racial Disparities/C. Ascoli, Y. Huang, A. Metwally, R. Ranjan, D.L. Perkins, N. Sweiss, P.W. Finn, Chicago, IL, p.A1071**
- 619 The Association of Matrix Metalloproteinase-9 Expression with Active Pulmonary and Cutaneous Sarcoidosis/G. Sathiyamoorthy, M.A. Rosenbach, A. Shauf, I. Mikaelian, S. Kim, T.G. O'Riordan, D.L. Gossage, V. Smith, M. Li, R.P. Baughman, C. Farver, D.A. Culver, Cleveland, OH, p.A1072**
- 620 Nasal Epithelial Gene Expression Profiling in Sarcoidosis/Z. Lipkin-Moore, A. Gower, A. O'Regan, D. Serlin, A. Spira, J. Berman, K. Steiling, Boston, MA, p.A1073**

POSTER DISCUSSION SESSION

A22 HEALTH SERVICES HIGHLIGHTS IN CRITICAL CARE

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 209 A-C (South Building, Level 2)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: H.C. Prescott, MD, MSc, Ann Arbor, MI
V. Liu, MD, MS, Oakland, CA
A.E. Turnbull, DVM, MPH, PhD, Baltimore, MD

701 Noise Control in Acute Care Units: A Systematic Review and Meta-Analysis of Randomized Controlled Trials/R.M. AlQahtani, A. Newman, J. Moragno, A.E. Fox-Robichaud, Riyadh, Saudi Arabia, p.A1074

702 Evaluation of Best Practice Using Audio Recordings of Rounds/J. Fair, K.A. Artis, J.A. Gold, M.J. Merkel, Portland, OR, p.A1075



- 703 What I'm Not Telling You - A Comprehensive Description of Data Omitted During Daily ICU Rounds/K.A. Artis, J. Bordley, K. McGrath, V. Mohan, J.A. Gold, Portland, OR, p.A1076**
- 704 Perceptions of Data Quality and Accuracy During ICU Round/J.A. Gold, K. McGrath, V. Mohan, Portland, OR, p.A1077**
- 705 Variation in the Content and Format of Rounding Checklists in the Intensive Care Unit/D. Saha, B. Hallam, C. Kuza, K. Rak, M.M. Heuston, J. Kahn, Pittsburgh, PA, p.A1078**
- 706 CERTAIN Rounding Model with Software Prompting Improves Patient Rounds and Process of Care in ICU/M. Hache-Marliere, R. Kashyap, Y. Dong, S. Gavrilovic, M. Vukoja, O. Gajic, J.R. Yunen, Santo Domingo, Dominican Republic, p.A1079**
- 707 Failures in the Respectful Care of Critically Ill Patients: Prevalence and Risk Factors/J. Stevens, A. Law, S. Roche, A. Reichheld, P. Folcarelli, M. Cocchi, M. Howell, K. Sands, Boston, MA, p.A1080**
- 708 Impact of Awakening and Breathing Coordination, Delirium Monitoring/Management and Early Mobilization (ABCDE) Bundle Implementation in the ICU on Specific Patient Costs/O. Otusanya, J. Hsieh, D.G. Fein, R.I. Asad, M.N. Gong, H.B. Gershengorn, Bronx, NY, p.A1081**
- 709 Post-ICU PTSD Symptoms in Family Members of ARDS Survivors Are Associated with Family-Specific, Not Patient-Specific, Characteristics/R.Y. Lee, R.A. Engelberg, J.R. Curtis, C.T.L. Hough, E.K. Kross, Seattle, WA, p.A1082**
- 710 Intensive Care Unit Survivors with an Alcohol Use Disorder Are Less Likely to Follow-Up with Outpatient Providers Following Hospital Discharge/B. Borg, I.S. Douglas, M. Hull, A. Keniston, B.J. Clark, M. Moss, Aurora, CO, p.A1083**
- 711 Inclusion of Unstructured Text Data from Clinical Notes Improves Early Prediction of Death or Prolonged ICU Stay Among Hospitalized Patients/G.E. Weissman, R.A. Hubbard, L.H. Ungar, C.S. Greene, B.E. Himes, S.D. Halpern, Philadelphia, PA, p.A1084**
- 712 Epidemiology of Adolescent Sepsis-Like Syndromes Presenting to Adult Hospital Emergency Departments/I.V.R. Evans, R.S. Watson, J. Carcillo, D.C. Angus, C.W. Seymour, Pittsburgh, PA, p.A1085**
- 713 Potential Opportunities for Earlier Treatment Are Common in the 7 Days Immediately Preceding Hospitalization for Sepsis/V. Liu, J.M. Baker, G.J. Escobar, R. Chaudhary, H.C. Prescott, Oakland, CA, p.A1086**
- 714 Differences in Mortality Event Rates After Sepsis: Comparison of 90-Day In-Hospital Mortality, ARDSnet Mortality, and All-Location Mortality, with Implications for RCT Design/S. Govindan, H.C. Prescott, T.J. Iwashyna, Ann Arbor, MI, p.A1087**
- 715 Hospital ICU Admission Patterns for Pneumonia Are Stable from Year to Year/T.S. Valley, H.C. Prescott, H. Wunsch, T.J. Iwashyna, C.R. Cooke, Ann Arbor, MI, p.A1088**
- 716 Identifying Nursing Home Patients at Risk of Functional Decline or Death Complicating Hospitalization for Pneumonia/M.F. Griffith, J.R. Curtis, R.A. Engelberg, L.M. Donovan, D.O. Meltzer, V. Mor, D.H. Au, J. Teno, Seattle, WA, p.A1089**

- 717 The Median Is Not the Message in the Recovery for Pneumonia/E.M. Viglianti, H.C. Prescott, V. Liu, G.J. Escobar, T.J. Iwashyna, Ann Arbor, MI, p.A1090**
- 718 Evidence-Based Utilization of Non-Invasive Ventilation and Patient Outcomes/A.B. Mehta, I.S. Douglas, A.J. Walkey, Denver, CO, p.A1091**
- 719 Elements of Effective Noninvasive Ventilation Use in Patients with Chronic Obstructive Pulmonary Disease Among High-Performing Hospitals/K.A. Fisher, K.M. Mazon, S. Goff, M. Stefan, N.S. Hill, M.B. Rothberg, P.S. Pekow, V. Rastegar, L. Williams, P.K. Lindenauer, Worcester, MA, p.A1092**
- 720 Use of Echocardiogram in the Management of Hemodynamically Stable Acute Pulmonary Embolism: National Practice Patterns and Clinical Outcomes/D.M. Cohen, M. Winter, A.J. Walkey, Boston, MA, p.A1093**
- 721 Palliative Care Planner (PCplanner): A Pilot Study to Evaluate an Electronic Health Records System-Integrated Care Delivery Assistant Application/C.E. Cox, D.M. Jones, W. Reagan, M. Key, J. McFarlin, V. Barton, L. Johnson, C. Austin, G. Maruzella, A. Slonac, C. Miller, L. Newton, B. Slagle, V. Chow, V. Leff, G. Dodson, P. McKenzie, A. Galanos, N. Knudsen, S.L. Docherty, Durham, NC, p.A7559**

POSTER DISCUSSION SESSION

A23 EMERGING STRATEGIES TO TRAIN MEDICAL PROFESSIONALS

9:15 a.m. - 11:15 a.m. **MARRIOTT MARQUIS WASHINGTON**

Marquis Ballroom 9-10 (Level M2)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: W.G. Carlos, MD, MSCR, Indianapolis, IN
A.K. Brady, MD, Seattle, WA
M.M. Hayes, MD, Boston, MA

- 1001 FIRST: Female Inequality Represented in Subspecialty Training-The Gender Divide in Pulmonary Critical Care Medicine/K. Bakhsh, O. Abramian, N. Mills, M.J. Stephen, Philadelphia, PA, p.A1094**
- 1002 Impact of Training in Basic Critical Care Echocardiography on Critical Care Physician Utilization of Formal Echocardiography/J. O'Toole, R. Clouser, J.D. Farkas, A. Lee, L. Leclair, Burlington, VT, p.A1095**
- 1003 Using High Fidelity Simulation-Based Education to Improve Practitioner Competence and Comfort in Ventilator Management/M. Champion, J.A. Gold, S. Nonas, Portland, OR, p.A1096**
- 1004 Who's There? Characterizing the Multidisciplinary Educational Presence in the Intensive Care Unit Overnight/C.R. Petri, A.M. Sullivan, K. Russell, A.P. Cohen, J.W. Weiss, M.M. Hayes, Boston, MA, p.A1097**



- 1005 Overnight Teaching and Learning Practices in the Medical Intensive Care Unit/C.R. Petri, A.M. Sullivan, A.P. Cohen, R.M. Schwartzstein, M.M. Hayes, Boston, MA, p.A1098**
- 1006 Quality Improvement in Ultrasound Education/A. Keenan, P. Bachan, Minneapolis, MN, p.A1099**
- 1007 ICU Innovations: Case Study of Quality Improvement Education Implementation at Two Sites with Contrasting Results/E. Warr, K. Sterba, A.J. Goodwin, E. Johnson, D.W. Ford, Charleston, SC, p.A1100**
- 1008 An Innovative, Longitudinal, Simulation-Based Medical Education Curriculum for Pulmonary and Critical Care Fellows/E.M. Mohanraj, S. Kurtz, J.P. Mathew, A. Sotelo, K. Rose, H. Khoul, New York, NY, p.A1101**
- 1009 Longitudinal Assessment of Fellow Attitudes, Knowledge and Competency in Critical Care Ultrasound Across Four Institutions/L. Miyakawa, A. Love, P. Patrawalla, New York, NY, p.A1102**
- 1010 Promoting Humanism in Pulmonary and Critical Care Medicine: For Fellows, by Fellows/N. Kotecha, E.M. Mohanraj, J. Shapiro, New York, NY, p.A1103**
- 1011 Urgent and Emergent Medical Conditions: Entrustment Decisions at the End of Medical School/A.S. Clay, N. Knudsen, B. Li, T. Scialla, K. Rehder, R. Blessing, H.-J. Li, Durham, NC, p.A1104**
- 1012 Fellows Report Increased Knowledge, Ability, and Comfort with an Active Teaching Conference Format/J. Chiarchiaro, B. Rivera-Lebron, B.J. McVerry, Pittsburgh, PA, p.A1105**
- 1013 Implementation of a Multidisciplinary Mechanical Ventilation Training Curriculum for Physicians and Nurses in Phnom Penh, Cambodia/A.G. Lim, R.N. Collord, L.B. Golden, D.L. Johnson, L. O'Connell, T. Sokhak, C. Nareth, K. No, T. Fassier, T.E. West, T. Albert, Seattle, WA, p.A1106**
- 1014 Impact of a Brief, Blended Curriculum on Point-of-Care Echocardiography for Internal Medicine Residents/M.H. Adelman, P. Patrawalla, M.H. Lee, M.P. Barnett, M.H. Vorsanger, M. Barghash, U. Blackstock, B. Kaufman, H. Sauthoff, A.H. Skolnick, New York, NY, p.A1107**
- 1015 Implementation of an Integrated Research and Clinical Conference at an Academic Pulmonary and Critical Care Medicine Program/J.M. Walter, J. Kruser, P.A. Reyfman, P.H. Sporn, Chicago, IL, p.A1108**
- 1016 Piloting a Targeted, Spaced, Mastery-Learning Global Health Point-of-Care Ultrasound Curriculum for Internal Medicine Residents/S. Maximous, P. Lamberty, C. Spagnoletti, Pittsburgh, PA, p.A1109**
- 1017 A Novel Blended Learning Course on Ultrasound for Rapid Assessment of Acute Respiratory Failure/D. Pradhan, V. Mukherjee, B. Zakhary, H. Sauthoff, New York, NY, p.A1110**
- 1018 Competency Based Testing Using Video Recording of Pulmonary Critical Care Fellows in Performance of Thoracentesis/L.D. Quintero, S. Dhar, H. Mayo-Malasky, P.H. Mayo, E. Singas, New Hyde Park, NY, p.A1111**

- 1019 Opportunities for Training Pulmonary and Critical Care Fellows in Patient Safety: Relevant Curricular Elements of the CRQS Program/C.M. Worsham, W. Brown, L. Swamy, P. Formanek, M.E. Conroy, H. Shanawani, West Roxbury, MA, p.A1112**
- 1020 Resident QI and PS Projects in VA ICUs Across the Nation: A 3 Year Review of Projects Under the VA-CRQS Program/M.E. Conroy, W. Brown, P. Formanek, C.M. Worsham, L. Swamy, H. Shanawani, Washington, DC, p.A1113**
- 1021 Opportunities for Training Pulmonary and Critical Care Fellows in Quality and Safety: The VA Chief Residents in Quality and Safety (CRQS)/L. Swamy, C.M. Worsham, P. Formanek, M.E. Conroy, W. Brown, H. Shanawani, West Roxbury, MA, p.A1114**
- 1022 Longitudinal Career Development Curriculum for Pulmonary-Critical Care Fellows/J.M. Diamond, M.G.S. Shashaty, M.P. Kerlin, N.S. Mangalmurti, M.F. Beers, M. Kreider, Philadelphia, PA, p.A1115**

POSTER DISCUSSION SESSION

A24 IPF: CLINICAL STUDIES, THERAPEUTICS, AND MORE I

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 150 B (Middle Building, Street Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: L. Richeldi, MD, PhD, Rome, Italy
D.E. Antin-Ozerkis, MD, New Haven, CT
M. Wijsenbeek, MD, PhD, Rotterdam, Netherlands

- 201 Variation in Advance Care Planning Activities Within a Cohort of Patients with Idiopathic Pulmonary Fibrosis/A.E.F. Dimmock, M. Green, S.K. Danoff, K.F. Gibson, C.H. Chuang, F. Cordova, W. Hwang, J. Carns, J. Uhrig, R. Bascom, K.O. Lindell, Hershey, PA, p.A1116**
- 202 Prevalence of Frailty and Geriatric Conditions in Older Patients with Idiopathic Pulmonary Fibrosis/J.S. Sheth, M. Xia, S. Murray, C. Martinez, C. Meldrum, E. Belloli, M. Salisbury, E.S. White, C.H. Holtze, K.R. Flaherty, Ann Arbor, MI, p.A1117**
- 203 The Significance of Adding Rheumatological Assessment to the Multidisciplinary Team in the Diagnosis of Interstitial Lung Disease (ILD)/L. Israeli-Shani, G. Epstein Shochet, Y. Levi, M. Kutchuk, M. Koslow, D. Shitrit, Kfar Saba, Israel, p.A1118**
- 204 Transbronchial Cryobiopsy for the Diagnosis of Interstitial Lung Diseases: Diagnostic Yield, Outcomes and Risk Factors for Complications/A. Brueder, R. Raj, D.W. Kamp, J. Dematte, C. Gillespie, A.C. Argento, K. Raparia, A. Yeldandi, A. Frogameni, Chicago, IL, p.A1119**
- 205 Interstitial Lung Abnormalities and Histopathologic Correlates in Patients Undergoing Lung Nodule Resection/E.R. Miller, R.K. Putman, M. Vivero, Y. Hung, T. Araki, M. Nishino, H. Hatabu, L. Sholl, G.M. Hunninghake, Boston, MA, p.A1120**



- 206** **Six-Minute-Walk Test (6MWT) and Pulmonary Function in Interstitial Lung Disease (ILD) Patients/Z. Hu, C. Que, Beijing, China, p.A1121**
- 207** **Prospective Single Arm Open Labeled Multicenter Trial for Safety and Efficacy of Recombinant Human Thrombomodulin for Acute Exacerbation in Idiopathic Interstitial Pneumonias (SETUP Trial)/T. Arai, H. Kida, Y. Ogata, S. Marumo, H. Matsuoka, I. Gohma, M. Mori, S. Yamamoto, C. Sugimoto, K. Tachibana, T. Hamasaki, M. Akira, Y. Inoue, Sakai, Japan, p.A1122**
- 208** **Differences in Patient and Physician Viewpoints of the Management of Idiopathic Pulmonary Fibrosis (IPF)/T.M. Maher, J.J. Swigris, M. Kreuter, M. Wijsenbeek, J. Axmann, L. Ireland, S.D. Nathan, London, United Kingdom, p.A1123**
- 209** **Physicians' Perspectives on the Use of Domiciliary Oxygen Therapy in Interstitial Lung Disease/Y.H. Khor, N.S. Goh, A.E. Holland, C.F. McDonald, Heidelberg, Australia, p.A1124**
- 210** **Phase 1 Study of Safety of Morphine for Dyspnea in Patients with Interstitial Lung Diseases: JORTC-PAL05 Study/Y. Matsuda, T. Morita, T. Miyaji, Y. Taniguchi, Y. Naoki, T. Maekura, K. Nakao, S. Tokura, A. Tokoro, T. Yamaguchi, S. Iwase, Y. Inoue, Sakai, Japan, p.A1125**
- 211** **Air Pollution Exposure, Lung Function and Dyspnea in Patients with Idiopathic Pulmonary Fibrosis/K.A. Johansson, E. Vittinghoff, J. Morisset, P.J. Wolters, E.M. Noth, J.R. Balmes, H.R. Collard, Calgary, Canada, p.A1126**
- 212** **Demographics and Healthcare Utilization of Patients with Idiopathic Pulmonary Fibrosis (IPF) in a Real-World Setting: Updated Findings from 277 Patients in the PROOF Registry/W.A. Wuyts, C. Dahlqvist, H. Slabbynk, M. Schlessner, N. Gusbin, C. Compere, G.F. Joos, S. Maddens, E. Kolkman, K.-U. Kirchgaessler, K. Bartley, B. Bondue, Leuven, Belgium, p.A1127**
- 213** **Quality of Life (QoL) Trajectory in Patients with Idiopathic Pulmonary Fibrosis (IPF): Longitudinal QoL Assessment of the INSIGHTS-IPF Registry/M. Kreuter, J.J. Swigris, D. Pittrow, A. Prasse, J. Klotsche, S. Geier, H. Wirtz, D. Koschel, S. Andreas, C. Grohe, M. Claussen, J. Behr, Heidelberg, Germany, p.A1128**
- 214** **Lung Mechanics and the Gastroesophageal Junction in Patients with Pulmonary Fibrosis and Gastroesophageal Reflux/N. Gaeckle, J. Suri, D. Midani, P. Orthey, H. Parkman, R. Schey, M.S. Smith, G.J. Criner, Philadelphia, PA, p.A1129**
- 215** **Accuracy of a Clinical Diagnosis of Idiopathic Pulmonary Fibrosis: A Study of 275 Pulmonologists from 54 Countries/S.L.F. Walsh, D. Hansell, K.R. Flaherty, M. Wilsher, R. Nusser, V. Poletti, F.J. Martinez, E. Bendstrup, K.K. Brown, H. Taniguchi, B. Crestani, C. Vancheri, V. Cottin, L. Richeldi, T.M. Maher, D. Valeyre, H. Nunes, M. Kokosi, G. Margaritopoulos, E.P. Judge, M. Wijsenbeek, J.C. Grutters, B.J. Ley, M. Selman, A. Morais, W.A. Wuyts, P. Spagnolo, I. Glaspole, T.J. Corte, S. Tomassetti, Y. Kondoh, M. Kreuter, J. Behr, V. Kouranos, M. Molina-Molina, K.A. Johansson, C.J. Ryerson, M. Jones, A.U. Wells, London, United Kingdom, p.A1130**
- 216** **Review of the Management of Interstitial Lung Disease Associated Cough and Proposed Treatment Algorithm/H. Garthwaite, V. Holmes, J. Porter, London, United Kingdom, p.A1131**
- 217** **Baseline Characteristics of the Initial 200 Participants in the Pulmonary Fibrosis Foundation Registry/K.R. Flaherty, J.A. de Andrade, W. Chou, L. Lancaster, K.O. Lindell, S. Nathan, G. Raghu, C. Spino, J.L. Stauffer, P. Tuomey, P.J. Wolters, G.P. Cosgrove, Ann Arbor, MI, p.A1132**
- 218** **Patient Characteristics, Clinical Outcomes and Healthcare Resource Utilization Among IPF Patients Stratified by Lung Function at Diagnosis/S. Nathan, D. Macaulay, V. Garcia Horton, E. Terasawa, Y. Yu, Falls Church, VA, p.A1133**
- 219** **Characteristics of Interstitial Lung Disease in the Mid-Atlantic Veterans Affairs Regional Network/A.D. Bedoya, R. Pleasants, J. Boggan, D. Seaman, L. Howard, A. Reihman, K. Wely-Wolf, R.M. Tighe, Durham, NC, p.A1134**
- 220** **Screening Autoimmune Serologies in the Assessment of Interstitial Lung Disease/M. Alsumrain, F. De Giacomi, S. Mirza, T. Moua, Rochester, MN, p.A1135**
- 221** **Translation and Initial Validation of the King's Brief Interstitial Lung Disease Questionnaire for Idiopathic Pulmonary Fibrosis/T. Skovhus Prior, S. Biring, O. Hilberg, E. Bendstrup, Aarhus C, Denmark, p.A1136**
- 222** **Performance of the Saint George's Respiratory Questionnaire (SGRQ) in Patients with Connective Tissue Disease-Associated Interstitial Lung Disease (CTD-ILD)/A. Suzuki, H. Taniguchi, Y. Kondoh, J.J. Swigris, Y. Yamano, T. Furukawa, M. Numata-Nakamura, K. Sakamoto, M. Ando, Y. Hasegawa, Seto, Aichi, Japan, p.A1137**
- 223** **Impact of Depression on Patients with Idiopathic Pulmonary Fibrosis/A. Tzouveleakis, S. Kourtidou, V. Tzilas, T. Karamitsakos, X. Antonou, V. Aidinis, N. Koulouris, D. Bouros, Athens, Greece, p.A1138**
- 224** **The Impact of Supplemental Oxygen (O2) in Pulmonary Fibrosis (PF): A Qualitative Study of Informal Caregivers (ICs)/B. Graney, F.S. Wamboldt, S. Baird, T. Churney, K. Fier, M. Korn, M. McCormick, T. Vierzba, J.J. Swigris, Denver, CO, p.A1139**
- 225** **TD139, A Novel Inhaled Galectin-3 Inhibitor for the Treatment of Idiopathic Pulmonary Fibrosis (IPF). Results from the First in (IPF) Patients Study/N. Hirani, A. Mackinnon, L. Nicol, J. Walker, P. Ford, H. Schambye, A. Pederson, U. Nilsson, H. Leffler, T. Thomas, D. Francombe, J. Simpson, M. Gibbons, T.M. Maher, Edinburgh, United Kingdom, p.A7560**

RAPID: RAPID ABSTRACT POSTER DISCUSSION

A25 CRITICAL CARE: HOW TO GET IT DONE IN THE ICU - TOOLS AND TRICKS OF IMPLEMENTATION IN CRITICAL CARE

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 151 A (Middle Building, Street Level)

Abstract Summaries 9:15-9:45

Poster Viewing/Discussion 9:45-11:15



- Chairing:** M.N. Gong, MD, MS, Bronx, NY
D.K. Costa, PhD, RN, Ann Arbor, MI
A. Amaral, MD, Toronto, Canada
- 301 Protocols Do Not Guarantee Delivery of Lung Protective Ventilation in Acute Respiratory Distress Syndrome: An Observational Cohort Study/O.** Mooney, C. Hrymak, K. Dalebozik, E. McIntyre, K. Olafson, Winnipeg, Canada, p.A1140
- 302 Utilization of EHR Based Order-Set to Improve Adherence to Lung Protective Ventilation/E.** Jonas, J.A. Gold, S. Nonas, Portland, OR, p.A1141
- 303 Using a Low Tidal Volume Tape to Promote Lung Protective Ventilation in the ICU/G.M.** Harp, K.L. Davis, M.L. Miller, D.J. Prendergast, San Diego, CA, p.A1142
- 304 Development and Validation of a Multi-Algorithm Analytic Platform (ventMAP) for the Automated Detection of Off-Target Mechanical Ventilation/J.Y.** Adams, M.K. Lieng, B.T. Kuhn, G.B. Rehm, E.C. Guo, S.L. Taylor, J.-P. Delplanque, N.R. Anderson, Sacramento, CA, p.A1143
- 305 Pressure-Targeted Modes of Invasive Mechanical Ventilation Are Associated with Higher Above-Target Tidal Volumes/Y.A.** Khan, J.L. Mooney, A.C. McKown, M.W. Semler, T.W. Rice, B.P. DeBoisblanc, D.R. Janz, New Orleans, LA, p.A1144
- 306 Mandatory Documentation of Tidal Volume Adjusted for Predicted Body Weight on the Respiratory Flow Sheet Improves Compliance with Low Tidal Volume Ventilation Strategy: A 5-Year Tertiary Care Center Experience/M.E.** Dauterive, F. Houshmand, M. Mazer, A. Mohan, Greenville, NC, p.A1145
- 307 Accuracy and Opportunity of an Automated Ventilator and Sedation Weaning Alert Program/B.** Fuchs, C. Chivers, V. Panchanadam, M. Draugelis, D. Do., A.M. Hufferberger, M. Stepanik, S. Gudowski, A. Hanish, M. Cereda, M. Frazer, M. Pierce, C. Maguire, M. Olson, A. Gabrielli, W.C. Hanson, P. Sullivan, P.J. Brennan, Philadelphia, PA, p.A1146
- 308 Unintended Consequences of Passive Alerts in the Electronic Health Records of Critically Ill Patients/B.J.** Arthurs, K. McGrath, G. Scholl, V. Mohan, J.A. Gold, Portland, OR, p.A1147
- 309 Is Bundle Compliance Lower for Black Patients Compared to White Patients with Severe Sepsis/S.** Taylor, C. Karvetski, D. Jones, B. Taylor, Charlotte, NC, p.A1148
- 310 Provider Perceptions of Rounding Checklists in the Intensive Care Unit/B.** Hallam, C.C. Kuza, K. Rak, J.C. Fleck, M.M. Heuston, D. Saha, J. Kahn, Pittsburgh, PA, p.A1149
- 311 A Multicenter, Randomized Trial of a Pre-Procedure Checklist for Endotracheal Intubation of Critically Ill Adults/D.R.** Janz, M.W. Semler, A. Joffe, J.D. Casey, R.J. Lentz, B.P. DeBoisblanc, Y.A. Khan, J.I. Santanilla, T.W. Rice, New Orleans, LA, p.A1150
- 312 Implementation of a Modified Montpellier Protocol for Intubating Critically Ill Patients in the Intensive Care Unit/C.** Dado, J. Aliotta, T. Amass, A. Agarwal, J. Romanoff, M. Levy, K. Corl, Providence, RI, p.A1151
- 313 Neuroscience Intermediate-Level Care Units Staffed by Intensivists: Clinical Outcomes and Cost Analysis/K.** Kyeremanteng, D. Kubelik, A. Hendin, E. Rosenberg, Ottawa, Canada, p.A1152
- 314 Reduced Hospital Length of Stay in Medical Intensive Care Unit Respiratory Failure Patients Using an Embedded Psychiatry Model: A Prospective Cohort Analysis/M.** Bui, D. Wilensky, R. Thom, D. Talmasov, S. Hurwitz, M. O'Reilly, D. Gitlin, A.F. Massaro, Boston, MA, p.A1153
- 315 Effect of an Emergency Department Intensive Care Unit on Medical Intensive Care Unit Admissions/J.** Du, K.J. Gunnerson, R.C. Hyzy, Ann Arbor, MI, p.A1154
- 316 Increasing ED Workload Is Associated with Delayed Antibiotic Initiation for Sepsis/I.D.** Peltan, J.R. Bledsoe, T.A. Oniki, A.R. Jephson, T.L. Allen, S.M. Brown, Salt Lake City, UT, p.A1155
- 317 Impact of Triage to an Intermediate Care Unit on Patient Outcomes Following Rapid Response Team Activation/B.** Wendlandt, J. Maguire, T. Bice, S.S. Carson, L. Chang, Chapel Hill, NC, p.A1156
- 318 Transmission of Fluorescent Aerosolized Particles in a Clinical Biocontainment Unit/B.T.** Garibaldi, K. Rainwater-Lovett, T. Pilholski, F.C. Sage, K. Shaw-Saliba, L. Sauer, G. Bova, J. Hamel, D. Drewry, Baltimore, MD, p.A1157
- 319 Catheter Types at Higher Risk for Central Line Associated Bloodstream Infections in the ICU/K.** Ho, C. Chenoweth, Ann Arbor, MI, p.A1158
- 320 Comparative Resource Utilization and Workload in Patients with Pandemic H1N1 Pneumonia, Non-H1N1 Viral Pneumonia and Non-Viral Acute Respiratory Distress Syndrome (ARDS)/G.** Vazquez-Grande, S. Kethireddy, A. Kumar, Winnipeg, Canada, p.A1159
- 321 Clinician Perspectives on a Standardized Handoff Process: Qualitative Findings from the Handoffs and Transitions in Critical Care (HATRICC) Study/A.R.** Perfetti, L. Di Taranti, S. Buddai, M. Choudhary, S. Massa, H. Peifer, D. Thonduparambil, C. Wang, M.B. Lane-Fall, Philadelphia, PA, p.A1160
- 322 A Multi-Centre Prospective Cohort Study of Patient Transfers from the Intensive Care Unit to the Hospital Ward/H.T.** Stelfox, J. Parsons Leigh, P.M. Dodek, A.F. Turgeon, A.J. Forster, F. Lamontagne, R.A. Fowler, A. Soo, S.M. Bagshaw, Calgary, Canada, p.A1161
- 323 The Challenge of ICU to Floor Transitions: A Standardized Transfer Note Improves Documentation and Resident Satisfaction/B.** Kim, G. Barnaimon, E. Yudelevich, G. Bambrick-Santoyo, A. Basu, J. Shapiro, New York, NY, p.A1162
- 324 Pilot Implementation of a Novel ICU Admission, Discharge, Triage Tool at an Academic Medical Center/S.I.** Kumar, S. Kim, K. Winnie, J.P. Cobb, J. Brown, Los Angeles, CA, p.A1163
- 325 A Comparative Analysis of Pulmonary and Critical Care Guideline Development Methodologies/N.** Schoenberg, A.F. Barker, J. Bernardo, R. Deterding, J.J. Ellner, D. Hess, N. MacIntyre, F. Martinez, K.C. Wilson, Boston, MA, p.A1164



POSTER DISCUSSION SESSION

A26 DIAGNOSIS AND TREATMENT OF TUBERCULOSIS

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 144 A-C (Middle Building, Street Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: A. Cattamanchi, MD, San Francisco, CA
F. Blanc, MD, PhD, Nantes, France
D. Horne, MD, Seattle, WA

- 101 Clinical Officer-Read Chest Radiography Has High Sensitivity for Active Tuberculosis Among Symptomatic People Living with HIV Undergoing Intensified Case Finding/S. Mach, F. Semitala, T. Vu, E. Atuhumuza, L. Asege, S. Mwebe, J. Katende, M. Nakaye, A. Andama, M. Kanya, A. Cattamanchi, C. Yoon, San Francisco, CA, p.A1165**
- 102 Sputum Quality and Bacteriological Positivity Comparison Between Intervention of Individually-Guided Active Cycle Breathing Technique (ACBT) and Video-Guided ACBT in Tuberculosis Case Detection: A Randomized Controlled Trial/G. Desianti, E. Burhan, A. Ratnawati, Jakarta, Indonesia, p.A1166**
- 103 Rapid Point-of-Care Diagnosis of Tuberculosis in Patients with Persistent Cough/M. Gillette, R. Ahmad, R. Bencher, L. Xie, D. Eisinger, D. Walt, S. Carr, Cambridge, MA, p.A1167**
- 104 Utility of Line Probe Assay for Treatment of Rifampicin Resistant Tuberculosis/K. Tsuyuguchi, S. Yoshida, T. Iwamoto, M. Hirose, M. Naito, Y. Matsuda, T. Arai, M. Okada, Y. Inoue, K. Suzuki, S. Hayashi, Sakai-shi, Osaka, Japan, p.A1168**
- 105 CBNAAT (Xpert MTB/RIF) for Rapid Detection of Childhood Tuberculosis and Rifampicin Resistance: A Systematic Review and Meta-Analysis/M. Singh, S.K. Dhatwalia, N. Jaiswal, K.K. Thumburu, A. Chauhan, M. Kumar, A. Agarwal, P. Pant, M.Singh, Chandigarh, India, p.A1169**
- 106 Diagnostic Accuracy of Xpert Mtb/Rif Assay in Stool Samples in Intrathoracic Childhood Tuberculosis/S. Sinha, S. Menon, S.K. Sharma, S.K. Kabra, R.M. Pandey, New Delhi, India, p.A1170**
- 107 Frequency and Clinical Profile of False Positive Xpert MTB/RIF Results in Patients Previously Treated for Tuberculosis/G. Theron, R. Venter, L. Smith, G.L. Calligaro, A. Esmail, R.M. Warren, K.U.J. Dheda, Cape Town, South Africa, p.A1171**
- 108 Performance of Xpert® MTB/RIF Assay for Pulmonary Tuberculosis and Rifampicin Resistance Under Clinical Settings in Tanzania, A Low Income High Tuberculosis Burden Country/E.S. Ngadaya, G.D. Kimaro, E. Sandi, H. Kimambo, R. Shemtandulo, Y. Lema, J. Lyimo, S.G. Mfinanga, Dar Es Salaam, Tanzania, p.A1172**
- 109 Contribution of the Xpert MTB/RIF Assay to the Diagnosis of Pulmonary Tuberculosis in a West African Childhood Tuberculosis Clinic/A. Ayorinde, T. Togun, U. Egere, L. Tientcheu, O. Darboe, M.S. Ceesay, S. Gomez-Afolabi, J. Otu, M. Antonio, J. Sutherland, B. Kampmann, Banjul, Gambia, p.A1173**

- 110 Feasibility of Utilizing Short Messaging Service (SMS) Technology to Deliver Tuberculosis Testing Results in Uganda/N. Kalema, D. Babirye, K. Farr, P. Shete, L.J. Davis, M. Joloba, D. Moore, D.W. Dowdy, A. Katamba, I. Ayakaka, A. Cattamanchi, San Francisco, CA, p.A1174**
- 111 Loop Mediated Isothermal Amplification (LAMP) in Respiratory Specimens for the Diagnosis of Paediatric Pulmonary Tuberculosis: A Pilot Study/P.C. Vaidya, K.S. Sreedeeep, S. Sethi, M. Singh, R. Yadav, Chandigarh, India, p.A1175**
- 112 The Use of Branched-DNA In Situ Hybridization to Diagnose Mycobacterial Infection in Formalin Fixed-Paraffin Embedded Tissues/B.L. Aguilar Rodriguez, R. Hussien, P. Hunt, J. McCune, J.J. Vasquez, San Francisco, CA, p.A1176**
- 113 Deep Sequencing to Estimate the Prevalence of Heteroresistance Among Mixed-Strain and Single-Strain Mycobacterium Tuberculosis Infections/S.S. Shin, C. Modongo, Y. Baik, C. Allender, D.M. Engelthaler, R.M. Warren, J. Klausner, N. Zetola, Los Angeles, CA, p.A1177**
- 114 Biomarkers for Discrimination Between Latent Tuberculosis Infection and Active Tuberculosis Disease/Y.-S. Kwon, E.-J. Won, S.-J. Kee, Gwangju, Korea, Republic of, p.A1178**
- 115 Low Plasma Levels of Anti Tuberculosis Drugs as a Risk Factor for Non Response in Patients with Pulmonary Tuberculosis on Category II (Retreatment) Regimen/T. Gupta, R. Jain, A. Mohan, U.B. Singh, T. Velpandian, A. Bhatnagar, R. Guleria, New Delhi, India, p.A1179**
- 116 A Comeback of the Antifolates: Developing a Novel and Potent Mycobacterium Tuberculosis Dihydrofolate Reductase Inhibitor/B.S. Zha, R. Liao, L. Ono, M. Pollastri, D. Lorimer, W.S. Weiner, S. Santhakumar, C. Walpole, D.R. Sherman, Seattle, WA, p.A1180**
- 117 Changes in Serum CRP, Iβ2 Microglobulin and Neopterin Levels with TB Treatment/J.F. Mendy, T. Togun, S. Donkor, J. Sutherland, M. Ota, Banjul, Gambia, p.A1181**
- 118 Effect of Adjuvant Inhalation of Sodium Bicarbonate 8.4% with the Usual Treatment on Smear Positive Pulmonary Tuberculosis/M.K. El-Badrawy, E.O. Arram, D.A. Abdalla, D. El-Sagheer, A.E.D.H. Zahran, M.A. ElEla, A. El-Badrawy, W. Amin, Mansoura, Egypt, p.A1182**
- 119 Multidrug-Resistant Tuberculosis in the United States, 1993-2014: Trends and Characteristics/M.P. Chen, R. Miramontes, A.N. Hill, Atlanta, GA, p.A1183**
- 120 It Simply Won't Work Here: Few Eligible for the Newly Recommended Short Course MDR-TB Regimen in a Mumbai Private Clinic/J.A. Tornheim, S.R. Ganatra, A. DeLuca, R.A. Banka, A. Gupta, Z.F. Udwadia, Baltimore, MD, p.A1184**
- 121 Clinical Study on Treatment Regimen with Including Clofazimine and Amoxicillin/Clavulanic of Treating MDR-TB and XDR-TB/N. Chu, Beijing, China, p.A1185**
- 122 Factors Associated with Mortality Among Patients with Multidrug-Resistant Tuberculosis - United States, 1993-2013/J.L. Salinas, L.R. Armstrong, J.P. Cegielski, M.B. Haddad, B.J. Silk, Atlanta, GA, p.A1186**



- 123 Multi-Drug Resistant TB Treatment Regimen, Including Bedaquiline and Linezolid, Failed to Reduce Transmission Over 14 Days/A.C. Stoltz, E.J. De Kock, R.R. Nathavitharana, P. Lederer, J.A. Kruger, S. Keulder, P. Jensen, E. Nardell, Gezina, South Africa, p.A1187**
- 124 Harnessing Social Media to Improve Patient-Centred Directly Observed Therapy (D.O.T) Among Patients with Drug Resistant Tuberculosis (DR TB)/M.S. Namusobya, S.M. Namiro, S. Adakun, C. Batte, Kampala, Uganda, p.A1188**
- 125 Performance of Gene Expression Signatures in the Context of Intensified Tuberculosis Case Finding Among People Living with HIV (PLHIV)/J. Rajan, X. Deng, M. Seielstad, F. Semitala, M. Kamya, C. Yoon, A. Cattamanchi, San Francisco, CA, p.A1189**

POSTER DISCUSSION SESSION

A27 BRONCHIECTASIS AND LUNG INFECTION

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 201 (South Building, Level 2)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: J.E. Pittman, MD, MPH, St. Louis, MO
B.T. Kopp, MD, Columbus, OH

- 501 The Pulmonary Microbiome Associated with Persistent Bacterial Bronchitis/L. Cuthbertson, V. Craven, L. Bingle, W. Cookson, M. Everard, M. Moffatt, London, United Kingdom, p.A1190**
- 502 Similarities and Differences Between the Pediatric Upper and Lower Airway Microbiome/K.M. Kloefer, S.E. Ross, C.M. Hemmerich, D.B. Rusch, S.D. Davis, Indianapolis, IN, p.A1191**
- 503 The Lung Microbiome of Children with Non-CF Bronchiectasis at the Point of Diagnosis - An Important Piece of the Puzzle?/A. Ainsworth, D. Broderick, D. Bradley, C. Byrnes, M. Taylor, N. Pillarisetti, Auckland, New Zealand, p.A1192**
- 504 Childhood Pneumonia Is a Risk Factor for COPD Development but Not Progression in the COPD Gene Study/L.P. Hayden, J.D. Crapo, E.K. Silverman, C.P. Hersh, Boston, MA, p.A1193**
- 505 Relationship Between Antibody Response to Pneumococcal Antigens and Atopy in Young Children with Recurrent Respiratory Disease/N.Y. Lin, S. Krishnan, K. Deazambuja, B. Tun, A.J. Dozor, Valhalla, NY, p.A1194**
- 506 Digitally Recorded Lung Sounds and Mortality Among Children 1-59 Months Old with Pneumonia in the Pneumonia Etiology Research for Child Health Study/E.D. McCollum, D.E. Park, N. Watson, C. Focht, C. Bunthi, B.E. Ebruke, M. Elhilali, D. Emmanouilidou, L. Hossain, D.P. Moore, A. Mudau, J. Mulindwa, J.E. West, K.L. O'Brien, D.R. Feikin, L.L. Hammit, Baltimore, MD, p.A1195**
- 507 Respiratory Illness and Respiratory Syncytial Virus (RSV)-Related Hospitalizations (RSVH) in Infants with Congenital Airway Anomalies (CAA) in the CARESS Registry (2005-2015)/I. Mitchell, B. Paes, S. Wong, A. Li, K. Lancrtot, Calgary, Canada, p.A1196**

- 508 Airway Gene Expression Correlates of Clinical Severity Following Respiratory Syncytial Virus Infection in Infants/ C.-Y. Chu, X. Qiu, L. Wang, B. Tesini, J. Holden-Wiltse, D.J. Topham, A.R. Falsey, M.T. Caserta, E.E. Walsh, T. Mariani, Rochester, NY, p.A1197**
- 509 Clinical Definition of Respiratory Viral Infections in Young Children and Potential Bronchiolitis Misclassification/R. Megalaa, G. Perez, S. Kilaikode, N. Kotwal, M. Arroyo-Morr, C. Rodriguez-Martinez, D.K. Pillai, G.R. Nino, Washington, DC, p.A1198**
- 510 Derivation of a Clinical Prediction Model for Severe Bronchiolitis Outcome/N. Achten, T. Gebretsadiq, E.F. Mitchel, P. Wu, E.K. Larkin, L. Bont, T. Hartert, Utrecht, Netherlands, p.A1199**
- 511 Epidemiological and Clinical Characteristics of the Emergent RSV-A ON1 Strain in Infants with Bronchiolitis/R. Nenna, A. Frassanito, A. Pierangeli, C. Scagnolari, L. Petrarca, I. Sciandra, F. Midulla, Rome, Italy, p.A1200**
- 512 Respiratory Syncytial Virus Infection Alters β 2-Adrenergic Receptor in Primary Human Airway Smooth Muscle Cells/T.J. Harford, F. Rezaee, V. Bokun, R. Panettieri, Jr., M. Gupta, S.V. Naga Prasad, G. Piedimonte, Cleveland, OH, p.A1201**
- 513 Enterovirus D68 Lower Respiratory Tract Infection Causes Elevated Airway Hyperreactivity in Fischer-344 Rats/V. Bokun, T.J. Harford, F. Rezaee, G. Piedimonte, Cleveland, OH, p.A1202**
- 514 Interference Between Respiratory Syncytial Virus and Human Rhinovirus Infection in Infancy/N. Achten, P. Wu, L. Bont, T. Gebretsadiq, M. Blanken, J.D. Chappell, L. Wang, C. Yu, E.K. Larkin, K.N. Carroll, L.J. Anderson, M.L. Moore, C.D. Sloan, T. Hartert, Utrecht, Netherlands, p.A1203**
- 515 Upper Airway T Cells Display Shift to Cytotoxicity During Severe Viral Respiratory Tract Infection in Infants and Young Children/T.J. Connors, J.S. Baird, T.M. Ravindranath, D.L. Farber, New York, NY, p.A1204**
- 516 Respiratory Syncytial Virus Induces Airway Epithelial Barrier Dysfunction Via Endocytosis of Tight Junction Proteins/ D.T. Linfield, L. Sophie, T.J. Harford, G. Piedimonte, F. Rezaee, Cleveland, OH, p.A1205**
- 517 Epithelial Barrier Dysfunction Related to Neutrophilic Inflammation in Non-Cystic Fibrosis Bronchiectasis/O. Yilmaz, Y. Simsek, C. Aslan, E. Toprak Kanik, C. Ulman, R. Yildiz, E. Ozdogru, H. Yuksel, Manisa, Turkey, p.A1206**
- 518 Respiratory Syncytial Virus Infection Alters the Human Fetal Neuroprogenitor Cell Fate and Survival/A. Belkadi, F. Rezaee, T.J. Harford, V. Bokun, L. Sophie, G. Piedimonte, Cleveland, OH, p.A1207**
- 519 Testing Macrophages as a Novel RSV Therapeutic/T.J. Moraes, Y. Cen, M. Litvack, W. Duan, M. Post, Toronto, Canada, p.A1208**
- 520 Respiratory Syncytial Virus Decreases the Metabolic Potential and Spare Respiratory Capacity of Mouse Alveolar Macrophages/J.R. Grunwell, S.M. Yeliger, T.W. Gauthier, L.A. Brown, Atlanta, GA, p.A1209**



- 521** **Detection of Previously Missed Pathogens in Immunocompromised Children with Pneumonia by a Fully-Validated Next-Generation Sequencing Test/R.** Schlager, H. Xie, S. Flygare, Y. Mei, H. Matsuzaki, M. Yandell, E.H. Graf, Salt Lake City, UT, p.A7561
- 522** **Inflammatory Markers Can Predict Pulmonary Exacerbations of Cystic Fibrosis/A.** Ishak, S. Stick, S. Ranganathan, J. Harrison, L. King, P. Sly, L. Turkovich, D. Caudri, A. Schultz, Subiaco, Australia, p.A7562
- 523** **Tuberculin Skin Test Conversion in Infants from Cape Town, South Africa: A Longitudinal Birth Cohort Study/L.** Martinez, D. Le Roux, W. Barnett, M.P. Nicol, A. Stadler, H.J. Zar, Athens, GA, p.A7563
- 524** **Interferon Alpha as Marker of Disease Severity in Children with Influenza: A Cohort Study/R.** Mattiello, R.T. Stein, L.A. Pinto, P.M. Pitrez, M.H. Jones, A.P. Souza, M.C. Scotta, P.L. Acosta, B.N. Porto, F. Polack, L.J. Polack, Porto Alegre, Brazil, p.A7564

RAPiD: RAPID ABSTRACT POSTER DISCUSSION

A28 EXOSOMES AND MICRORNA

9:15 a.m. - 11:15 a.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 1-2 (Level M2)

Abstract Summaries 9:15-9:45
Poster Viewing/Discussion 9:45-11:15

Chairing: P. Chen, MD, Los Angeles, CA
 P.J. Lee, MD, New Haven, CT
 J.S. Deshane, PhD, Birmingham, AL

- 801** **Plasma Exosomes and Endothelial Function in OSA Patients with Evidence of Atherosclerosis: Effect of Long-Term Adherent CPAP/A.** Khalyfa, D. Sanz-Rubio, J.M. Marin, D. Gozal, Chicago, IL, p.A1210
- 802** **The Severe Asthma CHI3L1/YKL-40 Cluster 3 Is Characterized by Upregulation of the NLRP3 Inflammasome and microRNA 223/A.** Chen, X. Yan, Q. Liu, G. Chupp, J.L. Gomez, New Haven, CT, p.A1211
- 803** **Cardiosphere-Derived Cell (CDC) and CDC-Derived Exosome Transience in the Lungs of Rats with Pulmonary Arterial Hypertension (PAH)/R.C.** Middleton, M. Fournier, E. Marban, M.I. Lewis, Los Angeles, CA, p.A1212
- 804** **Therapeutic Benefits of Exosomes Derived from Mesenchymal Stromal Cells in Bleomycin-Induced Pulmonary Fibrosis in Aged Mice/S.J.** Elliot, G.A. Rubio, X. Xia, P. Catanuto, S. Pereira-Simon, I. Pastar, G.D. Glinos, M. Tomic-Canic, M.K. Glassberg, Miami, FL, p.A1213
- 805** **SWATH Lipidomics of Airway Exosomes from Asthmatics/K.P.** Hough, L. Wilson, M. Spell, J.L. Trevor, D. Chanda, J.V. Rodriguez Dager, Y. Wang, S. Barnes, V.B. Antony, C.H. Steele, M. Dransfield, S. Duncan, J. Prasain, V.J. Thannickal, J.S. Deshane, Birmingham, AL, p.A1214

- 806** **microRNA Profile of Exosomes Derived from Bronchoalveolar Lavage in HIV-Infected Smokers with and Without Emphysema/L.** Alghothani, M. Rahman, G. Nigita, M. Gao, P. Fadda, G. Romano, M. Acunzo, P. Diaz, P. Nana-Sinkam, Columbus, OH, p.A1215
- 807** **Effects of Mir-126-Enriched Endothelial Microparticles Released During Cigarette Smoke Exposure on Endothelial Cell Migration and Proliferation/D.** Cao, K. Serban, I. Petrache, Denver, CO, p.A1216
- 808** **Micro RNA-146a Containing Exosomes Could Modulate Cyclooxygenase 2 (COX-2) Gene Expression in Human Lung Fibroblasts/F.** Makino, J. Ikari, H. Basma, X.-D. Liu, A. Nelson, M. Makino, S.I. Rennard, Tokyo, Japan, p.A1217
- 809** **Asthmatic Bronchial Airway Epithelial Exosomes Do Not Promote Mesenchymal Fibrosis Despite Exosomal microRNA Predicted Targets/C.E.** Hoptay, S. Ferrante, T.-L. Hackett, S.B. Epstein, R.J. Freishtat, Washington, DC, p.A1218
- 810** **MicroRNA 24, 145, 191 and 221 Found in Human Bronchoalveolar Lavage Suppresses Endotoxin-Induced NF-kappa B Activation and TNF-Alpha Production/S.** Gairhe, P. Narute, J. Sun, A.F. Suffredini, Bethesda, MD, p.A1219
- 811** **Different miRNA Expression in MSC-Derived Exosomes: IPF Patients and Age-Matched Normal Individuals/Y.** Peng, L. Huleihel, N. Cardenas, D. Alvarez, J. Sellares, J. Sembrat, C.C. Caufield, P. Chen, M. Rojas, Pittsburgh, PA, p.A1220
- 812** **Culture of PAH Peripheral Blood Derived Endothelial Progenitor Cells Allows Isolation of Exosomes and Analysis of Their Surface Markers/R.** Harper, M. Cockshell, C.S. Bonder, P.N. Reynolds, Adelaide, Australia, p.A1221
- 813** **Enrichment of Selective miRNAs in Exosomes and Delivery of Exosomal miRNAs In Vitro and In Vivo/D.** Zhang, H. Lee, Y. Jin, Boston, MA, p.A1222
- 814** **Serum Exosomes Modulate Monocyte and Macrophage Inflammatory Responses/E.E.** Belak, T.M. Nordgren, A.J. Heires, J. Zempleni, D.J. Romberger, Omaha, NE, p.A1223
- 815** **The Majority of Fas Ligand+ Exosomes Are B-Cell Derived and Inducible by Stimulation/L.E.P.M.** Van Der Vlugt, S.H. Taitano, S.K. Lundy, Ann Arbor, MI, p.A1224
- 816** **Neutrophil Stimulation Alters Proteolytic Characteristics of Secreted Exosomes and Increases Exosome-Mediated Degradation of the Inflammatory Matrikine Proline-Glycine-Proline/D.W.** Russell, K.R. Genschmer, T. Szul, P.L. Jackson, J.E. Blalock, Birmingham, AL, p.A1225
- 817** **Exosomes from Activated Human Neutrophils Produce COPD-Like Disease in Mice/K.R.** Genschmer, D.W. Russell, X. Xu, L. Viera, C. McNicholas-Bevensee, P.L. Jackson, J.M. Wells, A. Gaggar, J.E. Blalock, Birmingham, AL, p.A1226
- 818** **Activation of Nrf2 Appears to Prevent Alcohol-Mediated Induction of TGFβ1 by Suppressing miR-21 and Restoring Smad7 Expression/L.** Marts, D.E. Green, S. Mills, T. Murphy, D.M. Guidot, V. Sueblinvong, Atlanta, GA, p.A1227
- 819** **Characterizing the Lung Extracellular Vesicles in the Presence of Noxious Stimuli/H.** Lee, D. Zhang, Y. Jin, Boston, MA, p.A1228



- 820 p53 and microRNA-34a Feedback Promotes Lung Epithelial Injury and Remodeling/S.K. Shetty, N. Tiwari, A. Marudamuthu, B. Puthusseri, Y.P. Bhandary, J. Fu, J. Levin, S. Idell, S. Shetty, Tyler, TX, p.A1229**
- 821 Elevated MicroRNA 155 Expression in Alveolar Macrophages Represents an M1 Inflammatory Marker in Lungs of Obese Patients/A. Tiwari, A. Mohan, A. Malur, R. Singh, B. Barna, M.J. Thomassen, Greenville, NC, p.A1230**
- 822 A Role for miR-135b in Normal and Aberrant Post-Natal Lung Development/C. Nardiello, J. Ruiz-Camp, W. Seeger, R. Morty, Bad Nauheim, Germany, p.A1231**
- 823 WNT5A Is Secreted by Extracellular Vesicles in Pulmonary Fibrosis and Increases Fibroblasts Proliferation/A. Martin Medina, S. Vierkotten, M. Lehmann, D.E. Wagner, H. Baarsma, T. Hofer, M. Frankerberger, J. Behr, M. Aichler, A. Walch, M. Konigshoff, Munich, Germany, p.A7565**
- 824 The Roles of Exosomal miRNA Derived from Fibrocytes in Pulmonary Fibrosis/S. Sato, C. Upagupta, P.-S. Bellaye, C. Shimbori, M.R.J. Kolb, Hamilton, Canada, p.A7566**
- 406 Sleep Deprivation Reduces Inspiratory Endurance by Altering Central Command in Healthy Subjects/C. Rault, V. Diaz, J.P. Frat, J.-C. Meurice, S. Ragot, A.W. Thille, R. Robert, X. Drouot, Poitiers, France, p.A1237**
- 407 Continuous Positive Airway Pressure (CPAP) Increases Respiratory Rate Variability/M. Alsaggaf, S. Alrawaf, G. Alrehaili, A.W. McLean, J. Williams, S. Kimbro, R. Seeni, A.H. Cho, G. Gutierrez, Washington, DC, p.A1238**
- 408 Characterising Changes in the Pulse Oximetry Profiles of Obstructive Sleep Apnea Patients Treated with Acetazolamide: A Graphical Visualisation/P.I. Terrill, S.A. Sands, S. Wilson, B.A. Edwards, Briabane, Australia, p.A1239**
- 409 Visualizing Changes in Breath Timing with Changes in Upper Airway Resistance: Application of the Ternary Plot/D. Mann, B.A. Edwards, G. Hamilton, S.A. Joosten, S. Landry, S.A. Sands, S. Wilson, P.I. Terrill, Brisbane, Australia, p.A1240**
- 410 Effects of Varying Cheyne-Stokes Respiration Pattern on Stroke Volume in Patients with Heart Failure/T. Inami, T. Kasai, D. Yumino, E. Perger, R. Hummel, H. Alshaer, O.D. Lyons, J.S. Floras, T.D. Bradley, Toronto, Canada, p.A1241**
- 411 Enhanced Ventilatory Response to Exercise in Patients with Heart Failure Is Associated with the Severity of Obstructive Sleep Apnea/L.R.A. Bittencourt, S. Javaheri, D.M. Servantes, A.C.P. Kravchychyn, D.R. Almeida, S. Tufik, Sao Paulo, Brazil, p.A1242**
- 412 Is Overnight Rostral Fluid Shift Associated to Sleep Disordered Breathing in Pulmonary Arterial Hypertension?/ E.-M. Jutant, C. Sattler, S. Gunther, M. Humbert, T. Similowski, I. Arnulf, G. Garcia, S. Redolfi, Paris, France, p.A1243**
- 413 Central Sleep Apnea-Cheyne Stokes Respirations and Right Sided Heart Catheterization Measures of Cardiac Performance in Pulmonary Arterial Hypertension/H. Paz Y Mar, M. Venkata Subramani, J. Morales Estrella, X. Han, X. Wang, N. Chaisson, R. Mehra, Cleveland, OH, p.A1244**
- 414 Mean Arterial Pulmonary Pressure as a Predictor of the Severity of Sleep-Disordered Breathing in Patients with Pulmonary Arterial Hypertension/J.L. Morales-Estrella, H. Paz Y Mar, M. Venkata Subramani, X. Han, X. Wang, R. Mehra, N. Chaisson, Cleveland, OH, p.A1245**
- 415 Efficacy of Adaptive Servoventilation for High Altitude Periodic Breathing in Non-Acclimatized Individuals/J.E. Orr, D. Gilbertson, M. Djokic, E. Heinrich, P.N. DeYoung, N.-O. Bosompra, F. Powell, A. Malhotra, T.S. Simonson, La Jolla, CA, p.A1246**
- 416 Volitional Initiated Breaths Do Mimic Automatic Breathing and Allow PaCO₂ Homeostasis/P. Haouzi, B. Chenuel, Hershey, PA, p.A1247**
- 417 Cardiorespiratory Control in Premature Children and the Risk of Sleep Disorder Breathing/K. Armoni Domany, L. Nava-Guerra, K. McConnell, M. Khoo, J. Carroll, M. Hossain, G. Huang, R. Amin, Tel Aviv, Israel, p.A7567**

RAPID: RAPID ABSTRACT POSTER DISCUSSION

A29 UPDATES IN CONTROL OF BREATHING

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 151 B (Middle Building, Street Level)

Abstract Summaries 9:15-9:45

Poster Viewing/Discussion 9:45-11:15

Chairing: N.C. Netzer, MD, PhD, Bad Aibling, Germany
F.J. Jacono, MD, Cleveland, OH
S. Chowdhuri, MD, Detroit, MI

- 401 Chronic C2 Spinal Cord Hemisection Induces Sleep Disordered Breathing/Z. Minic, M. Shandize, H. Goshgarian, A. Sankari, Detroit, MI, p.A1232**
- 402 Hypoxic Ventilatory Response During Sleep in Patients with Chronic Spinal Cord Injury/A. Sankari, E. Kruppe, S.E. Vaughan, S. Chowdhuri, M.S. Badr, Detroit, MI, p.A1233**
- 403 Respiratory Rate Response to Hypercapnic and Hypoxic Stimuli in Mice Via the Carotid Body Is Attenuated by IL6 Induced by Resistive Breathing but Not by TNF α /F. Perlikos, I. Koutsourelakis, M. Dettoraki, A. Sotiriou, C.-E. Giannakopoulou, A. Papalois, T. Vassilakopoulos, Athens, Greece, p.A1234**
- 404 Pathogenesis of Cardiorespiratory Impairments in a Mouse Model of Sickle Cell Disease/J.E. MacLean, J. Ren, X. Ding, M. Trudel, J.J. Greer, Edmonton, Canada, p.A1235**
- 405 The Role of Inspiratory Muscle Function in Obesity Hypoventilation Syndrome/A. Iakovou, S. Hahn, P. Rajan, A. Singh, S. Koenig, A. Sica, H. Greenberg, New Hyde Park, NY, p.A1236**



RAPID: RAPID ABSTRACT POSTER DISCUSSION

A30 BIOMARKERS IN THORACIC ONCOLOGY: PREDICTING OUTCOMES

9:15 a.m. - 11:15 a.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 3-4 (Level M2)

Abstract Summaries

9:15-9:45

Poster Viewing/Discussion

9:45-11:15

Chairing: P. Nana-Sinkam, MD, Richmond, VA
A. Spira, MD, Boston, MA
P.P. Massion, MD, Nashville, TN

- 901** **Alterations in Bronchial Airway microRNA Expression as a Diagnostic Biomarker for Lung Cancer/A.B. Pavel, J. Campbell, G. Liu, S. Zhang, H. Liu, J. Xiao, K. Smith, D. Whitney, S. Dubinett, D. Elashoff, M. Lenburg, A. Spira, Boston, MA, p.A1248**
- 902** **Expediting Molecular Targeted Therapy Using Real-Time Liquid Biopsy in Non-Small Cell Lung Cancer/V. Ifeacho, M. Sachdeva, P. Hegde, M. Peterson, D. Upadhyay, Fresno, CA, p.A1249**
- 903** **Plasma Ciz1b Variant Expressions Can Differentiate High Risk COPD from Early Stage Lung Cancer/V. Ifeacho, K. Almodovar, G. Choi, K. Dhaliwal-Binning, D. Upadhyay, Fresno, CA, p.A1250**
- 904** **Difference of Programmed Death-Ligand 1 Expression in Subtypes of Adenocarcinoma of the Lung/C. Son, M.-S. Roh, P.-J. Choi, Busan, Korea, Republic of, p.A1251**
- 905** **Testing for EGFR Mutation in Lung Adenocarcinoma: Are Guidelines for Testing Being Adhered To?/H. Shahzad, D. Datta, Farmington, CT, p.A1252**
- 906** **Pathologic Heterogeneity of Lung Adenocarcinomas: A Novel Pathologic Index Predicts Survival/G. Lee, H.Y. Lee, J.Y. Jeong, Busan, Korea, Republic of, p.A1253**
- 907** **Comprehensive CT Radiomics Analysis of Lung Adenocarcinoma for Prognostication/G. Lee, H.Y. Lee, H. Park, K.S. Lee, Busan, Korea, Republic of, p.A1254**
- 908** **Non-Invasive Risk Biomarkers for Lung Cancer: An Exhaled microRNA Panel Interrogation and Validation/S.D. Spivack, M. Shi, S. Keller, M. Aldabagh, S. Malik, J. Dobkin, C. Shah, D. Hosgood, W. Han, Bronx, NY, p.A1255**
- 909** **A Novel 31-lncRNA Expression Signature Model Predicts Risk of Recurrence in Lung Adenocarcinoma/J. Zhang, X. Shi, Y. Qin, W. Wang, B. Liu, Y. You, X. Li, C. Zhou, S. Li, Guangzhou, China, p.A1256**
- 910** **A Combined Score of Biomarkers in Sputum May Be an Indicator for Lung Cancer/A. Bar-Shai, S. Shenhar-Tsarfaty, A. Ahimor, N. Ophir, M. Siterman, M. Rotem, Y. Alcalay, Y. Schwarz, E. Fireman, Ashkelon, Israel, p.A1257**
- 911** **Serum Achaete-Scute Homologue 1 (ASCL1) and Forkhead Box P3 (FOXP3) Concentrations in Subjects with Benign Lung Nodules and Lung Adenocarcinomas/M.H. Lee, N. Gopiseti, T.-A. Yie, W.N. Rom, J.J. Tsay, New York, NY, p.A1258**

- 912** **Genetic Variant of ATP Binding Casette Transporter ABCB10 Is Associated with Neutropenia to Docetaxel Treatment for Non-Small Cell Lung Cancer/K. Sone, T. Uemura, T. Oguri, S. Fukuda, Y. Kanemitsu, O. Takakuwa, H. Ohkubo, M. Takemura, K. Maeno, Y. Ito, A. Niimi, Nagoya, Japan, p.A1259**
- 913** **Mass Spectrometry Based Proteomic Analysis for Prognostication in Lung Cancer/S. Ratcliff, V. Ifeacho, T. Santiago, D. Upadhyay, M. Peterson, Fresno, CA, p.A1260**
- 914** **Serum CXCL16 as a Potential Prognostic Marker in Advanced Non Small Cell Lung Cancer/Y. Shibata, T. Sato, M. Ikeda, H. Sasaki, A. Nagashima, R. Ushio, K. Nakashima, H. Watanabe, K. Nagai, K. Tashiro, H. Nagakura, N. Horita, Y. Hara, N. Kobayashi, M. Yamamoto, M. Kudo, M. Shinkai, T. Kaneko, Yokohama, Japan, p.A1261**
- 915** **ERCC1 and RRM1 Expression Patterns Are Promising Prognostic Indicators of Patients with Non-Small Cell Lung Cancer/J. Jiang, J. Han, Y. Zhang, Guangdong, China, p.A1262**
- 916** **Clinical Characteristics and Predictive Factors for Maintenance Treatment of Pemetrexed in Non-Small Cell Lung Cancer/H.-Y. Park, C.-K. Park, H.-W. Seo, S. Ahn, J.-S. Jang, T.-O. Kim, H.-J. Shin, J.-H. Lim, Y.-S. Kwon, Y.-D. Choi, I.-J. Oh, Y.-I. Kim, S.-C. Lim, Y.-C. Kim, Hwasun-Gun, Jeonnam, Korea, Republic of, p.A1263**
- 917** **Matrix Metalloproteinase-7 (MMP-7) Expression Correlates with Lung Cancer Subtypes/N. Gopiseti, X. Jia, T.-A. Yie, W.N. Rom, J.J. Tsay, New York, NY, p.A1264**
- 918** **FDG PET-CT SUVmax and Circulating Tumor Microemboli Identify Recurrence in Patients with Non-Small Cell Lung Cancer/V.S. Nair, F. Carlsson, A. Carlsson, M. Jamali, K.-V. Keu, M. Vasanaawala, J. Shrager, B.W. Loo, G. Horng, W. Kuschner, S.S. Gambhir, P. Kuhn, Stanford, CA, p.A1265**

THEMATIC POSTER SESSION

A31 MECHANISMS IN CYSTIC FIBROSIS AND OTHER BRONCHIECTATIC DISEASES

9:15 a.m. - 4:15 p.m.

WALTER E. WASHINGTON CONVENTION CENTER

Area K, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

- P981** **Cystic Fibrosis Transmembrane Conductance Regulator Channel (CFTR) Controls Phosphatase and Tensin Homolog (PTEN)-Dependent Immunity: A Role in Cystic Fibrosis Pathology/S. Riquelme, K. Kitur, B. Hopkins, A. Wolfe, R. Parsons, A.S. Prince, New York, NY, p.A1266**
- P982** **Epigenetic Regulation of Proinflammatory Chemokines in Cystic Fibrosis Lung Epithelium/K. Chen, Z. Sun, T. Wang, W. Chen, J. Kolls, Pittsburgh, PA, p.A1267**



- P983** Doses of Aerosol Brevinal but Not Ivacaftor that Correct Slowed Mucus Transport Caused by CFTRinh-172 + Human Neutrophil Elastase (HNE) Challenge Block HNE-Induced Bronchoconstriction in Sheep/W.M. Abraham, J.R. Sabater, D. McClain, R.W. Ball, D.G. Baden, A. Bourdelais, M. Salathe, I. Cohen, C. Milla, Miami Beach, FL, p.A1268
- P984** Ivacaftor Therapy Reduces ADAM-17 Activity in Peripheral Blood Neutrophils, Thereby Decreasing the Inflammatory Burden in Cystic Fibrosis/M.M. White, R. Flannery, P. Hawkins, N.G. McElvaney, E. Reeves, Dublin, Ireland, p.A1269
- P985** Ceragenin CSA-131 Retains Activity Against Colistin-Resistant Clinical Isolates of *Klebsiella Pneumoniae*/P.B. Savage, M.M. Hashemi, B. Hilton, S. Weber, C. Genberg, Provo, UT, p.A1270
- P986** Ex-Vivo Infection of Fresh Human Lung Tissue with *Pseudomonas Aeruginosa*/L. Boge, M. Muller, D. Jonigk, P. Braubach, H.-G. Fieguth, G. Warnecke, M. Kruger, A. Braun, K. Sewald, S. Wronski, Hannover, Germany, p.A1271
- P987** Reduced HVCN1 in Neutrophils of Individuals with Cystic Fibrosis Alters Phagosomal pH and Degranulation/N. Browne, M.M. White, M. Milner, C. Foley, F. Gargoum, P. Hawkins, S. Qayyum, E. Reeves, N.G. McElvaney, Dublin, Ireland, p.A1272
- P988** Hyaluronan and the Pathophysiology of CF Lung Infection and Inflammation/T. Bonfield, M. Lauer, B. Matuska, D. Fletcher, R. Van Heeckeren, F. Rezaee, G. Altawallbeh, G. Piedimonte, Cleveland, OH, p.A1273
- P989** A Comparison of the Transcriptional and Translational Inflammatory Profiles of Primary Airway Epithelial Cells from CF and Non-CF Donors/Y. Colon-Cortes, M.A. Hasan, G. Aslanidi, Gainesville, FL, p.A1274
- P990** VBP15 Blunts Hyperactive NF κ B Components in CF Lung Epithelial Cells/Y. Chen, J. Damsker, L. Garvin, M. Rose, Washington, DC, p.A1275
- P991** Low pH Compromises an Essential Neutrophil Function: It Suppresses NETosis/N. Palaniyar, M.A. Khan, Toronto, Canada, p.A1276
- P992** Allergic Bronchopulmonary Aspergillosis (ABPA) in Poorly Controlled Children with Asthma/M. Singh, A. Chauhan, N. Paul, M. Sharma, M. Verma, Chandigarh, India, p.A1277
- P993** The Diagnostic Value of Whole Exome Sequencing in the Investigation of Children with Complex Respiratory Diseases/K. Keown, S. Turvey, K. Del Bel, M. McKinnon, M. Seear, Vancouver, Canada, p.A1278
- P994** Validating New Methods of Quantifying Neutrophil Extracellular Traps in Sputum and Bronchoalveolar Lavage from Patients with COPD and Bronchiectasis/E. Pumphrey, H. Keir, C. Fong, O. Sibila, G. Suarez-Cuartin, S. Finch, T.C. Fardon, A.J. Dicker, J.D. Chalmers, Dundee, United Kingdom, p.A1279
- P995** Loss of CFTR Alters Alveolar Macrophage Viral Defense/T.W. Gauthier, X.D. Ping, L.J. Anderson, M.L. Moore, L.A. Brown, Atlanta, GA, p.A1280
- P996** A Comparative Study of Tissue Remodeling and Inflammatory Immune Cell Infiltration in Patients Treated by Lung Transplantation for Severe COPD Who Have Either the ZZ Phenotype of Alpha-One Antitrypsin Deficiency or the Centrilobular Phenotype of Emphysema Destruction Commonly Observed in Smokers/D. Kinose, D.M. Vasilescu, F. Chu, M. Downey, W.M. Elliott, N. Tanabe, T.-L. Hackett, S. Verleden, B. Vanaudenaerde, J.D. Cooper, J.C. Hogg, Otsu, Japan, p.A1281
- P997** Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Dysfunction in Platelets Drives Lung Inflammation and Injury Through Transient Receptor Potential Channel 6 (TRPC6)/M.A. Yu, G. Ortiz-Munoz, E. Lefrancais, C.J. Peters, N. Kwaan, D. Dawson, M.E. Kleinhenz, M.R. Looney, San Francisco, CA, p.A1282
- P998** A Protein Complex of Phe508del-CFTR, NHERF2, and LPA₂ Regulates IL-8 Secretion from Airway Epithelial Cells/Z. Zhang, S. Kong, G.J. Tigyi, W. Zhang, Memphis, TN, p.A1283
- P999** Opposing Roles of Klotho and Fibroblast Growth Factor 23 in TGF β -Induced Airway Inflammation in Cystic Fibrosis/S. Krick, S. Paredes Aller, C. Aguiar, A. Grabner, E. Mendes, N. Baeumlin, M. Wolf, C. Faul, M. Salathe, Miami, FL, p.A1284
- P1000** Small Molecule Inhibition of the CHIP E3 Ligase Stabilizes I κ B508 CFTR in HEK Cell Lines/J. Franz, J.D. Londino, B. Chen, M. Myerburg, N.M. Weathington, A. Straub, Washington, DC, p.A1285
- P1001** Neutrophil Elastase Inhibition by DNA or Heparin Is Polymer Length Dependent/A.B. Kummarapurugu, N.V. Sankaranarayanan, D.K. Afosah, S. Zheng, T. Kennedy, B.K. Rubin, U.R. Desai, J. Voynow, Richmond, VA, p.A1286
- P1002** Molecular Determinants of Neutrophil Elastase Inhibition by 2-O, 3-O Desulfated Heparin/A.B. Kummarapurugu, N.V. Sankaranarayanan, D.K. Afosah, S. Zheng, U.R. Desai, T. Kennedy, B.K. Rubin, J. Voynow, Richmond, VA, p.A1287
- P1003** Regulation of Cathelicidin LL-37 Expression by *Pseudomonas Aeruginosa* in Human Bronchial Cystic Fibrosis Epithelial Cells/C. Abrial, J. Da Silva, L. Touqui, Paris, France, p.A1288
- P1004** Contribution of *Prevotella Melaninogenica* and Its Hemolysin *phyA* to Disease in Cystic Fibrosis/R.L. Carlson, M. Harasym, P.J. Planet, Philadelphia, PA, p.A1289
- P1005** Distinct Expression of α , β and γ -ENaC Subunits in Ciliated Cells of Porcine Airways/G. Flores-Delgado, P.M. Quinton, La Jolla, CA, p.A1290
- P1006** Targeting Pig Distal Lung Epithelial Progenitor Cells by Adeno-Associated Viral Vectors/X. Li, C. Brommel, B. Hamilton, L. Powers, J. Zabner, Iowa City, IA, p.A1291
- P1007** The Expression of Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) mRNA and Protein in Cystic Fibrosis and Non-Cystic Fibrosis Subjects Using Quantitative PCR and a Novel Elisa Method/P. Bialek, L. Kang, D. Kanmert, D. Melo, J. Curran, D. Qiu, M. Mouded, P.-S. Lee, G. Gilmartin, Cambridge, MA, p.A1292
- P1008** Airway Mucus Minimally Impedes AAV6 for Inhaled Lung Gene Therapy/G.A. Duncan, N. Kim, Y. Colon-Cortes, N.E. West, G. Aslanidi, A. Livraghi-Butrico, A. Srivastava, R.C. Boucher, J. Hanes, J.S. Suk, Baltimore, MD, p.A1293



- P1009** **NF- κ B Responsive Genes in Cystic Fibrosis Lung Epithelial Cells**/P.J. Shukla, Y. Chen, M.C. Rose, Washington, DC, p.A1294
- P1010** **Development of Recombinant Adeno-Associated Viral Vector (rAAV) Gene Therapy for Cystic Fibrosis**/M.S. Carlon, D. Vidovic, M. Ensink, M.F. Da Cunha, J.F. Dekkers, M. Bijvelds, H. De Jonge, A.S. Ramalho, K. De Boeck, I. Sermet-Gaudelus, R. Gijssbers, A. Edelman, J. Beekman, Z. Debyser, Leuven, Belgium, p.A1295
- P1011** **Detection of Cystic Fibrosis Serological Biomarkers Using a T7 Phage Display Library**/H. Talwar, S. Hanoudi, A. Geamanu, D.G. Kissner, S. Draghici, L. Samavati, Detroit, MI, p.A1296
- P1012** **Alpha-1 Antitrypsin Is Less Effective at Inhibiting Neutrophil Elastase Activity and CXCR1 Cleavage in Cystic Fibrosis Versus Non-CF Bronchiectasis Respiratory Secretions Due to the Actions of Other Serine and Non-Serine Proteases**/O.J. McElvaney, P.E. Hawkins, N. Browne, C. Gunaratnam, E.P. Reeves, N.G. McElvaney, Dublin, Ireland, p.A1297
- P1013** **Neutrophil Elastase and Ceramide: Impact on Cystic Fibrosis Lung Inflammation**/S. Karandashova, A.B. Kummarapurugu, S. Zheng, B.K. Rubin, J. Voynow, Richmond, VA, p.A1298
- P1014** **Integrative Transcriptomic and Genomic Analysis Reveals Gene Networks Associated with Cystic Fibrosis Lung Disease Severity**/D. Polineni, H. Dang, P. Gallins, L.C. Jones, R.G. Pace, J.R. Stonebraker, H. Corvol, G.R. Cutting, M.L. Drumm, L.J. Strug, M.P. Boyle, P.R. Durie, J.F. Chmiel, Y.-H. Zhou, F. Zou, F.A. Wright, W. O'Neal, M. Knowles, Kansas City, KS, p.A7568

THEMATIC POSTER SESSION

A32 ASTHMA AND ALLERGY CLINICAL STUDIES

9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area C, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: F.A. Hernandez, MD, Providencia, Chile

- P193** **Fluticasone Furoate (FF)/Vilanterol (VI) Once Daily Improves Night-Time Awakenings in Asthma Patients with Night-Time Symptoms**/N. Barnes, M.R. Gibbs, R.D. Forth, London, United Kingdom, p.A1299
- P194** **Lower Airway Response to Rostral Fluid Shift in Asthmatic Men Vs. Women**/S. Bhatawadekar, G. Keller, M.D. Inman, J.J. Fredberg, S.M. Tarlo, O.D. Lyons, A. Yadollahi, Toronto, Canada, p.A1300
- P195** **Effect of Airway Calibre on Sensitivity to Rostral Fluid Shift in Asthma**/S. Bhatawadekar, G. Keller, M.D. Inman, J.J. Fredberg, S.M. Tarlo, O.D. Lyons, A. Yadollahi, Toronto, Canada, p.A1301
- P196** **Stability of Baseline Measures of Sputum Cell Counts in Healthy Individuals Over 12 Months: Practical Implications for Study Design**/N.E. Alexis, Q. Zhou, D. Peden, H. Zhou, Chapel Hill, NC, p.A1302

- P197** **Levels of Alveolar Nitric Oxide Would Be Associated with Refractoriness to Inhaled Corticosteroids in Patients with Asthma**/K. Fukumitsu, Y. Kanemitsu, N. Takeda, H. Ichikawa, T. Asano, T. Uemura, H. Ohkubo, O. Takakuwa, M. Takemura, K. Maeno, Y. Ito, T. Oguni, A. Nakamura, A. Niimi, Nagoya, Japan, p.A1303
- P198** **Urine Cotinine as a Marker of Environmental Tobacco Smoke Exposure in Recurrent Respiratory Symptoms of Early Childhood**/A.M. Maatta, A.E. Huovinen, A. Kotaniemi-Syrjanen, K. Malmstrom, L.P. Malmberg, A.S. Pelkonen, M.J. Makela, Helsinki, Finland, p.A1304
- P199** **Increased Peripheral Airway Resistance Correlates with Higher Methacholine Sensitivity**/A.M. Jobanputra, A.T. Scardella, S.-E. Lu, F.S. Wamboldt, C. Irvin, P. Lehrer, New Brunswick, NJ, p.A1305
- P200** **Combined Measurements of Fractional Exhaled Nitric Oxide and Nasal Nitric Oxide Levels for Assessing Upper Airway Diseases in Asthmatic Patients**/T. Asano, M. Takemura, Y. Kanemitsu, M. Yokota, K. Fukumitsu, N. Takeda, H. Ichikawa, H. Hijikata, Y. Maki, Y. Nakamura, M. Suzuki, A. Niimi, Nagoya, Japan, p.A1306
- P201** **Polycystic Ovary Syndrome Is Associated with a Higher Risk for Asthma**/J.G. Zein, Z. Yaqoob, S.G. Al-Kindi, M. DeBoer, W.G. Teague, B. Gaston, S.C. Erzurum, Cleveland, OH, p.A1307
- P202** **Dose Lung Function Monitoring Play an Important Role in Assessing Current Asthma Control?**/J. Wang, L. Ma, X. Zhang, H.P. Zhang, L. Wang, G. Wang, Chengdu, China, p.A1308
- P203** **Adherence to Outpatient Clinic Visits by Patients with Asthma**/T. Tajiri, T. Sado, A. Sokai, K. Gotoh, Y. Nakamura, H. Kita, Takatsuki-shi, Japan, p.A1309
- P204** **The Evaluation of Impulse Oscillometry in the Diagnosis of Exercise-Induced Bronchoconstriction**/R.R. Nahapetian, C. Bime, C.E. Berry, Tucson, AZ, p.A1310
- P205** **Fractional Exhaled Nitric Oxide (FeNO) as Monitoring Tool for Bronchial Asthma: An Indian Study**/D. Bhattacharyya, Y. Garg, New Delhi, India, p.A1311
- P206** **Reduction of Medication Use in Asthmatics Following Minimally-Invasive Nissen Fundoplication for Severe GERD**/S. Patel, N. Dhanabalsamy, C. Galvani, T.F. Carr, Tucson, AZ, p.A1312
- P207** **Cluster Analysis of Cough Variant Asthma Using FOT and FeNO**/S. Oyama, Y. Ohtani, F. Koike, W. Furuie, M. Akaza, T. Sasano, K. Tsuchiya, M. Tamaoka, Y. Miyazaki, N. Inase, Y. Sumi, Tokyo, Japan, p.A1313
- P208** **The Relationship Between Fractional Exhaled Nitric Oxide and Forced Expiratory Volume in One Second in Asthma**/J. Dummer, M. Amer, J. Cowan, A. Gray, Dunedin, New Zealand, p.A1314
- P209** **The Relationship Between Anxiety and Serum Inflammatory Cytokines in Patients with Asthma**/T. Mochimaru, K. Fukunaga, K. Masaki, M. Matsusaka, S. Okuzumi, R. Baba, T. Tanosaki, T. Kamatani, Y. Suzuki, T. Betsuyaku, Tokyo, Japan, p.A1315
- P210** **Quantitative CT Airway Measurements in Patients with Severe Persistent Asthma Treated with Bronchial Thermoplasty**/N. Nagano, S. Ishii, M. Ikura, M. Hashimoto, M. Suzuki, G. Naka, S. Izumi, Y. Takeda, M. Hojo, H. Sugiyama, Tokyo, Japan, p.A1316



- P211** **Characteristics of the “Asthma in the Elderly” Phenotype/M.-E. Boulay, C. Robitaille, F. Deschesnes, H. Villeneuve, L.-P. Boulet, Quebec, Canada, p.A1317**
- P212** **Comparison Two Fractional Exhaled Nitric Oxide Analyzers: NOA280i® Chemiluminescence Analyzer and NIOXvero® Electrochemical Analyzer/Y. Tanabe, J. Ito, H. Sasano, A. Nakamura, Y. Sando, T. Takeshige, K. Matsuno, Y. Katsura, A. Ishimori, F. Makino, R. Atsuta, N. Harada, K. Takahashi, Bunkyo, Japan, p.A1318**
- P213** **Relationships Between Depression and Bronchodilator Response and Airway or Systemic Inflammation in Asthma/L. Zhang, J. Zheng, X. Zhang, Y. Liu, P.H. Zhang, L. Wang, G. Wang, Chengdu, China, p.A1319**
- P214** **Management of Asthma in Elderly Patients with Tracheobronchomalacia/C. Nguyen, M. O'Sullivan, K. Cheng, New York, NY, p.A1320**
- P215** **Athletes and Eucapnic Voluntary Hyperventilation: Impact of Ventilator Parameters in a Large Cohort/P. Jamali, B.-P. Dube, H. Chapdelaine, C. Poirier, Montreal, Canada, p.A1321**
- P216** **Intrapulmonary EGPA Subtype Identified by Clinical Parameters Clustering/Q. Zhang, M. Qiu, Z. Lai, J. Xie, J. Gu, L. Dai, Y. Tao, L. Jiang, J. Li, Y. Gu, Q. Zeng, Z. Liang, R. Chen, N. Zhong, Guangzhou City, China, p.A1322**
- P217** **Airway Response to House Dust Mite Allergen Bronchial Challenge in Allergic Asthma/Z. Zhu, H.-Y. Wang, Y.-Q. Xie, J.-Y. An, P. O'Byrne, N.-S. Zhong, J.-P. Zheng, Guangzhou, China, p.A1323**
- P218** **The Efficacy of Intensive Inhalation Therapy in Asthma Patients Complicated with Eosinophilic Otitis Media/E. Tagaya, O. Yagi, K. Hara, A. Sato, K. Arimura, M. Kondo, J. Tamaoki, Tokyo, Japan, p.A1324**
- P219** **Systemic Inflammation in Asthma with Small Airway Dysfunction/Y. Liu, X. Zhang, L. Zhang, H.P. Zhang, L. Wang, G. Wang, Chengdu, China, p.A1325**
- P220** **The Quality of Spirometry Among Black Asthmatics in Primary Care: A BELT Study Analysis/J.L. Denson, Y.T. Dollin, R. Dunn, D. Curran-Everett, B.P. Yawn, A.L. Fuhlbrigge, W.D. Pace, S. Kasani, E. Israel, M.E. Wechsler, Denver, CO, p.A1326**
- P221** **Factors Associated with Asthma-Specific Health Related Quality of Life in African American Children with Asthma Receiving Care from Primary Care Pediatricians/K. Sumino, L. Bacharier, J. Taylor, K. Chadwick-Mansker, V. Curtis, J. Cho, J. Garbutt, B. Wilson, K. Schechtman, M. Castro, St. Louis, MO, p.A1327**
- P222** **Intracellular Interferon-γ Production by Cord Blood Mononuclear Cells as Predictor of Atopic Dermatitis Forming in Infants: A One-Year Prospective Birth Cohort Study/S. Tereshchenko, I. Novitckii, Krasnoyarsk, Russian Federation, p.A1328**
- P223** **Current Practice of Bronchodilator Reversibility Measurement Underestimates Asthma in the Older Adult/R. Folz, R. Gopalraj, B. Beatty, A. Jorayeva, J. Myers, B.J. Polivka, Cleveland, OH, p.A1329**
- P224** **Asthma in the Elderly: Discrepancies Between Clinical, Physiological and Inflammatory Parameters/J. Gregoire, C. Robitaille, M.-E. Boulay, M. Bertrand, L.-P. Boulet, Quebec, Canada, p.A1330**

- P225** **Examining the Role of Nitric Oxide in Asthma Self-Management in Older Adults/R. Folz, A. Jorayeva, B. Beatty, J. Myers, R. Gopalraj, B.J. Polivka, Cleveland, OH, p.A1331**
- P226** **Associations Between Asthma Severity and Production of, or Responsiveness to, Th17-Associated Cytokines in Pediatric Asthmatics/J.W. McAlees, T. Baker, X. Zhang, J. Biagini Myers, M. Butsch Kovacic, I.P. Lewkowich, Cincinnati, OH, p.A1332**

THEMATIC POSTER SESSION

A33 CLINICAL STUDIES IN OBSTRUCTIVE LUNG DISEASE

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area L, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

- P1077** **Treatment of Acute Exacerbations in COPD: An Exploratory Phase II Study of Single and Repeated Doses of Acumapimod (BCT197), an Oral p38 Inhibitor/I. Strambu, J.M. Parkin, B. Magnusson, A. MacKinnon, Bucharest, Romania, p.A1333**
- P1078** **Peripheral Th2-Related Biomarkers in Chronic Obstructive Pulmonary Disease (COPD) Patients in the GLUCOLD (Groningen Leiden Universities Corticosteroids in Obstructive Lung Disease) Study/W. Tew, P. Kulkarni, C. Holweg, C.A. Brandsma, W. Timens, M. Grimbaldston, P. Hiemstra, M. van den Berge, M. Neighbors, South San Francisco, CA, p.A1334**
- P1079** **Effect of Roflumilast on Cough and Sputum in Patients with Severe or Very Severe Chronic Obstructive Pulmonary Disease (COPD) Receiving Inhaled Combination Therapy: Evaluation of the EXacerbation of Chronic Pulmonary Disease Tool-Patient Reported Outcomes (EXACT-PRO) Subdomain Scores/S. Sethi, F.J. Martinez, K.F. Rabe, E. Pizzichini, A. McIvor, A. Anzueto, V. Alagappan, J. Delgadillo, J. Roman, S. Zetterstrand, S.I. Rennard, Buffalo, NY, p.A1335**
- P1080** **Association of Platelet Count and Aspirin Use with COPD Morbidity: The SPIROMICS and COPDGen Cohorts/A. Fawzy, N. Putcha, L.M. Paulin, C.P. Aaron, W.W. Labaki, M.K. Han, R.A. Wise, R.E. Kanner, R. Bowler, R.G. Barr, N. Hansel, Baltimore, MD, p.A1336**
- P1081** **Pharmacokinetics of a 4-Week Up-Titration Regimen of Roflumilast in the OPTIMIZE Study/A. Facius, N. Bagul, P. Gardiner, H. Watz, Zurich, Switzerland, p.A1337**
- P1082** **Evaluating the Novel Design Concept for - A Three Month Exacerbation Study in COPD/M.N. Brown, M. Fageras, Z. Taib, E. Ersdal, C. Kristensson, K. Korsback, P. Jansson, N. Patel, B.J. Make, Waltham, MA, p.A1338**
- P1083** **Lung Function Decline, Exacerbation Rate and Longitudinal Changes of the Blood and Sputum Inflammatory Phenotype in COPD Patients/O. Holz, B. Ellinghusen, S. Haffner, M. Muller, P. Badorrek, N. Krug, F. Horn, J.M. Hohlfeld, Hannover, Germany, p.A1339**



- P1084** **Decreased Levels of Plasma Growth Differentiation Factor 11 Are Associated with Physical Activity, Exercise Capacity and Systemic Inflammation in COPD/R.** Tanaka, H. Sugiura, M. Yamada, K. Onodera, T. Numakura, M. Miura, T. Takahashi, M. Ichinose, Sendai, Japan, p.A1340
- P1085** **Development of a New and Sensitive Alpha1-Proteinase Inhibitor Activity Measurement/A.** Weber, A. Engelmaier, E. Minibek, Vienna, Austria, p.A1341
- P1086** **Sensitive and Selective Measurement of Neutrophil Elastase Based on a New Assay Principle/A.** Weber, G. Proding, A. Engelmaier, Vienna, Austria, p.A1342
- P1087** **The Peripheral Blood Eosinophil Count as a Biomarker of Eosinophilic Airway Inflammation in Patients with Asthma and COPD. Experience from a Single Centre/R.** Shrimanker, S.J. Thulborn, V. Mistry, C. Connolly, C. Borg, B. Hargadon, K. Hambleton, G. Hynes, C.E. Brightling, I. Pavord, M. Bafadhel, Oxford, United Kingdom, p.A1343
- P1088** **Is Skin Affected by Systemic Inflammation in Chronic Obstructive Pulmonary Disease?/S.** Majewski, A. Pietrzak, D. Tworek, K. Szewczyk, A. Kumor-Kisielewska, P. Gorski, A. Zalewska-Janowska, W. Piotrowski, Lodz, Poland, p.A1344
- P1089** **SUV39H1/ H3K9me3 Expression Is Potentially Implicated in Eosinophilic Phenotype of COPD/T.T.** Chen, S.-M. Wu, S.-C. Ho, H.-C. Chuang, P.-H. Feng, W.-T. Liu, K.-Y. Chen, K.-Y. Lee, New Taipei City, Taiwan, p.A1345
- P1090** **Reduction in Airway Eosinophils in Patients with COPD Treated with Roflumilast for 16 Weeks: A Double-Blind, Parallel-Group, Randomized, Placebo-Controlled Biopsy Trial/K.** Rabe, M. Saetta, H. Watz, S. Baraldo, G. Hanauer, U.M. Göhring, J. Delgadillo, J. Roman, V. Alagappan, Grosshansdorf, Germany, p.A7569
- P1091** **Safety, Pharmacokinetics and Dose-response Characteristics of GSK2269557, an Inhaled PI3Kδ Inhibitor Under Development for the Treatment of COPD/E.M.** Hessel, J.N. Hamblin, M. Begg, R. Wilson, L. Dunsire, S. Sriskantharajah, M. Montebault, C. Leemereise, L. Galinanes-Garcia, H. Watz, A. Kirsten, R. Fuhr, A. Cahn, Stevenage, United Kingdom, p.A7570
- P229** **Mast Cell-Derived PAI-1 Plays a Major Role in the Airway Remodeling of Asthma/S.H.** Cho, A. Jo, M.N. Teng, R.F. Lockett, Tampa, FL, p.A1347
- P230** **The Development of Novel ProteaseTags® for the Capture and Disclosure of Mast Cell Tryptase/T.** Ferguson, D. McCafferty, C. Robb, K.L. Moffitt, B. Walker, Belfast, United Kingdom, p.A1348
- P231** **Cellular and Acellular Factors Influence Mast Cell Phenotype/Y.** Ren, G.S. Pryhuber, T.J. Mariani, Rochester, NY, p.A1349
- P232** **Role of Gut Microbiome in the Pathogenesis of Allergic Airway Disease/B.** Kim, S.I. Kim, J.W. Kim, S.H. Ahn, H.-J. Cho, J.-H. Yoon, C.-H. Kim, Seoul, Korea, Republic of, p.A1350
- P233** **Innate Immune Response to Fungal Allergens of Alternaria and Cladosporium in Airway Cells/R.** Bischof, M. Jamali, B. Liravi, A. Davies, Clayton, Australia, p.A1351
- P234** **Origin, Phenotype and Function of Human IgE Cells/M.A.** Curotto De Lafaille, S. Narayanan, V.N. Narang, G. Wong, D.C.W. Aw, N. Chandran, S. Saunders, I. Navin, J. Reibman, M. Poidinger, F. Zolezzi, New York, NY, p.A1352
- P235** **Microsphere-Encapsulated Allergen Epitope Delivery Enhances Activation of Bone Marrow-Derived Dendritic Cells for Allergen-Specific Immunotherapy/S.S.** Killingbeck, M.Q. Ge, C.H. Flayer, E.D. Larson, A. Haczk, Davis, CA, p.A1353
- P236** **Sensitization to House Dust Mites Acts as a Risk Factor of Asthma Exacerbation in the Fall/B.J.** Kim, H.S. Kim, Y.H. Chun, J. Yoon, H.H. Kim, J.T. Kim, Seoul, Korea, Republic of, p.A1354
- P237** **Emergency Medical Services Response to Anaphylaxis and Allergic Complaints in North-Central West Virginia/C.** Kraft, C. Whiteman, D. Davidov, R. Doerr, D. Paulson, S. Davis, F. Blum, E. Shaver, Morgantown, WV, p.A1355
- P238** **Determining Medical and Cost Soundness of Using Specific IgE in Older Adults with Asthma in Lieu of SPT/B.J.** Polivka, E.S. Brooke, R. Folz, B. Beatty, R. Gopalraj, A. Jorayeva, J. Myers, Louisville, KY, p.A1356
- P239** **MicroRNA-1 Levels Determine the Type of Inflammatory Remodeling in Chronic Rhinosinusitis/A.** Korde, X. Zhang, S.S. Takyar, New Haven, CT, p.A1357
- P240** **Prevalence and Correlates of Sensitization to Perennial Inhalant Allergens in Adults in Semi-Urban and Rural Area of Cameroon/A.D.** Balkissou, E.W. Pefura-Yone, S.L. Tagny-Tchuente, R. Adidigue-Ndiomo, E. Afane-Ze, Yaounde, Cameroon, p.A1358
- P241** **The Association Between Tobacco Smoke and Serum Immunoglobulin E Levels in Korean Adults: Results from the Korean National Health and Nutrition Examination Survey/H.Y.** Lee, C.D. Yeo, J.W. Kim, Y.S. Kim, Uijeongbu-si, Korea, Republic of, p.A1359
- P242** **Extracellular Vesicle Degradation by Novel House Dust Mite Phospholipase Activity/M.D.** Haggadone, M. Peters-Golden, Ann Arbor, MI, p.A1360

THEMATIC POSTER SESSION

A34 CLINICAL AND CELLULAR STUDIES IN ALLERGIC DISEASE

9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area C, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

- P228** **Control of Mast Cell Regulated Exocytosis by Munc18 Proteins/B.A.** Gutierrez Grebenkova, M.A. Chavez, M.A. Ramos, A.I. Rodarte, Y. Petrova, R. Adachi, Houston, TX, p.A1346



THEMATIC POSTER SESSION

A35 SEVERE ASTHMA**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area C, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** P.A.B. Wark, MD, PhD, New Lambton, Australia

- P244 Age of Asthma Onset Differentiates Two Very Severe Asthma Phenotypes in the Severe Asthma Research Program/W.C. Moore, X. Li, H. Li, E. Israel, A.M. Fitzpatrick, D. Mauger, B. Phillips, R.L. Sorkness, W. Wu, S.E. Wenzel, D. Meyers, E. Bleeker, Winston-Salem, NC, p.A1361**
- P245 Differential Responses to Systemic Corticosteroids as Assessed by Cluster Analysis of Data from the Severe Asthma Research Program (SARP)/W. Wu, E.R. Bleeker, D.A. Meyers, W.C. Moore, E. Israel, A. Fitzpatrick, R.L. Sorkness, M. Peters, S. Kerr, A.T. Hastie, S.E. Wenzel, Pittsburgh, PA, p.A1362**
- P246 Oral Corticosteroid Dose Modulation in Severe Asthma: Impact on Peripheral Blood Eosinophil Count/C. Prazma, E. Bel, R. Price, E. Bradford, F.C. Albers, S. Yancey, Research Triangle Park, NC, p.A1363**
- P247 Characteristics of Patients with Severe, Uncontrolled, Eosinophilic Asthma Enrolled in an Observational French Cohort (COBRA)/M. Aubier, G. Thabut, C. Fabry-Vendrand, Paris, France, p.A1364**
- P248 The Very Frequent Exacerbator Phenotype in Adults ≥ 55 Years Is Associated with Similar Persistent Airflow Obstruction but Less Symptom Impairment when Compared to Middle-Aged Adults 45-54 Years of Age/M.T.D. Opina, E.R. Bleeker, A.T. Hastie, X. Li, H. Li, W.W. Busse, M. Castro, S.C. Erzurum, E. Israel, S.E. Wenzel, D. Meyers, W.C. Moore, Winston-Salem, NC, p.A1365**
- P249 Chronic Psychosocial Stress Induced Heightened Lymphocyte Activation in Severe Asthmatic Patients/M.Q. Ge, D.G. Tompkins, C.H. Flayer, E.D. Larson, S.S. Killingbeck, M. Juarez, B.M. Morrissey, N. Kenyon, A. Haczku, Davis, CA, p.A1366**
- P250 Three-Year Follow-Up on Exacerbation Rate in Severe Asthmatic Subjects: An Analysis from the Hokkaido Severe Asthma Cohort Study/H. Kimura, S. Konno, H. Makita, K. Shimizu, M. Suzuki, M. Nishimura, Sapporo, Japan, p.A1367**
- P251 Severe Asthma in Primary Care in Canada: A Longitudinal Study of the Clinical Burden and Economic Impact Based on Linked Electronic Medical Record Data/D. Husereau, J. Goodfield, R. Leigh, R. Borrelli, M. Cloutier, A. Gendron, D. Marvin, Edmonton, Canada, p.A1368**

- P252 Severe Asthma, Uncontrolled Asthma, and the Use of Triple Controller Therapy for Asthma in China/G. Wang, P.G. Gibson, F. Wang, M. Guo, W. Zhang, P. Gao, H.P. Zhang, E.S. Harvey, H. Li, J. Zhang, Chengdu, China, p.A1369**
- P253 Impact of Asthma Control Status on Lung Function and Patient Well-Being Assessments in Patients with Severe Asthma/X. Xu, S. O'Quinn, I. Hirsch, G. Gopalan, Gaithersburg, MD, p.A1370**
- P254 One Year Stability of Exacerbation-Resistant and Exacerbation-Prone Asthma Phenotypes in the Severe Asthma Research Program/M. Peters, J.V. Fahy, B. Phillips, D. Mauger, S.P. Peters, N.N. Jarjour, L.C. Denlinger, San Francisco, CA, p.A1371**
- P255 Clinical Features of Refractory Airway Type-2 Inflammation in Severe Asthma/M. Peters, S. Kerr, M.L. Fajt, B.D. Levy, E. Israel, B. Phillips, D. Mauger, S.A. Comhair, S.C. Erzurum, M.W. Johansson, N.N. Jarjour, A. Coverstone, M. Castro, A.T. Hastie, E. Bleeker, S.E. Wenzel, P.G. Woodruff, J.V. Fahy, San Francisco, CA, p.A1372**
- P256 Steroid Use in Severe Asthma Disables Natural Killer Cell Effector Mechanisms for Inflammation Resolution/M.G. Duvall, C. Barnig, M. Cernadas, I. Baumann, N. Krishnamoorthy, N.L. Grossman, P.G. Woodruff, J.V. Fahy, E. Israel, B.D. Levy, Boston, MA, p.A1373**
- P257 Disease Characteristics of a Severe Asthma Patient Population from the IDEAL Study Stratified by Level of Asthma Control/F. Albers, H. Mullerova, N. Gunsoy, L.M. Nelsen, S.M. Cockle, Research Triangle Park, NC, p.A1374**
- P258 Airway Mucins in Response to IL13 in Normal and Severe Asthmatic Airways/B. Batson, G. Radicioni, P. Haridass, H. Dang, P. Mieczkowski, L. Abdullah, M. Kesimer, Chapel Hill, NC, p.A1375**
- P259 Galectin-3 Expression in Monocyte-Derived Macrophages from Severe Asthmatics/M. Erriah, K. Pabreja, K.J. Baines, M. Fricker, J.L. Simpson, Newcastle, Australia, p.A1376**
- P260 Serum sST2 Levels Predict Severe Exacerbation of Asthma: A Potential Implication for Neutrophilic Asthma/M. Watanabe, K. Nakamoto, M. Sada, T. Inui, S. Takata, T. Yokoyama, T. Saraya, D. Kurai, H. Ishii, H. Takizawa, Tokyo, Japan, p.A7571**
- P261 Spiritus: A Phase 2b Trial to Assess the Efficacy and Safety of Vapendavir in Moderate and Severe Asthmatics with Rhinovirus Upper Respiratory Tract Infection/S. Johnston, J. Carpio, J. Panuto, S. Kraeva, R. Leon, E. Hobbs, R. Campaneria, J. Vernachio, X. Rivera, A. Novotney-Barry, London, United Kingdom, p.A7572**

THEMATIC POSTER SESSION

A36 HOST DEFENSE AGAINST VIRAL INFECTION**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area D, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators



- P353** **Recombinant Myristoylated Rhinovirus VP4 Protein Activates Pro-Inflammatory Gene Expression in HEK293 Cells and Primary Alveolar Macrophages**/J.K. Bentley, M. Han, C. Rajput, J. Lei, J. Hinde, M.B. Hershenon, Ann Arbor, MI, p.A1377
- P354** **Circadian Regulation of Lung Inflammation in Influenza A Infection**/S. Sengupta, G.S. Worthen, C.B. Lopez, G.A. FitzGerald, Philadelphia, PA, p.A1378
- P355** **The Role of Interferon Lambda During Influenza, Staphylococcus Aureus Super-Infection**/H.E. Rich, K.M. Robinson, K.J. McHugh, S. Mandalapu, M.E. Clay, J.F. Alcorn, Pittsburgh, PA, p.A1379
- P356** **Epithelial IRAK-M Promotes Rhinovirus Infection in the Lung**/D. Jiang, R. Berman, N. Schaefer, C.R. Stevenson, A. Sanchez, H.W. Chu, Denver, CO, p.A1380
- P357** **Decreased Sphingolipid Synthesis Enhances Rhinovirus-Triggered Airway Hyperreactivity**/A. Sharma, B. Sung, A. Veerappan, R.B. Silver, B. Kim, T.S. Worgall, S. Worgall, New York, NY, p.A1381
- P358** **HIV-Related Proteins Prolong Macrophage Survival Through Induction of Triggering Receptor Expressed on Myeloid Cells-1**/Z. Yuan, X. Fan, B.S. Staitieh, B. Bedi, P. Spearman, D.M. Guidot, R.T. Sadikot, Decatur, GA, p.A1382
- P359** **Interferon Regulation of Innate and Antioxidant Responses in Respiratory Syncytial Virus Infection**/M. Ansar, N. Komaravelli, A. Casola, R.P. Garofalo, Galveston, TX, p.A1383
- P360** **MUC18 Inhibits Lung Eosinophilic Inflammation During Rhinovirus Infection in Mice**/R. Berman, D. Jiang, S. Sajuthi, N. Schaefer, Q. Wu, M.A. Seibold, H.W. Chu, Denver, CO, p.A1384
- P361** **Role of BRP-39 in RSV-Induced Airway Inflammation in Mice**/M.J. Kim, D.H. Shim, H.-R. Cha, K.-Y. Moon, S.Y. Kim, J. Kim, M.N. Kim, J.Y. Hong, K.E. Lee, I.S. Sol, Y.H. Kim, K.W. Kim, M.H. Sohn, J.M. Lee, Seoul, Korea, Republic of, p.A1385
- P362** **Modification of Airway Remodeling Factors Expression by TSLP and Apocynin in Human Rhinovirus-Infected Fibroblasts**/R. Pawliczak, J. Wiecefinska, Lodz, Poland, p.A1386
- P363** **Selective Toll-Like Receptor 3 (TLR3) Control Over Acute and Chronic Immune Responses to Respiratory Viral Infection**/X. Wang, C. Park, S.P. Keeler, E. Agapov, X. Jin, M.J. Miller, Y. Zhang, K. Wu, M.J. Holtzman, St. Louis, MO, p.A1387
- P364** **Azithromycin Augments Rhinovirus-Induced IFN-Beta In Vitro and In Vivo Via Cytosolic MDA5**/L. Uller, H. Akbarshahi, E. Tufvesson, L. Bjerner, C. Persson, M. Menzel, Lund, Sweden, p.A1388
- P365** **Azithromycin Mitigates Human Rhinovirus Impact on Epithelial Junctional Proteins and Barrier Function in Airway Epithelium**/K. Looi, L.W. Garratt, T. Iosifidis, K.-M. Ling, K.M. Martinovich, S.T. Montgomery, J. Hillas, E. Kicic-Starcevic, N.C. Shaw, D. Knight, E.N. Sutanto, A. Kicic, S. Stick, Perth, Australia, p.A1389

THEMATIC POSTER SESSION

A37 THE SPECTRUM OF COPD: EPIDEMIOLOGY TO OUTCOMES

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area L, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: V.S. Fan, MD, MPH, Seattle, WA

- P1093** **Chronic Respiratory Diseases and the Urban Divide: A Population-Based Study Examining Prevalence and Attributable Risk Factors for Chronic Respiratory Disease in Uganda**/T. Siddharthan, M. Grigsby, B. Morgan, R. Kalyesubula, R.A. Wise, B. Kirenga, W. Checkley, Baltimore, MD, p.A1390
- P1094** **Prevalence of COPD in US Caucasian Patients Based on Post Bronchodilator Spirometry and Its Correlation with Smoking**/O. Linares, D. Collingridge, M.J. Hegewald, A. Morris, Murray, UT, p.A1391
- P1095** **COPD Access to Community Health - CATCH Us - You Can!**/C. Landon, K. Gallardo, Ventura, CA, p.A1392
- P1096** **Innovations in Treating COPD Exacerbations: Action Plans Using New Technology**/R. Farias, M.F. Sedeno, P.Z. Li, A. Joubert, I. Drouin, R. Abimaroun, I. Ouellet, D. Beaucage, M. Patel, J. Bourbeau, Montreal, Canada, p.A1393
- P1097** **Information Technology and COPD Health-Related Behaviors: Patients' Perspective**/R. Farias, M.F. Sedeno, M. Patel, J. Bourbeau, Montreal, Canada, p.A1394
- P1098** **Patient Preference for Using Technology to Track and Self-Manage Chronic Obstructive Pulmonary Disease (COPD)**/S.M. Dallabrida, L. Khurana, S.T. Gary, A.V. Otero, C. Hall, Boston, MA, p.A1395
- P1099** **Access and Willingness to Use Technology for Self-Management at Home Among the General Population Versus Patients with Asthma or COPD**/V.G. Press, M. Wu, A. Hull, E. Kim, J. Kim, D.O. Meltzer, V. Arora, Chicago, IL, p.A1396
- P1100** **Preferences of Use of Social Media Among Patients with Obstructive Respiratory Diseases Depending of Generation's Cohort in Latin America**/A. Cherrez, J.C. Calderon, A.P. Baptist, O.R. Lopez Jove, G.D. Ramon, S. Cherrez, E. Calero, M.I. Torres Villacreses, J.A. Cano, K. Plaza, I. Cherrez Ojeda, Heidelberg, Germany, p.A1397
- P1101** **Comparison of Strategies to Identify Documented Advance Care Planning Among Patients Presenting with Severe COPD Exacerbations**/A.R. Stephens, R.S. Wiener, M. leong, Boston, MA, p.A1398
- P1102** **Informed Together, a Decision Aid to Increase Informed Shared Decision Making About Intubation in Patients with Severe COPD - Results of Feasibility Testing**/N. Hajizadeh, M. Basile, J. Andrews, A. Kozikowski, S. Jacome, L. McCullagh, M. Zhang, M. Diefenbach, Manhasset, NY, p.A1399



- P1103 The Short-Term Impact of Symptom-Defined COPD Exacerbation Recovery on Health Status and Lung Function/L.** Murray, N. Leidy, Bethesda, MD, p.A1400

Facilitator: V.G. Press, MD, MPH, Chicago, IL

- P1104 Life Space Assessment as a Measure of Community Mobility in Chronic Obstructive Pulmonary Disease/A.S. Iyer, A. Jones, D.P. Kirkpatrick, J. Nichols, J.M. Wells, S.P. Bhatt, R.E. Kennedy, P. Sawyer, C. Brown, M. Dransfield, Birmingham, AL, p.A1401**

- P1105 Health-Related Quality of Life (HRQOL) in Moderate-to-Very Severe Chronic Obstructive Pulmonary Disease (COPD) Patients Treated with SUN-101 (glycopyrrolate/eflow®): Findings from the Phase 3 GOLDEN Studies/G.T. Ferguson, E.M. Kerwin, J.F. Donohue, A. Ozol-Godfrey, V. Ganapathy, Farmington Hills, MI, p.A1402**

- P1106 Depression and Health-Related Quality of Life in Patients with Chronic Obstructive Pulmonary Disease/N. Malik, K.K. Chima, Lahore, Pakistan, p.A1403**

- P1107 A Systematic Review of the Instruments and Psychometric Properties of Measures of Impact of COPD on Caregivers/J. Cruz, A. Marques, A. Machado, S. O'Hoski, R.S. Goldstein, D. Brooks, Toronto, Canada, p.A1404**

- P1108 Airway Diseases and Health Literacy (HL) Measurement Tools: A Systematic Review to Inform Respiratory Research and Practice/J. Shum, I. Poureslami, D. Wiebe, L. Nimmon, M. Doyle-Waters, J.M. Fitzgerald, Vancouver, Canada, p.A1405**

- P1109 The Economic Burden of Moderate and Severe COPD Exacerbations in Commercially Insured and Medicare Part D US Populations/R.H. Stanford, M. Borse, Research Triangle Park, NC, p.A1406**

- P1110 Cost Associated with COPD Exacerbations and Other Respiratory Events in Commercial and Medicare Part D Populations/R.H. Stanford, M. Borse, A. Shewale, Research Triangle Park, NC, p.A1407**

- P1111 Assessing the COPD Treatment Ratio (CTR) Performance to Predict COPD Exacerbations in a Medicare Part D Population/R.H. Stanford, S. Stenkowski, Y. Li, Research Triangle Park, NC, p.A1408**

- P1112 Use of Triple COPD Therapy Among Incident Users of LAMA or LAMA/LABA/R.H. Stanford, B. Hahn, M. Hull, C. Blauer-Peterson, A. Buikema, Research Triangle Park, NC, p.A1409**

- P1113 Clinical Risk Groups and COPD in Patients Admitted in a Pneumology Service/A. Crespo, A. Cerezo, T. Ruiz, L. Juez, G. Lopez, T.M. Alvaro, A. Gomez, S. Sanudo, D. Alvarez, F. Del Campo, Valladolid, Spain, p.A1410**

Facilitator: A. Lambert, MD, MHS, Baltimore, MD

- P1114 How Often Are Patients Admitted to the Hospital for Chronic Obstructive Pulmonary Disease Also Treated for Heart Failure and Vice Versa?/A.-Y.M. Tan, A. Mutso, B. Pittendigh, D. Edwards, D. McGowan, E. Calhoun, E. Villareal, F. Zaidi, I. Ursan, J. Sullivan, L. Walsh, M. Williams, M.J. Joo, M. Gutierrez-Kapheim, N.E. Bracken, R. DiDomenico, S. Pickard, U. Kazmi, V. Prieto-Centurion, V. Visvabharathy, J.A. Krishnan, Chicago, IL, p.A1411**

- P1115 Continuing Care with Nebulized Bronchodilators After Hospital Discharge and Impact on Readmissions: Analysis of Medicare COPD Beneficiaries Receiving Arformoterol Vs Nebulized Short-Acting Agents/V. Ganapathy, L. Xie, A. Keshishian, Q. Zhang, O. Baser, Marlborough, MA, p.A1412**

- P1116 Adherence to Medications for Comorbidities Among COPD Patients/J.P. Wisnivesky, L. Chen, K. Muellers, M. Wolf, A. Federman, New York, NY, p.A1413**

- P1117 A Robust Statistical Model of Adherence to Inhaled Medication/G. Greene, R. Conroy, R. Costello, F. Doyle, Dublin, Ireland, p.A1414**

- P1118 Device Errors In COPD and Asthma: Systematic Literature Review and Meta-Analysis/H. Chrystyn, J. van der Palen, R. Sharma, M. Thomas, B. Delafont, A. Mahajan, N. Barnes, Yeadon, United Kingdom, p.A1415**

- P1119 Patient Device Satisfaction with eFlow Closed System Nebulizer: Results from the GOLDEN-5 Study in Patients with Moderate-to Very-Severe Chronic Obstructive Pulmonary Disease (COPD)/E.M. Kerwin, J.F. Donohue, G.T. Ferguson, A. Ozol-Godfrey, V. Ganapathy, Medford, OR, p.A1416**

- P1120 Smoking Knowledge, Attitudes, Practice and Behavior in Outpatient Individuals with COPD in Zunyi City, China/W. LianHong, Zun Yi, China, p.A1417**

- P1121 Self-Management Behaviors to Reduce Exacerbation Impact in COPD Patients: A Delphi Study/Y. Korpershoek, J. Bruins Slot, T.W. Effing, M. Schuurmans, J. Trappenburg, Utrecht, Netherlands, p.A1418**

- P1122 Outcomes with High-Frequency Chest Wall Oscillation Among Patients with Bronchiectasis or COPD/D. Weycker, F. Seifer, G. Hansen, Brookline, MA, p.A1419**

- P1123 HOLD Study: Natural History of Patients with Advanced COPD/D. Gainza Miranda, C. Prados Sanchez, A. Alonso Babarro, E.M. Sanz Peces, M. Varela Cerdeira, G. Aleman Vega, R. Rodriguez Barrientos, E. Polentinos Castro, Madrid, Spain, p.A1420**

- P1124 Respiratory Therapist Home Oxygen for Chronic Obstructive Pulmonary Disease (RisOTTO) Study: A National Survey/ A.-Y.M. Tan, D.L. Vines, V. Prieto-Centurion, M. Gutierrez-Kapheim, J.A. Krishnan, T.J. Kallstrom, Chicago, IL, p.A7573**

THEMATIC POSTER SESSION

A38 IMPROVING QUALITY AND OUTCOMES OF CRITICAL CARE

9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area E, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: C.H. Weiss, MD, Chicago, IL

- P491 Novel Approach to Reducing Urinary Catheter Days and CAUTIs in the ICU/D. Aleksonis, J. Parada, G. Payonk, S. Patel, Maywood, IL, p.A1421**



- P492** **Assessing Preventable Harms in the Intensive Care Unit: Data from a Tertiary Care Academic Medical Institution/N.** Sung, J.M. Aldrich, D. Shimabukuro, M.A. Matthay, K. Liu, San Francisco, CA, p.A1422
- P493** **Root Cause Analysis of Adverse Events in Intensive Care Units in the Veterans Health Administration/G.S.** Corwin, R. Hemphill, P.D. Mills, H. Shanawani, White River Junction, VT, p.A1423
- P494** **Safety First: An Initiative to Decrease Unplanned Extubations in a Neonatal Intensive Care Unit/M.** Posner, E. Holtz-Eakin, J. Bango, E. Holman, S. Lind, L. Dunphy, R. DellaVentura, B. Blazeovich, R. Ciaburri, C. Bruno, New Haven, CT, p.A1424
- P495** **High Versus Low Dose Thiamine and Outcomes in Patients with Severe Alcohol Withdrawal: A Propensity-Matched Cohort Study/S.** Gu, M. Moss, D. Everett, B.J. Clark, Aurora, CO, p.A1425
- P496** **Illusory Superiority: A Barrier to Reaching Clinical Practice Goals/A.H.** Morris, K.H. Lee, J. Orme, Murray, UT, p.A1426
- P497** **High Clinician Compliance, in Spite of Ignoring Protocol Rules, Raises Important Questions/A.H.** Morris, Murray, UT, p.A1427

Facilitator: T.S. Valley, MD, MSc, Ann Arbor, MI

- P498** **Evaluation of a New Protocolized, Goal-Directed Sedation Protocol in the Medical Intensive Care Unit: A Single-Center Quality Improvement Project/N.** Li, A. Lee, F.G. Rivera, A. Ng, K.S. Mathews, L. Richman, New York, NY, p.A1428
- P499** **Guideline Based Policy for Treatment of Accidental Hypothermia Decreases Intensive Care Unit Admission Rates and Improves Resource Utilization/H.** Sequeira, H. Mohamed, N. Hakimi, J. Fine, Norwalk, CT, p.A1429
- P500** **Optimizing the Process of Extubation in the Pediatric Intensive Care Unit/D.** Munhall, M. Lilley, P. Betit, N. Mehta, M. Kleinman, D. Hames, A. Randolph, Boston, MA, p.A1430
- P501** **Integration of an Advanced Practice Behavioral Health Clinician into a Medical Intensive Care Unit/C.R.** Fistler, M. Cavanaugh, A. Schwartz, M.G. Benninghoff, M. Vest, T. Horton, R. Guerry, V. Maheshwari, Newark, DE, p.A1431
- P502** **Impact of Public Reporting of 30-Day Mortality on Timing of Death After Coronary Artery Bypass Graft Surgery/M.** Hua, D.C. Scales, R. Pinto, V. Moitra, H. Wunsch, New York, NY, p.A1432
- P503** **Sex Differences in Physician Use of the Electronic Health Record/D.R.** Seifer, K. McGrath, G. Scholl, V. Mohan, J.A. Gold, Portland, OR, p.A1433
- P504** **Resilience, Cognitive Reserve and Brain Reserve in Neurocritical Care: A Prospective Cohort Study/N.S.** Dangayach, S.A. Griffiths, R. Feng, M. Keough, V. Sharma, D. Wheelwright, D. Marin, J. Sumowski, A. Costa, S. Sobotka, J. Bederson, J. Mocco, E. Gordon, S.A. Mayer, New York, NY, p.A1434

Facilitator: P.R. Menon, MD, PhD, Burlington, VT

- P505** **Introduction of Rapid Mortality Review in the Medical Intensive Care Unit: Methods and Initial Results/A.** Zider, W. Simon, S. Vangala, A. Dermenchyan, T.H. Neville, Los Angeles, CA, p.A1435

- P506** **Illness Uncertainty and Its' Influencing Factors Among Family Members of Patients in Intensive Care Unit: A Cross-Sectional Study in China/Y.** Lyu, F. Gao, Beijing, China, p.A1436

- P507** **Characterizing Intensive Care Unit Patient and Family Experiences of Recovery After Traumatic Injury/S.** Buddai, L.J. Di Taranti, A.Y. Adenwala, S. Aepli, M. Choudhary, D.L. George, C.B. Koilor, M. Linehan, H. Peifer, D. Rub, L. Kaplan, N. Johnson, M.B. Lane-Fall, Philadelphia, PA, p.A1437

- P508** **Critical Care in the Resource-Limited Setting: Implications of a Needs-Assessment in a Public Hospital in Dhaka, Bangladesh/N.** Ahmed, A. Nolan, V. Mukherjee, A. Rouf, A. Hanif, New York, NY, p.A1438

- P509** **Critical Care Resources in Guangdong Province of China: Three Surveys from 2005 to 2015/J.** Wu, X. Guan, Guangzhou, China, p.A1439

- P510** **Preventable Harms and Outcomes Associated with Opioid Overdose-Related Intensive Care Unit Admissions/D.** Hsu, J. Marshall, A. Reichheld, S. Roche, S. O'Donoghue, J. Bertone, J. Stevens, Boston, MA, p.A1440

- P511** **Methamphetamine Abuse and Its Health Care Impact in the Central Valley of California/M.K.** Singh, P. Doddamreddy, K. Dhaliwal-Binning, S. Drew, R. Saini, S. Reddy, L. Stokes, D. Brown, A. Khan, M. Ruprem, J. Tulyagankhodjaev, C. Ives, J. Rosario, P. Armenian, R. Vohra, V. Balasubramanian, Fresno, CA, p.A1441

THEMATIC POSTER SESSION

A39 AUTOIMMUNE LUNG DISEASE: CASE REPORTS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area C, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J. Solomon, MD, Denver, CO

- P263** **A Case of Pulmonary-Renal Syndrome Caused by Streptococcal Infection/J.** Shimokawa, H. Nagano, H. Kawakita, Y. Raita, T. Kishaba, Uruma, Japan, p.A1442
- P264** **A Co-Occurrence of Interstitial Pneumonia with Autoimmune Features and Usual Interstitial Pneumonia/C.T.** Lee, R. Vij, A.N. Husain, M.E. Strek, Chicago, IL, p.A1443
- P265** **Interstitial Lung Disease: A Presentation for a Rare Autoimmune Condition/M.** Kalani, T. Sharma, Pittsburgh, PA, p.A1444
- P266** **Cryptogenic Organizing Pneumonia Presenting at Sentinel Ulcerative Colitis Exacerbation/S.B.** Brosnahan, S. D'Annunzio, R. Condos, New York, NY, p.A1445
- P267** **Physical Signs and Radiographic Manifestation of ANCA Associated Granulomatosis with Polyangiitis/P.** Tunsupon, P. Yampikulsakul, Buffalo, NY, p.A1446



- P268 Cough and Mediastinal Lymphadenopathy Leading to an Unexpected Diagnosis of Lupus/J. Hall, R. Suyyagh, Phoenix, AZ, p.A1447**
- P269 Shrinking Lung Syndrome with Hypercapneic Respiratory Failure Responsive to Mycophenolate Mofetil and Systemic Steroids/H. Bachert, L. Bazan, K. Thavarajah, Detroit, MI, p.A1448**
- P270 Acute Lupus Pneumonitis as a Precursor to Shrinking Lung Syndrome/C. Harden, H. Miskin, M. Barnes, Y. Samra, H. Alnuaimat, A. Ataya, Gainesville, FL, p.A1449**
- P271 Unmasking a Great Imitator: Lupus Pneumonitis/G.A. Cortes-Puentes, M. Koslow, G. Stroh, M. Duloher, J. Davis, M. Pham, P. Escalante, Rochester, MN, p.A1450**
- P272 A New Kid in Town or a Quintessential Masquerader/H. Grewal, A. Frank, Y. Goldman, Worcester, MA, p.A1451**
- P273 A Case of Relapsing Polychondritis Solely Presenting with Chronic Cough: A Rare Presentation of a Rare Disease/M. Li, Y. Zeng, J. Wang, Shenzhen, China, p.A1452**
- P274 Tracheobronchopathica Osteochondroplastica Presenting with Epistaxis and Atrophic Rhinitis/T. Hotze, V. Bandi, Houston, TX, p.A1453**

Facilitator: T. Luckhardt, MD, MS, Birmingham, AL

- P275 Pulmonary Manifestation of IBD: A Case Report/C. Rincon-Prieto, M.J. Stephen, J. Woytanowski, Philadelphia, PA, p.A1454**
- P276 A Rare Case: Granulomatosis with Polyangiitis Presenting Only with Pulmonary Nodules/S. Ghetya, M. Carson, R. Abramowitz, Neptune, NJ, p.A1455**
- P277 Fibrillary Glomerulonephritis: Another Cause of Bleeding Lung/K. Patel, A. Talwar, T. Cheema, M. Balaan, Pittsburgh, PA, p.A1456**
- P278 Pulmonary Renal Syndrome with ANCA Negative Pauci-Immune Glomerulonephritis in a Patient with Monoclonal Gammopathy/M.S. Rizvi, P.D. Scanlon, Rochester, MN, p.A1457**
- P279 Don't Judge a Lung by Its Cover/W.H. Chong, D.C. Johnson, Springfield, MA, p.A1458**
- P280 Diffuse Alveolar Hemorrhage with Pleuropericardial Effusions in the Setting of Scleroderma Renal Crisis (SRC) in a Patient with History of Breast Cancer and Positive Anti-RNA Polymerase III Antibody/I. Shahoub, H.S. Bukamur, F. Zeid, Huntington, WV, p.A1459**
- P281 Diffuse Alveolar Hemorrhage as a Rare Manifestation of Rheumatoid Arthritis/A. Osman, P. Galiatsatos, S. Bose, S.K. Danoff, Baltimore, MD, p.A1460**
- P282 Empiric Plasmapheresis in a Case of Diffuse Alveolar Hemorrhage/S. Wiesel, P. Catella, F. Siddiqui, D. EL-Sayegh, Staten Island, NY, p.A1461**
- P283 Diffuse Alveolar Hemorrhage and Pulmonary Renal Syndrome in a Patient with Cryoglobulinemia and Antiphospholipid Syndrome/S. Akkineni, N. Ramreddy, D. Heller, Ft. Lauderdale, FL, p.A1462**
- P284 Isolated Pauci-Immune Pulmonary Capillaritis Presenting as Diffuse Alveolar Hemorrhage/C. Liak, A. Gupta, M. Joneja, C. D'Arsigny, Kingston, Canada, p.A1463**

- P285 A Woman with Celiac Disease and Diffuse Alveolar Hemorrhage/A.K. Baldomero, R. Tomic, Minneapolis, MN, p.A1464**

- P286 Case of Puci-Immune Pulmonary Capillaritis Treated with Rituximab/A. Alsatli, C. Hayner, Cincinnati, OH, p.A1465**

Facilitator: A. Brown, MD, BSN, Atlanta, GA

- P287 A Complex Case of Diffuse Alveolar Hemorrhage: A Patient with Cirrhosis of the Liver Secondary to HCV Infection, Cryoglobulinemia, Membranoproliferative Glomerulonephritis, and IgM Kappa Monoclonal Gammopathy/S. Yadam, M. Yochim, A. Elapavaluru, A. Talwar, A. Singh, S. Elapavaluru, Pittsburgh, PA, p.A1466**
- P288 Pericardial Tamponade as a Rare Manifestation of Acute Microscopic Polyangiitis/M.H. Bourne, U. Specks, T. Peikert, Rochester, MN, p.A1467**
- P289 Fatal Autoimmune Complication of Hydralazine/N.R. Patel, P.M. Castelino, E. Ramasra, H. Al-Khalisy, H. Shingala, Harrisburg, PA, p.A1468**
- P290 Anti-GMCSF Monoclonal Gammopathy-Induced Pulmonary Alveolar Proteinosis - Individualized Medicine Using Mass Spectrometry/S. Mirza, D.L. Murray, P.M. Vanderboom, M.E. Wylam, Rochester, MN, p.A1469**
- P291 Unusual Co-Occurrence of Polymyositis-Interstitial Lung Disease and Pulmonary Alveolar Proteinosis/J. Katsis, L.J. Witt, K.C. Dugan, D. Wu, L. Rosen, A.N. Husain, M.E. Strek, Chicago, IL, p.A1470**
- P292 Under the Radar: Bilateral Phrenic Nerve Palsy as a Cause of Progressive Dyspnea/N.R. Joseph, M. Ali, M. Harrison, J. Uduman, Detroit, MI, p.A1471**
- P293 A Window into the Soul: A Case of Transmural Ulceration of the Tracheobronchial Tree/A. Olson, Y. Samra, C. Trillo, M. Barnes, Gainesville, FL, p.A1472**
- P294 Adult Still's Disease with Pulmonary Involvement as a Paraneoplastic Syndrome Caused by a Seminoma/P.D. Hiles, A.J. Skabelund, Fort Sam Houston, TX, p.A1473**
- P295 Pulmonary Necrobiotic Nodules - A Rare Manifestation of Crohn's Disease/H. Koneru, J.P. Sugunraj, S. Penupolu, Danville, PA, p.A1474**
- P296 Treated IgG4 Disease with Progression of Massive Pleural Effusion/L. Pei Yu, Taipei, Taiwan, p.A1475**
- P297 Organizing Pneumonia Masking the Diagnosis of IgG4 Related Disease: A Case of a 79 Year Old Man with Myelodysplastic Syndrome/B. Noumi, A. Attaway, M. Nagaraja, R. Folz, Cleveland, OH, p.A1476**
- P298 It's Not Heart Failure: Paraneoplastic Myasthenia Gravis in ICU/A. Pandita, S. Goyal, A. Karkee, J. Sexton, Syracuse, NY, p.A1477**
- Facilitator:** J. Dematte, MD, MBA, Chicago, IL
- P299 Consolidating a Rare Consolidation/S. Marco, D. Thomson, R. Talento, A. Mohan, Greenville, NC, p.A1478**
- P300 Cavitary Lesions on Chest Computed Tomography Represent a Common Clinical Dilemma/R.J. Rohrer, B. Nguyen, J.A. Nations, A. Lazarus, Bethesda, MD, p.A1479**



- P301** **The Remicade Escapade: Infliximab Induced Acral Psoriasis in a Patient with Refractory Sarcoidosis**/Z. Shakir, N. Sweiss, Chicago, IL, p.A1480
- P302** **Incidental Pulmonary Nodules and Unusual Eosinophilic Granulomatous Lymphadenitis: An Under-Recognized Manifestation of Systemic Vasculitis**/E.J. Swanson, P. Valen, H. Mesa, P. Duane, Minneapolis, MN, p.A1481
- P303** **The Price of the Perfect Smile: A Dental Ceramist's Journey from Respiratory Collapse and Back**/T.W. DeCato, A. Badke, Salt Lake City, UT, p.A1482
- P304** **Dendriiform Pulmonary Ossification**/T. Umeda, R. Tomic, E. Racila, H. Kim, Minneapolis, MN, p.A1483
- P305** **Primary Sjogrens Syndrome Causing Pleural Effusions**/S. Hadigal, G. Lowther, A. Prasad, Gainesville, FL, p.A1484
- P306** **Lane-Hamilton Syndrome - A Case of Pulmonary Hemosiderosis Associated with Celiac Disease**/B. Ayesha, A. George Jacob, R. Tuetken, Iowa City, IA, p.A1485
- P307** **Best Treatment for a Rare Cause of Airway Obstruction? A Case of Tracheal Pemphigoid Responsive to Cyclophosphamide and Prednisone**/M.S. Norton, M. Dulohery, J. Hildebrandt, Rochester, MN, p.A1486
- P308** **Chronic Eosinophilic Pneumonia and Rheumatoid Arthritis: An Unusual Association**/L. Cagino, J. Barretto, D. Patel, Gainesville, FL, p.A1487
- P309** **An Extremely Rare Presentation of Renal Cell Carcinoma as Diffuse Alveolar Hemorrhage**/K. Chatterjee, A.R.A. Tarawneh, U. Kaphle, R. Jagana, Little Rock, AR, p.A1488
- P310** **Acute Fibrinous Organizing Pneumonia in a Patient with Cryoglobulinemia and Hepatitis C**/J.Z. Morales, U. Bhat, P. Sikka, Temple, TX, p.A1489
- P1018** **BAE and AWCT: A Delicate Balance in Submassive Hemoptysis in Cystic Fibrosis**/R. Shrestha, C.D. Jackson, L.C. Murillo, Memphis, TN, p.A1492
- P1019** **Broncho-Pulmonary Arterial Fistula Misdiagnosed as Pulmonary Emboli, Presenting as Massive Hemoptysis in a Patient with Cystic Fibrosis**/S. Velani, M. Ayache, C.N. Myers, S. Manvar, C.V. Teba, Cleveland, OH, p.A1493
- P1020** **Acute Infarction of Spinal Cord After Bronchial Artery Embolization**/K.H. Min, J. Choi, S. Chung, J.Y. Oh, Y.S. Lee, G.Y. Hur, S.Y. Lee, J.J. Shim, K.H. Kang, Seoul, Korea, Republic of, p.A1494
- P1021** **What Is so Bad in Good Syndrome? A Case Report and Pulmonary Images**/D.T. Moretta, C. Gasho, L. Specht, Loma Linda, CA, p.A1495
- P1022** **Focal Bronchiectasis Due to Alpha-1 Antitrypsin Deficiency Complicated by Mycobacterium Avium-Intracellulare Infection**/R.M. Burkes, P. Noone, Chapel Hill, NC, p.A1496
- P1023** **Bronchiectasis in Hematologic Malignancy Is Not Always Graft-Versus-Host-Disease**/S.E. Gray, L. Chen, A. Artz, P. McShane, S. Montner, M.E. Strek, Chicago, IL, p.A1497
- P1024** **Splitting Hairs: A Case of Eosinophilic Asthma Presenting with Bronchiectasis and Ciliary Dysfunction**/C.R. Barrios, V.E. Ortega, Winston-Salem, NC, p.A1498
- P1025** **When Infertility, Sinusitis, and Bronchiectasis Are Not Cystic Fibrosis: A Case of Recurrent Pneumonia in a Patient with Mayer-Rokitansky-Kuster-Hauser Syndrome**/G. Magda, A. Vinayak, Washington, DC, p.A1499
- P1026** **Genetic Testing, a Valuable Tool in the Diagnosis of Primary Ciliary Dyskinesia**/Y. Hamzavi Abedi, B. Kaplan, Great Neck, NY, p.A1500
- P1027** **Mounier-Kuhn Disease, a Rare Cause of Dyspnea Associated with Pulmonary Nocardiosis, Restrictive Lung Physiology, and IgM Deficiency**/S.R. Shadix, Z. Zhang, B. Tatsuno, S. Ghandehari, Los Angeles, CA, p.A1501

THEMATIC POSTER SESSION

A40 CYSTIC FIBROSIS AND NON-CYSTIC FIBROSIS BRONCHIECTASIS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area K, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: N.E. West, MD, Baltimore, MD

- P1016** **Massive Hemoptysis Due to an Iatrogenic Pseudoaneurysm of an Aberrant Bronchial Artery**/S. Subramany, V. Wadhwa, K. Chatterjee, K.S.S. Kakker, J. Tan, D. Bricco, Little Rock, AR, p.A1490
- P1017** **Embolization of Non-Bronchial Systemic Artery (Inferior Phrenic) as a Source of Massive Hemoptysis in a Patient with Mycobacterial Bronchiectasis**/M. Albahhar, H.A. Vo, H. Bowers, J. Keshavamurthy, E. Rotem, Augusta, GA, p.A1491

Facilitator: M.P. Boyle, MD, Baltimore, MD

- P1028** **It's Not Just Another Cystic Fibrosis Exacerbation**/S. Bhatia, T. Heynekamp, C. Cotton, Albuquerque, NM, p.A1502
- P1029** **Cystic Fibrosis Mutations Discovered in a 72 Year Old Woman**/J. Radbel, S. Jagpal, A. Scardella, New Brunswick, NJ, p.A1503
- P1030** **ECMO Without Anticoagulation as a Bridge to Lung Transplantation**/A. Brueder, M. Prickett, M. Jain, Chicago, IL, p.A1504
- P1031** **Necrotizing Pneumonia Complicated by Bronchopulmonary Fistula in a Cystic Fibrosis Patient**/A. Nepal, S. Sitaula, J. Sexton, R. Dean, Syracuse, NY, p.A1505
- P1032** **Allergic Bronchopulmonary Aspergillosis Presenting as Post-Obstructive Pneumonia in an Adult with Undiagnosed Cystic Fibrosis**/V. Murthy, S.B. Brosnahan, A. Lubinsky, J.L. Bessich, J. Alukal, A. Basavaraj, New York, NY, p.A1506
- P1033** **Cystic Fibrosis: A Sad Diagnosis**/E.E. Bondarsky, N. Nguyen, A. Velazquez, A. Astua, N. Ramesh, P. Walker, New York, NY, p.A1507



- P1034** **Decline and Recovery of Lung Function with the Initiation and Cessation of Lumacaftor-Ivacaftor**/C.J. Richards, L. Sicilian, I. Neuringer, Boston, MA, p.A1508
- P1035** **Isolated Extreme Elevation of Alkaline Phosphatase Associated with Lumacaftor-Ivacaftor Therapy: First Report**/M.M. Howsare, K. El-Kersh, Louisville, KY, p.A1509
- P1036** **Ivacaftor for the Treatment of Cystic Fibrosis Coexisting with Trisomy 21: A Case Report**/E. Charbek, G. Kamel, R.P. Nayak, St. Louis, MO, p.A1510
- P1037** **Bronchiectasis Is Associated with Acute Respiratory Disease Episodes in Smokers with and Without COPD: An Analysis of the COPD Gene Cohort**/D.J. Maselli, A. Yen, B. Amalakuhan, E. McLean, G.R. Washko, R. San Jose Estepar, A.A. Diaz, San Antonio, TX, p.A1511
- P1038** **Pulmonary Vascular Pruning Is Associated with Bronchiectasis Severity and Lung Function in Smokers**/D.J. Maselli, F.N. Rahaghi, A. Yen, R. San Jose Estepar, G. Washko, A.A. Diaz, San Antonio, TX, p.A1512

Facilitator: M. Myerburg, MD, Pittsburgh, PA

- P1039** **The Prevalence of Vitamin D Deficiency in Non-Cystic Fibrosis Bronchiectasis and its Correlation with Parameters of Pulmonary Dysfunction**/C. D'Angelo, J.B. Gleason, A. Hadeh, Weston, FL, p.A1513
- P1040** **Immune Deficiency in Patients with Non Cystic Fibrosis Bronchiectasis and Relationship with Clinical Parameters**/M. Bekir, S. Olgun Yildizeli, D. Kocakaya, E. Eryuksel, E. Karakoc, I. Olugur, B.B. Ceyhan, Istanbul, Turkey, p.A1514
- P1041** **Identification of Pseudomonas Aeruginosa Airway Colonization by an Electronic Nose in Bronchiectasis Patients**/G. Suarez-Cuartin, J. Giner, J.L. Merino, A. Rodrigo-Troyano, A. Feliu, A. Alonso, F. Sanchez-Reus, V. Plaza, J.D. Chalmers, O. Sibila, Barcelona, Spain, p.A1515
- P1042** **Characteristics of the T-326 Inhaler Important for Effective Inhalation Treatment with Ciprofloxacin Dry Powder for Inhalation in Patients with Non-Cystic Fibrosis Bronchiectasis**/H. Stass, J. Nagelschmitz, D. Kappeler, K. Sommerer, A. Patzlaff, B. Weimann, Wuppertal, Germany, p.A1516
- P1043** **Population Pharmacokinetic (PK) Analysis in Non-Cystic Fibrosis Bronchiectasis (NCFB) Patients Under 32.5 mg bid Intermittent Therapy with Ciprofloxacin Dry Powder for Inhalation (DPI)**/H. Stass, S. Willmann, A. Henningson, Wuppertal, Germany, p.A1517
- P1044** **Non CF Bronchiectasis: The Effect of Inhaled Antibiotics (Tobramycin and Colistin) in Patients with Pseudomonas Aeruginosa in Sputum**/K. Dimakou, A. Liapikou, C. Triantafyllidou, S. Chrysikos, M. Kaponi, M. Melachroinou, A. Gousiou, M. Toubis, Athens, Greece, p.A1518
- P1045** **Neutrophil to Lymphocyte Ratio: Is It Higher in Brochiectasis than COPD?**/Z. Karakurt, P. Sucu, E. Aksoy, S. Gungor, E. Acarturk Tuncay, N. Ciftaslan, M. Agca, I. Ozmen, F. Kargin, I. Irmak, N. Adiguzel, G. Gungor, Istanbul, Turkey, p.A1519

- P1046** **A Quantitative and Qualitative Study to Understand Symptom Burden in Patients with Bronchiectasis**/E. Dudgeon, M. Crichton, G. Scott, S. Finch, T.C. Fardon, J.D. Chalmers, Dundee, United Kingdom, p.A1520
- P1047** **FACED Score as Exacerbation Predictor Among Patients with Non-Cystic Fibrosis Bronchiectasis**/R.K.R. Leal, R. Salles, W. Costa, L. Faria, Rio de Janeiro, Brazil, p.A1521
- P1048** **Are Markers of Eosinophilic Inflammation Able to Identify Subjects with "Concomitant Asthma" in a Group of Non-Cystic Fibrosis Bronchiectasis?**/M.A. Roggi, F.L. Dente, M. Latorre, E. Bacci, C. Cardini, S. Cianchetti, D. Nieri, B. Vagaggini, P. Paggiaro, Pisa, Italy, p.A1522
- P1049** **Cardiovascular Outcomes Following a Respiratory Tract Infection Amongst People with Bronchiectasis: A Population Based Study**/V. Navaratnam, A.A. Root, I. Douglas, L. Smeeth, R. Hubbard, J. Quint, Nottingham, United Kingdom, p.A1523

THEMATIC POSTER SESSION

A41 LAM AND OTHER CYSTIC LUNG DISEASE: CASE REPORTS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area K, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: N. Gupta, MD, Cincinnati, OH

- P1051** **Recurrence of Lymphangioleiomyomatosis After Double Lung Transplantation in a Patient with LAM**/A.M. Taveira-DaSilva, A. Jones, P. Julien-Williams, S. Nathan, O.A. Shlobin, J. Moss, Bethesda, MD, p.A1524
- P1052** **A 45 Year Old Lady Presenting with Bilateral Pneumothoraces**/P.S. Pandya, R. Mathur, London, United Kingdom, p.A1525
- P1053** **A Rare Case Report of Lymphangioleiomyomatosis**/M.V. Patel, Ahmedabad, India, p.A1526
- P1054** **When Cysts Leak: A Case of Recurrent Pneumothorax in Pregnancy**/J. Chae, J.H. Ryu, Rochester, MN, p.A1527
- P1055** **Respiratory Bronchiolitis Associated Interstitial Lung Disease (RBILD)/Desquamative Interstitial Pneumonia (DIP) Presenting as Cystic Lung Disease**/A.E. Nebor, Z. Morris, Detroit, MI, p.A1528
- P1056** **It's Not Always COPD: Pulmonary Hypertension Secondary to Pulmonary Langerhans Cell Histiocytosis**/C. Harden, H. Miskin, Y. Samra, M. Barnes, H. Alnuaimat, A. Ataya, Gainesville, FL, p.A1529
- P1057** **A Female Patient with Birt- Hogg-Dube Syndrome Whose Computed Tomography of the Chest Showed Numerous Pulmonary Cysts Similar to Lymphangioleiomyomatosis**/Y. Sekimoto, K. Nishino, C. Iwabuchi, I. Yamawaki, K. Seyama, K. Takahashi, Saitama, Japan, p.A1530



- P1058** **Disseminated Pulmonary Lymphangiomatosis with Bone Involvement in an Adult Patient/A.** Rajagopal, J. McCormick, Lexington, KY, p.A1531
- P1059** **An Intriguing Case of Pulmonary Langerhans Cell Histiocytosis Following Treatment for Chronic Lymphocytic Leukemia/F.** Siddiqui, S. Nathan, A. Brown, C. King, Roanoke, VA, p.A1532
- Facilitator:** A.S. Kristof, MD, Montreal, Canada
- P1060** **More Than Skin Deep: A Case of Birt-Hogg-Dube Syndrome/Z.** Bham, E. De Moll, H. Sequeira, S. Arfaie, C. Halasz, A. Murphy, Norwalk, CT, p.A1533
- P1061** **Asymptomatic Adult with Congenital Cystic Adenomatoid Malformation of the Lungs/H.** Badi, Y. Abdel-Aziz, M. Davis, A. Ali, M. Taleb, R. Shahnaz, Y. Yoon, Toledo, OH, p.A1534
- P1062** **A Case of Diffuse Panbronchiolitis Following Bronchiectasis/S.** J. Park, S.Y. Park, Y.H. Choe, S.R. Kim, H.B. Lee, Y.C. Lee, Jeonju, Korea, Republic of, p.A1535
- P1063** **A Rare Case of Pulmonary Non-Langerhans Cell Histiocytosis/S.** Castillo, M. Hamblin, Kansas City, KS, p.A1536
- P1064** **Rare Presentation of Congenital Lobar Emphysema in an Adult/M.A.** Zulqarnain, A. Rajasekaran, Lexington, KY, p.A1537
- P1065** **Pulmonary Lymphangiomyomatosis: A Case Report/P.R.** Albuquerque, P.H.C. Vale, R.J.F. Oliveira, R.H. Lima, Natal, Brazil, p.A1538
- P1066** **A Rare Case of Diffuse Cystic Lung Disease/A.** Kadambi, D. Chandy, L. Paul, S. Anand, P.K. Chaudhari, Valhalla, NY, p.A1539
- P1067** **The Etiology of Diffuse Cystic Lung Diseases/K.-F.** Xu, H. Cui, X. Tian, Beijing, China, p.A1540
- P1068** **Benign Hepatic Cyst Herniating Through the Diaphragm Manifesting as a Pulmonary Fluid-Filled Cavitary Lesion/E.S.M.** Oweis, M.P. Schreiber, Washington, DC, p.A1541

THEMATIC POSTER SESSION

A42 NEW DEVELOPMENTS IN ILD RESEARCH

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area J, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: K.E. Black, MD, Boston, MA

- P895** **Patient Reported Outcome Measures in Idiopathic Pulmonary Fibrosis: Analysis from the Australian IPF Registry/H.E.** Jo, I. Glaspole, C. Grainge, N.S. Goh, P. Hopkins, Y. Moodley, P. Reynolds, S. Chapman, E.H. Walters, C. Zappala, H. Allan, G. Keir, A. Hayen, W. Cooper, A. Mahar, S. Ellis, S. Macansh, T.J. Corte, Camperdown, Australia, p.A1542

- P896** **Cough Related Quality of Life in Patients with Idiopathic Pulmonary Fibrosis - Initial Findings from the PROFILE Cohort/P.** Saunders, G. Saini, R.P. Marshall, W.A. Fahy, A.-M. Duggan, A.U. Wells, M.J. Costa, E. Oballa, P. Lukey, R. Braybrooke, P.L. Molyneaux, R. Hubbard, T.M. Maher, R.G. Jenkins, London, United Kingdom, p.A1543
- P897** **Intravenous Cyclophosphamide as a Treatment for Severe Interstitial Lung Disease/P.** Saunders, S. Sharma, M. Kokosi, F. Chua, E.A. Renzoni, A.U. Wells, T.M. Maher, London, United Kingdom, p.A1544
- P898** **Patterns of Cardiac PET with Myocardial Perfusion Scan in Cardiac Sarcoidosis/V.** Kouranos, J.J.H. See, B. Rojas, M. Kokosi, R. Khattar, J. Baksi, R. Underwood, P. Oldershaw, R. Sharma, A.U. Wells, K. Wechalekar, London, United Kingdom, p.A1545
- P899** **Prevalence of Pulmonary Hypertension in Newly Diagnosed Patients with Idiopathic Pulmonary Fibrosis (IPF) Enrolled in the IPF-PRO Registry/J.S.** Sheth, E. Belloli, M. Salisbury, C.H. Holtze, E. Yow, M.L. Neely, C.S. Conoscenti, E.S. White, K.R. Flaherty, Ann Arbor, MI, p.A1546
- P900** **Diagnosis and Treatment of Non-Traumatic Chylothorax Using Advanced Lymphatic Imaging and Percutaneous Lymphatic Embolization/M.** Itkin, G. Nadolski, J. Johnstone, Y. Dori, Philadelphia, PA, p.A1547
- P901** **Clinical Outcomes of Patients with Sarcoidosis After 5 Years Follow-Up in Israel: Differences from the ACCESS Study/D.** Shitrit, G. Epstein Shochet, N. Markevych, L. Israeli-Shani, Y. Levi, Kfar Saba, Israel, p.A1548
- P902** **Clinical Characteristic of Acute Idiopathic Nonspecific Interstitial Pneumonia/H.** Kitamura, H. Yamakawa, S. Ikeda, M. Morita, T. Iwasawa, K. Okudela, T. Takemura, S. Sato, Y. Suzuki, T. Baba, E. Hagiwara, T. Ogura, Yokohama, Japan, p.A1549

Facilitator: N. Patel, MD, Philadelphia, PA

- P903** **Retrospective Analysis of 40 Patients with Cryptogenic Organizing Pneumonia Treated with Clarithromycin and 22 Patients Treated with Prednisone/E.** Radzikowska, E. Wiatr, D. Gawryluk, P. Rudzinski, I. Bestry, R. Langfort, K. Roszkowski-Sliz, Warsaw, Poland, p.A1550
- P904** **Nationwide Cloud-Based Integrated Database with Clinical, Radiological and Pathological Data of Idiopathic Interstitial Pneumonias for Multidisciplinary Discussions/T.** Fujisawa, T. Suda, M. Mikamo, K. Mori, Y. Enomoto, N. Enomoto, Y. Nakamura, T. Ohno, J. Fukuoka, T. Johkoh, Y. Kondoh, H. Taniguchi, N. Inase, S. Homma, Hamamatsu, Japan, p.A1551
- P905** **Description of Diagnostic Processes Undertaken for Patients with Idiopathic Pulmonary Fibrosis Enrolled in the IPF-PRO Registry/C.H.** Holtze, M. Salisbury, J.S. Sheth, E. Belloli, E.S. White, M.L. Neely, E. Yow, V. Gamerman, K.R. Flaherty, Ann Arbor, MI, p.A1552
- P906** **Mycophenolate Versus Placebo for the Treatment of Systemic Sclerosis-Related Interstitial Lung Disease/D.P.** Tashkin, E. Volkmann, M.D. Roth, N. Li, D. Khanna, D. Furst, R. Elashoff, Los Angeles, CA, p.A1553



- P907** **Characterization of CT Scan in Birt-Hogg-Dube Syndrome Compared with Non-BHD Diffuse Cysts Lung Diseases in Chinese Patients/X. Tian, Z. Xu, Y. Liu, Y. Zhan, X. Zhang, K.-F. Xu, Beijing, China, p.A1554**
- P908** **Birt-Hogg-Dube Syndrome Prospectively Detected by Review of Chest Computed Tomography Scans/S.Y. Yang, H.J. Park, C.H. Park, S.E. Lee, G.D. Lee, M.K. Byun, S. Lee, K.-A. Lee, T.H. Kim, S.H. Kim, H.J. Kim, C.M. Ahn, Seoul, Korea, Republic of, p.A1555**
- P909** **Peripheral Alveolar Nitric Oxide Concentration Reflects Macrophage Inflammation of Auto-Immune Pulmonary Alveolar Proteinosis/S. Ohkouchi, T. Hirano, H. Sugiyama, M. Tabata, H. Ogawa, H. Kurosawa, Y. Inoue, R. Tazawa, K. Nakata, M. Ichinose, Sendai, Japan, p.A1556**
- P910** **Sarcoidosis - the Frequency of Extrapulmonary Changes in Patients Diagnosed in the Pulmonary Hospital in Olsztyn/A. Doboszynska, M. Kolis-Zielinska, A. Romaszko, E. Malinowska, Olsztyn, Poland, p.A1557**
- Facilitators:** B.R. Gochuico, MD, Bethesda, MD
T. Kishaba, MD, Okinawa, Japan
- P911** **Significance of Hemosiderin-Laden Macrophages in Bronchoalveolar Lavage to Predict Acute Exacerbation in Idiopathic Interstitial Pneumonias/T. Arai, T. Kagawa, Y. Sasaki, R. Sugawara, C. Sugimoto, K. Tachibana, Y. Fujita, M. Naito, K. Tsuyuguchi, M. Kitaichi, S. Hayashi, Y. Inoue, Sakai, Japan, p.A1558**
- P912** **A Comparison of Current Guideline and Multidisciplinary-Based Working Diagnosis Algorithms in the Diagnosis of Idiopathic Pulmonary Fibrosis/E.P. Judge, J. Jacob, T.M. Maher, E.A. Renzoni, M. Kokosi, A.U. Wells, London, United Kingdom, p.A1559**
- P913** **Unravelling the Mode of Action of Pulsed Inhaled Nitric Oxide in Severe IPF Using Functional Respiratory Imaging (FRI)/B. Hajian, B. Shivalkar, F. Ferreira, C. Van Holsbeke, W. Vos, J. De Backer, D. Quinn, A. Hufkens, P.M. Parizel, J. Clukers, W. De Backer, Antwerp, Belgium, p.A1560**
- P914** **Frequency and Risk Factors Associated to Interstitial Lung Abnormalities (ILA) in Asymptomatic Older (>60 Years) Individuals/I. Buendia-Roldan, K. Martinez-Espinosa, M. Mejia, E. Montes, M. Checa, M. Konigshoff, A. Pardo, M. Selman, Mexico City, Mexico, p.A1561**
- P915** **In Pulmonary Fibrosis Subjects, Smaller Lung Volumes Are Associated with a Greater Lower Esophageal Sphincter Pressure/N. Gaeckle, J. Chen, D. Midani, P. Orthey, H. Parkman, R. Schey, M.S. Smith, G.J. Criner, Philadelphia, PA, p.A1562**
- P916** **Regional Heterogeneity in Autoimmune Features Among Patients with Fibrotic Interstitial Lung Disease/S.W. Bullick, A. Adegunsoye, E. LaFond, R. Vij, I. Noth, M.E. Strek, J.M. Oldham, Sacramento, CA, p.A1563**
- P917** **Interstitial Lung Disease and the Risk of Death: A 6-Year Nationwide Population-Based Study/W.-I. Choi, Daegu, Korea, Republic of, p.A1564**

Facilitator: C.A. Pereira, MD, Sao Paulo, Brazil

- P918** **Hypersensitivity Pneumonitis Associated Mortality in the US/E. Fernandez, D. Sprunger, A. Olson, J.J. Swigris, Denver, CO, p.A1565**
- P919** **Demographic Study of Hypersensitivity Pneumonitis in Egypt: A Single Center Experience/Y. Akl, Y.M.A. Soliman, R.I. El-Korashy, Y.H. El-Hennawi, Cairo, Egypt, p.A1566**
- P920** **Six Patients of Long-Term Survivor with Treatment of Pirfenidone for Idiopathic Pulmonary Fibrosis/T. Katano, H. Kitamura, R. Okuda, H. Yamakawa, S. Ikeda, T. Baba, K. Okudela, T. Takemura, T. Iwasawa, S. Komatsu, E. Hagiwara, T. Ogura, Yokohama, Japan, p.A1567**
- P921** **Using Chitotriosidase as Sarcoidosis Activity Identification Tool/M.C. Lopes, R.F. Lima, L.S. Rodrigues, A.J. Lopes, B. Rangel, F.M. Anselmo, C.H. Costa, T.P. Amadeu, R.L. Rufino, Rio de Janeiro, Brazil, p.A1568**
- P922** **Idiopathic Pulmonary Fibrosis (IPF) Co-Morbidities and Treatment in a Global Survey/A.K. Knight, J.E.D.S. Neto, S.T. Nefteliov, S. Tansey, Durham, NC, p.A1569**
- P923** **Morbidity and Mortality of Surgical Lung Biopsy for Interstitial Lung Disease/A. Frogameni, A. Brueder, K. Raparia, J. Dematte, D.W. Kamp, M.M. DeCamp, R. Raj, Chicago, IL, p.A1570**
- P924** **Smoking-Related Acute Eosinophilic Pneumonia Compared to Idiopathic and Drug-Related Forms/F. De Giacomi, P. Decker, R. Vassallo, J. Ryu, Monza, Italy, p.A1571**

THEMATIC POSTER SESSION

A43 NON-IPF ILD: CLINICAL STUDIES

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area J, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: R. Hallowell, MD, Boston, MA

- P926** **Efficacy and Safety of Low Dose Sirolimus in Lymphangioleiomyomatosis/H. Yoon, J.W. Song, Seoul, Korea, Republic of, p.A1572**
- P927** **Clinico-Radiological Characteristics and Prognosis of Interstitial Pneumonia Associated with Microscopic Polyangiitis/Y. Usui, K. Sugino, A. Suzuki, K. Matsumoto, K. Shibuya, T. Uekusa, S. Homma, Tokyo, Japan, p.A1573**
- P928** **Family History of Autoimmunity in Chronic Hypersensitivity Pneumonitis/D. MacDonald, R. Tomic, H. Kim, M. Bhargava, D. Perlman, Minneapolis, MN, p.A1574**
- P929** **Use of Mycophenolate Mofetil as a Steroid Sparing Agent in Chronic Hypersensitivity Pneumonitis/D. MacDonald, M. Bhargava, R. Tomic, H. Kim, D. Perlman, Minneapolis, MN, p.A1575**
- P930** **Pulmonary Hypertension in Patients with Hypersensitivity Pneumonitis/J. Im, A. Mathur, M. Padilla, S. Dua, New York, NY, p.A1576**



- P931 Dendriiform Pulmonary Ossification in Interstitial Lung Disease/J.R. Castaneda Nerio, A.M. Nambiar, C. Restrepo, San Antonio, TX, p.A1577**
- P932 IgG4-Related Respiratory Disease and Its Mimickers/S. Matsui, S. Minamoto, H. Yamamoto, T. Handa, Y. Waseda, M. Mishima, K. Kubo, Toyama, Japan, p.A1578**
- P933 Characterization of MDA5-Antibody Associated Interstitial Lung Disease Phenotypes/P. Borker, T. Doyle, P. Dellaripa, Boston, MA, p.A1579**
- P934 Interstitial Lung Disease in Patients with Primary Sjogren's Syndrome: Correlation of Radiology, Pathology, and Clinical Phenotype/M. Voortman, E.J. Ter Borg, A.A. Kruijs, T.R. Radstake, P. Zanen, P.A. De Jong, D. Van Den Heuvel, J.C. Grutters, Utrecht, Netherlands, p.A1580**
- P935 Characteristics of Iranian Patients with Pulmonary Alveolar Proteinosis (PAP): A Single Center 11 Year Retrospective Study/A. Abedini, A. Kiani, T. Parsa, M. Pourabdollah Toutkaboni, M. Pourabdollah Tootkaboni, P. Adimi, Tehran, Iran, p.A1581**

Facilitator: C. Johnson, MD, Baltimore, MD

- P936 Understanding the Pulmonary Phenotypes of Patients with Systemic Sclerosis/J. Post, T. Bang, C. Meadows, A. Fischer, T.M. Bull, J.S. Lee, Aurora, CO, p.A1582**
- P937 A Case-Series of Hard Metal Pneumoconiosis/J. Chiarchiaro, D. Kass, K.L. Veraldi, S.M. Nouraie, L.R. Tomsic, J. Sellares, S.A. Yousem, C.R. Fuhrman, K.F. Gibson, Pittsburgh, PA, p.A1583**
- P938 Utility of High Resolution Computed Tomography for Diagnosis of Hypersensitivity Pneumonia/M. Salisbury, B.H. Gross, A. Chughtai, E. Kazerooni, M. Xia, T. Gu, S. Murray, J.L. Myers, A. Lagstein, K.E. Konopka, E. Belloli, J.S. Sheth, E.S. White, C.H. Holtze, K.R. Flaherty, Ann Arbor, MI, p.A1584**
- P939 Clinical Characteristics Of Bronchiolitis Obliterans Organizing Pneumonia After Hematopoietic Stem Cell Transplantation/T.J. An, C.K. Rhee, Seoul, Korea, Republic of, p.A1585**
- P940 Acute Fibrinous and Organizing Pneumonia: One Case Report and Literature Review/H. Zhang, Fuzhou, China, p.A1586**
- P941 Lung Involvement in Erdheim-Chester Disease: An Independent Prognostic Factor?/J.A. Fiala, S.S. Hoskote, M.V. Shah, G. Goyal, C.C. Hook, R.S. Go, R. Vassallo, Rochester, MN, p.A1587**
- P942 Sporadic Obliterative Bronchiolitis: A Case Series and Literature Review/S.J. Callahan, D.C. Gomez, E. Dill, M. Stoler, M. Hanley, L. Flors, B. Mehrad, Charlottesville, VA, p.A1588**
- P943 Risk Factors for Stomatitis in Patients with Lymphangioleiomyomatosis During Treatment with Sirolimus: A Multicenter Investigator-Initiated Prospective Study/K. Nakata, K. Seyama, Y. Inoue, T. Takada, M. Suzuki, T. Tamada, T. Arai, T. Hirai, T. Handa, C. Sugimoto, N. Kitamura, R. Tazawa, Niigata, Japan, p.A1589**
- P944 Clinical Features of IgG4-Related Disease Associated with Lung Involvement/K. Hanaoka, T. Kawamura, N. Hirata, R. Hiraoka, K. Hirano, R. Kominami, S. Takahashi, Y. Fukuda, Y. Onishi, T. Kato, R. Kagami, R. Katsuda, K. Miyake, Y. Yokoi, H. Tsukamoto, Y. Mizumori, S. Sasaki, Y. Nakahara, Himeji City, Hyogo, Japan, p.A1590**

Facilitator: S.E. Hines, MD, MSPH, Baltimore, MD

- P945 Management of Spontaneous Pneumothorax and Safety of Air Travel in Patients with Pulmonary Langerhans Cell Histiocytosis/A. Singla, E.J. Koprass, F.X. McCormack, N. Gupta, Cincinnati, OH, p.A1591**
- P946 Bronchoalveolar Lavage Differential in Chronic Hypersensitivity Pneumonitis: A Meta-Analysis/R. Yang, J. Scott, O. Moran-Mendoza, Kingston, Canada, p.A1592**
- P947 Contribution of the Parameters Measured by the Nitrogen Single-Breath Washout Test in Patients with Systemic Sclerosis/B. Rangel, M.C. Lopes, F. Anselmo, R. Rufino, C. Costa, T.T. Mafor, A.J. Lopes, Rio de Janeiro, Brazil, p.A1593**
- P948 Measurement of Avian Antigen in Household Dust for Management of Chronic Bird-Related Hypersensitivity Pneumonitis/M. Sema, Y. Miyazaki, N. Inase, Tokyo, Japan, p.A1594**
- P949 Radiological pleuroparenchymal fibroelastosis pattern in patients registered for lung transplantation/K. Tanizawa, T. Handa, T. Kubo, T.F. Chen-Yoshikawa, A. Aoyama, H. Motoyama, K. Hijiya, A. Yoshizawa, K. Ikezoe, S. Tokuda, Y. Nakatsuka, Y. Yamamoto, S. Muro, T. Oga, S. Nagai, K. Chin, T. Hirai, H. Date, Kyoto, Japan, p.A1595**
- P950 Analysis of Diagnosis and Therapeutic Effect on Thirty-Seven Subjects with Biopsy-Proven Cryptogenic Organizing Pneumonia/H. Li, Shanghai, China, p.A1596**
- P951 A Role of RAGE and HMGB-1 in Chronic Hypersensitivity Pneumonitis/H. Saito, Y. Miyazaki, H. Furusawa, Y. Yamamoto, H. Yamamoto, N. Inase, Bunkyo, Japan, p.A1597**
- P952 Probe-Based Confocal Laser Endomicroscopy (pCLE) Combined with Endobronchial Ultra Sound (EBUS) for Early Stage Pulmonary Alveolar Proteinosis/T. Souma, T. Okamura, T. Minezawa, S. Morikawa, Y. Goto, M. Hayashi, S. Isogai, K. Imaizumi, Toyoake, Japan, p.A1598**
- P953 Mycophenolate Mofetil Use in Hypersensitivity Pneumonitis: A Retrospective Analysis/R. Prakobkit, G. Garrido, K. Nguyen, S.S. Jacobs, J. Mooney, Stanford, CA, p.A1599**

THEMATIC POSTER SESSION

A44 INTERVENTIONAL PULMONARY: CASE REPORTS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area B, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: K.L. Kovitz, MD, MBA, Elk Grove Village, IL

- P75 Expedited Whole Lung Lavage with the Use of the Level 1® Fast Flow Fluid Warmer/A.K. Mytinger, L. Kumpf, P. Sen, A.I. Saeed, Albuquerque, NM, p.A1600**



- P76 Ice in the ICU: Case Series of Cryobiopsies in Undifferentiated Parenchymal Lung Disease/A.** Tandon, A. Aragaki, R. Balestra, S. Benzaquen, Cincinnati, OH, p.A1601
- P77 A Novel Approach Leads to the Resolution of a Persistent Pneumothorax in a Young Male with Pulmonary Langerhans Cell Histiocytosis/M.** Wert, S. Pinto, H. Shah, Columbus, OH, p.A1602
- P78 Two Stents to Close a Bronchopleural Fistula/B.F.** Rodrigues, Y. Sarda, L. Frye, F.A. Almeida, Cleveland, OH, p.A1603
- P79 A Novel Approach to Resection of an Endobronchial Hamartoma with Sheath-Guided Cryoprobe/F.** Chau-Etchepare, K. Yoneda, N. Stollenwerk, Sacramento, CA, p.A1604
- P80 Perioperative Management of Massive Hemoptysis during a Flexible Bronchoscopy: Case Report and Review of the Literature/J.C.** Segura Salguero, L. Diaz, J.R. Lutz, A.M. Posada, V. Ronderos, Bogota, Colombia, p.A1605
- P81 A Novel Bronchoscope Method (Saline Injection Method) for Complete Extraction of Ruptured Pulmonary Hydatid Cyst/M.E.** Hejazi, S. Tahsini Tekantapeh, S. Hasani, Y. Hejazi, Tabriz, Iran, p.A1606
- P82 A Novel Management of Distal Active Haemoptysis by an Intrabronchial Valve and TISSEEL/C.J.-H.** Pan, D.J. Arnold, T. Saghaie, A. Ing, Concord, Australia, p.A1607
- P83 Endobronchial Embolization for Life-Threatening Hemoptysis with Endobronchial Watanabe Spigot: First Reported Case in Malaysia/S.S.** Kho, S.K. Chan, M.C. Yong, S.T. Tie, Kuching, Malaysia, p.A1608
- P84 Tracheobronchial Stents Insertion Using Telescoping Technique: A Successful Intervention for Post-Pneumonectomy Bronchopleural Fistula/T.** Abdo, C. Hamilton, S.J. Deb, A. Awab, Oklahoma City, OK, p.A1609

Facilitator: J. Puchalski, MD, New Haven , CT

- P85 An Interesting Case of a Successful Autologous Blood Patch Pleurodesis After Iatrogenic Pneumothorax with Persistent Air Leak/M.** Runnstrom, J. Chertoff, J. Wynne, Gainesville, FL, p.A1610
- P86 Re-Expansion Pulmonary Edema as a Complication of Endo-Bronchial Valves Placement/Y.** Dotan, N. Marchetti, G.J. Criner, Philadelphia, PA, p.A1611
- P87 Delayed Diagnosis of Traumatic Left Main Bronchial Fracture Treated with Endobronchial Stenting/V.** Keenan, S.G. John, E. Shostak, J.S. Ilowite, P. Spiegler, Mineola, NY, p.A1612
- P88 Successful Use of Intrapleural Alteplase and Dornase in a Pregnant Woman with Complicated Parapneumonic Effusion/D.E.** Amariei, Y.S. Sangwan, B.-C. Tran, R. Yao, J.N. Kopelman, E.J. Britt, A. Sachdeva, E.M. Pickering, Baltimore, MD, p.A1613
- P89 A Nontraditional Approach to Diagnosing an Elusive Bronchoesophageal Fistula/B.R.** Miller, E. Abramian, Philadelphia, PA, p.A1614
- P90 Bronchoscopic Management of Tracheal Kaposi Sarcoma: Report of a Case with an Unusual Presentation and Evolution/P.S.** Zhu, T. Vandemoortele, Montreal, Canada, p.A1615

- P91 A Rare Complication of Electromagnetic Navigation Guided Bronchoscopy/S.** Baig, O. Pistun, New Brunswick, NJ, p.A1616
- P92 An Unusual Pattern of Pulmonary Involvement of Chronic Lymphocytic Leukemia/J.J.** Yoo, T.J. Harkin, M.B. Beasley, New York, NY, p.A1617
- P93 Cerebral Air Embolism as a Possible Cause of Acute Stroke During Therapeutic Endobronchial Application of Argon Plasma Coagulation/V.** Kanchustambham, S. Patolia, S. Saladi, E. Rakey, St. Louis, MO, p.A1618

Facilitator: A. Majid, MD, Boston, MA

- P94 An Unusual Case of Tracheoesophageal Fistula (TEF) Presenting as Bowel Ileus and Managed with Dual Stenting/A.** Vyas, M. Tatusov, J. Memoli Wang, J. Khalilzadeh, Washington, DC, p.A1619
- P95 Acquired Tracheomalacia Secondary to Excessive Cuff Inflation/W.** Atchley, K.S.S. Kakker, V. Vilensky, N. Meena, Little Rock, AR, p.A1620
- P96 Azygos Continuation of the IVC (ACIV) Mimicking a Mediastinal Mass/S.** Shankar, M. Amith Shenoy, I. Malhotra, P. Chandar, A. Rai, H. Desoky, P. Irukulla, P. Gozenput, B. Shamian, R. Bernstein, C. Seneviratne, Y. Kupfer, Brooklyn, NY, p.A1621
- P97 Successful Recanalization of Complete Left Mainstem Bronchus Occlusion Using Combined Fluoroscopic Wire-Assisted and Bronchoscopic Approach/R.J.** Cho, E. Podgaetz, H.E. Dinner, Minneapolis, MN, p.A1622
- P98 Rescue Self-Expandable Metal Stenting Following Traumatic Tracheal Injury/W.G.** Shakespeare, P. Tsai, V. Bandi, Houston, TX, p.A1623
- P99 Experimental Endobronchial Use of Pneumatic Lithotripter in a Symptomatic Case of Tracheobronchopathia Osteochondroplastica (TO)/A.** Kiani, M. Pourabdollah Toutkaboni, M. Pourabdollah Tootkaboni, A. Tabibi, A. Abedini, Tehran, Iran, p.A1624
- P100 Pneumopericardium During Transbronchial Needle Aspiration/R.** Shrestha, M.K. Zaman, A. Yankovich, Memphis, TN, p.A1625
- P101 A Two Stent Solution to a Critical Left Main Bronchial Obstruction/C.M.** Batzlauff, K. Sakata, J.J. Mullon, R.M. Kern, Rochester, MN, p.A1626
- P102 A Case of Stridor Caused by Bilateral Main Stem Bronchial Obstruction/P.** Charoenpong, D.N. Smith, J. Yun, S. Zulqarnain, Brooklyn, NY, p.A1627

Facilitator: D. Gompelmann, MD, Heidelberg, Germany

- P103 Chylothorax and Trapped Lung Secondary to Pulmonary Coccidiomycosis Treated with Intrapleural Application of Amphotericin B/H.** Edriss, S. Edwards, T. Mahmood, R. Alalawi, Lubbock, TX, p.A1628
- P104 Delayed Mediastinal Hematoma After Intubation/S.** GuntherMaher, A.N. Chary, R.E. Walter, R.C. Holladay, S. Kalanjeri, Shreveport, LA, p.A1629



- P105** **From Afar: A Unique Immigrant to the Mediastinum/U.** Chaddha, P. Patil, R. English, J. Eschbacher, R. Walia, A.C. Mehta, T. Panchabhai, Los Angeles, CA, p.A1630
- P106** **The Ultimate Imitation by the Endemic Mimic/U.** Chaddha, P. Patil, R. English, R. Walia, A.C. Mehta, T. Panchabhai, Los Angeles, CA, p.A1631
- P107** **Management of Post-Pneumonectomy Bronchopleural Fistula Using a Y Dumon Tracheobronchial Stent and a Novel Deployment Technique - a Case Report/M.** Tufail, K. Pannu, S. Bhusari, D. Mukherjee, Leicester, United Kingdom, p.A1632
- P108** **Abrikosoff's Wheeze/D.** Villafuerte, M. Mangat, A. Malave, San Antonio, TX, p.A1633
- P109** **Watch Out Bronchoscopists: Pus Is Not Always an Infection!/D.E.** Pena, S. Venkatram, G. Diaz-Fuentes, Bronx, NY, p.A1634
- P110** **A Young Man with Severe Bronchial Stenosis: To Stent or Not To Stent ? - That Is the Question/Y.S.** Sangwan, N. Leiter, E.M. Pickering, A. Sachdeva, Baltimore, MD, p.A1635
- P111** **C.1309C/T Endoglin (ENG) Gene Mutation Associated Multiple Pulmonary Arteriovenous Malformations Successfully Treated by Endovascular Coiling and Vascular Plugs/Y.** Abdel-Aziz, M. Taleb, C.R. Martin, F. Safi, Toledo, OH, p.A1636
- Facilitator:** F. Maldonado, MD, Nashville, TN
- P112** **Tracheobronchopathia Osteochondroplastica: A Consideration for Association with Malignancy Versus Radiation Exposure/H.** Storer, L. Kallur, G. Hoskere, E.T. Nader, Johnson City, TN, p.A1637
- P113** **Massive Lung Hemorrhage Induced by Exogenous Lipoid Pneumonia Solely Treated with Bronchial Artery Embolization Using Platinum Coil/T.** Niwa, K. Furuuchi, M. Noyama, M. Arita, T. Ishida, Gifu, Japan, p.A1638
- P114** **Administration of Intrapleural Therapy for Thoracic Empyema in the Setting of a Bronchopleural Fistula: A Novel Use of the Intra-bronchial Valve/N.** Leiter, Y.S. Sangwan, E.M. Pickering, J.S. Friedberg, A. Sachdeva, Baltimore, MD, p.A1639
- P115** **Don't Go Breaking My Heart: The Importance of Ultrasound Guidance in Thoracentesis/V.A.** Dines, M.S. Norton, G.E. Thompson, S.S. Hoskote, Rochester, MN, p.A1640
- P116** **Tracheal Nodule - Mucus or Amyloidosis?/Z.** Berg, L. Wesselius, R. Cartin-Ceba, K. Leslie, Scottsdale, AZ, p.A1641
- P117** **A Rare Case of a Fractured PleurX Catheter/A.** Abou Yassine, W. Mansour, D. Elsayegh, Staten Island, NY, p.A1642
- P118** **Stent-Associated Esophagorespiratory Fistula: Connecting More than Just the Dots/J.** Lau, A. Usmani, Chicago, IL, p.A1643
- P119** **A Novel Approach to the Management of a Bronchoesophageal Fistula Caused by a Neoplasm/C.** Kyung, A. Surani, S. Mustafa, M.R. Al-Ajam, P. Belligund, V. Ly, Brooklyn, NY, p.A1644
- P120** **When Watchful Waiting Fails in Bronchopulmonary Fistula/M.** Tornatore, Farmington, CT, p.A1645

THEMATIC POSTER SESSION

A45 INTERVENTIONAL PULMONARY: CLINICAL STUDIES

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area B, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** M.M. Wahidi, MD, MBA, Durham, NC

- P122** **Effect of the Use Spiration Endobronchial Valves on Persistent Air Leaks/A.** McCambridge, D.R. Nelson, R. Kern, Rochester, MN, p.A1646
- P123** **Safety of Bronchoscopy for Patients with Hemodialysis/Y.** Sandhu, K. Ando, H. Takekawa, H. Takagi, M. Hiram, K. Kido, Tokyo, Nerima, Japan, p.A1647
- P124** **An Innovative Strategy for the Emergent Management of Massive Hemoptysis: The Customized Endobronchial Silicone Blocker (CESB)/R.** Godara, R.S. Bhat, A. Singla, S.B. G, R.M. Mehta, Jaipur, Rajasthan, India, p.A1648
- P125** **Sarcoid Like Granuloma in Mediastinal and Hilar Lymph Nodes in Patients with Gynecological Malignancy/B.H.** Lashari, M. Asai, G.A. Randleman, M. Sack, R.R. Patel, Abington, PA, p.A1649
- P126** **Endobronchial Ultrasound: Can It Give Us What We Need for Next Generation Sequencing?/M.** Samant, A.C. Burks, A. Chen, St. Louis, MO, p.A1651
- P127** **Single Port Medical Thoracoscopy Using Optical Biopsy Forceps in Undiagnosed Exudative Pleural Effusion: An Indian Study/D.** Bhattacharyya, Y. Garg, S. Kakar, New Delhi, India, p.A1652
- P128** **Less Is More: The Untold Story of Excessive Lidocaine Use for Elective Bronchoscopy/H.** Abdin, H. Al-azzawi, Z.N. Ahmad, F. Saeed, M. Ghosh, S. Nemargummola, J. Henkle, Springfield, IL, p.A1653
- P129** **How Safe Is Rigid Bronchoscopy? An Audit into the Complication Rates of Rigid Bronchoscopy and Large Airways Intervention in a London Tertiary Centre/H.** Basheer, R. Mirza, E. Shaw, A. Crerar-Gilbert, B. Madden, London, United Kingdom, p.A1655
- Facilitator:** A.C. Mehta, MBBS, Cleveland, OH
- P130** **Pleural Effusion in Patients with Chronic Renal Failure: Is Medical Thoracoscopy Necessary?/V.** D'Emilio, S. Colella, C. Massaccesi, F. Fioretti, G.L. Primomo, G. Panella, R. Pela, Ascoli Piceno, Italy, p.A1656
- P131** **Quality Improvement Initiative in Bronchoscopy Inspired by the AQUIRE Program/K.** Cox, T.J. Harkin, New York, NY, p.A1657



- P132** **Impact of Aspiration Type on EBUS-TBNA and EUS-b-FNA Efficacy in Patients with Mediastinal Adenopathy/I.** Sivokozov, S. Sokolov, N. Li, S. Pavlova, I. Shabalina, D. Sazonov, O. Yun, O. Lovacheva, G. Evgushenko, Moscow, Russian Federation, p.A1658
- P133** **Impact of Aspiration Type on EUS-FNA Efficacy in Patients with Malignant and Benign Mediastinal Lesions/I.** Sivokozov, M. Burdyukov, D. Dedushkin, S. Sokolov, S. Pavlova, E. Artemkin, B. Lensky, I. Yurichev, Moscow, Russian Federation, p.A1659
- P134** **Utility of Therapeutic Lobar Lung Lavage in Pulmonary Alveolar Proteinosis - an Indian Experience/H.** Iyer, A. Athavale, L. Menon, S. Divate, Mumbai, India, p.A1661
- P135** **Safety of Cell-Based Therapy for Nonmalignant Respiratory Diseases: Systematic Review and Meta-Analysis of 23 Clinical Studies/H.-L.J.** Ji, Z. Su, R. Zhao, J. Wu, Tyler, TX, p.A1662
- P136** **The Safety and Feasibility of Re-Treating Patients with Severe Emphysema with Endobronchial Coils: A Pilot Study/J.** Hartman, K. Klooster, N.H.T. Ten Hacken, D.-J. Slebos, Groningen, Netherlands, p.A1663
- P137** **A Unique Pattern of Increased Mucosal Vascularity on Bronchoscopy in Patients with Pulmonary Hypertension and Cardiac Disease/M.** Barry, R.N. Channick, C.L. Channick, Boston, MA, p.A1664

Facilitator: L. Yarmus, DO, Baltimore, MD

- P138** **Spirometric Outcomes Following Intervention of Post-Lung Transplant Related Central Airway Stenosis: The Johns Hopkins Experience/J.** Thiboutot, C. Mallow, W. Justice, D.J. Feller-Kopman, H. Lee, L. Yarmus, Baltimore, MD, p.A1665
- P139** **Transbronchial Bullous Volume Reduction In Chronic Obstructive Pulmonary Disease Patients/D.E.** ElSharawy, A.S. Mohamed, M.M. Hefeda, Tanta, Egypt, p.A1666
- P140** **Collapse Therapy in Non-Resectable Localized Bronchiectasis Using Silver Nitrate/M.K.** El Badrawy, T. Elhadidy, M. Abdel-salam, A.M. Abd Allah, Mansoura, Egypt, p.A1667
- P141** **Endobronchial Ultrasound Features in Benign and Malignant Lymphadenopathy/S.** Agrawal, J. Suri, D. Bhattacharya, S. Chakrabati, M. Sen, A. Gupta, N. Gupta, A. Goel, New Delhi, India, p.A1668
- P142** **Combined Surgical Stapling and Intrabronchial Valves Intervention for Incomplete Lobar Fissures: Proof of Concept Study/F.** Kheir, S. Gangadharan, D. Alape, L. Devore, A. Majid, Boston, MA, p.A1669
- P143** **Pulmonary Hypertension and Transbronchial Lung Biopsy: Does It Increase the Risk of Hemorrhage?/M.** Asai, W. Alswealmeen, A.X. Samayoa, B.H. Lashari, R.R. Patel, Abington, PA, p.A1670
- P144** **Decompression Bronchoscopy for Patients with Hyperinflation Due to Emphysema -9 Month Follow-Up/A.C.** Mehta, A. Kumar, L. Lam, T.R. Gildea, Y. Meli, Cleveland, OH, p.A1671

Facilitator: G.C. Michaud, MD, New York, NY

- P145** **Feasibility and Safety of Flexible Bronchoscopy Performed Via Tracheal Tubes in Patients with Tracheostomies: A Retrospective, Single Center Experience/C.C.** Lee, G. Ferrer, S. Shaharyar, O. Perez, M. Moor, F. Gomez, F. Tse, M. Danckers, Aventura, FL, p.A1672

- P146** **Assessment of Interlobar Fissure Integrity in Patients with Bronchial Valves Due to Prolonged Air Leak/M.** Sierra-Ruiz, C. Ghattas, F. Kheir, E. Folch, A. Majid, Boston, MA, p.A1673
- P147** **Timing and Outcomes of Tracheostomy Performed by Pulmonary/Critical Care Physicians/S.K.** Shah, S. Nishi, W. Zhang, G. Sharma, Galveston, TX, p.A1674
- P148** **Use of Smart Phone in-Built Flashlight as Light Source in Bronchoscopy or Thoracoscopy/V.** Deshmukh, Nagpur, India, p.A1675
- P149** **Diagnostic Feasibility of Peripheral Pulmonary Lesions by Endobronchial Ultrasonography with a Guide Sheath Transbronchial Biopsy for Patients with Interstitial Lung Disease/T.** Ito, H. Taniguchi, Y. Kondoh, T. Kimura, K. Kataoka, T. Yokoyama, Seto, Japan, p.A1676
- P150** **A Self Controlled Study of Endobronchial Optical Coherence Tomography (EB-OCT) for Evaluating Small Airway Disorders in Smokers and Ex-Smokers Compared with One Year Before and After/Y.** Tang, Q. Jian, X. Yang, M. Ding, C. Zhong, Z. Su, Y. Luo, S. Lin, N. Zhong, Guangzhou, China, p.A1677
- P151** **Comparison of Quantitative CT with Chartis Measurement to Assess Collateral Ventilation as Predictor to Success in Endoscopic Lung Volume Reduction with Valves/M.** Schuhmann, D. Gompelmann, K. Kontogianni, K. Russell, R. Eberhardt, C.P. Heussel, J.P. Sieren, F.J.F. Herth, Heidelberg, Germany, p.A1678

THEMATIC POSTER SESSION

A46 EOSINOPHILS AND COPD

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area L, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: P.G. Woodruff, MD, MPH, San Francisco, CA

- P1126** **Effects with Allergic Phenotypes Using Blood Eosinophilic Counts and IgE Levels in Patients with COPD/S.-L.** Cheng, Taipei, Taiwan, p.A1679
- P1127** **Association of CT Measured Pulmonary Artery Size with Blood Oxygen Level and Eosinophil Count in Patients with End Stage COPD/B.** Luijk, E. Pompe, A.J. Besselink, E.-J. Oudijk, E.A. Van De Graaf, J.M. Kwakkel-van Erp, P. Zanen, P.A. De Jong, F.A. Mohamed Hoesen, Utrecht, Netherlands, p.A1680
- P1128** **Cut-Off Value of Blood Eosinophil Count for Identifying Patients with Longer Hospital Length of Stay for COPD Exacerbations/F.W.S.** Ko, K.-P. Chan, J.C. Ngai, S.S. Ng, W.-H. Yip, A. Ip, T.-O. Chan, D.S. Hui, Shatin, New Territories, Hong Kong Prc, p.A1681
- P1129** **Longitudinal Assessment of Blood Eosinophil Counts in a COPD Cohort/K.** Burns, C. Wrona, S. Sethi, Buffalo, NY, p.A1682



P1130 **Peripheral Blood Eosinophil Drop-to-Drop Variation in Patients with COPD Using Near Patient Testing: A Small Validation Study/H.** Jeffers, J. Davies, R. Shrimanker, I. Pavord, R.E. Russell, M. Bafadhel, Oxford, United Kingdom, p.A1683

P1131 **Urine Desmosine Level Correlated to Neutrophil Number but Not Correlated to Eosinophil Number and CRP in COPD Patients/M.** Kato, Kishiwada, Osaka, Japan, p.A1684

Facilitator: N. Putcha, MD, MHS, Baltimore, MD

P1132 **Peripheral Blood Eosinophilia as a Predictor of Severe Chronic Obstructive Pulmonary Disease (COPD) Exacerbations: A Retrospective Study/O.** Hakrushi, M. Shteinberg, S. Scneer, Y. Adir, Haifa, Israel, p.A1685

P1133 **Effect of Aspergillus Sensitization on Patients with Chronic Obstructive Pulmonary Disease (COPD) Without Asthma/R.** Baba, K. Fukunaga, T. Tanosaki, S. Chubachi, T. Kamatani, K. Otsuka, M. Matsusaka, T. Mochimaru, S. Ueda, Y. Suzuki, T. Betsuyaku, Tokyo, Japan, p.A1686

P1134 **Blood Eosinophils and Toward Personalized Prescription of Systemic Steroids for Patients with COPD Exacerbations/A.** Sadigov, S. Akhundov, Baku, Azerbaijan, p.A1687

P1135 **Blood Eosinophils Predict Outcomes in Severe Exacerbations of COPD/A.** Sadigov, Baku, Azerbaijan, p.A1688

P1136 **The Distribution of Blood Eosinophil Count in a COPD Clinical Trials Database: Comparing the USA with the Rest of the World/N.** Barnes, S. Lettis, E. Hilton, Brentford, United Kingdom, p.A1689

THEMATIC POSTER SESSION

A47 NEW CONCEPTS IN COPD EXACERBATIONS

9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area L, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J. Bon, MD, MS, Pittsburgh, PA

P1138 **Severe Acute Exacerbation Using Various Bronchodilator Reversibility Criteria in Chronic Obstructive Pulmonary Disease Patients/J.** Kim, W.J. Kim, C.-H. Lee, S.H. Lee, M.-G. Lee, K.-C. Shin, K.H. Yoo, J.-H. Lee, S.Y. Lim, J.O. Na, H.-G. Hwang, Y. Hong, M.N. Lim, C.-G. Yoo, K.S. Jung, S.-D. Lee, Seoul, Korea, Republic of, p.A1690

P1139 **Relation Between Severe Acute Exacerbations of COPD and Particulate Matter Exposure in a Low Ambient Air Pollution City/M.A.** Pardinias Gutierrez, L.V. Luna Diaz, J. Prospero, K. Balestrini, M.D. Schweitzer, A.M. Guerrero, R. Calderon, N. Kumar, M. Campos, Miami, FL, p.A1691

P1140 **Impact of Virulent Viral Pathogens on Hospital Length of Stay and Readmissions After an Acute Exacerbation of Chronic Obstructive Pulmonary Disease/M.E.** Snyder, C.P. Aaron, R. Regalbuto, N. Yip, M.D. Brinson, M. Daley, B. Regan, B. Thomashow, New York, NY, p.A1692

P1141 **Exacerbation Rates and Recovery Outcomes Following Glucocorticoid Treatment in Outpatients with Chronic Obstructive Pulmonary Disease/P.** Mulhall, J. Leung, A. Criner, S. Dhungana, P. Rali, N. Marchetti, G.J. Criner, Philadelphia, PA, p.A1693

P1142 **Seasonal and Regional Effects on COPD Exacerbation in Patients Without Significant Cardiovascular Risk/J.Y.** So, H. Voelker, H. Zhao, R.M. Reed, D.D. Sin, N. Marchetti, G.J. Criner, Philadelphia, PA, p.A1694

P1143 **Not All Treated COPD Exacerbations Are Associated with a Raised C-Reactive Protein/G.C.** Donaldson, J.P. Allinson, L. Finney, J.A. Wedzicha, London, United Kingdom, p.A1695

P1144 **Exacerbation Rates Over a Two-Year Follow-Up Period in Patients with COPD: The Real-Life DACCORD Cohort/P.** Kardos, R. Buhl, C.-P. Crie, C. Vogelmeier, N.S. Lossi, C. Mailander, H. Worth, Frankfurt, Germany, p.A1696

P1145 **Is Neutrophil Lymphocyte Ratio as a New Inflammatory Marker Different for COPD Patients Either with Exacerbation or with Pneumonia?/E.** Aksoy, Z. Karakurt, I. Ozmen, E. Acarturk Tuncay, M. Agca, F. Kargin, I. Irmak, O. Mocin, H. Berk, N. Adiguzel, Pendik, Turkey, p.A1697

Facilitator: J.M. Wells, MD, Birmingham, AL

P1146 **Bronchial Infection as a Risk Factor for Hospital Readmissions in COPD Patients with Frequent Exacerbations/A.** Rodrigo-Troyano, V. Melo, M. Peiro, A. Alonso, A. Feliu, G. Suarez-Cuartin, I. Solanes, V. Plaza, E. Laserna, P.J. Marcos, M.I. Restrepo, A. Anzueto, O. Sibila, Barcelona, Spain, p.A1698

P1147 **Risk Factors of Chronic Obstructive Pulmonary Disease Re-Hospitalizations in Teaching Hospital Japan/Y.** Nei, H. Nagano, S. Yamashiro, T. Kishaba, Uruma, Japan, p.A1699

P1148 **Exacerbators and Treatment Outcomes of Hospitalised Patients with Chronic Obstructive Pulmonary Disease (COPD) in a Suburban Centre in Nigeria/T.A.** Salami, Ekpoma, Nigeria, p.A1700

P1149 **How Different Is Medication Adherence in Severe COPD Population with High Risk for Exacerbations?/E.** Uzaslan, N. Ozturk, A.G. Dilektasli, E.D. Cetinoglu, F. Coskun, A. Ursavas, M. Karadag, Bursa, Turkey, p.A1701

P1150 **Is the Absence of Purulence Sputum at Exacerbation Useful for Guiding Long-Term Therapy?/J.P.** Allinson, G.C. Donaldson, J.A. Wedzicha, London, United Kingdom, p.A1702

P1151 **Serious Adverse Events of Pneumonia in Patient Subgroups of the Salford Lung Study Chronic Obstructive Pulmonary Disease (SLS COPD) Population/S.D.** Collier, N.D. Bakerly, C. Harvey, J. Crawford, J.P. New, H.F. Elkhenini, G. Cardwell, C. Williams, J. Vestbo, A. Woodcock, D.A. Leather, Uxbridge, United Kingdom, p.A1703

P1152 **Lung Microbiome Analysis and Stochastic Modeling in the AERIS Study Identify Bacterial Profiles and Repetition of Eosinophilic and Bacterial COPD Exacerbations/D.** Mayhew, N. Devos, C. Lambert, J. Brown, M. Magid-Slav, B. Miller, F. Nozay, R. Patel, G. Sathe, D. Simola, K.J. Staples, R. Sung, R. Tal-Singer, S. Van Horn, V. Weynants, J.-M. Devaster, T. Wilkinson, King of Prussia, PA, p.A7711



THEMATIC POSTER SESSION

A48 COPD: ISSUES IN HEALTH CARE DELIVERY**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area L, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** J.A. Krishnan, MD, PhD, Chicago, IL

- P1153 Medication Adherence and Patient-Reported Outcomes in Subjects with Chronic Obstructive Pulmonary Disease/M.** Kusunose, S. Nakamura, K. Senda, K. Nishimura, Obu, Japan, p.A1704
- P1154 Health Care Resource Utilisation Data from SLS COPD/J.** Vestbo, H. Elkhennini, D. Browning, I. Boucot, J. Flemming, R. Boladz, J. Crawford, S. McCorkindale, J.P. New, Manchester, United Kingdom, p.A1705
- P1155 Practice Patterns and Care Gaps According to COPD Physician Diagnosis in Primary Care/W.** Alsowayan, Montreal, Canada, p.A1706
- P1156 The Communication Gap Between Patients with COPD and Pulmonologists Regarding Inhalation Delivery Devices: Results from Paired On-Line Surveys/J.** Ohar, S.S. Braman, B. Carlin, R. Dhand, N. Hanania, D.A. Mahler, V. Pinto-Plata, D. Eubanks, Winston-Salem, NC, p.A1707
- P1157 Electronic Medical Record Inaccuracies: A Multi-Center Analysis of the Challenges for Population-Based Lung Cancer Screening/C.C.** Fuller, C.L. Wilshire, C.R. Gilbert, J.T. Fathi, J.R. Handy, K.E. Costas, B.E. Louie, R.W. Aye, A.S. Farivar, E. Vallieres, J.A. Gorden, Seattle, WA, p.A1708
- P1158 Impact of Device Type and Patient Demographics on Compliance with a Telemedicine-Based Disease Management Program in COPD/A.** Criner, H. Smith, V. Tauch, C. Grabianowski, M.J. Markus, A. Rastogi, Z. Smith, G.J. Criner, Philadelphia, PA, p.A1709
- P1159 Bronchial Artery Embolisation in the Management of Hemoptysis: Experience from an Indian Tertiary Care Centre/D.** Bhattacharyya, V. Rastogi, Y. Garg, New Delhi, India, p.A1710
- P1160 Initial Clinical Experience Using 3D Printing and Patient-Specific Airway Stents: Compassionate Use of 3D Printed Patient-Specific Airway Stents/B.P.** Young, M.S. Machuzak, T.R. Gildea, Cleveland, OH, p.A1711
- P1161 EBUS with 19G exCelon Core Needle in Evaluation of Sarcoidosis/A.** Biswas, J. Wynne, D. Patel, P.S. Sriram, Gainesville, FL, p.A1712
- P1162 A Software Tool for Automatic Tracheobronchial Y Stent Planning/M.** Pedrero De La Puenta, G. Vegas Sanchez-Ferrero, R. San Jose Estepar, Boston, MA, p.A1713

Facilitator: R.A. Mularski, MD, MSHS, MCR, Portland, OR

- P1163 Lung Ultrasound Evaluation Immediately Post Placement of Endobronchial Valves in Patients with Advanced Emphysema/M.** Kousha, C. Kim, P. Desai, G.J. Criner, Philadelphia, PA, p.A1714
- P1164 Do Community Demographics, Environmental Characteristics and Access to Care Affect the Risk of Developing COPD in People with Asthma?/T.** To, J. Zhu, C. Carlsten, K. Larsen, K. Ryckman, L.Y. Feldman, E. Crighton, M.D. Loughheed, C. Licskai, P.J. Villeneuve, Y. Su, M. Sadatsafavi, N. Gray, A.S. Gershon, Toronto, Canada, p.A1715
- P1165 Disarray in the Acute Exacerbation of COPD (AECOPD) Length of Stay (LOS): A Novel Scoring System for Acute Inpatient Management to Rein in LOS/R.** Rajmane, S. Kadura, M. Abdelfattah, A. Daggan, A. Obeidat, Brooklyn, NY, p.A1716
- P1166 Effective Components of a COPD Bundle in Reducing Readmissions/M.** Frank, N. Ramesh, M. Islam, N. Bhogal, P. Walker, M. Harris, New York, NY, p.A1717
- P1167 Can an Emergency Department Observation Unit Reduce Hospital Admissions for COPD Exacerbation?/J.B.** Gutteridge, J. Yeo, S.S. Braman, New York, NY, p.A1718
- P1168 Evaluation of Cost-Effectiveness of Automated Titration and Weaning of Oxygen (FreeO₂) Compared to Usual Manual Oxygen Titration in Acute Exacerbation of COPD/T.** Poder, C. Kouakou, P.-A. Bouchard, V. Tremblay, S. Blais, F. Maltais, F. Lellouche, Sherbrooke, Canada, p.A1719
- P1169 Impact of Pulmonary Consultation on Discharge Coding and Management of Hospitalized Patients with Admission Diagnosis of COPD Exacerbation/D.** Connolly, S. Arfaie, Z. Bham, J. Fine, Norwalk, CT, p.A1720
- P1170 Who Is Taking Care of People with Chronic Obstructive Pulmonary Disease?/E.E.** Cho, G.C. Mecredy, A.S. Gershon, Toronto, Canada, p.A1721
- P1171 Feasibility and Clinical Impact of Deploying a Digital Health Intervention on a Medicare Population with Asthma or Chronic Obstructive Pulmonary Disease (COPD)/J.** Chen, S. Jones-Ford, S. Goeldi, M.A. Barrett, D. Van Sickle, Miami, FL, p.A1722
- P1172 Multidisciplinary Approach to Non-Invasive Ventilation in Severe COPD Patients: A Pilot Study/D.** Cheung, C. Theunisse, N. De Graaf, M. Scholten-Bakker, S.P. Willemsen, H. Ponsen, Dordrecht, Netherlands, p.A1723
- Facilitator:** R. Benzo, MD, MSc, Rochester, MN
- P1173 "High Risk" Patients with Chronic Obstructive Pulmonary Disease(COPD) Have a Poor Prognosis and Need to Be Able to Access Palliative Care Services/Q.A.** Syed, M. Apps, D. Mukeyherjee, M. Nkere, S.A. Aneke, J. Minter, Basildon, United Kingdom, p.A1724
- P1174 COPD in Patients 90 Years of Age and Older Residing in Inner-City Chicago: Preliminary Observations/M.** Tole, I. Rubinstein, D.R. Fraidenburg, Chicago, IL, p.A1725



- P1175 Preference Differences Between Patients and Pulmonologists Regarding Inhalation Devices for COPD/D. Mahler, S.S. Braman, B. Carlin, R. Dhand, N. Hanania, J. Ohar, V. Pinto-Plata, D. Eubanks, Hanover, NH, p.A1726**
- P1176 Are Patients and Physicians on the Same Page? Results of a Survey Regarding Gaps in Knowledge Among Patients with COPD and Pulmonologists on Nebulizer Therapy/V. Pinto-Plata, S.S. Braman, B. Carlin, R. Dhand, N. Hanania, J. Ohar, D.A. Mahler, D. Eubanks, Springfield, MA, p.A1727**
- P1177 Non-Pulmonary Physician Have Not Sufficiently Assessed Patients with Obstructive Lung Disease in a Japanese Hospital/G. Saito, K. Yoshioka, E. Suzuki, M. Katsumata, T. Kobayashi, A. Kondo, Y. Miki, D. Hashimoto, H. Nakamura, Hamamatsu, Shizuoka, Japan, p.A1728**
- P1178 Exacerbations and Healthcare Resource Utilization in Patients with Airflow Limitation Diseases Attending a Primary Care Setting: The PUMA Study/M. Montes De Oca, C. Aguirre, M.V. Lopez Varela, M. Laucho-Contreras, A. Casas, F.A. Surmont, Caracas, Venezuela, p.A1729**
- P1179 Research of Immunisation Status in COPD in Turkey (RIMPACT Study)/T. Ozlu, Y. Bulbul, D.C. Aydin, D. Tatar, T. Kuyucu, F. Erboy, H. Inan, C. Anar, A. Sunnetcioglu, P.Y. Gulhan, U. Sahin, A. Ekici, S. Duru, S.S. Ulasli, E. Kurtipek, S. Gunay, Trabzon, Turkey, p.A1730**
- P1180 Integrating Respiratory Services Reduces the Need for Hospital Admissions and Improves Patient Care/M. Apps, D. Mukherjee, S. Abbas, J. Minter, J. Whitfield, S. Brooker, C. Goodrich, I. Young, A. Kopacz, H. Hill, L. Ateli, P. Rosier, T. Gisby, K.-A. Keeling, J. Downham, C. Wigmore, J. Finney, S. Webb, B. Hawkes, M. Haigh, S. Field, P. Bannister, S. Barfield, H. Olympio-anang, D. Carter, S. Pearce, Billericay, United Kingdom, p.A1731**
- P1181 Intermediate Care Facility (ICF) Transfer Is a Risk for Multiple Chronic Obstructive Pulmonary Disease (COPD) Thirty Day (30D) Readmissions/J. Glaser, D. Pau, M. Jarrett, M. Iannuzzi, Staten Island, NY, p.A1732**
- P1182 A Single Center Approach to Reduce Care Variation in COPD/T. Mahayni, H. Latham, Kansas City, KS, p.A1733**
- Facilitator:** J. Bourbeau, MD, Montreal, Canada
- P1183 Does the Time Between Emergency Department (ED) Triage and Administration of Nebulizer Therapy Impact the Decision to Admit Patients for Acute Chronic Obstructive Pulmonary Disease (COPD) Exacerbation?/E.M. Elamin, A. Kornicki, E. Schwaiger, M. Molina-Lopez, A. Van Vilet, Tampa, FL, p.A1734**
- P1184 Guiding Treatment of Mild-to-Moderate COPD Exacerbations with the Use of Clinic Order Sets/C. Chan, J. Houston, W. Warren, A. Shahmohammadi, L. Nichols, R. Markert, T. Donnelly, Dayton, OH, p.A1735**
- P1185 A Computer Guided Consultation in Standardizing COPD Care: Observations in a Real Life Setting/R.M. Angus, L. Davies, E. McKnight, K. Sergeant, M.G. Pearson, Liverpool, United Kingdom, p.A1736**
- P1186 Impact of Coordinated Outpatient Care on the Outcomes of Patients with COPD/S. Mansoor, L. Ballowe, F. Hickey, A.R. Campbell, E. Gay, N. Malik, Y.M. Shim, Charlottesville, VA, p.A1737**
- P1187 Exploring Health Care Providers' Practice Gaps in Prescribing Inhalation Delivery Devices for the Management of COPD: Results from the Delivery Makes a Difference (DMaD) Survey/N. Hanania, S.S. Braman, J. Ohar, S. Adams, A. Ari, S. Sanjar, J. Brooks, J. Peters, R. Adewuya, Houston, TX, p.A1738**
- P1188 Self-Management as Measured by the CRQ-Mastery Score Is an Independent Predictor of COPD Readmissions/S. Mirza, P. Novotny, R. Benzo, Rochester, MN, p.A1739**
- P1189 Determining the Prevalence of COPD in Primary Care Setting by Using a Telemedicine Spirometry Program. A Screening Study/N.E. Guzman-Bouilloud, A. Ramirez-Venegas, R.H. Sansores-Martinez, O. Perez Bautista, C. Sanchez-Romero, M. Velazquez Uncal, C. Aguilera-Arellano, Mexico City, Mexico, p.A1740**
- P1190 Adherence to Treatment Guidelines for COPD: A Comparison of 2 Centers/R.A. Calderon-Candelario, S. Edgerton, M. Rittinger, J.M. Ortega, M. Carrasquillo, P. Diaz, M. Campos, Miami, FL, p.A1741**
- P1191 The Influence of the Social Support on the Treatment of Chronic Obstructive Pulmonary Disease/D.G.B. Montalverne, G.F.G. Prudente, V.F. Spinosa, M.A.M. Nakamura, J.J.R. Nogueira, M.T.A.P. Morano, Fortaleza - Ceara, Brazil, p.A1742**
- P1192 Map the Gap: Using Regional Mapping to Compare Pulmonologists Workforce to Chronic Obstructive Pulmonary Disease Prevalence Geographically/M. Rachid, A. Shah, K. Ahmad, A. Krikorian, Oak Lawn, IL, p.A1743**

THEMATIC POSTER SESSION

A49 ISSUES IN COPD

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area L, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: D.M. Mannino, MD, Lexington, KY

- P1194 Seasonal and Regional Effects on Systemic Inflammation in Patients with COPD/J.Y. So, W. Cornwell, T. Rogers, H. Zhao, H. Voelker, R.M. Reed, D.D. Sin, N. Marchetti, G.J. Criner, Philadelphia, PA, p.A1744**
- P1195 Pulmonary Complications After Abdominal Surgery in Patients with Mild-to-Moderate Chronic Obstructive Pulmonary Disease/T.H. Kim, J.S. Lee, S.W. Lee, Y.-M. Oh, Songpa-gu, Seoul, Korea, Republic of, p.A1745**
- P1196 Ambient Air Pollution and Pulmonary Vascular Structure: The MESA Lung and Air Pollution Studies/C.P. Aaron, E.A. Hoffman, K.D. Hinckley Stukovsky, J.H.M. Austin, K.D. Watson, M.J. Budoff, S.M. Kawut, C. Sack, A. Szpiro, J.D. Kaufman, R.G. Barr, New York, NY, p.A1746**



- P1197 Emphysema in South African Miners at Autopsy, 1975-2014/S.L. Mabila, K. Almqvist, L. Friedman, N. Ndlovu, N. Vorajee, J. Murray, R.A. Cohen, Chicago, IL, p.A1747**
- P1198 The Association of Airflow Limitation with Occupational Exposures in a Sample of Rural Adults in Iowa/P.K. Henneberger, M.J. Humann, X. Liang, B.C. Doney, K.M. Kelly, J.M. Cox-Ganser, Morgantown, WV, p.A1748**
- P1199 The Occupations at Increased COPD Risk in the Large Population-Based UK Biobank Cohort/S. De Matteis, D. Jarvis, A. Darnton, L. Rushton, P. Cullinan, London, United Kingdom, p.A1749**
- P1200 Radiological Features of Structural Basis Where Cancer Develops in COPD Lungs/S. Chubachi, S. Takahashi, H. Irie, A. Tsutsumi, N. Kameyama, M. Sasaki, K. Naoki, K. Soejima, H. Nakamura, K. Asano, T. Betsuyaku, Tokyo, Japan, p.A1750**
- P1201 Lung Cancer Resection and Postoperative Outcome in Patients with Mild to Moderate Chronic Obstructive Pulmonary Disease/E. Roy, J. Rheault, M.-A. Pigeon, Y. Lacasse, F. Maltais, P. Ugalde, Quebec, Canada, p.A1751**
- P1202 The Effect of Particulate Matter on Admission of COPD and Asthma in Shijiazhuang City/Y.X. Xin, M.D. Yang, Shijiazhuang, China, p.A1752**
- P1203 Chronic Obstructive Pulmonary Disease Mortality in Sub-Saharan Africa and the Caribbean/J.I. Obi, A. Mehari, R. Gillum, Washington, DC, p.A1753**

Facilitator: C.E. Berry, MD, Tucson, AZ

- P1204 Are There Gender Differences in COPD? Two-Year Follow-Up of Patients in the Real-life DACCORD Cohort/C.-P. Criepe, P. Kardos, C. Vogelmeier, R. Buhl, N.S. Lossi, C. Mailander, H. Worth, Bovenden, Germany, p.A1754**
- P1205 Undiagnosed COPD in Patients with Newly Diagnosed Lung Cancer/H. Watanabe, T. Shirai, K. Asada, S. Morita, T. Akita, Y. Shishido, A. Yamamoto, T. Akamatsu, M. Saigusa, R. Noguchi, T. Suzuki, Y. Shimoda, Y. Endo, Y. Tanaka, Shizuoka, Japan, p.A1755**
- P1206 Clinical Characteristics of COPD Patients on Home Oxygen Therapy in Korea: A Cross-Sectional Survey/Y.I. Hwang, S.H. Jang, S. Park, J.Y. Park, S.Y. Lim, K.H. Yoo, K.-S. Jung, C.K. Rhee, K.H. Min, Anyang-si, Korea, Republic of, p.A1756**
- P1207 Epidemiological and Clinical Aspects of COPD in Malagasy Patients Using the Malagasy Spirometric Reference Values (MSRE)/J. Ratomaharo, O. Linares Perdomo, D. Collingridge, D. Rakotonanahary, M. Randriantahiry, R. Ranaivoson, M. Hegewald, R. Jensen, A. Morris, Antony, France, p.A1757**
- P1208 Identify COPD Phenotypes - a Challenge in Clinical Practice/T.P. Bartholo, C.H. Costa, R.R. Alves, A.P. Nascimento, B.B.G.R. Bartholo, V.P. Bastos, M. Schmid, L.C. Porto, Rio de Janeiro, Brazil, p.A1758**
- P1209 Use of Artificial Intelligence and Traditional Methods in the Miss Diagnosis of COPD/A.R. Bastidas Goyes, D. Botero Rosas, Bogota, Colombia, p.A1759**

- P1210 Risk Factor of Decline in Forced Expiratory Volume in One Second Among Visitors with Obstructive Pulmonary Dysfunction Found in Medical Checkup/N. Nishimura, T. Tanigawa, H. Nakaoka, M. Fukakusa, K. Ishii, R. Tsugitomi, K. Okafuji, A. Kitamura, Y. Tomishima, N. Uchiyama, T. Jinta, N. Chohnabayashi, T. Tamura, Tokyo, Japan, p.A1760**
- P1211 The Impact of Air Pollution on the Progression of Asthma to COPD in Women: A Longitudinal Cohort Study/T. To, J. Zhu, L.Y. Feldman, P.J. Villeneuve, C. Liciskai, A.S. Gershon, K. Larsen, S.D. Glockler-Lauf, A.B. Miller, Toronto, Canada, p.A1761**
- P1212 Occupational and Biomass Risk Factors for Emphysema in Middle-Aged and Elderly Never-Smokers Without Chronic Airflow Limitation/W.C. Tan, J. Bourbeau, J.A. Leipsic, C.J. Hague, S.D. Aaron, D. Marciniuk, F. Maltais, P. Hernandez, D.E. O'Donnell, J.D. Road, H.O. Coxson, M. Kirby, J.C. Hogg, B.L. Walker, K.R. Chapman, J.M. Fitzgerald, D.D. Sin, Vancouver, Canada, p.A1762**
- P1213 Prevalence and Determinants of Chronic Obstructive Pulmonary Disease in a Rural Area in Cameroon/B.H. Mbatshou Ngahane, F. Ebanga, Y. Nnomo, N. Essomba, E. Afane Ze, Douala, Cameroon, p.A1763**

THEMATIC POSTER SESSION

A50 CRITICAL CARE: GETTING STRONGER - MEASURING AND IMPROVING FUNCTION IN ICU SURVIVORS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area E, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: D. Needham, MD, Baltimore, MD
A.E. Turnbull, DVM, MPH, PhD, Baltimore, MD

- P513 Activity Assessed by Wrist Actigraphy in the ICU: Are Mechanically Ventilated and Sicker Patients More Inactive?/P. Gupta, J.L. Martin, D. Needham, M.K. Ong, B. Kamdar, Los Angeles, CA, p.A1764**
- P514 Physical Functional Intensive Care Test (PFIT) and De Morton Mobility Index (DEMMI): Cross Cultural Validation and Reliability of the Brazilian Portuguese Version/V. Da Silva, R. Pires-Neto, L. Vieira, N. De Morton, L. Denehy, S.M. Parry, Brasilia, Brazil, p.A1765**
- P515 Functional Mobility Scores and Discharge Disposition in the Parkland MICU: A Descriptive Study/D.H. Yang, M. Weinreich, S. Dickason, J. Herman, J. Brown, M. Leveno, Dallas, TX, p.A1766**
- P516 Characterization of Frailty Syndrome According to Fried Criteria in Patients Eligible for Cardiac Surgery/D.A. Vento, C. Bottura, L. Arcencio, H.M.A. Chagas, P.R.B. Evora, A.J. Rodrigues, Ribeirao Preto - SP, Brazil, p.A1767**



- P517** **Early Development of Quadriceps Weakness in Ventilated Patients**/D. Aleksonis, G.F. Sferazza Papa, H. Shaikh, K. Hammond, G. Pellegrino, A. Jubran, M. Tobin, F. Laghi, Hines, IL, p.A1768
- P518** **Contribution of Muscle Wasting to Muscle Weakness in Patients Requiring Prolonged Mechanical Ventilation**/R. Mehta, F. Laghi, L.A. Duffner, C. Burdinie, D.S. Platou, R. Arena, M. Tobin, A. Jubran, T. Weaver, Hines, IL, p.A1769
- P519** **Is Impairment Similar Between Arm and Leg Muscle Thickness and Echointensity in Critically Ill Traumatic Brain Injury Patients?**/L. Vieira, V. Da Silva, L. Gomes, P.E. Silva, G. Cipriano Jr, P.F. Melo, S.M. Parry, L. Denehy, J.L. Durigan, Brasilia, Brazil, p.A1770
- P520** **Physical Therapy Fails to improve Quadriceps Muscle Strength in Mechanically Ventilated Patients**/E.N. Valentine, P.F. Netzel, L.A.P. Callahan, G.S. Supinski, Mount Vernon, KY, p.A1771

Facilitators: M.E. Kho, PT, PhD, Hamilton, Canada
S.E. Jolley, MD, MSc, New Orleans, LA

- P521** **Use of the Free Cadence Cycle Ergometer in Critical Patients: Effects on Balance**/Y. De Souza, D. Coelho, S.F. Carvalho, M. Calomeni, F. Saddy, R. Costa, Rio de Janeiro, Brazil, p.A1772
- P522** **Implementation of an Early Mobility Algorithm in a Neurosurgical Intensive Care Unit**/K. Raines, J. Singh, B. Amato, J. Retelski, Charlotte, NC, p.A1773
- P523** **The Role of Rehabilitation Leadership in a Multidisciplinary Intensive Care Lung Rescue Unit: Our Experience at the University of Maryland Medical Center**/K.S. Omanwa, C.L. Wells, J. Menaker, D. Johnson, Baltimore, MD, p.A1774
- P524** **Integrating the Critical Care Physiotherapy Workforce in UK Critical Care Research**/B. Connolly, N. Pattison, M. Shaw, P. Dark, London, United Kingdom, p.A1775
- P525** **Estimating Oxygen Consumption From Minute Ventilation (V_e) During Rehabilitation In Mechanically Ventilated Patients Recovering From Critical Illness**/C. Black, M. Singer, M. Grocott, London, United Kingdom, p.A1776
- P526** **Patients with More Ventilator Free Days Achieve a Greater Percentage of Registered Dietitian Protein Recommendations for Enteral Feeding over the First Two Weeks of Medical ICU Admission**/M.G. McCusker, M. Serra, A.C. Verceles, Baltimore, MD, p.A1777
- P527** **Assessing Calorie and Protein Recommendations for Survivors of Critical Illness Weaning from Prolonged Mechanical Ventilation - Can We Find a Proper Balance?**/S. Balasubramanian, M. Serra, M. Diaz-Abad, J. Deepak, Y. Geraschenko, C. Kigaya, G. Netzer, M.T. McCurdy, A.C. Verceles, Baltimore, MD, p.A1778

Facilitators: B. Connolly, BSc(Hons), MSc, PhD, London, United Kingdom
P.E. Morris, MD, Lexington, KY

- P528** **Factors Associated with Vulnerability After Hospitalization in Critically Ill Adults at High Risk of Acute Respiratory Distress Syndrome**/A.A. Hope, Y. Wu, J.-T. Chen, D. Kaufman, D.J. Kor, O. Gajic, M.N. Gong, Bronx, NY, p.A1779

- P529** **Functional Status After a Burn ICU Stay**/T.B. Figueiredo, R.C. Pires-Neto, Sao Paulo, Brazil, p.A1780
- P530** **Late Mobilization: In Hospital Physical Therapy After Intensive Care Unit Transfer**/L.A.P. Callahan, A.P. Kelly, G.S. Supinski, Lexington, KY, p.A1781
- P531** **Functional Status at Discharge from Long-Term Acute Care Hospital Is Not Associated with Baseline Functional Status**/E. Magno, T.V. Quinn, R. Balk, J.A. Greenberg, Chicago, IL, p.A1782
- P532** **The Effect of Acute Illness on the Course of Chronic Disease: The Example of Multiple Sclerosis**/A. Garland, L. Metz, R.A. Marrie, Winnipeg, Canada, p.A1783
- P533** **Relationship Between Age and Functional Impairment in a Critical Care Recovery Center**/C. Mosher, S. Wang, K. Kirk, C. Reynolds, S. Lasiter, S.H. Khan, M. Boustani, B.A. Khan, Indianapolis, IN, p.A1784
- P534** **Determinants of Depressive Symptoms at One Year After Intensive Care Unit (ICU) Discharge in Survivors of $\geq$ Seven Days of Mechanical Ventilation: Results from the RECOVER Program**/M. Hamilton, G. Tomlinson, L. Chu, P. Robles, A. Matte, S. Burns, C. Thomas, F. Lamontagne, N.K. Adhikari, N. Ferguson, J.O. Friedrich, J. Rudkowski, Y. Skrobik, J. Cameron, M.S. Herridge, Toronto, Canada, p.A7574
- P535** **The Effects of High Protein Intake and Mobility-Based Rehabilitation on Ventilator Weaning and Discharge Status in Survivors of Critical Illness**/S.R. Wappel, O. Ali, E. Parker, A.C. Verceles, Baltimore, MD, p.A7575

THEMATIC POSTER SESSION

A51 CRITICAL CARE: RISK STRATIFICATION AND PROGNOSTICATION - FROM BEDSIDE TO BIG DATA

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Area E, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: H. Wunsch, MD, MSc, Toronto, Canada
I. Barbash, MD, Pittsburgh, PA

- P537** **Berlin Definition of the Acute Respiratory Distress Syndrome: It's Not Just the Radiographic Criteria with Low Reliability**/M.W. Sjoding, I. Co, T.P. Hofer, T.J. Iwashyna, Ann Arbor, MI, p.A1785
- P538** **Predictors of Bacteremia from the Complete Blood Count in Patients in the Intensive Care Unit**/N. Maniar, R. Cavallazzi, Louisville, KY, p.A1786
- P539** **Procalcitonin: Is It Equally Useful in Neutropenic Patients?**/T. Pandya, M. Hanna, R. Sekhon, Z. Ghazarian, Z. Syed, M. Ismail, Paterson, NJ, p.A1787



P540 **Influence of Socioeconomic Status, Language Proficiency, and Positive Cultures on Survival of Septic Patients Requiring ICU Care/R. Mocerino, V. Kaul, M. Warshawsky, Elmhurst, NY, p.A1788**

P541 **Risk and Outcomes for ARDS in HIV Infected Patients with Sepsis Due to Pneumonia/C. Terry, T.R. Dammalapati, G.S. Martin, A. Esper, Atlanta, GA, p.A1789**

P542 **Effect of Body Mass Index on Outcomes in Mechanically Ventilated African American Patients in a Medical ICU: A Retrospective Study/S. Kandel, S. Pandey, P. Kharel, P. Datar, O. Abdulfattah, S. Ghosh, S. Roy, M. Khalid, A. Lixon, D. Salhan, D. Enriquez, J. Quist, M.F. Schmidt, Brooklyn, NY, p.A1790**

P543 **Characteristics, Management and Outcomes of Patients with Invasive Candidiasis: A Prospective Cohort Study in Two Tertiary-Care Intensive Care Units/H.M. Al-Dorzi, H. Sakkiha, T. Aldabbagh, R. Khan, A. Toledo, P. Ntinika, S. Al Johani, A. Almutairi, S. Khalil, F. Siddiqui, Y.M. Arabi, Riyadh, Saudi Arabia, p.A1791**

P544 **Admission Rate and Outcome of Patients with Major Psychiatric Disorders in the Intensive Care Unit/D.A. King, E. Hussein, Y. Bar-Lavie, Haifa, Israel, p.A1792**

Facilitators: A. Ahasic, MD, MPH, Norwalk, CT
R. Kashyap, MBBS, Rochester, MN

P545 **The Effect of Chronic Hepatitis C Infection in Patients Requiring Intensive Care Unit Admission/S. Pasha, A. Kelly, A. Puranik, E.P. Cassity, P.E. Morris, Lexington, KY, p.A1793**

P546 **The Association Between Antibiotics, Fluid Therapy and Patient Outcome/S. Blau, R.S. Spector, West Islip, NY, p.A1794**

P547 **Sepsis Management: The Association of Antibiotics Prior to the Recognition of Sepsis and Patient Outcome/R.S. Spector, S. Blau, West Islip, NY, p.A1795**

P548 **Extended Spectrum Beta-Lactamase Infection: Determining Risk Factors for Mortality/J.D. Price, R.Y.H. Kim, N. Maniar, T. Rahman, Y. Kothari, R. Pearce, R. Cavallazzi, Louisville, KY, p.A1796**

P549 **Timely Interventions and the Hospital Mortality/A. Minami, M.I. Shafi, T. Minami, Pawtucket, MA, p.A1797**

P550 **Relationship Between Vancomycin Minimum Inhibitory Concentrations and Clinical Outcomes in Methicillin-Sensitive Staphylococcus Aureus Bacteremia/E.S.M. Oweis, C.J. Woods, A.F. Shorr, Washington, DC, p.A1798**

P551 **A Novel Fluid Resuscitation Protocol for the Treatment of Severe Sepsis/Septic Shock in the Intensive Care Unit/G. Stanley, E. Horn, A. Mytinger, M. Boivin, W. Demaray, R. Crowell, S. Ahmed, Albuquerque, NM, p.A1799**

Facilitators: C.R. Cooke, MD, MSc, Ann Arbor, MI
J. Stevens, MD, Boston, MA

P552 **Impact of Early Aggressive Volume Resuscitation in Septic Patients Admitted to a Hospital Ward/T. Keller, J.H. Chen, A. Rogers, Stanford, CA, p.A1800**

P553 **Normal Saline Vs Normosol in the Resuscitation of Septic Patients: A Retrospective Cohort Study/R.A. Duffy, D. Smith, S. Ie, J. Nogueira, M. Foroozesh, A. Loschner, Roanoke, VA, p.A1801**

P554 **Safety and Efficacy of Procalcitonin Guidance in Patients with Suspected or Confirmed Sepsis: A Systematic Review and Meta-Analysis/A. Claxton, P. Thompson-Leduc, N. Kirson, B. Rice, J. Hey, I. Iankova, A. Krause, S. Schonfeld, C. DeBrase, S. Bozzette, P. Schuetz, Durham, NC, p.A1802**

P555 **A Pilot Study of Cortical Oxygenation in Septic Shock by Time-Resolved Near-Infrared Spectroscopy/C.W. Lanks, C.B. Kim, J. Fu, D. DaCosta, D.W. Chang, D. Hsia, W.W. Stringer, H.B. Rossiter, Torrance, CA, p.A1803**

P556 **Use of Cerebral Oximetry as a Noninvasive Tool of Resuscitation in Sepsis in Our ICU: An Observational Study/P. Vishwasrao, M. Mansour, Stony Brook, NY, p.A1804**

P557 **Red Blood Cell Adenosine Triphosphate Concentrations Are Elevated in Critically Ill Patients/M.L. Malnoske, O. Wexler, G. Tsang, S. Mroczek, D. Oldfield, C. Dony, T. Bice, K. Falkner, M.J. Apostolakis, M. Gorgone, S. Rasul, A.P. Pietropaoli, Rochester, NY, p.A1805**

P558 **The Association of Mean Platelet Volume and Red Cell Distribution Width in Critically Ill Patients with Mortality/A. Magh, M. Cheema, Z. Muzaffar, J. Harewood, P. Trivedi, A. Iftikhar, Flushing, NY, p.A1806**

P559 **Improvement in P:F Ratio as a Prognostic Marker in Patients Proned for Severe Acute Respiratory Distress Syndrome/O. Awan, V. Mukherjee, B. Zakhary, New York, NY, p.A1807**

Facilitators: M. Mikkelsen, MD, MSCE, Philadelphia, PA
J. Heavner, MD, Baltimore, MD

P560 **Respiratory Quotient and Arterial-Venous Oxygen Content Difference Are Poorly Correlated with Arterial Lactate in Septic Shock Patients/A.M. Hersh, J. Sorensen, M.J. Lanspa, Salt Lake City, UT, p.A1808**

P561 **Dysnatremia Is Associated with Increasing Mortality in the Critically Ill Patients: A Systematic Review and Meta-Analysis/S. Upala, A. Sanguankee, S. Congrete, Bangkok, Thailand, p.A1809**

P562 **Impact of Nutritional Delivery on ARDS Outcomes in Medical Intensive Care Units/N. Sanguanwong, N. Kongpolprom, Bangkok, Thailand, p.A1810**

P563 **Risk Factors for Mortality in ICU Patients with Gram Negative Bacteremia/C.I. Routsis, C.S. Vrettou, M. Pratikaki, A. Giannopoulos, A. Baladima, S. Zakynthinos, Athens, Greece, p.A1811**

P564 **Risk Factors for Early Mortality in an Academic Intensive Care Unit/C. Ochoa, E. Honig, D.J. Murphy, Atlanta, GA, p.A1812**

P565 **Identification of Surgical Population at High Risk of Postoperative Pulmonary Complications/M. Cereda, T. Huynh, T. Liesching, G.B. Diette, Philadelphia, PA, p.A1813**

P566 **Leveraging Computer Programming to Augment Data Collection and Analysis/J.N. Hsieh, Philadelphia, PA, p.A1814**

P567 **Developing a Real-Time ICU Cohort Outcome Matching (RICOM) Tool to Facilitate Individual ICU Patient Prognostication/M.E. Nolan, V. Herasevich, Rochester, MN, p.A1815**



Facilitators: M.D. Siegel, MD, New Haven, CT
A. Parker, MD, Baltimore, MD

- P568 Medication-Wide Association Study in Sepsis and Suspected Infection/A.P. Sales, M. Mayhew, J. Greene, T. Wasson, V. Liu, Livermore, CA, p.A1816**
- P569 Post-ICU Mechanical Ventilation: Weaning Outcomes in 15,724 Patients Reported from the National Association of Long Term Hospitals (NALTH) Health Information System (NHIS)/J.J. Votto, L. Koenig, T.F. Kirby, J. Dollard, New Britain, CT, p.A1817**
- P570 The Epidemiology of Psychiatric Illness in Survivors of Critical Illness in Korea - A National Health Insurance Database Study, 2009 - 2014/C.R. Chung, C. Jang, W. Myung, D. Kang, H. Park, J. Cho, G.Y. Suh, Seoul, Korea, Republic of, p.A1818**
- P571 The Association Between Acute Respiratory Distress Syndrome Mortality and Annual Hospital ARDS Case Volumes from 2002-2011 in the Nationwide Inpatient Sample/J.D. Ike, J.A. Kempker, M.R. Kramer, G.S. Martin, Atlanta, GA, p.A1819**
- P572 Complicated Influenza PIRO Score for Predicting Mortality in Patients with Virology Proven Influenza Admitted to Intensive Care Unit (ICU)/W.-F. Fang, M.-C. Chan, K.-Y. Yang, C.-K. Kao, C.-C. Sheu, H.-C. Wang, S.-J. Liang, C.-Y. Lin, C.-H. Huang, W.-C. Perng, C.-L. Wu, Kaohsiung, Taiwan, p.A1820**
- P573 Immune Status and SeMo Score Predict Outcomes in Patients with Severe Sepsis/W.-F. Fang, C.-H. Huang, C.-Y. Lin, Y.-T. Fang, K.-T. Huang, H.-C. Kao, Y.-H. Wang, Y.-T. Chang, C.-C. Wang, M.-C. Lin, Kaohsiung, Taiwan, p.A1821**
- P574 Association Between Rothman Index (RI) and Post-Discharge Patient Outcomes in the Medical Intensive Care Unit (MICU)/H.A.M. Fakih, S. Daouk, L. Mramba, I. Faruqi, Gainesville, FL, p.A1822**
- P575 Predicting 24-Hour Mortality After Inter-Hospital Transfer to a Tertiary Medical Intensive Care Unit: A Single-Center Retrospective Analysis/J.S. Kurman, J.J. Patel, K. Thandra, E. Al-Ghandour, S. Mawari, L. Rein, A. Szabo, Milwaukee, WI, p.A1823**

THEMATIC POSTER SESSION

A52 CRITICAL CARE CASE REPORTS: ADULT AND PEDIATRIC SEPSIS AND ICU INFECTIONS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area M, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: M.E. Prekker, MD, MPH, Minneapolis, MN
R. Mehta, MD, Maywood, IL

- P1279 Puzzling Battle Between the Ps/A. Arjuna, K.D. Scatliffe, P. Patel, Newark, NJ, p.A1824**

- P1280 When Acute Cough Kills: Early Predictors of Mortality in Pneumocystis Jirovecii Pneumonia/N.A. Smith, M. Sehring, J. Chambers, B. Aulakh, Peoria, IL, p.A1825**
- P1281 An Uncommon Deadly Gastrointestinal and Liver Mucormycosis with Disseminating Mucormycosis Secondary to Immunosuppressive Condition of Acute Severe Myocarditis in a 14 Year Old Girl/Y. Zhang, Z. Chen, D. Hong, H. Yang, H. Li, S. Shi, Beijing, China, p.A1826**
- P1282 A Case Report of Rhino-Cerebral Mucor-Mycosis(RCM) in Aplastic Anemia(AA) Patient/A. Ifikhar, Z. Muzaffar, M. Patel, M. Mauriello, M. Cheema, Roslyn, NY, p.A1827**
- P1283 A Rare Case of Candida Albicans Acalculous Cholecystitis in a Patient Being Treated for Severe Clostridium Difficile/K. Bally, D. Railwah, Brooklyn, NY, p.A1828**
- P1284 An Unusual Case of Non-Fatal Severe Acute Respiratory Distress Syndrome Secondary to Disseminated Aspergillus Fumigatus in an Immunocompetent Host/A. Rajagopal, M. Khosravi, Lexington, KY, p.A1829**
- P1285 Staphylococcal Scalded Skin Syndrome in an Adult Intensive Care Unit Patient/A. Rajagopal, M. Khosravi, Lexington, KY, p.A1830**
- P1286 Candida Glabrata Empyema Secondary to Massive Esophageal Perforation/M. MacMurdo, H. Poonyagariyagorn, Portland, OR, p.A1831**
- P1287 When Soil Attacks: Rhizobium Radiobacter Sepsis in an Immunocompetent Patient/N. Ishak Gabra, O. Reynbakh, R.E. Jean, New York, NY, p.A1832**
- P1288 A Case of Malaria Vivax Mono-infection Presenting with Septic Shock/A. AlMajali, W. Sankar, A. Roka, M. Sharif, Orlando, FL, p.A1833**

Facilitators: S. Murthy, MD, Vancouver, Canada
G. Mortamet, MD, MSc, Montreal, Canada

- P1289 Mental Status Changes After a Campground Adventure - Beware of the Tick/R.C. Brammer, H.A. Cheema, K. Vipul, York, PA, p.A1834**
- P1290 Acute Stroke-Like Symptoms Treated with Doxycycline/A. Ali, G. Trott, A. Milad, H. Badi, S. Rehman, M. Taleb, E. Youssef, Y. Yoon, Toledo, OH, p.A1835**
- P1291 An Unexpected Cause of Sepsis: Always Keep Searching/J. Ramos-Rossy, W. Rodriguez-Cintrón, J. Torres-Palacios, San Juan, PR, p.A1836**
- P1292 Meningitis Following Trigeminal Neuralgia Rhizotomy with Radiofrequency Thermocoagulation: A Case Report/Y. Eslamizaad, W. Dawson, P. Almalouf, Mobile, AL, p.A1837**
- P1293 A Rare Case of Adult Community-Acquired Escherichia Coli Meningitis as a Complication of Bacteremia and Urinary Tract Infection/S. Griffith, H. Poonyagariyagorn, Portland, OR, p.A1838**
- P1294 Strongyloides Hyperinfection Syndrome Causing Fatal Meningitis and Septicemia by Citrobacter Koseri/F. Reyes, N. Anjunman-Khurram, J. Lee, N. Singh, L. Chow, Brooklyn, NY, p.A1839**



- P1295 Subdural Empyema Following a Tooth Extraction/Z. Bhatti, J.A. Ben Gabr, D. Landsberg, Syracuse, NY, p.A1840**
- P1296 Streptococcal Dysgalactiae Toxic Shock Syndrome in a Healthy Host: A Fatal Case/M.E. Carroll, B. Li, S. Hussain, New Brunswick, NJ, p.A1841**
- P1297 Purpura Fulminans Secondary to Streptococcal Pneumonia Bacteremia in an Asplenic Adult Patient/M. Fadila, N.M. Vasquez, T. Loethen, W. Parker, Columbia, MO, p.A1842**
- P1298 Streptococcus Anginosus Calculous Cholecystitis in an Immunocompromised Patient with Septic Shock/A.C. Miller, S. Santosh, St. Louis, MO, p.A1843**

Facilitators: B. Ergan, MD, Izmir, Turkey
S.D. Levy, MD, Boston, MA

- P1299 Frozen Coffee Beverages Leading to Shock and Encephalopathy/J. Signorelli, S. Bergard, M. Reinders, R. Sell, P. Montgrain, G. Wardi, San Diego, CA, p.A1844**
- P1300 Group A Streptococcus Bacteremia from Acute Pharyngitis: A Rare Source/S. Katepalli, H.A. Cheema, R.I. Pargament, York, PA, p.A1845**
- P1301 Septic Shock and Shock Gut from Streptococcus pyogenes Lemierre Syndrome/S.W. Robison, Jacksonville, FL, p.A1846**
- P1302 Bilateral Necrotizing Pneumonia Secondary to Septic Pulmonary Embolism in the Setting of Septic Shock, Septic Arthritis, Bacterial Endocarditis, and Methicillin Sensitive Staphylococcus Aureus Bacteremia/M.C. Pertzborn, B. Seay, J. Co-Vu, M. Abu-Hasan, Gainesville, FL, p.A1847**
- P1303 Descending Necrotizing Mediastinitis: A Rare but Potentially Lethal Disease/A.H. Bonetti, E. Chakfeh, Y. Dawod, A. Chakfeh, A.O. Romero, Las Vegas, NV, p.A1848**
- P1304 Back Pain in an Immunocompetent Patient: An Unusual Case of Mediastinitis/S. Sivsammie, S. Ansari, Kalamazoo, MI, p.A1849**
- P1305 A Case of Edwardsiella Bacteremia and Septic Shock: A Fatal Food Borne Infection/M.K. Loya, M.E. Khan, J.A. Taylor, Omaha, NE, p.A1850**
- P1306 Disseminated Nocardia Cyriacigeorgica Associated with Long-Term Low Dose Steroid Use/U.I. Maduforo, S. Ahmad, Longview, TX, p.A1851**
- P1307 Vertebral Perforation and Osteomyelitis from Abandoned Lead Migration: An Unusual Cause of Septic Shock/A. Weiss, I. Kourouni, J. Cardasis, New York, NY, p.A1852**
- P1308 A 38-Year-Old Man with Duodenal Perforation and Sepsis: An Argument for Rethinking the 2016 Sepsis Definitions/T. Mathews, F. Gholitabar, A. Matthews, G. Kim, H. Khouli, J.P. Mathew, New York, NY, p.A1853**

Facilitators: I.D. Peltan, MD, MSc, Murray, UT
O.T. Ranzani, MD, MSCE, Sao Paulo, Brazil

- P1309 Case Report of Extensive Air Pockets Surrounding Liver Metastases Due to Non-Typhoid Salmonella/V. Kaul, S. Easaw, X. Han, T. McGarry, Elmhurst, NY, p.A1854**
- P1310 Purpura Fulminans Resulting from Pasteurella Multocoda Sepsis/A. Behal, L. Srinivasan, Waukegan, IL, p.A1855**

- P1311 Acute Respiratory Failure Due to Severe Sepsis from Necrotizing Fasciitis Due to Actinomycosis in a Sick Cell Disease Patient/P. Catella, N. Shah, S. Wiesel, A. Khalil, M. Cooper, A. Culliford, Staten Island, NY, p.A1856**
- P1312 Actinomycosis Presenting with Septic Cavernous Sinus Thrombosis/H. Ben Faras, J. Sung, C.-P. Wu, P. Gulani, Bronx, NY, p.A1857**
- P1313 The Secret Affair Between Pseudomonas and Purpura Fulminans/S.B. Khalid, J.M. Sill, J. Mahmood, Norfolk, VA, p.A1858**
- P1314 Marked Metabolic Acidosis Secondary to Proteus Urine Infection in an Indiana Pouch/S.B. Brosnahan, B. Zakhary, New York, NY, p.A1859**
- P1315 A Case of Capnocytophaga Canimorsus Infection Presenting With Multi- Organ Dysfunction and Features of Secondary Hemophagocytic Lymphohistiocytosis/M. Durst, R.R. Veluswamy, K. Troy, L. Richman, New York, NY, p.A1860**
- P1316 Atypical Complications of an Unexpected Case of Lemierre's Disease/N. Mehta, V. Cimino, M. Hershman, D. Wisa, S. Patel, B. Husta, New York, NY, p.A1861**
- P1317 Uncommon Cause of Respiratory Failure in Oklahoma/H.Z. Al-Sharif, R. Carter, N.I. Agudelo Higueta, K.R. Jones, Oklahoma City, OK, p.A1862**
- P1318 Pneumocephalus Secondary to Spontaneous Dissemination of Clostridium Septicum/J. Radbel, A.M. Jobanputra, J. Sunderram, New Brunswick, NJ, p.A1863**

Facilitators: V. Kaul, MD, Elmhurst, NY
D. Pradhan, MD, New York, NY

- P1319 Necrotizing Myositis Leading to Respiratory Failure and Death/M. Forte, K. Cade, C. Nguyen, M. Junqueira, Pueblo, CO, p.A1864**
- P1320 An Uncommon Presentation of Gastro-Hepatic Fistula/M. Forte, K. Hussain, Morgantown, WV, p.A1865**
- P1321 An Atypical Presentation of Necrotizing Fasciitis/D. Zusin, Bethesda, MD, p.A1866**
- P1322 A Fatal Case of Necrotizing Fasciitis/N.E. Castillo Almeida, D. Rizcallah, F. Afridi, D. Perrone, M.U. Sharif, Orlando, FL, p.A1867**
- P1323 Diffuse Ischemic Limb Gangrene with Palpable Pulses in a Patient with Septic Shock/D. Gill, V. Goyes, J. Virk, P. Masuta, D. Landsberg, Syracuse, NY, p.A1868**
- P1324 Sepsis Precipitating Valproic Acid Induced Thrombocytopenia/S. Toom, A. Avula, P. Irukulla, P. Singh, L. Wolf, Brooklyn, NY, p.A1869**
- P1325 Bilateral Lower Extremity Ischemia with Palpable Pulses Due to Disseminated Intravascular Coagulation Secondary to Sepsis - A Cause Often Ignored/S. Toom, T. Sood, P. Singh, P. Irukulla, A. Avula, Q. Han, L. Wolf, Brooklyn, NY, p.A1870**
- P1326 Munchausen's Syndrome Masquerading as Septic Shock/P.H. Huang, A.M. Szema, South Setauket, NY, p.A1871**
- P1327 Too Hot to Handle: 10 Month Old Presenting with Fever of 45 Degrees Celsius/R.K. Kaguongo, I. Kihurani, Nairobi, Kenya, p.A1872**



THEMATIC POSTER SESSION

A53 CRITICAL CARE: PROBLEMS RELATED TO INTUBATION, WEANING, AND EXTUBATION

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area E, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: N.D. Ferguson, MD, MSc, Toronto, Canada
J. Chen, MD, Bronx, NY

- P577 Laryngeal and Upper airway Symptoms and Injury following Endotracheal Intubation: A Systematic Review/M.B. Brodsky, M.J. Levy, E. Jedlanek, B. Blackford, C. Price, A.T. Hillel, S.R. Best, L.M. Akst, Baltimore, MD, p.A1873**
- P578 Coordination of Pharyngeal and Laryngeal Swallowing Events During Single Liquid Swallows After Oral Endotracheal Intubation/M.B. Brodsky, K. Chilukuri, I. De, M. Huang, D.M. Needham, Baltimore, MD, p.A1874**
- P579 Inpatient Peri-Intubation Cardiac Arrest: A Retrospective Cohort Analysis/G. Wardi, T. Nguyen, N. Pokrajac, R. Sell, San Diego, CA, p.A1875**
- P580 Maintenance of the Difficult/High Risk Airway in the Intensive Care Unit: A Novel Interprofessional Quality Improvement Process/J.S. Salonia, J. Mathew, G. Narayanswami, E. Kazar, J. Montanaro, J. Acosta, M. Collazo, R. Powers, J. Shapiro, New York, NY, p.A1876**
- P581 Deadspace to Tidal Volume Ratio as a Predictor of Extubation Success/J.A. Gehlbach, A.G. Miller, C.P. Hornik, I.M. Cheifetz, Durham, NC, p.A1877**
- P582 Diaphragm Ultrasound as a Predictor of Liberation from Prolonged Mechanical Ventilation/M.G. Sperry, O. Ali, A.C. Verceles, Baltimore, MD, p.A1878**
- P583 Respiratory Rate Variation as a Predictive Tool for Successful Ventilatory Weaning/S. Alrawaf, M. Alsaggaf, J. Williams, H. Turkan, A.H. Cho, A.W. McLean, G. Gutierrez, Washington, DC, p.A1879**
- P584 Validation of Ultrasound to Assess Diaphragm Function in Mechanically Ventilated Patients/B.-P. Dube, M. Dres, J. Mayaux, S. Demiri, T. Similowski, A. Demoule, Montreal, Canada, p.A1880**
- P585 Accuracy of P0.1 Displayed by Modern Ventilators - A Bench Study/I.G. Telias, D. Junhasavasdikul, N. Rittayamai, L. Chen, D.L. Grieco, E. Goligher, L.J. Brochard, Toronto, Canada, p.A1881**

Facilitators: R.G. Wunderink, MD, Chicago, IL
J. Mosier, MD, Tucson, AZ

- P586 P0.1 as a Measure of Inspiratory Effort in Mechanically Ventilated Patients/I.G. Telias, N. Rittayamai, L. Chen, D. Junhasavasdikul, D.L. Grieco, E. Goligher, L.J. Brochard, Toronto, Canada, p.A1882**

- P587 Proportional Assist Ventilation Versus Volume-Assist-Control and Daily Spontaneous Breathing Trial Combination: A Randomized Controlled Trial/V.G. Nidadavolu, R.Y.H. Kim, K. Guilkey, J. Guardiola, M. Saad, R. Cavallazzi, Louisville, KY, p.A1883**
- P588 Use of the endOclear® Restore™ Device to Decrease ICU Ventilator Days/M. Solis, L.C. Schofield, Bakersfield, CA, p.A1884**
- P589 Patient Characteristics and Outcomes of Weaning from Prolonged Mechanical Ventilation at Zablocki Veterans Affairs Medical Center/J.A. Kelbe, M. Ellis, A. Anton, Milwaukee, WI, p.A1885**
- P590 Descriptive Study of Factors Associated with Self Extubations in a Diverse Population/B. Eperjesiova, F. Dabbous, I. Zamfirova, O. Yasin, K. Kaiser, A. Stone, Park Ridge, IL, p.A1886**
- P591 Effects of Direct Extubation to High-Flow Nasal Cannula Compared to Standard Nasal Cannula in Patients in the Intensive Care Unit/P.D. Arman, M.N. Varn, S. Povian, A. Davis, P. Uchakin, A. Bhar, C.W. Callender, Macon, GA, p.A1887**
- P592 Impact of Delayed Extubation in the Critically Ill Elderly on Morbidity, Mortality and Ventilator Outcomes/E. Yogiaveetil, R.A. Gersten, S. Asdjodi, A. Vinayak, Washington, DC, p.A1888**
- P593 Parallel Pilot Screening Frequency Trials in Elderly and Nonelderly Critically Ill Patients/K.E. Burns, J.T.Y. Wong, F. Lamontagne, P.M. Dodek, A.J. Seely, A. Cohen, S. Mehta, L. Rizvi, M. Kho, D.J. Cook, Toronto, Canada, p.A7576**

THEMATIC POSTER SESSION

A54 CRITICAL CARE: OUTCOMES IN RESPIRATORY FAILURE

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area E, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: J.A. Gold, MD, Portland, OR
S.K. Sahetya, MD, Baltimore, MD

- P595 Outcomes from Severe ARDS Without the Use of Extracorporeal Life Support/S.K. Sahetya, R.G. Brower, R.S. Stephens, Baltimore, MD, p.A1889**
- P596 Higher Expiratory End-Tidal Oxygen Correlates with Worse Outcomes in a Cohort of Ventilated Trauma and Burn Patients/D. Younan, J. Zhang, R. Johnson, R. Clark, M. Mathru, D. Miller, Mountain Brook, AL, p.A1890**
- P597 Outcomes Reported in Studies on Mechanical Ventilation in Pregnant and Postpartum Patients: A Systematic Review/J. Viau-Lapointe, J. Kfoury, R. D'Souza, L. Rose, S. Lapinsky, Toronto, Canada, p.A1891**
- P598 Clinical Outcome Associated with the Use of Different Inhalation Method with and Without Humidification in Asthmatic Mechanically Ventilated Patients/M.E.A. Abdelrahim, I.O. Farrag, M. Al Hallag, Giza, Egypt, p.A1892**



P599 Medicare Patients Who Develop Respiratory Failure During Hospitalization Have Higher Mortality Compared to Medicare Patients Admitted with Respiratory Failure/J.P. Lamberti, S.D. Nathan, N. MacIntyre, S.S. Braman, B.J. Make, P. Porte, G.J. Criner, Falls Church, VA, p.A1893

P600 Health Care Costs and Outcomes for Patients Undergoing Tracheostomy in an Australian Tertiary Level Referral Hospital/S. Bihari, S. Prakash, P. Hakendorf, C.M. Horwood, S. Tarasenko, A.W. Holt, J. Ratcliffe, A.D. Bersten, Bedford Park, Australia, p.A1894

P601 Acute Respiratory Failure that Develops During Hospitalization: A Comparison of Medical Vs. Surgical Medicare Patients/S.S. Braman, B.J. Make, J.P. Lamberti, S. Nathan, N. MacIntyre, P. Porte, G.J. Criner, New York, NY, p.A1895

Facilitator: K. Mitchell, MD, Seattle, WA

P602 Neuromuscular Blockers in Pneumonia and Non-Pneumonia Related Hypoxemic Respiratory Failure/S.-Y. Ruan, C.-T. Huang, J.-Y. Chien, H.-D. Wu, C.-J. Yu, Taipei, Taiwan, p.A1896

P603 Effects of Refractory Hypoxemia Protocol in Timing of Proning Position in Patients with Acute Respiratory Distress Syndrome/A. Gallo De Moraes, S. Holets, R.A. Oeckler, Rochester, MN, p.A1897

P604 Acute Respiratory Distress Syndrome In Patients With Babesiosis/P. Srivastava, A.E. Revelo, A. Kadambi, O. Epelbaum, Valhalla, NY, p.A1898

P605 Spontaneous Breathing and Hospital Mortality in Early Acute Respiratory Distress Syndrome: A Secondary Analysis of the International Study of Mechanical Ventilation/E.C. Goligher, M. Urner, T. Pham, T. Yoshida, B.P. Kavanagh, A. Kiss, L.J. Brochard, N. Ferguson, O. Penuelas, A. Esteban, F. Frutos, E. Fan, Toronto, Canada, p.A7577

P606 Early Ventilation in Guillain-Barre Syndrome: Influence on Pneumonia Frequency/J. Aboab, D. Orlikovski, K. Dessaux, D. Da Silva, T. Sharshar, B. Clair, S. Chevrete, D. Annane, Garches, France, p.A7578

P607 Increased Economic Costs Associated with Acute Respiratory Distress Syndrome in Mechanically Ventilated Patients in the Intensive Care Unit/M. Yuan, H.B. Gershengorn, C.-P. Wu, M.N. Gong, Bronx, NY, p.A7579

Facilitators: C.W. Seymour, MD, MSc, Pittsburgh, PA
M.J. Lanspa, MD, MS, Salt Lake City, UT

P609 Persistent Tachycardia and Mortality in Septic Shock Patients/S.J. Beesley, E. Wilson, M.J. Lanspa, C.K. Grissom, S. Shahul, D. Talmor, S.M. Brown, Salt Lake City, UT, p.A1899

P610 Grading Severity of Diastolic Dysfunction in Sepsis Using Old, New, and Simplified Definitions/M.J. Lanspa, E.L. Wilson, T.D. Olsen, E. Hirshberg, S.M. Brown, C.K. Grissom, Murray, UT, p.A1900

P611 Respiratory Shock Index in Sepsis/A. Otekeiwebia, E.P. Cassidy, A. Kelly, D.M. Mannino, P.E. Morris, R. Choate, A. Wieliczko, T. Klein, M. Khosravi, Lexington, KY, p.A1901

P612 Performance of the Respiratory Shock Index, a New Derived Outcome Prediction Measure for Adults with Sepsis/A. Otekeiwebia, E. Casidy, A. Wieliczko, A. Kelly, P.E. Morris, D.M. Mannino, R. Choate, T. Klein, M. Khosravi, Lexington, KY, p.A1902

P613 SOFA Score Is a Good Predictor of ICU Mortality in Severe Dengue/W.-A. Chang, J.-R. Tsai, M.-J. Tsai, C.-Y. Kuo, C.-C. Sheu, Kaohsiung City, Taiwan, p.A1903

P614 The Evolving Definition of Septic Shock: A Focus on the New Centers for Medicare and Medicaid Services Sepsis Core Measure Definition/J.S. Salonia, K. McKenna, R. Schneider, M. Duttuluri, A. Shehata, N. Garg, A. Wood, H. Khoulis, S. Kurtz, New York, NY, p.A1904

P615 Diagnosis by Coin Flip - The Chasm Between the Diagnosis of Severe Sepsis or Septic Shock by Medical Coders Vs. Physician Review/F. Rafatnia, M. Dhand, T. Amdo, R. Rajmane, Brooklyn, NY, p.A1905

P616 Identifying Poor Outcomes in Elderly Patients with Sepsis/N.A. Sathe, A. Uppal, L. Evans, New York, NY, p.A1906

Facilitators: S. Mehta, MD, Toronto, Canada
N. Qadir, MD, Bronx, NY

P617 Comparison of SOFA, APACHE II and Newly Proposed SAPCIS Scoring Systems for Predicting the Severity and Prognosis of Intensive Care Unit Patients with Sepsis: A Prospective Observational Study/M.K. Daga, S. Mattoo, N.A. Khan, New Delhi, India, p.A1907

P618 Comparison of SIRS and qSOFA Criteria in Screening for Patients with Severe Sepsis or Septic Shock in the Emergency Department/M. Nolan, G. Wardi, R. Sell, San Diego, CA, p.A1908

P619 SOFA and LODS Scores Amongst Hispanics and Asians in Septic Shock in the Intensive Care Unit in an Ethnically Diverse Intercity Hospital in the United States/A. Gupta, S. Easaw, E. Awerbuch, P. Spiro, Elmhurst, NY, p.A1909

P620 Implementation of the New Septic Shock Definition in an Ethnically Diverse Intercity Hospital in the United States/A. Gupta, S. Easaw, E. Awerbuch, P. Spiro, Elmhurst, NY, p.A1910

P621 SIRS and qSOFA as Instruments of Triage for Sepsis for Admission to Intensive Care Unit in an Ethnically Diverse Emergency Department in New York City/A. Gupta, S. Easaw, E. Awerbuch, P. Spiro, Elmhurst, NY, p.A1911

P622 Sepsis Identification in a Rural Tertiary Community Hospital - Is qSOFA Applicable?/A. McLaughlan, K. Graham, A. Nasir, Elmira, NY, p.A1912

THEMATIC POSTER SESSION

A55 CRITICAL CARE: SIRS, QSOFA, SEPSIS - WHAT'S IN A NAME?

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area E, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators



- P623** **Maximum ICU SOFA Score Is a Better Predictor of 1-Year Mortality than SOFA on ICU Admission Among Patients Requiring Prolonged Ventilatory Support/T.V. Quinn, E. Magno, B. Varghese, R. Balk, J.A. Greenberg, Chicago, IL, p.A1913**
- P624** **Sequential Organ Failure Assessment Score for Successful Weaning in Prolonged Mechanical Ventilation Patients/C.S. Lee, H.Y. Huang, C.H. Chang, Taoyuan City, Taiwan, p.A1914**
- Facilitators:** T.J. Iwashyna, MD, PhD, Ann Arbor, MI
M. Afshar, MD, Chicago, IL
- P625** **Does the Inflammatory Response Differ in Septic and Non-Septic Insults?/L. Morales, Y. Rojas, A. Ferruelo, L. Martinez Caro, D. Molina, N. Nin, A. Artigas, J.A. Lorente, Barcelona, Spain, p.A1915**
- P626** **Evaluation of the Quick Sequential Organ Failure Assessment Score in Predicting a Critically Ill Population at a University Hospital/M. Katsoulis, R. Balk, Chicago, IL, p.A1916**
- P627** **Survival of the Sickest: Utilizing qSOFA Scores Combined with an Elevated Lactate Trigger System for Early Identification and Close to Real-Time Review of Inpatients with Sepsis and Septic Shock/M.J. Michaels, D. Lion, A. Sutherland, Newark, NJ, p.A1917**
- P628** **Diagnostic Differences Between SOFA Scores and SIRS Criteria in an ICU Cohort/J. Willoughby, A. Damodaran, P. Belvitch, Chicago, IL, p.A1918**
- P629** **Treatment Delay-Associated Mortality During Statewide Mandated Sepsis Care in the Emergency Department/C.W. Seymour, F.C. Gesten, H.C. Prescott, M. Friedrich, T.J. Iwashyna, T. Osborn, G. Phillips, K. Terry, M. Levy, Pittsburgh, PA, p.A7580**
- P630** **The New York State Mandated Public Reporting Initiative for Sepsis/M. Levy, F. Gesten, G. Phillips, C.W. Seymour, H.C. Prescott, M. Friedrich, K. Terry, T.J. Iwashyna, T. Osborn, S. Lemeshow, Providence, RI, p.A7581**
- P631** **New York State Sepsis Regulations: How Often Are Recognized Sepsis Cases Submitted Under Mandated Reporting?/H.C. Prescott, T.M. Cope, F.C. Gesten, T. Ledneva, M. Friedrich, T.J. Iwashyna, T. Osborn, C.W. Seymour, M. Levy, Ann Arbor, MI, p.A7582**

THEMATIC POSTER SESSION

A56 CRITICAL CARE CASE REPORTS: CARDIOVASCULAR DISEASE I

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Area M, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: D. Berlin, MD, New York, NY
P.L. Silva, PhD, Rio de Janeiro, Brazil

- P1329** **Right Sided Mural Bacterial Endocarditis: An Unusual Location of Vegetations/P. Soni, S. Thakar, A. Rai, A. Sadiq, M. Moskovits, N. Aggarwal, W. Pascal, Y. Kupfer, Brooklyn, NY, p.A1919**

- P1330** **A Rare Case of Mediastinal Hematoma Leading to Right Ventricular Outflow Tract Obstruction/P. Soni, S. Chadha, V. Kumar, A. Rai, A. Saxena, A. Sadiq, N. Aggarwal, Y. Kupfer, Brooklyn, NY, p.A1920**
- P1331** **Escherichia Coli Endocarditis Complicated by Endophthalmitis in Immune-Competent Patient/D. Saha, A. Das, H. Gidwani, B. Butcher, Pittsburgh, PA, p.A1921**
- P1332** **Aggressive Staphylococcus Lugdunensis Endocarditis in A Young Healthy Patient: A Case Report/A. Obagi, M. Elsawaf, N. Gornish, B. Dejene, R. Apolito, Neptune, NJ, p.A1922**
- P1333** **Early Mitral Valve Repair in a Patient with Infective Endocarditis Complicated by Ischemic Stroke and Subarachnoid Hemorrhage: Case Report and Review of the Literature/G. Magda, G. Lamotte, D. Jamieson, Washington, DC, p.A1923**
- P1334** **Unusual Presentation of Aortic Insufficiency in a Patient with Active Endocarditis in the Setting of ERDS/A.J. Shah, K. Liu, Syracuse, NY, p.A1924**
- P1335** **Septic Coronary Embolism Causing an Acute Myocardial Infarction/P. Masuta, J. Umar, G. Johri, D. Gill, L. Bhatta, Syracuse, NY, p.A1925**
- P1336** **Acquired Left Ventricular Outflow Tract to Right Atrial Fistula Due to Tricuspid Valve Endocarditis/O. Nadeem, A. Motwani, S. Parikh, J. Borgi, M. Hudson, Detroit, MI, p.A1926**
- P1337** **A Case of Native Valve Staphylococcus Epidermidis Endocarditis with Cardiac Abscess Formation/E. Cordes, C. Jacob, M. Loehrke, Kalamazoo, MI, p.A1927**
- P1338** **Emergent Purulent Pericarditis Presenting as Diabetic Ketoacidosis/C. Schuring, M. Trump, A. Sodhi, D. Kadaria, Memphis, TN, p.A1928**
- P1339** **Constrictive Pericarditis Manifesting as a Recurrent Unilateral Pleural Effusion/A. Haw, R. Kotler, K. Steinberg, Philadelphia, PA, p.A1929**

Facilitators: M.M. Mansour, MD, Stony Brook, NY
N.M. Kanodra, MBBS, Seattle, WA

- P1340** **Anaerobic Purulent Pericarditis with Cardiac Tamponade Caused by Bacteroides Fragilis/S. Saouma, B. Karam, J. Spagnola, N. Mobarakai, J. Lafferty, Staten Island, NY, p.A1930**
- P1341** **A Case of Massive Hemoptysis Secondary to Aortobronchial Fistula Caused by Mycotic Aneurysm in Thoracic Aorta: A Challenging Multidisciplinary Therapeutic Approach/L. Fernandez, L. Gutierrez, J.D. Yara, M. Velasquez, Cali, Colombia, p.A1931**
- P1342** **Rare Case of Cardiac Tamponade Due to a Transudative Effusion in a Patient with Nephrotic Syndrome/M.S. Ali, M. Ganesh, L. Paz Rios, B. Mba, Milwaukee, WI, p.A1932**
- P1343** **Cardiac Tamponade from Anaerobic Purulent Pericarditis/L. Schmidt, B. Self, Roanoke, VA, p.A1933**
- P1344** **Rapidly Evolving Cardiac Tamponade in a Case of Viral Pericarditis/E.Y. Chang, Q. Ngo, A.F. Chaudhry, R. Sachdeva, Atlanta, GA, p.A1934**



P1345 Postpericardiotomy Syndrome (PPS) After a DeBakey Type 1 Aortic Dissection Repair Leading to a Massive Cardiac Tamponade/U. Tariq, J.B. Stansberry, T. Jones, T.T. Nguyen, R.A. Khan, Orlando, FL, p.A1935

P1346 Takotsubo Cardiomyopathy in a Patient with Amyotrophic Lateral Sclerosis (ALS) and Acute Respiratory Failure: The ALS Challenge/N. Ishak Gabra, D. Prime, N. Pakzad, Y. Patel, R. Kornberg, A. Sotelo, J. Mathew, New York, NY, p.A1936

P1347 Refractory Atrial Arrhythmias Secondary to Newly Diagnosed Cardiac Masses in Critically Ill Patients/N. Ishak Gabra, I. Kourouni, J. Shapiro, J. Mathew, New York, NY, p.A1937

P1348 Reverse Takotsubo Cardiomyopathy Presenting as Nonocclusive Mesenteric Ischemia/G.S. Thind, S. Sivsammie, Kalamazoo, MI, p.A1938

P1349 Takotsubo Cardiomyopathy as a Complication of Kidney Transplant in a Young Anorexic Patient/J.S. Imam, J. Propst, S.A. Helgeson, M. Zetir, P. Lowman, Jacksonville, FL, p.A1939

P1350 Immediate Reversal of Cheyne-Stokes Respiration by Metoprolol in a Patient with Obstructive Cardiomyopathy, Atrial Fibrillation and Stroke/J.S. Imam, K.S. Boles, G.I. Soliman, N. Festic, A. Grek, E. Festic, Jacksonville, FL, p.A1940

Facilitators: S.R. Kudchadkar, MD, Baltimore, MD
S.J. Denstaedt, MD, Ann Arbor, MI

P1351 Heart Failure - Is It Lupus Myocarditis or Peripartum Cardiomyopathy?/G. Malhotra, S. Sivaraman, A. Fulambarker, North Chicago, IL, p.A1941

P1352 Post-Partum Cardiomyopathy Complicated by NSTEMI in Setting of Cocaine Use/M.A. Zulqarnain, A. Rajasekaran, Lexington, KY, p.A1942

P1353 Heart Failure as a Cause of Protein Loosing Enteropathy/M. Ali, A. Laktineh, A. Nakhle, Z. Saleh, D. Jacobi, Detroit, MI, p.A1943

P1354 Beriberi Induced Cardiomyopathy Requiring Salvage VA-ECMO/S. Kothari, A. Shah, S. Patel, J. Denk, Oak Lawn, IL, p.A1944

P1355 A Common Condition with an Uncommon Radiographic Appearance/D.E. Amariei, A. Papali, M. Pate, T. Nevins, J. Deepak, Baltimore, MD, p.A1945

P1356 Acute Hypoxic Respiratory Failure Secondary to a Large Patent Foramen-Ovale/B. Nokes, A. Sen, Phoenix, AZ, p.A1946

P1357 Pulmonary Hypertension Associated with D-Transposition of Great Arteries and Senning Procedure/D.T. Moretta, C. Huang, P. Giri, Loma Linda, CA, p.A1947

P1358 Congenital Absence of Left Coronary Artery: A Rare Coronary Circulation Anomaly/W. Humayun, A. Ghani, A. Balaratna, M. Naglak, Abington, PA, p.A1948

P1359 Severe Coarctation of the Aorta in an Asymptomatic Adult, an Incidental Discovery/M. Greer, F. Hannallah, Dallas, TX, p.A1949

P1360 Hemorrhagic Infiltration of the Pulmonary Artery: A Rare Complication of a Common Disease/M.U. Khawar, T. Fattouch, D. Norton, Cincinnati, OH, p.A1950

P1361 A Giant Atrial Myxoma Presenting with Recurrent Positional Syncope and Causing Cardiac Arrest/L. Yadav, G.S. Thind, H. Chhatrala, Kalamazoo, MI, p.A1951

Facilitators: G.L. Anesi, MD, MBE, Philadelphia, PA
N. Hajizadeh, MD, MPH, Manhasset, NY

P1362 Recurrent Left Atrial Myxoma: A Case Report/K. Ratheal, S. Prieto, E.E. Argueta, O. Oyenuga, R. Paone, Lubbock, TX, p.A1952

P1363 Left Atrial Myxoma - A Ticking Time Bomb/I. Ahsan, G. Gajanan, S. Farhat, A. Ghani, Abington, PA, p.A1953

P1364 Uncommon Cause of Right ventricular Outflow Tract Obstruction in a Young Female/S. Marupudi, A. Amjad, M.I. Ahmad, Winston-Salem, NC, p.A1954

P1365 Syncope from a Sparkling Heart/C. Sanchez-Alvarez, A.A. Alsaad, D.M. Menke, R. Pagan, Jacksonville, FL, p.A1955

P1366 Eat Your Heart Out: Right Heart Collapse from Bowel Obstruction/S. Assar, A. Nakhle, M. Lazar, Detroit, MI, p.A1956

P1367 Obstructive Shock in a Patient Presenting with Rectal Bleeding and Syncope/O. Perez, S. Shaharyar, R. Cantave, V. Chainani, M. Danckers, Aventura, FL, p.A1957

P1368 Fibrotic Lung Disease Due to Pulmonary Vein Stenosis Following Catheter Ablation for Atrial Fibrillation/K.G. Coonse, S. Hoskote, Rochester, MN, p.A1958

P1369 Gas Exchange and Hemodynamic Consequences of Severe Hemolysis Induced by Insertion of an Impella Device in a Patient with Cardiogenic Shock/I.L. Rodgers, C.A. Keller, Jacksonville, FL, p.A1959

P1370 PICC'ing Your Way into the Pericardium/L. Miyakawa, M. Bergman, Y.I. Lee, New York, NY, p.A1960

P1371 Case of Right to Left Malpositioned Subclavian Central Access/F. Nasim, C.R. Sims, M.E. Wilson, Rochester, MN, p.A1961

THEMATIC POSTER SESSION

A57 CRITICAL CARE CASE REPORTS: CARDIOVASCULAR DISEASE II

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Area M, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: S. Dhar, MD, Lexington, KY
F. Moazed, MD, San Francisco, CA

P1373 A Case of Cardiac Asthma Causing Hypercapnic Encephalopathy/G.S. Thind, L. Yadav, R. Roach, Kalamazoo, MI, p.A1962

P1374 Severe Hypertriglyceridemia Complicating ST Elevation Myocardial Infarction/A. Divakaran, R. Sedhom, V. Patel, W. Khan, New Brunswick, NJ, p.A1963

P1375 Post Myocardial Infarction Ventricular Septal Defect: A Case Report/S. Singh, M. Benson, I. Gulkarov, New York, NY, p.A1964



- P1376 ST- T Wave Changes in Hypocalcemia - Changes Beyond a Prolonged QTc/K.** Bagavathy, B. Yaghmour, Los Angeles, CA, p.A1965
- P1377 When the Brain Seizes, the Heart May Cease/A.** George Jacob, B.K. Gehlbach, Iowa City, IA, p.A1966
- P1378 Recurrent Cardiac Arrests Caused by Systemic Lupus Erythematosus/P.** Charoenpong, A. Dela Cruz, S. Chennadi, S. Zulqarnain, Brooklyn, NY, p.A1967
- P1379 Endotracheal Intubation Is Not Necessary for Prolonged Cardio-Pulmonary Resuscitation with Good Neurological Outcome/V.** Kumar, M. Gupta, U.A. Gupta, Ghaziabad, India, p.A1968
- P1380 Compartment Syndrome During Targeted Temperature Management in a Post-Cardiac Arrest Patient/H.** Lee, J. Filopei, E. Bondarsky, M.F. Siddiqi, Y. Lee, New York, NY, p.A1969
- P1381 Delayed Hemorrhagic Shock After Prolonged Cardiopulmonary Resuscitation/X.** Fonseca Fuentes, G. Pandompatam, T.U. Azam, J. Jentzer, Rochester, MN, p.A1970
- P1382 Sinus of Valsalva Aneurysm (SVA) Rupture: A Rare Presentation of a Rare Disease/M.Z.** Rizwan, A. El-bakush, I. Osman, S. Awadallah, T. Pancoast, Greenville, NC, p.A1971
- P1383 Type B Aortic Dissection Identified Following Cardiac Ablation Procedure/A.** Obagi, M. Carson, U. Khan, Neptune, NJ, p.A1972
- Facilitators:** J. Ninan, MD, La Crosse, WI
E. Marciniak, MD, Baltimore, MD
- P1384 Pleural Effusion as Aortic Dissection- a Challenge in Diagnosis/A.** Ghani, M. Hamid, W. Humayun, I. Ahsan, U. Sarwar, Abington, PA, p.A1973
- P1385 Aortic Dissection in the Pediatric Patient with Loeys-Dietz Syndrome/S.S.** Barnes, D. Goswami, Baltimore, MD, p.A1974
- P1386 Mitral Valve Replacement During Pregnancy - A Case Report/J.** Xiong, Y. Hu, H. Jin, Y. Su, Nanjing, China, p.A1975
- P1387 An Incidental Finding of Eisenmenger Syndrome in an Adult Following a Motor Vehicle Accident/C.** Borders, J. Reis, Sam Houston, TX, p.A1976
- P1388 Severe Exertional Heat Stroke: A Lifesaving and Novel Approach Utilizing an Intravascular Cooling Catheter in Refractory Hyperthermia/J.S.** Salonia, J. Cardasis, New York, NY, p.A1977
- P1389 Looking for a Rare Cause of Hemodynamically-Compromising Anterior Mediastinal Hematoma/L.** Alsharhan, S. Krick, Miami, FL, p.A1978
- P1390 Non-Atherosclerotic Aortic Mural Thrombus: A Rare Case of Embolism/J.A.** Marin-Acevedo, A.H. Koop, J.C. Yataco, J.L. Diaz-Gomez, P.K. Guru, Jacksonville, FL, p.A1979
- P1391 The Point-of-Care Ultrasound that Detected a Thrombus in the Aorta/L.** Miyakawa, A. Rothman, E.E. Bondarsky, P. Patrawalla, Y.I. Lee, New York, NY, p.A1980
- P1392 Rare Case Report of 3 Feet Long Thrombus in Transit/I.** Acharya, M. Tahir, M. Ibrahim, A. Dirweesh, K. Gala, Trenton, NJ, p.A1981

- P1393 Performing Under Pressure: Successful Recovery After Massive Left Ventricular Air Embolism Using Hyperbaric Oxygen Therapy/N.** Shamsid-Deen, M. Abidali, T. Ardiles, Phoenix, AZ, p.A1982

Facilitators: B.J. Anderson, MD, MS, Philadelphia, PA
B. Sharma, MD, MBBS, Stanford, CA

- P1394 Arterio-Pancreatic Syndrome: A Case Report of a Rare Acute Bilateral Arterial Thrombosis Secondary to Pancreatitis/M.A.** Megri, F. Alfakeri, Y. Shweihat, A.M. Algammudi, Huntington, WV, p.A1983
- P1395 End Tidal Carbon Dioxide as an Early Diagnostic Tool in Carbon Dioxide Embolus/K.** Goshorn, R. Abraham, Kankakee, IL, p.A1984
- P1396 Double Trouble: Catheter Embolization Across a Patent Foramen Ovale Leading to Embolic Stroke/S.** Ansari, K. Kailasam, S. Sivsammie, Kalamazoo, MI, p.A1985
- P1397 An Unusual Case of Acute Right Ventricular Failure in the Absence of Pulmonary Embolism/A.F.** Chaudhry, T. Washington-Plaskett, E.Y. Chang, E. Flenaugh, M.G. Foreman, R. Sachdeva, Atlanta, GA, p.A1986
- P1398 Postpartum Pulmonary Embolism in a Patient with Reactive Thrombocytosis/A.K.** Sabharwal, D.W. Chitty, S. Shankar, Y. Kupfer, Brooklyn, NY, p.A1987
- P1399 Pulmonary Embolism: A Complication of Continuous Veno-Venous Hemodialysis/P.** Chung, G. Mak, Houston, TX, p.A1988
- P1400 Pulmonary Embolism: Rare Complication After Endovenous Thermal Ablation of the Saphenous Vein/W.** Mansour, Z. Esper, S. El-Bitar, M. Chalhoub, Staten Island, NY, p.A1989
- P1401 Bedside Ultrasonography to Diagnose Fat Embolism/P.** Agarwal, O. Pistun, S. Hussain, New Brunswick, NJ, p.A1990
- P1402 Fat Embolism Syndrome in Sickle Cell Disease: From Crisis to Catastrophe/P.P.** Olivieri, R. Shrestha, M.K. Gloth, A. Burke, N.G. Shah, Baltimore, MD, p.A1991
- P1403 Primary Racemose Hemangioma of the Right Bronchial Artery with Thrombus and Slow Meandering Blood Flow/K.** Fujimoto, H. Kasai, T. Sugiura, N. Tanabe, K. Tatsumi, Chiba, Japan, p.A1992

THEMATIC POSTER SESSION

A58 CRITICAL CARE CASE REPORTS: NEURO-CRITICAL CARE

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area M, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators



Facilitators: N. Ali, MD, Columbus, OH
R. Kohn, MD, Philadelphia, PA

- P1405 Cerebral Hemorrhage Due to Blast Cell Crisis: A Case Report/M.** Cheema, H. Singh, A. Adial, F. Chaudhry, A. Iftikhar, Roslyn, NY, p.A1993
- P1406 Do Not Take Two Aspirin and Wait to Call in the Morning: A Rare and Potentially Life-Threatening Cause of Post-Partum Headache in the ICU/R.** Rajmane, S. Kadura, J. Nguyen, M. Abdelfattah, Brooklyn, NY, p.A1994
- P1407 Hemorrhage in Posterior Reversible Encephalopathy Syndrome as a Complication of Tacrolimus Therapy/M.S.** Rizvi, P.D. Scanlon, Rochester, MN, p.A1995
- P1408 Hypothermia Induced Thrombocytopenia with Subdural and Intracerebral Hemorrhage/S.** Soni, Urbana, IL, p.A1996
- P1409 Critical Cerebral Vasospasm Due to Post-Surgical Hemorrhage After Transsphenoidal Resection of a Pituitary Macroadenoma/U.** Tariq, M.C. Cress, J.B. Stansberry, T. Jones, W. Nasser, R.A. Khan, Orlando, FL, p.A1997
- P1410 Anoxic Brain Injury Presenting as Pseudo Subarachnoid Hemorrhage in the Medical Intensive Care Unit/S.** Folaranmi, S. Afreen, O. Lewis, A. Thomas, V. Poddar, Washington, DC, p.A1998
- P1411 Arterial Air Embolism- An Iatrogenic Phenomenon with Fatal Consequences/J.** Shah, N. Jiwa, N. Mamdani, D. Hill, Waterbury, CT, p.A1999
- P1412 Cerebral Air Emboli After Percutaneous Computed Tomography-Guided Transthoracic Needle Biopsy of the Lung/D.** Milano-Johnson, D. Weir, Y. Ashter, New York, NY, p.A2000
- P1413 Keep an Eye on the Air: A Case of Presumed Air by Vitrectomy Embolism/P.** Thangudu, B. Butcher, R. Lawson, Pittsburgh, PA, p.A2001
- P1414 Cerebral Arterial Air Emboli Caused by Aggressive Bag Valve Ventilation/M.G.** Al-Janabi, N. Sultana, A. El-bakush, D.E. Simmons, Greenville, NC, p.A2002

Facilitators: D. Bates, MD, La Jolla, CA
G.J. Soto, MD, Bronx, NY

- P1415 A Severe Case of Cerebral Air Embolism Following a Massive Iatrogenic Venous Air Embolism After Contrast Enhanced CT/N.Y.** Madisi, J. Oropello, R. Kohli-Seth, New York, NY, p.A2003
- P1416 Regression: An Atypical Presentation of Lupus Cerebritis/P.A.L.** Macauley, O. Lamikanra, C. Schiff, Y. Kupfer, M.A. Shenoy, S. Shankar, Brooklyn, NY, p.A2004
- P1417 A Rare Case of Pembrolizumab-Associated Autoimmune Limbic Encephalitis Following Treatment of Malignant Melanoma/C.** Cook, A.C. McKown, N.E. Brummel, Nashville, TN, p.A2005
- P1418 A Rare Case of Post Infectious Encephalitis/D.** Lee, G. Pierson, C. Shapiro, Pueblo, CO, p.A2006
- P1419 Bickerstaff Brainstem Encephalitis (BBE) a Rare Variant of GBS Mimicking as Meningitis/A.P.** Kamath, S. Shankar, P. Chandar, Y. Kupfer, S. Khanijao, Brooklyn, NY, p.A2007

- P1420 Zika Virus-Associated Guillain-Barre Syndrome in a Returning United States Traveler/J.** Beattie, S. Parajuli, M. Sanger, G. Lee, P. Pleningner, G. Crowley, S. Kwon, V. Murthy, J. Manko, A. Caplan, E. Dufort, J.E. Staples, D. Pastula, A. Nolan, New York, NY, p.A2008
- P1421 Moyamoya Syndrome: An Atypical Cause of Encephalopathy in the MICU/R.** Helton, B. Dyer, I. Faruqi, Gainesville, FL, p.A2009
- P1422 Non-Alcoholic Wernicke's Encephalopathy Leading to Progressive Neurologic Failure/V.** Pathak, M. Ricker, Raleigh, NC, p.A2010
- P1423 Unusual Cause of Altered Mental Status: Hyperammonia Encephalopathy Without Hepatic Dysfunction/C.-P.** Wu, Y.-W. Chen, Bronx, NY, p.A2011
- P1424 Recovery After Prolonged Hypoglycemic Coma from Extreme Hypoglycemia/S.N.** Chalise, M.G. Al-Janabi, M.Z. Rizwan, Z.U. Rehman, Greenville, NC, p.A2012

Facilitators: A. Goffi, MD, Toronto, Canada
M.G. Patel, MD, Maywood, IL

- P1425 An Extreme Case of Dialysis Disequilibrium Syndrome Leading to Brain Death/K.** Dinh, A.-E.S. Sagar, R.F. Lodato, Houston, TX, p.A2013
- P1426 Hypertensive Encephalopathy Associated Vasogenic Edema Causing Intracranial Hypertension and Brain Death/F.K.** Polara, I.R. Kugasia, J.P. Donnelly, J. Simmons, M. Srinivasan, Bronx, NY, p.A2014
- P1427 Diffuse Cerebral Edema from Acute Pancreatitis Induced by Hypertriglyceridemia/D.** Gill, Z. Bhatti, J. Virk, R. Dean, R. Chakravarty, D. Savici, Syracuse, NY, p.A2015
- P1428 A Case of Hydrocephalus Secondary to Intraventricular Neurocysticercosis/A.** Aron, U.M. Aron, I. Romero-Legro, Memphis, TN, p.A2016
- P1429 Tetanus: An Innovative Treatment Strategy for Refractory Spasticity/J.S.** Salonia, M. Ahmed, J. Cardasis, New York, NY, p.A2017
- P1430 Desmopressin Induced Severe Hyponatremia with Central Pontine Myelinolysis/T.** Hossain, V. Reddy, P.J. Rivera, V. Mukherjee, New York, NY, p.A2018
- P1431 A Rare Cause of Cardiac Arrest - Devic's Disease/S.S.** Palakuru, K. Boka, Houston, TX, p.A2019
- P1432 Severe Spinal Stenosis as a Cause of Froin's Syndrome in a Critically Ill Patient/L.I.** Losonczy, A. Delapenha, R.K. Dixon, Berkeley, CA, p.A2020
- P1433 Impact of Sympathetic Storm (From Brain Trauma) on Ventilator Dependence/P.M.** Thalanayar, L.O. James, M. Infeld, Cleveland, OH, p.A2021
- P1434 Tetanus Caused by a Traditional Healer's Efforts to Treat Squamous Cell Carcinoma/P.** Saikali, H. Sequeira, S. Winter, S. Shumbairerwa, Norwalk, CT, p.A2022



THEMATIC POSTER SESSION

A59 EPIDEMIOLOGY OF AIRWAYS AND CHRONIC LUNG DISEASES

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area L, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: S. London, MD, DrPH, Research Triangle Park, NC

P1215 Asthma Control in the Middle East and North Africa: The ESMAA Study/N. Behbehani, H. Al-Jahdali, A. Alqaseer, A. Estephan, A. Gjurovic, H. Haouichat, B. Khassawneh, B. Mahboub, R. Naghshin, F. Montestruc, H. Tarraf, M. Tabbal, Kuwait, Kuwait, p.A2023

P1216 Prevalence of Asthma in Young Males in United Arab Emirates/S. Akram, S. Toor, S. Adil, K. Al Mazroui, A. Al Zaabi, M.I. Saleem, Abu Dhabi, United Arab Emirates, p.A2024

P1217 Validation of the Recording of Asthma Diagnosis in UK Electronic Health Records (Clinical Practice Research Datalink)/F. Nissen, J. Quint, D. Morales, H. Mullerova, L. Smeeth, I. Douglas, London, United Kingdom, p.A2025

P1218 Misdiagnosis of COPD in Asthma Patients in the UK Electronic Health Records (Clinical Practice Research Datalink)/F. Nissen, D. Morales, H. Mullerova, L. Smeeth, J. Quint, I. Douglas, London, United Kingdom, p.A2026

P1219 Prevalence of Asthma Among University Students in Ilorin, Nigeria/O.O. Desalu, C.M. Opeyemi, E.O. Sanya, A.O. Adeoti, P.M. Kolo, S.A. Aderibigbe, Ilorin, Nigeria, p.A2027

P1220 Underdiagnosis of Asthma and Associated Risk Factors in Italian General Population Samples/G. Viegi, S. Maio, S. Baldacci, G. Sarno, S. Cerrai, F. Martini, P. Silvi, A.P. Pala, M. Simoni, F. Pistelli, L. Carrozzi, Palermo, Italy, p.A2028

P1221 Characterizing Associations of Asthma Prevalence with Urbanization and Altitude in Peruvian Children and Young Adults/T. Naz, S.L. Pollard, T. Siddharthan, K.M. Romero, J.J. Miranda, N. Hansel, W. Checkley, Baltimore, MD, p.A2029

P1222 Effectiveness of Training Patients in the Accurate Use of Inhalers for the Treatment of Bronchial Asthma Via DVD/K. Takita, R. Kondo, T. Horiguchi, Aichi, Japan, p.A2030

Facilitator: L. Hooper, MD, MPH, Seattle, WA

P1223 An Evidence Based Approach to the Use of Incentive Spirometry in General Medical Patients: A Descriptive Population Study/N. Motayar, I. Naqvi, G.B. Malla, Cincinnati, OH, p.A2031

P1224 Assessment of US Electronic Medical Records to Guide Feasibility and Design of the NOVELTY Study/H.K. Reddel, M. Gerhardsson De Verdier, A. Agusti, R. Beasley, E. Bel, J. Hiller, C. Janson, A. Kamaau, B. Make, R.J. Martin, I. Pavord, D.S. Postma, D. Price, D. Wong, C. Keen, A. Gardev, S.I. Rennard, A. Svereus, A. Bansal, L. Brannman, N. Karlsson, J. Nuevo, F. Nyberg, X. Wang, S. Young, J. Vestbo, Glebe, Australia, p.A2032

P1225 The Emphysema Disease Axis and the Airway Disease Axis Are Associated with Mortality Independent of Pulmonary Function/K.A. Young, G. Kinney, P.J. Castaldi, M.H. Cho, S.M. Lutz, K.A. Pratte, E.K. Silverman, J.D. Crapo, J. Hokanson, Aurora, CO, p.A2033

P1226 Sarcoidosis Increases Risk of Fragility Fracture: A Population-Based Retrospective Cohort Study 1976-2013/P. Ungrasert, C.S. Crowson, E.L. Matteson, Rochester, MN, p.A2034

P1227 Estimates of the Prevalence of Non-Cystic Fibrosis Bronchiectasis in the US/J. Noone, G. Stone, C.M. Blanchette, E. Zacherle, R. Howden, D. Mapel, Charlotte, NC, p.A2035

P1228 Asthma and Asthma Symptoms in Teachers in 50 Elementary Schools in a Large City/J.M. Cox-Ganser, J.-H. Park, J. Roseman, S. Game, Morgantown, WV, p.A2036

P1229 Validity of Physician-Diagnosed Chronic Obstructive Pulmonary Disease (COPD) in Relation to Spirometric Definitions of COPD in a General Population (SCAPISpilot) Aged 50 to 64 Years/K. Toren, N. Murgia, A.-C. Olin, J. Hedner, J. Brandberg, A. Rosengren, G. Bergstrom, Gothenburg, Sweden, p.A2037

P1230 Exhaled Carbon Monoxide and Asthma Among Children in Lima, Peru/A.A. Pereira, S.L. Pollard, R. Locke, K.M. Romero, J.J. Lima, N.N. Hansel, W. Checkley, Baltimore, MD, p.A2038

Facilitator: S. Guerra, MD, PhD, MPH, Tucson, AZ

P1231 Relationship Between Indoor Volatile Organic Compounds and Asthma in Older Adults/B.J. Polivka, R.A. Barnett, R. Gopalraj, A. Jorayeva, J. Myers, R. Folz, Louisville, KY, p.A2039

P1232 COPD Phenotype Profiling in Patients Suffering from Warm Period Exacerbations Due to Urban Heat Stress in Berlin, Germany in View of Climate Change/C. Witt, V. Dostal, M. Jehn, J.B. Heinsohn, M. Hanisch, U. Liebers, A.J. Schubert, D. Scherer, W. Pankow, Berlin, Germany, p.A2040

P1233 Perceptions and Experiences of Physicians on the Health Effects of Climate Change in a Vulnerable City in Africa/O.N.O. Nwankwo, G.I. Nwankwo, C. Akpa, C.A. Anyigor, M.A. Akpoke, F. Onwe, Calabar, Nigeria, p.A2041

P1234 Extreme Temperatures and Lung Function in the Framingham Heart Study/M.B. Rice, W. Li, E.H. Wilker, D.R. Gold, J. Schwartz, P. Koutrakis, G. Washko, G.T. O'Connor, M.A. Mittleman, Boston, MA, p.A2042

P1235 Advanced Exhaled Breath Aerosol (EBA) Collection Using Cryogenic Impaction/D.K. Milton, S. Youssefi, G.S. Lewis, S.V. Hering, College Park, MD, p.A2043

P1236 Association Between Endotoxin, Damp Housing and Current Wheeze in Adults Living in Two First Nations Communities/S.P. Kirychuk, E. Russell, C. Karunanayake, D.C. Rennie, B. Thompson, V. Ramsden, J.A. Lawson, S. Abonyi, J. Dosman, P. Pahwa, Saskatoon, Canada, p.A2044

P1237 Chemical Adducts of Flavorants With E-cigarette Liquid Solvents Act as Modulators of Respiratory Irritant Receptors/H.C. Erythropel, S.V. Jabba, T.M. DeWinter, M. Falinski, P.T. Anastas, J.B. Zimmerman, S.E. Jordt, New Haven, CT, p.A7583



P1238 **Determinants of Incident Asthma-COPD Overlap Compared to Asthma and COPD Alone: A Prospective Study of 55,110 Middle-Aged Adults**/C.B. Barnes, Z.J. Andersen, K. Overvad, A. Tjønneland, C.S. Ulrik, Hvidovre, Denmark, p.A7584

THEMATIC POSTER SESSION

A60 ADVERSE EFFECTS OF TOBACCO, MARIJUANA, AND RECREATIONAL DRUGS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area N, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: S.E. Jordt, PhD, Durham, NC
T. Uno, MD, PhD, Niigata, Japan

P1457 **Heart Rate and Blood Pressure Effects of Daily Inhalation of Nicotine Containing E-Cigarette Vapor**/A. Du, J. Shin, J.H. Lee, E.C. Breen, S.A. Vitorino, L.E. Crotty Alexander, San Diego, CA, p.A2045

P1458 **Experimentation of Hookahs and Tobacco Consumption Among College Students**/M.F. Rabahi, L.A. Souza Oliveira, Goiania, Brazil, p.A2046

P1459 **Knowledge of Health Consequences of Cigarette Smoking Among Smokers in Nigeria: A National Survey**/B.O. Adeniyi, O.S. Ilesanmi, D. Obaseki, B.I. Awokola, G.E. Erhabor, Ondo State, Nigeria, p.A2047

P1460 **Smoking and Abnormalities in Complete Blood Count: Insights from the NHANES (2004-2015)**/S.R. Mummadi, R. Mishra, A. Kumbam, H. Avella, P. Hahn, Hillsboro, OR, p.A2048

P1461 **Tobacco Control Legislation Was Associated with a Decreased Smoking Prevalence Among Teenage in Macau**/L.L. Lo, T.H. Cheong, H.T. Chan, Macau, Macau Prc, p.A2049

P1462 **Is Sleep Behavior Related to Tobacco Use and Physical Activity Capacity in Pulmonary Care Patients**/J.C. Brown, A. Satti, A. Tate, G. Ma, F. Patterson, Philadelphia, PA, p.A2050

P1463 **Up in Smoke: An Unusual Cause of Diffuse Alveolar Hemorrhage**/M.I. Shafi, S. Liaquat, R. Owen, D. Auckley, Cleveland, OH, p.A2051

P1464 **Vaping and Tension Pneumothorax: A Life-Threatening Association**/T. Lo, Kailua, HI, p.A2052

P1465 **Electronic Cigarette and Tobacco Product Use in Adolescents in Johannesburg - Results from a Survey**/E. Shaddock, Johannesburg, South Africa, p.A2053

Facilitator: K.L. Bailey, MD, Omaha, NE

P1466 **Cigarette Smoke Prevalent Polycyclic Aromatic Hydrocarbons Can Elicit Co-Carcinogenic Properties**/A.K. Bauer, S. Plottner, K. Velmurugan, K.-N. Xiong, T. Bruning, H. Kafferlein, Aurora, CO, p.A2054

P1467 **Nicotine, Aerosol Particles, Carbonyls and Volatile Organic Compounds in Tobacco and Menthol Flavored E-Cigarettes**/M.-S. Lee, R.F. LeBouf, Y.-S. Son, P. Koutrakis, D.C. Christiani, Boston, MA, p.A2055

P1468 **Methamphetamine and Common Pulmonary Diseases: A Retrospective Investigation of Hospital Discharges in California from 2005 Through 2011**/H. Tsai, J.H.-Y. Lee, H. Hedlin, R.T. Zamanian, V. De Jesus Perez, Stanford, CA, p.A2056

P1469 **Electronic Cigarette Vapor Regulates Gene Expression in Pediatric Human Lung Epithelial Cells**/Q. Wang, J. Mereness, S. Bhattacharya, R.S. Misra, H. Huyck, A. Howell, U.O.R.M. Center, K. Donlon, G.S. Pryhuber, T.J. Mariani, Rochester, NY, p.A2057

P1470 **Your Heart. Your Heart on Drugs ... Any Questions?/K. Sanchez, J. Acloque, A.A. Agosto-Mujica, J.R. Aleman-Ortiz, Ponce, PR, p.A2058**

P1471 **Aspiration of Cocaine Filter; A Rare Complication of Smoking Crack Cocaine**/M. Wakin, R.B. Mitchell, A. Modak, C.P. Bulathsinghala, S. Surani, Corpus Christi, TX, p.A2059

P1472 **Status Epilepticus from Nasal Insufflation of Wellbutrin/R. Sharara, A. Fasanya, V. Gandhi, K. Malik, Pittsburgh, PA, p.A2060**

P1473 **The Evolving Opioid Epidemic: A Case Report of Loperamide Abuse**/T.C. Locke, K.C. Vranas, S. Nonas, Portland, OR, p.A2061

P1474 **Synthetic Marihuana: A Dangerous Drug Associated with Rhabdomyolysis**/K. Davila, J.R. Aleman-Ortiz, F. Vazquez-Roura, Ponce, PR, p.A2062

Facilitator: G.M. Hunninghake, MD, Boston, MA

P1475 **Encephalopathy and Kidney Injury as Unexpected Complications of Recreational Drugs Use: A Case Series/A. Dones Rodriguez, K.X. Rivera Manzano, J.E. Nieves-Scharon, H.J. Maldonado-Quintana, M. Cruz Caliz, R.A. Hernandez, R. Fernandez, M. Betancourt, J. Adorno, San Juan, PR, p.A2063**

P1476 **Cannabis Induced Broncho Pneumonitis Leading to Fatal Cardiac Arrhythmia**/W.P. Kyaw, M.S. Win, T.W. Naing, Brooklyn, NY, p.A2064

P1477 **Almost Legal but Still Potentially Lethal: A Case of Marijuana Induced Hemoptysis**/A.A. Husain, A.R. Thopu, M. Parker, Atlanta, GA, p.A2065

P1478 **DAHzed and Confused: Alveolar Hemorrhage Associated with Synthetic Cannabinoid Use**/B. Wendlandt, D. Henke, Chapel Hill, NC, p.A2066

P1479 **Low Cigarette Smoking Prevalence in Four Resource-Limited Settings in Peru: Results from a Population-Based Study of Tobacco Use by Self-Report and Urine Cotinine**/B. Morgan, K.M. Leifheit, K. Romero, R. Gilman, A. Bernabe-Ortiz, J.J. Miranda, H.I. Feldman, J.J. Lima, W. Checkley, Baltimore, MD, p.A2067

P1480 **Distinguishing Human Peripheral Blood NK Cells from Local CD69+CD56brightCD16- Nasal Mucosal NK Cells**/M.E. Rebuli, E. Pawlak, D. Walsh, I. Jaspers, Chapel Hill, NC, p.A2068

P1481 **Impact of Electronic Cigarette Exposure on the Pulmonary Circadian Rhythm**/A. Lechasseur, J. Routhier, E. Jubinville, M. Hamel-Auger, J.-C. Berube, S. Aubin, M.-E. Pare, M.-J. Beaulieu, C. Duchaine, Y. Bosse, M.C. Morissette, Quebec, Canada, p.A2069



- P1482** **Acute Pulmonary Effects of Aerosolized Nicotine in Rodents/S.** Ahmad, I. Zafar, N. Mariappan, M. Husain, A. Ahmad, Birmingham, AL, p.A7585
- P1483** **E-Cigarette Vapor Inhalation Leads to Impaired Arteriolar Vascular Function in Mice/B.** Erdreich, W.K. Mandler, I.M. Olfert, Morgantown, WV, p.A7586

THEMATIC POSTER SESSION

A61 TUBERCULOSIS DISEASE: HOST RESPONSE AND DIAGNOSTICS

9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area D, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: M. Mirsaeidi, MD, Miami, FL

- P367** **The Role of Interleukin (IL)-4 and T-Helper (Th)-2-Like Cytokines in the Host Immune Response to Tuberculosis/A.S.** Pooran, M. Davids, A. Nel, A. Shoko, J. Blackburn, K.U.J. Dheda, Cape Town, South Africa, p.A2070
- P368** **Evaluation and Characterization of IL-9 Producing T-Cell Subsets in Tuberculosis/A.S.** Pooran, M. Davids, F. Thompson, K.U.J. Dheda, Cape Town, South Africa, p.A2071
- P369** **Effects of Air Pollution Particulate Matter on Adaptive Antimycobacterial Immunity/O.** Ibrionke, C. Carranza, S. Sarkar, S. Schwander, Piscataway, NJ, p.A2072
- P370** **Air Pollution Particulate Matter Alters Human Alveolar Macrophage Responses to Mycobacterium Tuberculosis/S.** Sarkar, Y. Gonzalez, C. Carranza, M. Torres, J. Zhang, S. Schwander, Piscataway, NJ, p.A2073
- P371** **Relation of Leptin, TNF-Alpha and IL-6 with Respiratory and Peripheral Muscle Strength, and Nutritional Status in Active Pulmonary Tuberculosis/D.R.** Silva, E.C. Skupien, T.K. Lazzari, S.E. Coutinho, Porto Alegre, Brazil, p.A2074
- P372** **Determinating the Predominant TB Lineage Amongst Extrapulmonary TB Cases at MRC Unit, The Gambia Clinic/T.I.** Faal-Jawara, N.B. Ofori-Anyinam, F.S. Mendy, J. Otu, F. Gehre, O. Secka, Banjul, Gambia, p.A2075
- P373** **Diagnostic Ability of Specialists on the Areas Other than Respiratory Medicine in Relation to Pulmonary Tuberculosis in the Emergency Department/H.** Takata, C. Nishio, H. Tomioka, Kobe, Japan, p.A2076

Facilitator: P.C. Karakousis, MD, Baltimore, MD

- P374** **More than a Decade of Tuberculosis Diagnosis in MRC Unit, the Gambia(MRCG)/F.S.** Mendy, A.K. Faburay, O. Secka, A. Ayorinde, T.I. Faal-Jawara, J. Otu, Banjul, Gambia, p.A2077
- P375** **Challenges in the Diagnosis and Management of Pediatric Pulmonary Tuberculosis in Madagascar/E.** Cordes, R. Roach, Kalamazoo, MI, p.A2078

- P376** **Leukocyte Count and Its Diagnostic Value in Newly Diagnosed Tuberculosis Patients at the Douala General Hospital, Cameroon/B.H.** Mbatchesou Ngahane, E. Abinkeng Tazifua, E. Ngouadjeu Dongho, H. Luma Nammé, Douala, Cameroon, p.A2079
- P377** **Performance Comparison of Lowenstein-Jensen (LJ) Media Supplemented with Pyruvate, Glycerol and a Combination of Both to Assess the Growth of Mycobacterium Tuberculosis Complex/A.K.** Faburay, F.S. Mendy, J. Otu, T.I. Faal-Jawara, F. Gehre, O. Secka, Banjul, Gambia, p.A2080
- P378** **Evaluation of the Kudoh Method for Mycobacterial Culture: The Gambia Experience/T.** Jobarteh, J. Otu, E. Gitte, F.S. Mendy, T.I. Faal-Jawara, N.B. Ofori-Anyinam, A. Ayorinde, O. Secka, F. Gehre, M. Antonio, Banjul, Gambia, p.A2081
- P379** **Factors Related to Delayed Diagnosis of Sputum Smear-Positive Pulmonary Tuberculosis/M.** Nakanishii, H. Fujiwara, S. Tani, T. Kobayashi, T. Yagi, K. Yamaki, Ichinomiya City, Japan, p.A2082
- P380** **Sodium Hydroxide-N-Acetyl-L-Cystein (NaOH-NALC) and 0.7% Chlorhexidine Decontamination Method in Detection of Mycobacterium Tuberculosis: A Comparative Analysis/E.** Gitte, J.K. Otu, T. Jobarteh, F.S. Mendy, T.I. Faal-Jawara, N.B. Ofori-Anyinam, A. Ayorinde, O. Secka, F. Gehre, M. Antonio, Banjul, Gambia, p.A2083

Facilitator: K.U.J. Dheda, MD, PhD, Cape Town, South Africa

- P381** **Evaluation of the Operating Characteristics of GeneXpert® MTB/RIF at a National Reference Center: Hospital Universitario San Ignacio, Bogota, Colombia/M.J.** Fernandez Sanchez, J.I. Lasso, A. Canas, C.F. Morantes Ariza, G. Cortes, L.Y. Sanchez Duran, C.A. Celis Preciado, Bogota, Colombia, p.A2084
- P382** **Bronchoalveolar Lavage GeneXpert MTB/Rif® Performance in Smear-Negative Pulmonary Tuberculosis - a Tertiary Care Experience in Rio de Janeiro, Brazil/T.T.** Mafort, L.S. Rodrigues, A.P. Santos, L.V.T. Reis, L.F. Faria, G.M.X. Brito, J.M. Leung, B.M. Pinto, R. Rufino, Rio de Janeiro, Brazil, p.A2085
- P383** **Drug Resistance Pattern Among Extrapulmonary Tuberculosis Cases in a Tertiary Care Center in India/S.K.** Sharma, J. Chaubey, B.K. Singh, R. Sharma, A. Mittal, New Delhi, India, p.A2086
- P384** **Xpert MTB/RIF Assay in Bronchoalveolar Lavage Specimen in Smear Negative Pulmonary Tuberculosis/D.** Bhattacharyya, M. Kumar, Delhi Cantt, India, p.A2087
- P385** **Study of Diagnostic Utility of Xpert MTB/Rif Test on Pleural Fluid in the Evaluation of Patients Presenting with Pleural Tuberculosis in High Prevalence Setting/D.R.** Mishra, N. Bhatta, M. Lamsal, N. Bhattarai, R. Maskey, Dharan, Nepal, p.A2088
- P386** **Gene Chip Technology to Detect Mycobacteria and Resistance in the Application of Tuberculous Empyema/X.** Chen, Fuzhou, China, p.A2089
- P387** **The Diagnostic Value of Pleural Fluid Neopterin Level in Tuberculous Pleurisy/S.** Erol, A. Ciledag, A. Kaya, S. Cesur, Y. Fidan, S. Kinikli, N. Numanoglu, Ankara, Turkey, p.A2090



Facilitator: L.E. Bermudez, MD, Corvallis, OR

- P388** **Elevated IL-33 in Tuberculous Pleural Effusion: A Novel Biomarker?**/Z. Xu, C. Cao, T. Lai, B. Tian, T. Li, Z. Dong, H. Shen, Ningbo, Zhejiang, China, p.A2091
- P389** **Measurement of Interferon-Gamma (IFN- γ) and IFN- γ -Inducible Protein 10 (IP-10) in Combination on Pleural Fluid as an Alternative to Adenosine Deaminase for Diagnosis of Tuberculosis**/A.P. Santos, R. Correa, M. Ribeiro Alves, A.C. Alves, M. Almeida, G. Pereira, T.T. Mafort, L.S. Rodrigues, R. Rufino, Rio de Janeiro, Brazil, p.A2092
- P390** **The Diagnostic Challenge of Pleural Tuberculosis - Criteria Used at an University Hospital in Rio de Janeiro, Brazil**/A.P. Santos, M. Almeida, M. Ribeiro Alves, J.M. Leung, R. Correa, L.S. Rodrigues, R. Rufino, Rio de Janeiro, Brazil, p.A2093
- P391** **Cytological Diagnostic of Tuberculosis of Eosinophilic Material with Dark Brown Particles**/H. Delyuzar, Medan, Indonesia, p.A2094
- P392** **The Advantage of Fine Needle Aspiration Biopsy Compared to Ziehl Neelsen Examination in Tuberculous Lymphadenitis**/H. Delyuzar, Medan, Indonesia, p.A2095
- P393** **The Validity of Pleuroscopy in Diagnosing Tuberculosis and Lung Cancer: A Malaysian Tertiary Hospital's Experience**/N.Y. Mohd Esa, M.A. Mohd Zim, A.I. Ismail, M.F. Abdul Rani, Sungai Buloh, Malaysia, p.A2096

THEMATIC POSTER SESSION

A62 TREATMENT OF TUBERCULOSIS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area D, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: C. Magis-Escurra, MD, PhD, Groenbeck, Netherlands

- P395** **Functional and Structural Outcomes in Patients with Pulmonary Tuberculosis Occurred in Pediatric Age**/N. Ullmann, E. Boccuzzi, L. Lancella, R. Cutrera, L. Cursi, A. Krzysztofak, A. Grandin, E. Bozzola, A. Quondamcarlo, A. Villani, Rome, Italy, p.A2097
- P396** **Abdominal TB: An Analysis of the St. Michael's Hospital TB Clinic's Experience in Toronto, Canada**/N. Vozoris, K. Chien, J. Seemangal, V. Hoffstein, J. Batt, Toronto, Canada, p.A2098
- P397** **Tuberculosis in Octogenarian Patients Between 2011-2016 in Fundacion Valle del Lili, a Reference Hospital in Latin America**/L. Fernandez, J.F. Garcia, E. Munevar, R. Pacheco, Cali, Colombia, p.A2099
- P398** **Characterization of a 2013-2016 Cohort of Patients with Multi-Drug Resistant Tuberculosis (MDR-TB) with Major Surgical Management in Fundacion Valle del Lili, a Reference Hospital in Latin America**/L. Fernandez, K. Monroy, M. Velasquez, Cali, Colombia, p.A2100

- P399** **Comparison of Active and Chronic Tuberculosis Patients with Tracheobronchial Stenosis: Clinical, Radiological, Bronchoscopic and Outcome Differences**/E.Y.T. Wong, S. Tan, K.C.H. Lee, S.Y. Low, A.A.L. Hsu, Singapore, Singapore, p.A2101
- P400** **Characteristics and Outcome Analysis of Tuberculous Tracheobronchial Strictures: A South-East-Asian Single-Centre Experience of 141 Patients During an 18-Years Period**/E.Y.T. Wong, K.C.H. Lee, S. Tan, S.Y. Low, A.A.L. Hsu, Singapore, Singapore, p.A2102
- P401** **Predictors of Delay to Accessing Care among Tuberculosis Patients in Southern India**/S.E. Van Ness, A. Chandra, S. Sarkar, J. Pleskunas, C.R. Horsburgh Jr., J.J. Ellner, G. Roy, H.E. Jenkins, N.S. Hochberg, Boston, MA, p.A2103
- P402** **Case Report: Culture Conversion in Bedaquiline Contain Regimen of Pre-XDR and XDR TB Treatment in Persahabatan Hospital in Indonesia**/F. Isbaniah, Jakarta Timur, Indonesia, p.A2104

Facilitator: R.A. Accinelli, MD, Lima, Peru

- P403** **Are There Factors that Predict Intensive Care Unit Admission in Patients with Active Mycobacterium Tuberculosis Infection: A Retrospective, Cohort Study**/S. Patel, N.M. Shah, N.M. Malhotra, N. Hussain, K. Myall, H. Milburn, R.A. Breen, London, United Kingdom, p.A2105
- P404** **Weight Trends During Successful Tuberculosis Treatment in Rural, Central India, 2010 -2015**/T. Laux, S. Patil, B. Ghali, Y. Jain, R. Kataria, San Francisco, CA, p.A2106
- P405** **Clinical Outcomes of Critically Ill Patients with Tuberculosis, a Nationwide Analysis with the Korean Intensive Care Unit National Data (KIND)**/J. Park, H. Park, C.R. Chung, J.H. Yang, C.-M. Park, J. Cho, E. Guallar, G.Y. Suh, K. Jeon, Seoul, Korea, Republic of, p.A2107
- P406** **Smoking Influences the Conversion of Sputum and the Quantity of Acid-Fast Bacilli Bacteria in Intensive Phase Treatment Among TB Patients in Banda Aceh, Indonesia**/H. Priyanto, Banda Aceh, Indonesia, p.A2108
- P407** **The Effect of Metformin on Culture Conversion in Tuberculosis Patients with Diabetes Mellitus(DM)**/Y.J. Lee, J.-J. Yim, S.K. Han, J.H. Park, J.K. Lee, D.K. Kim, H.S. Hee Soon Chung, E.Y. Heo, Seoul, Korea, Republic of, p.A2109
- P408** **The Effect of Metformin on Smear and Culture Conversion of Diabetic Patients with Tuberculosis**/A.P. Santos, D. Lavagnoli, G. Amorim, J. Oliveira, S. Riva, F. Mello, Rio de Janeiro, Brazil, p.A2110
- P409** **Evaluation of Host Markers for Tracking Early Treatment Response in Newly Diagnosed Pulmonary TB Patients: Early Bactericidal Activity (EBA) Study**/D.O. Awoniyi, N.N. Chegou, A. Teuchert, M. Kidd, A. Diacon, R. Dawson, G. Walzl, Cape Town, South Africa, p.A2111

Facilitator: L.N. Friedman, MD, Milford, CT

- P410** **Prevalence and Outcomes of Xpert MTB/RIF-Detected Drug Susceptible and Resistant Tuberculosis in a Post-Conflict Region of the Democratic Republic of the Congo, 2012-2015**/A.N.H. Bulabula, E.M. Musafiri, L.N. Kitete, J. Chirambiza, D. Kalumuna, R. Nyota, Z. Kashongwe, G. Theron, R. Warren, J. Nachege, Cape Town, South Africa, p.A2112



- P411 Primary Multi Drug Resistant Tuberculosis: A Reality in the Rise of Multi Drug Resistant Tuberculosis/L.V. Mirchandani, M. Bhide, H. Sai, Mumbai, India, p.A2113**
- P412 Clinical Profiles of Linezolid Resistant Tuberculosis Cases in Mumbai/S.R. Ganatra, Z.F. Udwadia, J.B. Mullerpattan, R.A. Banka, U. Sharma, P.G. Kambli, C.S. Rodrigues, Mumbai, India, p.A2114**
- P413 Hypersensitivity Reactions to Tuberculosis Drug/J.-S. Chang, H.-J. Shin, T.-O. Kim, Y.-S. Kwon, Gwangju, Korea, Republic of, p.A2115**
- P414 Hepatotoxicity Monitoring in Active and Latent Tuberculosis (TB) Treatment/S. Stinchcombe, K. McMillan, E. Cooley, S. Ladner, Cambridge, United Kingdom, p.A2116**
- P415 Mitochondrial DNA Variants in Drug-Induced Liver Injury by Anti-Tuberculosis Agents/H.-C. Chang, L.-N. Lee, I.-S. Jan, S.-C. Lo, W.-C. Cheng, Y.-F. Lee, J.-Y. Wang, C.-L. Hsu, Taipei, Taiwan, p.A2117**
- P416 The Effect of Diabetes and Comorbidities on Tuberculosis Treatment Outcomes/N.R. Degner, J.-Y. Wang, J.E. Golub, P.C. Karakousis, Baltimore, MD, p.A7587**

THEMATIC POSTER SESSION

A63 CASE REPORTS: FUNGAL

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area D, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: C.A. Hage, MD, Indianapolis, IN

- P418 Extrapulmonary Coccidiomycosis Masquerading as Lymphoma/A. Dheyab, A.T.C. Lim, A. Pfenniger, S.E. Kopec, Worcester, MA, p.A2118**
- P419 Hypotension and Hypoxia After 30 Days of Steroids: A Case for Rethinking Pneumocystis Jiroveci Prophylaxis Guidelines/A. Devaraj, J. Moran, Boston, MA, p.A2119**
- P420 A Rare Case of Pulmonary Eosinophilia Caused by Coccidioidomycosis/E. Mlodzinski, C. Kyung, A. Surani, H. Ojeda-Martinez, P. Belligund, Brooklyn, NY, p.A2120**
- P421 Miliary Pneumocystis Jiroveci Pneumonia in an AIDS Patient/R. Butzko, J.D. Caceres, A. Berman, A. Patrawalla, Newark, NJ, p.A2121**
- P422 Bronchoscopy Reveals a Diagnostic Headache: A Case of Central Nervous System Blastomycosis/J.H. Lyoo, J. Longoria, M. Davoudi, Orange, CA, p.A2122**
- P423 An Interesting Localisation of Fungus Ball: Paratracheal Aspergiloma/C. Dogan, T. Baysal, S.S. Comert, A. Atalay, S.B. Sagmen, B. Salepci, D.E. Ilgici, Istanbul, Turkey, p.A2123**

- P424 Fibrosing Mediastinitis: A Rare Complication of Histoplasmosis/A. Chada, K.S.S. Kakkera, K. Chatterjee, M. Joshi, Little Rock, AR, p.A2124**
- P425 Pneumocystis Jiroveci Pneumonia Presenting as a Solitary Pulmonary Nodule in a Patient with Acquired Immune Deficiency Syndrome/F.J. Ramos Tuarez, J.B. Rosenthal, Atlantis, FL, p.A2125**
- P426 Progressive Disseminated Histoplasmosis in an Immunocompetent Host: Case Report/L. Fernandez, J.D. Yara, J.D. Izquierdo, A.M. Morales, L.F. Sua, L. Gutierrez, Cali, Colombia, p.A2126**
- P427 Cryptococcal Meningitis and Pneumonia in an Immunocompetent Host Associated with Pigeon Exposure/J. Morante, S. Sarkar, M. Mora, J. Friedman, F. Bagheri, M. Babury, Jamaica, NY, p.A2127**

Facilitator: E.M. Carmona, MD, PhD, Rochester, MN

- P428 Invasive Candidiasis Presenting as a Cavitary Lung Lesion Post Renal Transplant/T. Hassam, T. Russi, Brooklyn, NY, p.A2128**
- P429 Aspergillus Empyema in a Liver Transplant Patient/N.Y. Madisi, G.B. Chun, New York, NY, p.A2129**
- P430 Coexisting Pulmonary Cryptococcosis and Pulmonary Tuberculosis in an Immunocompetent Host/S. Vanaik, N. Patel, A. Wani, Philadelphia, PA, p.A2130**
- P431 Spiculated Lung Nodule: A Rare Presentation of Subacute Invasive Aspergillosis/B. Bajantri, M. Adrish, Bronx, NY, p.A2131**
- P432 Disseminated Rhizopus Infection Diagnosed Via Endobronchial Biopsy/P. Eckerle, C.M. Kniese, F. Sheski, Indianapolis, IN, p.A2132**
- P433 Invasive Pulmonary Aspergillosis Following a Short Course of Steroids in an Immunocompetent Patient/N. Pletukhina, V. Keenan, A. Matela, J. Pang, S. Chawla, S. Salzman, Mineola, NY, p.A2133**
- P434 Cryptococcal Pleural Effusion - Rare Presentation/V.R.K. Angirekula, E. Warren, Cleveland, OH, p.A2134**
- P435 Cryptococcal Pneumonia in an Immunocompetent Patient with Acute Respiratory Failure/C. Schuring, A. Khan, A. Sodhi, D. Kadaria, Memphis, TN, p.A2135**
- P436 A Case Report of Pulmonary Endobronchial Cryptococcosis Causing Tracheal Stenosis in an Immunocompetent Patient/L.X. Le, A. Ali, R. Suliman, S. O'Keiff, M. Patel, Amarillo, TX, p.A2136**

Facilitator: O. Epelbaum, MD, Valhalla, NY

- P437 Pulmonary Histoplasmosis Causing Stroke-Like Symptoms/M. Zetir, J.S. Imam, T. Bhattacharya, M. Reza, W. Bosch, Jacksonville, FL, p.A2137**
- P438 A Rare Association with Aspergilloma: Intralobar Pulmonary Sequestration/A. Ritwani, B. Stephenson, A. Vinayak, Washington, DC, p.A2138**
- P439 ARDS Secondary to Pulmonary Blastomycosis: A Case Report/M. Ghosh, A. Sinha Ray, F. Saeed, S. Ghosh, M. Song, New York, NY, p.A2139**



- P440 Allergic Bronchopulmonary Aspergillosis (ABPA) in Human Immunodeficiency Virus (HIV) Positive Patient, Uncommon Pulmonary Complication/A.** Alhaddad, R.A. Leonard, K. Hussain, Morgantown, WV, p.A2140
- P441 Penicillium Marneffeii Presenting as a Pneumonia and Obstructive Airway Disease Exacerbation/S.** Chaaban, K. Thavarajah, Detroit, MI, p.A2141
- P442 Disseminated Cryptococcus Neoformans Infection in a Patient with Pulmonary Sarcoidosis/S.** Yadam, S. Kung, R. Thirumala, N. Bhanot, Pittsburgh, PA, p.A2142
- P443 Splenectomy as the Sole Risk Factor for Invasive Pulmonary Aspergillosis/A.** Mehrotra, I. Romero-Legro, J.M. Lanfranco, Memphis, TN, p.A2143
- P444 Pneumonia by Pneumocystic Jiroveci in a Diabetic Patient/A.** Grosso, M.M. Perin, S.D. Leiva Aguero, R. Berenguer, P. Vujacich, C.M. Luna, Buenos Aires, Argentina, p.A2144
- P445 Disseminated Coccidioidomycosis- an Usual Timeline/L.** Littlefield, H. Schub, Oakland, CA, p.A2145
- Facilitator:** S.T. Qureshi, MD, Montreal, Canada
- P446 Oro-Pleural Tube and Candida Empyema/R.** Zulfikar, R. Sangani, R.C. Stansbury, K. Hussain, Morgantown, WV, p.A2146
- P447 Invasive Pulmonary Candidiasis: An Under-Recognized Cause of Multiple Cavitory Nodules?/A.** Kadambi, O. Epelbaum, Valhalla, NY, p.A2147
- P448 A Fatal Case of Cavitory Candidal Pneumonia with Subsequent Acute Disseminated Candidiasis in a Non-Neutropenic Patient/G.P.** Ranches, G. Allada, D.R. Sullivan, Portland, OR, p.A2148
- P449 The Diagnostic Utility of Chest CT Scan and Bronchoscopy for Pulmonary Mucormycosis in Patients with Hematological Malignancy: A Report of Two Cases/Y.** Naito, H. Hirata, M. Kuroyama, T. Koba, M. Hamaguchi, T. Otsuka, I. Nagatomo, Y. Takeda, H. Kida, T. Kijima, A. Kumanogoh, Osaka, Japan, p.A2149
- P450 Atypical Presentation of Invasive Pulmonary Aspergillosis in an Immunosuppressed Patient/C.** Chan, N. Shukla, N. Gupta, A. Singla, Dayton, OH, p.A2150
- P451 Aspergillus Tracheobronchitis in an Immunocompetent Patient During Influenza-Endemic Season/A.** Sugawara, S. Yamagata, S. Okada, Z. Watanuki, Y. Takeuchi, Ogawara, Shibata-gun, Japan, p.A2151
- P452 55 Year-Old Man with Graft Vs. Host Disease Develops Progressive Aspergillosis Despite Dual Coverage with Voriconazole and Amphotericin B/L.A.** Seaburg, T. Albert, Seattle, WA, p.A2152
- P453 Pulmonary Alveolar Proteinosis Complicated by Blastomycosis/M.J.** Hellmann, K. Luckett, K. Hudock, Cincinnati, OH, p.A2153
- P454 Acute Pulmonary Blastomycosis with ARDS in an Immunocompetent Patient/J.** Chambers, M. Sehring, N.A. Smith, Peoria, IL, p.A2154

Facilitator: C.C. Kennedy, MD, Rochester, MN

- P455 Pneumocystis Pneumonia with Rare Histological Finding of Granulomatous Inflammation in an Immunocompromised Patient with Chronic Lymphocytic Leukemia on Obinutuzumab/C.** Donatelli, C.V. Teba, M.C. Yang, J. Kazakov, J. Alderson, Cleveland, OH, p.A2155
- P456 Chronic Pulmonary Aspergillosis Complicated with Pulmonary Abscess: A Case Report/C.M.P.** De Moura, R.P. Rodrigues, K.S. Nunes, J.V.T. Rech, N.M. Matzumoto, V.D.P. Urbano, Florianopolis, Brazil, p.A2156
- P457 Recurrent Pneumocystis Jirovecii Pneumonia Presenting as Necrotizing Granulomatous Disease with Diffuse Pulmonary Nodules/K.C.** Ma, A.C. Racanelli, M.T. Lizardi, R.A. DeSimone, A. Sanders, New York, NY, p.A2157
- P458 Pseudomembranous Aspergillar Tracheobronchitis in a Non-Neutropenic Critically Ill Patient in the Intensive Care Unit/S.** Khalid, F. Asad-ur-Rahman, A. Abbass, A. Munaf, S. Aldarondo, K. Abusaada, Orlando, FL, p.A2158
- P459 Extrinsic Airway Compression Secondary to Histoplasma Mediastinal Granuloma/N.** Choi, P.W. Kicker, R. Browning, Bethesda, MD, p.A2159
- P460 Chronic Pulmonary Blastomycosis Mimicking Pulmonary Tuberculosis/M.** Koroscil, San Antonio, TX, p.A2160
- P461 Pulmonary Histoplasmosis During Vedolizumab Therapy for Crohn's Disease/F.** Zahiruddin, X. Nan, J. Zimmerman, Houston, TX, p.A2161
- P462 Invasive Pulmonary Aspergillosis in a Steroid-Dependent Asthmatic/B.A.** Jaumally, A. Salem, Baltimore, MD, p.A2162
- P463 Acute Histoplasmosis Lymphadenitis Diagnosed by TBNA/D.** Mabe, Bethesda, MD, p.A2163

THEMATIC POSTER SESSION

A64 BRONCHOPULMONARY DYSPLASIA

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area F, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: S.H. Guttentag, MD, Nashville, TN

- P633 Outcomes in Preterm Infants After Using 24-Hour Oxygen Saturation Histogram to Titrate Oxygen/M.D.** Go, M. Rosenberger, C. Mahajan, St. Petersburg, FL, p.A2164
- P634 Lung Epithelial Over-Expression of Type II TGFβ Receptor Interacting Protein-1 (TRIP-1) Maintains Higher TRIP-1 Expression During Early Postnatal Lung Development and Resists Hyperoxia-Induced Apoptosis/M.F.** Nyp, M. Navarro-Olmo, S. Mabry, I.I. Ekekezie, V. Sampath, Kansas City, MO, p.A2165



- P635** **Treprostinil Use for Pulmonary Hypertension in Congenital Diaphragmatic Hernia/K.M. Lawrence, H.L. Holly, L. Herkert, L.N. Waqar, H.M. Bodenstab, B. Hanna, W.H. Peranteau, N.E. Rintoul, R.K. Hopper, Philadelphia, PA, p.A2166**
- P636** **Increased Rates of Decannulation Following Tracheostomy in Children with BPD/A.R. Strang, J. Briddell, P. Barth, U. Shah, A. Chidekel, Wilmington, DE, p.A2167**
- P637** **Ventilator-Induced Diaphragmatic Dysfunction in Neonates/H. Asai, T. Nakamura, T. Hiroma, K. Nagaya, Azumino, Japan, p.A2168**
- P638** **Impact of Respiratory Viral Infections on School Age Outcomes in Prematurely Born Children/V. MacBean, S. Drysdale, M.N. Yarzi, G.F. Rafferty, A. Greenough, London, United Kingdom, p.A2169**

Facilitator: V. Bhandari, MD, DrMed, Philadelphia, PA

- P639** **Persistent Pulmonary Hypertension in Congenital Diaphragmatic Hernia/R.K. Hopper, B. Hanna, S.M. Kawut, N.E. Rintoul, H.L. Hedrick, Philadelphia, PA, p.A2170**
- P640** **Flexible Bronchoscopy Is Safe and Changes Management in Neonates with Severe Bronchopulmonary Dysplasia in the NICU/E.B. Hysinger, J. Piccione, Cincinnati, OH, p.A2171**
- P641** **Evaluating Maternal Preeclampsia as a Risk Factor for Developing Bronchopulmonary Dysplasia/M. Sagar, C. Ogborn, M.R. Beeram, V.N. Raju, L. Mallett, Temple, TX, p.A2172**
- P642** **Fixing the "Presumed" Unfixable: The Tracheopexy Procedure Improves the Lives of Infants and Children with Tracheomalacia/L. Frain, G. Visner, R. Jennings, N. Palumbo, K. GilletteMekarian, K. Chamberlain, Boston, MA, p.A2173**
- P643** **The Role of Matrikine N-Acetyl Proline-Glycine-Proline (Ac-PGP) in Bronchopulmonary Dysplasia/C.V. Lal, G. Rezonzew, P.L. Jackson, X. Xu, N. Ambalavanan, J.E. Blalock, A. Gaggar, Birmingham, AL, p.A2174**
- P644** **Thioredoxin Reductase Inhibitors Induces Pulmonary Heme Oxygenase-1 by Nrf2-Independent Mechanisms/K. Dunigan, Q. Li, R. Li, S. Wall, T.E. Tipple, Birmingham, AL, p.A2175**

Facilitator: K. Lingappan, MD, Houston, TX

- P645** **Time Dependant Effects of Mechanical Ventilation and Hyperoxia on Central Signalling Pathways in the Developing Lung Identified by Comprehensive Transcriptome Analysis/A. Hilgendorff, T. Pritzke, M. Markmann, P.S. Oak, M. Koschlig, H. Hossain, T.J. Desai, Munich, Germany, p.A2176**
- P646** **Thioredoxin Reductase-1 Dimer Formation in a Newborn Mouse Model of Bronchopulmonary Dysplasia Is Prevented by Aurothioglucose Treatment/R. Li, S. Wall, K. Dunigan, Q. Li, T.E. Tipple, Birmingham, AL, p.A2177**
- P647** **Adverse Impact of Prenatal PAH Exposure on the Developing Lung in a Model of Postnatal Hyperoxic Lung Injury/K. Lingappan, W. Jiang, L. Wang, X. Couroucli, B. Moorthy, Houston, TX, p.A2178**

- P648** **Study Design: Phase II Safety and Efficacy of Inhaled Tissue Plasminogen Activator (Activase) for the Treatment of Acute Pediatric Plastic Bronchitis/K.A. Stringer, K.R. Schumacher, R.L. Caruthers, S.Z. Nasr, J.L. Myers, Ann Arbor, MI, p.A2179**
- P649** **MicroRNA and Protein Expression in the Pathogenesis of Pulmonary Hypertension of the Newborn/P. Silveyra, C. Oji-Mmuo, R. Siddaiah, Hershey, PA, p.A2180**

THEMATIC POSTER SESSION

A65 PEDIATRIC CASE REPORTS: SLEEP AND RESPIRATORY PHYSIOLOGY

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area F, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J. Lew, MD, Washington, DC

- P651** **An Unorthodox Treatment Regimen to Prevent Recurrence of High Altitude Pulmonary Edema (HAPE) in a Young Skier/M. Kostrubiak, A.M. Szema, South Setauket, NY, p.A2181**
- P652** **Pulmonary Artery Embolism in a Child with Sickle Cell Trait: A Rare Association/A.A. Asseri, A. Shati, A. Al-Hanshani, I. Zedani, Tucson, AZ, p.A2182**
- P653** **A Pulmonary Vascular Sling in a Pediatric Patient Presenting with High Altitude Related Symptoms/M.G.Y. Sobremonte-King, J. Prager, K. Villavicencio, E. Zemanick, Aurora, CO, p.A2183**
- P654** **Congenital Central Hypoventilation Syndrome: Co-Occurrence of a PHOX2B Polyalanine Repeat Expansion Mutation (PARM) and a Non-PARM (NPARM) in Newborn with Asymptomatic Parents Carrying the PHOX2B Mutations/Y. Sivan, A. Zhou, L.J. Jennings, E.M. Berry-Kravis, M. Yu, L. Zhou, C.M. Rand, D.E. Weese-Mayer, Tel Aviv, Israel, p.A2184**
- P655** **The Other Tonsils: Complex Chiari Malformation Teaches a Sleep Apnea Lesson/T.-V. Tran, S.M.M. Hawkins, B. O'Neill, T. Wine, P.C. Stillwell, Aurora, CO, p.A2185**
- P656** **Keep a Patent Mind: An Unusual Cause of Hypoxemia in an 8-Year Old/A. St-Laurent, D. Zielinski, Montreal, Canada, p.A2186**
- P657** **Diaphragm Electrical Activity Monitoring as a Breakpoint in the Management of a Tetraplegic Child/G. Mortamet, F. Proux, B. Crulli, P. Juvet, G. Emeriaud, Montreal, Canada, p.A2187**
- P658** **Unusual Development of Cataplexy Symptoms in Sixteen Year Old Female Patient Diagnosed with Narcolepsy/P. Kovacs, M. Weiss, J. Lew, Washington, DC, p.A2188**



THEMATIC POSTER SESSION

A66 THE MANY FACES OF ASTHMA IN CHILDHOOD**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area F, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** Y. Belessis, MBBS (Hons), MPH, PhD, Sydney, Australia**P660 Preterm and Early Term Births Are Associated with a Higher Risk of the Receipt of Special Medical Reimbursement for Asthma Medication: Helsinki 1987-1990 Medical Birth Registry Study/P. Nasanen-Gilmore, S. Alenius, M. Vaarasma, M. Gissler, P. Hovi, E. Kajantie, Helsinki, Finland, p.A2189****P661 Long-Term Asthma-Related Readmission in Children Previously Admitted to the Intensive Care Unit for Asthma/S.M. Tse, M.E. Hartman, Montreal, Canada, p.A2190****P662 A Retrospective Review Correlating Seasonal Pediatric Asthma Hospitalizations with Air Pollution, Viral Counts, and Demographic Factors/K.A. King, E. Min, Z. He, Wilmington, DE, p.A2191****P663 Assessment of Stepwise Asthma Treatment in Dutch Children/A. Arabkhaeli, S. Vijverberg, C. Van Der Ent, J. Raaijmakers, A.-H. Maitland-van Der Zee, Utrecht, Netherlands, p.A2192****P664 Pulse Wave Velocity Is Increased in Asthmatic Children and Adolescents Independently of Cardiorespiratory Fitness/J.F. Pinho, C. Botelho, N. Jentzsch, C. De-Paula, L. Sa-Rocha, C. Marotta, G. Magalhaes, L. Ramalho, E. Machado, R. Garcia, M.G. Rodrigues-Machado, Belo Horizonte, Brazil, p.A2193****P665 Four Months of a School Based Exercise Intervention Improved Fitness in Normal Weight and Overweight/Obese Children with Asthma in a Minority, Low SES Population - a Pilot Study/K.D. Lu, D. Cooper, F. Haddad, K.D. Lakes, S. Radom-Aizik, Irvine, CA, p.A2194****P666 The Effect of Cow-Milk Consumption on Respiratory Symptoms and Pulmonary Functions in Asthmatic and Non-Asthmatic Children/Y. Koren, K. Armoni Domany, G. Gut, O. Tavor, N. Malka, Y. Sivan, Tel Aviv, Israel, p.A2195****Facilitator:** S. Zaidi, MD, Washington, DC**P667 Assessment of Lung Function and Asthma Management with a New Forced Oscillation Method in Children/M.H. Jones, A. Vaccari, K.A.D.S. Correa, C.D. De Barros, R.T. Stein, P. Sly, Z. Hantos, D. Czovek, Porto Alegre, Brazil, p.A2196****P668 Development of an Asthma Awareness Film in London Secondary Schools/K. Harris, L. Ahenda, L. Cameron-Mowat, J. Alder, J. James, T. Casement, J. Grigg, London, United Kingdom, p.A2197****P669 A Feasibility Study of Daily Monitoring of Controller and Rescue Medication Use in a Pediatric Patient Population at High Risk of an Asthma Exacerbation/H. Hoch, M.R. Meier, J.T. Brinton, S.J. Szefer, Aurora, CO, p.A2198****P670 The Phenotype of Severe Preschool Asthmatics and Their Response to Add-On Therapy/C. Seaton, K. Hildebrand, A. Pow, C.L. Yang, Vancouver, Canada, p.A2199****P671 Forced Expiratory Flow Between 25% and 75% of Vital Capacity Predicts Impairment and Risk in Pediatric Asthma/G. Phull, N. Nakhleh, A. Petrova, C. Dadzie, Washington, DC, p.A2200****P672 Serum Testosterone Levels in Children with Asthma/S.K. Gadre, J.G. Zein, Cleveland, OH, p.A2201****P673 Exercise Induced Bronchoconstriction in Obese Children with and Without History of Asthma/E. Concepcion, E. Manilich, H. Lee, New York, NY, p.A2202****Facilitator:** K. Tsirilakis, MD, New Hyde Park, NY**P674 Buteyko Method for Children with Asthma: A Randomized Controlled Trial/K.M.P.P. Mendonca, D.A. Freitas, T.M.F. Macedo, A.C.J.S. Silva, C.T. Amaral, T.A. Santino, P. McKeown, Natal, Brazil, p.A2203****P675 Buteyko Method for Children with Asthma and Mouth Breathing: A Randomized Controlled Trial/K.M.P.P. Mendonca, T.M.F. Macedo, D.A. Freitas, A.C.J.S. Silva, C.T. Amaral, T.A. Santino, P. McKeown, Natal, Brazil, p.A2204****P676 Housing Conditions and Their Association with Pediatric Asthma Status in a Peruvian Urban Setting/C.P. Polito, P. Li, L.J. Underhill, S. Hwang, C. Johnson, W. Checkley, N. Hansel, K. Romero, Baltimore, MD, p.A2205****P677 Within-Measurement Variability of Respiratory Impedance and Bronchial Hyperresponsiveness Using Impulse Oscillometry in Young Asthmatic Children/H. Knihtila, A. Kotaniemi-Syrjanen, A.S. Pelkonen, S. Kalliola, M.J. Makela, L.P. Malmberg, Helsinki, Finland, p.A2206****P678 A Prospective Telephone Call Follow-Up Study of Patients Admitted to the Pediatric Intensive Care Unit at Children's Hospital Colorado for Rhino/Enterovirus Infection and Secondary Respiratory Compromise 6 to 12 Months Following Discharge/N. Miyazawa, A. Mizoue, M.R. Meier, J.T. Brinton, B. Hughes, M. Gleason, S.M.M. Hawkins, M. Federico, Aurora, CO, p.A2207****P679 Exercise Challenge Testing in Pediatric Patients with Exercise Induced Dyspnea - Is It Good Enough?/R. Bhatia, E. Schwendeman, Akron, OH, p.A2208****P680 The Combined Use of c-ACT and Spirometry in Asthma Control Identification/F.D.S. Dias, R. Rufino, C.H. Costa, A.J. Lopes, M.D.C. Firmida, S.G. David, Rio de Janeiro, Brazil, p.A2209****Facilitator:** E. Eber, MD., Graz, Austria**P681 Characterization of Patients Diagnosed with Allergic Bronchopulmonary Aspergillosis in the Year 2015 - 2016 in a Pediatric Hospital of Fourth Level/M. Villamil-Osorio, S.M. Restrepo-Gualteros, C. Rodriguez-Martinez, G.R. Nino, Bogota, Colombia, p.A2210**



P682 Prevalence of Asthma Induced Exercise in Children Between 5 and 15 Years/A. Teijeiro, M.N. Joison, M. Zernotti, M. Sanchez Navarro, N. Ross, L. Pizzulli, M.G. Raiden, D. Carrizo, M.N. Cuello, Cordoba, Argentina, p.A2211

P683 A Real World, Retrospective Study Assessing the Effectiveness of Different Valved Holding Chambers in the Management of Asthma and Occurrence of Exacerbations/J. Suggett, V. Kushnarev, D. Coppolo, C. Burudpakdee, London, Canada, p.A2212

P684 A Real World, Retrospective Study Assessing the Effectiveness of Different Valved Holding Chambers in the Management of Asthma and Time to First Exacerbation/J. Suggett, V. Kushnarev, D. Coppolo, C. Burudpakdee, London, Canada, p.A2213

P685 Clinical Profile of Airway Eosinophilia in Children/S. Kilakode, L. Mukharesh, P. Kovacs, A.C. Koumbourlis, Washington, DC, p.A2214

P686 Comparison of 200 I¹/g Versus 400 µg Salbutamol Use for Oscillometric Bronchodilator Response in Children/D.K. Yon, H.M. Jee, S.H. Lee, E.G. Ha, S.W. Lee, S.J. Lee, G.S. Lee, Y.-H. Jung, Y.H. Sheen, M.Y. Han, Seongnam, Korea, Republic of, p.A2215

P687 A Predictive Score of Asthma Among School-Aged Children/S.E. Szentpetery, O. Gruziova, E. Forno, E. Acosta-Perez, G. Canino, E. Melen, J.C. Celedon, Pittsburgh, PA, p.A2216

Facilitator: I. Narang, MD, Toronto, Canada

P688 Physical Activity Among Asthmatic and Non-Asthmatic Children in Two Urban Peruvian Communities/S. Namburur, S. Pollard, K. Romero, M. Grigsby, C. Tarazona-Meza, J. Lima, K. Tomaino, N. Hansel, W. Checkley, Baltimore, MD, p.A2217

P689 Perceptions About Smoking Cessation from Pediatricians and Parents of Children with Asthma: A Survey and Focus Group Study/T. Simoneau, J. Hollenbach, C. Langton, M.M. Cloutier, Hartford, CT, p.A2218

P690 Metered Dose Inhalation Technique Knowledge Amongst Nigerian Senior Resident Doctors/C.I. Ndukwu, J.C. Elo-Ilo, C.N.P. Mbachu, N.N. Ezeama, A.C. Ayuk, Nnewi, Nigeria, p.A2219

P691 Adiposity by DXA and Asthma in a Nationwide Study of Children and Adults in the United States/E. Forno, Y.Y. Han, J.C. Celedon, Pittsburgh, PA, p.A2220

P692 Asthma Comorbidities in Children: Burden and Risk Factors/G. Vieg, G. Ferrante, G. Cilluffo, S. Fasola, V. Malizia, P. Alga, L. Montalbano, G. Passalacqua, S. La Grutta, Palermo, Italy, p.A2221

P693 Assessment of Forced Oscillation Technique in Asthmatic Children Using Quantile Regression Coefficients Modeling/G. Vieg, G. Cilluffo, S. Fasola, G. Ferrante, V. Malizia, L. Montalbano, V.M.R. Muggeo, S. La Grutta, Palermo, Italy, p.A2222

P694 Exercise Induced Bronchospasm in Iles, Nigeria: A Comparative Study of Rural and Urban School Children/B.P. Kuti, K.O. Omole, D.K. Kuti, B. Oso, L.O. Mohammed, B.G. Ologun, Y.A. Minna, Ile-Ife, Nigeria, p.A2223

Facilitator: K.R. Ross, MD, Cleveland, OH

P695 Predicting Prolonged Length of Stay in Pediatric Asthma Patients Requiring Hospitalization/A. Patel, V.G. Press, B.L. Giles, L.N. Sanchez-Pinto, Chicago, IL, p.A2224

P696 ECHO-Chicago Asthma Education Project Pre-Intervention Provider Self-Efficacy/S. Hegde, A. Volerman, J. Cheatham, T. Hamlish, S. Zaas, D. Johnson, Chicago, IL, p.A2225

P697 Assay for Transposase-Accessible Chromatin Sequencing (ATAC-Seq) to Study the Effects of Vitamin D on Bronchial Epithelial Cells/S. Puranik, T. Wang, J.M. Brehm, D. Hui, N. Boutaoui, W. Chen, E. Forno, J.C. Celedon, Pittsburgh, PA, p.A2226

P698 Detection of Pneumocystis Jirovecii in Lower Airway Secretions of Severe-Persistent Asthmatic Children/A. Tsuang, M. St. John Sutton, D.L. Goldman, A.G. Vicencio, New York, NY, p.A2227

P699 Useful Diagnosis Code Sets for Identifying Asthmatics with and Without Physician Diagnosis/H.Y. Seol, C.I. Wi, E. Ryu, R.S. Pendegraft, K.S. King, R.D. Divekar, S.K. Katusic, Y.J. Juhn, Rochester, MN, p.A2228

P700 Development and Validation of a Pharmacoepidemiologic Pediatric Asthma Control Index Using Information from Administrative Database/F. Despres, F. Ducharme, A. Forget, S.M. Tse, F.-Z. Kettani, L. Blais, Montreal, Canada, p.A2229

P701 Distance to Health Care and Asthma Morbidity in Rural Children/D.C. Rennie, C. Karunanayake, J.A. Lawson, R. Dyck, P. Pahwa, J. Dosman, Saskatoon, Canada, p.A2230

Facilitator: E. Arteaga-Solis, MD, PhD, New York, NY

P702 Predicting Asthma Severity Using Machine Learning Algorithms: A Pilot Study/A. Messinger, B. Nam, T. Vu, R. Detering, Aurora, CO, p.A2231

P703 Time Between Albuterol Administration and Post-Bronchodilator Testing in a Pediatric Pulmonary Clinic: A Quality Improvement Project/J.D. Cogen, R.M. Dibiasi, J.S. Debley, Seattle, WA, p.A2232

P704 Systematic Bias in Respiratory Impedance Measured by Commercial Equipment Calibrated Using a Low Impedance/P.D. Sly, C. Shackleton, D. Czovek, Z. Hantos, South Brisbane, Australia, p.A2233

P705 Understanding the Problem and Designing a Comprehensive Intervention to Reduce Asthma Disparities/T. Bryant-Stephens, C. West, S. McGinnis, M. Gutierrez, R. Beidas, C. Kenyon, A.J. Apter, R. Localio, K. Toussaint, R. Jacob, A. Hui, Philadelphia, PA, p.A2234

P706 Improving Pediatric Patient-Centered Care Transitions (IMPACT) in Pediatric Asthma: Multi-Center Study from January 2014 - August 2016/R.N. Popatia, L. Mallory, D. Cooperberg, S. Gage, S.N. Osorio, New York, NY, p.A7588



THEMATIC POSTER SESSION

A67 BREAKDOWN: THE CELLULAR CONTRIBUTION TO PULMONARY HYPERTENSION**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area O, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** S.Y. Chan, MD, PhD, Pittsburgh, PA

- P1545 Leukotriene B4 Potentiates BMPR2 Deficiency and Causes PAEC EndMT in PAH/A.** Tian, X. Jiang, E. Shuffle, A. Tu, Q. Jin, R.T. Zamanian, N. Voelkel, M. Peters-Golden, R. Tuder, M. Rabinovitch, M. Nicolls, Palo Alto, CA, p.A2235
- P1546 Microvascular Endothelial Cells of Pulmonary Arterial Hypertension Patients Are More Sensitive to BMP9 Stimulation and Activate Both the BMP and TGF-Beta Signaling Cascade/N.** Rol, R. Szulcek, K.B. Kurakula, X. Pan, C. Dickhoff, A. Vonk-Noordegraaf, M.J.T.H. Goumans, H.J. Bogaard, Amsterdam, Netherlands, p.A2236
- P1547 Role of Erythrocyte-Derived Advanced Glycation End Products in Pulmonary Endothelial Dysfunction in Pulmonary Hypertension/A.** Huertas, L. Tu, R. Thuillet, C. Phan, J. Bordenave, R. Jovan, F. Parent, G. Simonneau, L. Savale, M. Humbert, C. Guignabert, Le Plessis-Robinson, France, p.A2237
- P1548 Upregulation of Serum Response Factor (SRF) Contributes to Hypoxic Pulmonary Hypertension by Promoting Smooth Muscle Cells Proliferation Via Increasing Bcl-2 Expression/R.** Wang, P. Wu, X. Ding, G. Fei, Hefei, China, p.A2238
- P1549 CaMKII Is Necessary for Increased Proliferation and Migration of Pulmonary Arterial Smooth Muscle Cells in Pulmonary Hypertension/J.** Huetsch, H. Jiang, L. Shimoda, Baltimore, MD, p.A2239
- P1550 A Novel Cell Culture Model to Study Cytoskeletal Defects in Pulmonary Arterial Hypertension/R.W.** D'Amico, J.D. West, Nashville, TN, p.A2240
- P1551 Prostanoid EP4 Analogue Attenuates Experimental Pulmonary Arterial Hypertension Via Activation of PPAR-Gamma Signaling/Y.-C.** Chen, H.-H. Li, Y.-J. Lai, Tao-yuan, Taiwan, p.A2241
- P1552 Endothelial Cell-Related Autophagic Pathways in a Severe Pulmonary Hypertension Model/F.** Kato, S. Sakao, T. Takeuchi, T. Suzuki, R. Nishimura, T. Yasuda, A. Naito, T. Jujo, N. Tanabe, K. Tatsumi, Chiba, Japan, p.A2242
- P1553 Influence of COLXVIII A1 Fragment, Endostatin, on Endothelial Cells in Idiopathic Pulmonary Hypertension/K.** Jandl, J. Hoffmann, L.M. Marsh, W. Bloch, H. Thekkekara Puthenparampil, B. Ghanim, W. Klepetko, G. Kovacs, H. Olschewski, A. Olschewski, G. Kwapiszewska, Graz, Austria, p.A2243

- P1554 Endostatin Suppresses the Inhibitors of DNA Binding/Differentiation Transcription Factors (ID1) and Promotes Pulmonary Artery Endothelial Cell Death/A.** Goyanes, L. Wang, L. Varela, L. Johnston, M. Aladdin, T.M. Kolb, P.M. Hassoun, R.L. Damico, Baltimore, MD, p.A2244

Facilitator: D.E. Green, MD, Atlanta, GA

- P1555 Effect of Over Expression of Natriuretic Peptide Receptor-A (NPR-A) and Receptor-C (NPR-C) on Pulmonary Vascular Endothelial Barrier Function/J.R.** Klinger, H. Duong, L. Duran, O. Liang, A. Kumar, E.O. Harrington, Providence, RI, p.A2245
- P1556 Relaxin Prevents TGFβ-Induced Pulmonary Artery Smooth Muscle Cell Phenotypic Switch Via Modulation of SMAD-ERK Signaling/L.-M.** Yung, I. Nikolic, J. Cavallo, D. Chain, S. Dwyer, M. Southwood, Z. Jia, I. Rosas, N. Morrell, S. Illiano, C. VanDeusen, P. Yu, Boston, MA, p.A2246
- P1557 Hypoxia Inducible Factor-1α Increases Bone Morphogenetic Protein Receptor 2 Signaling in Pulmonary Artery Endothelial Cells (PAECs)/J.** Kuang, X. Tian, S. Dannewitz Prosseda, A. Tian, D. Cornfield, M.R. Nicolls, E.F. Spiekerkoetter, Stanford, CA, p.A2247
- P1558 Dasatinib-Induced Pleural Effusion Is Associated with Increased Endothelial Permeability/C.** Phan, E.-M. Jutant, L. Tu, Y. Tamura, R. Thuillet, M. Le Hirress, E. Fadel, G. Simmoneau, A. Seferian, D. Montani, A. Huertas, A. Vonk Noordegraaf, M. Humbert, J. Aman, C. Guignabert, Le Plessis-Robinson, France, p.A2248
- P1559 O-GlcNAc Transferase Regulates Angiogenesis in Idiopathic Pulmonary Arterial Hypertension/J.** Barnes, L. Tian, N.E. Mellor, S.A. Comhair, R. Dweik, Cleveland, OH, p.A2249
- P1560 ADORA2B on Pulmonary Artery Smooth Muscle Cells Mediates the Development of Pulmonary Hypertension/T.** Mertens, A. Handmandlu, A. Hernandez, S.D. Collum, N.-Y. Chen, M. Blackburn, H. Karmouty-Quintana, Houston, TX, p.A2250
- P1561 Activation of Macrophages by Pulmonary Artery Adventitial Fibroblasts Towards a Pro-Inflammatory Phenotype Requires Notch Signaling Activity/M.J.** Ostaff, S. Riddle, G.M. DeMasellis, M. Frid, A. Flockton, K.C. El Kasmi, K.R. Stenmark, Aurora, CO, p.A2251
- P1562 Increased Pro-Inflammatory Alveolar Macrophage Polarization by TLR3 Agonists in Mice with Pulmonary Hypertension/G.M.** DeMasellis, M.J. Ostaff, S. Riddle, E. Grayck, K.C. El Kasmi, K.R. Stenmark, Aurora, CO, p.A2252
- P1563 Enhanced Endothelium-Dependent Pulmonary Vasodilation and eNOS Expression Limit Increased Vasoconstrictor Sensitivity in Neonatal Chronic Hypoxia/J.R.** Sheak, R.J. DeKay, N.L. Jernigan, B.R. Walker, T.C. Resta, Albuquerque, NM, p.A2253
- P1564 PHD2 Mediates Endothelial-to-Mesenchymal Transition in Lung Microvascular Endothelial Cells from Patients with Idiopathic Pulmonary Arterial Hypertension/A.** Babicheva, K.M. McDermott, R.J. Ayon, S. Dash, X. Sun, H. Tang, A. Cordery, A.A. Desai, S.M. Black, J.G.N. Garcia, A. Makino, J.X.J. Yuan, Tucson, AZ, p.A2254



Facilitator: T.M. Kolb, MD, PhD, Baltimore, MD

P1565 Citrulline Supports Mitochondrial Respiration in Human Lung Endothelial Cells and Suggests Crosstalk Between Nitric Oxide and Tricarboxylic Acid Cycles/E.G. Kocurek, J.P. Fessel, Nashville, TN, p.A2255

P1566 The Effect of Cell Free Hemoglobin and/or Hypoxia on the Inflammatory Response of Pulmonary Microvascular Endothelial Cells: Possible Implications for PAH/S. Mumby, R. Graham, I. Adcock, London, United Kingdom, p.A2256

P1567 Role of CXCR3 in the Apoptosis-Resistance of Endothelial Progenitor Cells in HIV-Induced Pulmonary Hypertension/L. Farkas, D. Farkas, S. Chelvanambi, C. Cool, M.A. Clauss, Richmond, VA, p.A2257

P1568 Proliferative, Hyper-Migratory Phenotype and JAK/STAT Activation in Dermal Fibroblasts from Patients with Pulmonary Arterial Hypertension and Caveolin-1 Loss-of-Function Mutations/S. Gairhe, K.S. Awad, E. Austin, J.M. Elinoff, R.L. Danner, Bethesda, MD, p.A2258

P1569 Lymphocyte Specific Protein Tyrosine Kinase (LCK), a Novel BMPR2 Modulator, Validated by In Situ Transcriptome Profiling/A.M. Andruska, S. Dannewitz, D. Sudheendra, X. Tian, M. Nagendran, E.F. Spiekerkoetter, P. Harbury, T. Desai, Stanford, CA, p.A2259

P1570 Protective Role of Vascular Smooth Muscle Cell Interleukin-6 in Schistosoma and Hypoxia PH/R. Kumar, C.S. Mickael, B. Kassa, D. Koyanagi, L. Sanders, R. Tuder, B.B. Graham, Aurora, CO, p.A2260

P1571 Hypoxia Induces More Severe Pulmonary Hypertension in Humanized CD34⁺ Mice/Y. Hu, D. Zabini, W. Gu, S. Breitling, G. Kabir, K. Connelly, W.M. Kuebler, Toronto, Canada, p.A2261

P1572 ROS Production and DNA Instability of Adventitial Fibroblasts Are Regulated by CtBP1 in Pulmonary Hypertension/M. Li, L. Plecita, A.B. McKeon, M. Frid, H. Zhang, S. Kumar, A. Flockton, K.R. Stenmark, Aurora, CO, p.A2262

P1573 Peroxisome Proliferator-Activated Receptor Gamma Enhances Human Pulmonary Artery Smooth Muscle Cell Apoptosis Susceptibility Through Regulation of MicroRNA -21 and Programmed Cell Death 4/D.E. Green, T. Murphy, B. Kang, B. Bedi, C.M. Hart, Decatur, GA, p.A2263

P1574 The Role of HIFs in Maintaining Pulmonary Artery Fibroblast Phenotypes in Pulmonary Hypertension/H. Zhang, C.-J. Hu, M. Li, A. Flockton, K.R. Stenmark, Aurora, CO, p.A2264

Facilitator: M. Aldred, PhD, Cleveland, OH

P1575 KCNK3 Knockout Drives Low-Penetrance Pulmonary Hypertension Associated with Hematopoietic and Inflammatory Defects/A. Rathinasabapathy, J.P. Fessel, X. Chen, E. Austin, W. Chung, L. Yan, R. Hamid, J.D. West, Nashville, TN, p.A2265

P1576 Targeting Metabolic Reprogramming in Macrophages Activated by Adventitial Fibroblasts in Pulmonary Hypertension as a New Potential Therapy Approach/K.C. El Kasmi, M.J. Ostaff, S. Riddle, A. Flockton, M. Frid, S. Kumar, B.A. McKeon, M. Li, R. Moldovan, H. Zhang, A. D'Alessandro, K.R. Stenmark, Aurora, CO, p.A2266

P1577 Targeted Inhibition of Mitochondrial Hsp90 Improves Pulmonary Arterial Hypertension/O. Boucherat, S. Breuils-Bonnet, S. Chabot, J. Meloche, G. Vitry, C. Lambert, V. Nadeau, E. Tremblay, S. Zervopoulos, G. Sutendra, E.D. Michelakis, Y.C. Chae, D. Altieri, R. Paulin, S. Provencher, S. Bonnet, Quebec, Canada, p.A2267

P1578 Carbonic Anhydrase IX (CAIX) Is a Critical Determinant of Pulmonary Microvascular Endothelial Cells (PMVECs) Survival/J.Y. Lee, T. Stevens, Mobile, AL, p.A2268

P1579 Baicalin Ameliorate Hypoxia-induced Pulmonary Artery Smooth Muscle Cell Proliferation/S. Guo, Y. Yang, Y. Zhou, Q. Zuo, X. Li, Chengdu, China, p.A2269

P1580 Role of Integrin $\beta 5$ for the Phenotype of Human Pulmonary Microvascular Endothelial Cells: Implications for Endothelial-to-Mesenchymal Transition and Pathogenesis of Pulmonary Hypertension/N. Blanchard, D. Farkas, C. Cool, L. Farkas, Richmond, VA, p.A2270

P1581 The Role of L-Amino Acid Transporter (LAT-1) in the Hypoxia-Induced Export of Anti-Adhesive S-Nitrosothiols (SNOs)/L.B.M. Dosier, H. Zhu, H. Zhang, G. Palmer, T.J. McMahon, Durham, NC, p.A2271

P1582 Spleen Tyrosine Kinase Mediates Pulmonary Vasoconstriction/C. Tabeling, J. Herbert, E. Boiarina, A.C. Hocke, K. Sewald, D. Lamb, L. Wollin, H. Fehrenbach, W.M. Kuebler, A. Braun, N. Suttrop, N. Weissmann, M. Witzernath, Berlin, Germany, p.A2272

P1583 Redox-Mediated Arginine-Proline Conversion in Cell Signaling/Y.J. Suzuki, Washington, DC, p.A2273

THEMATIC POSTER SESSION

A68 WOW: PHARMACOLOGICAL TREATMENT OF PULMONARY HYPERTENSION

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area O, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: D.B. Badesch, MD, Aurora, CO
P.N. Reynolds, MD, PhD, Adelaide, Australia

P1585 Endothelial Mitochondrial Dysfunction in Pulmonary Arterial Hypertension - Secondary Analysis from FREEDOM-C2/S. Sahay, J.D. Marshall, M. Sauler, Y. Rao, P.J. Lee, W.H. Fares, Houston, TX, p.A2274

P1586 Transition from Ambrisentan to Bosentan in Pulmonary Arterial Hypertension: A Single Center Prospective Study/S.-G. Gong, L. Wang, P. Bigyan, P. Yuan, Q.-H. Zhao, J. Rong, J. He, W.-H. Wu, R. Zhang, J.-M. Liu, Shanghai, China, p.A2275

P1587 Use of Sildenafil in the Treatment of Pulmonary Hypertension Within a Single Center/G.T. Farr, A. Fox, S. Hartigan, J. Pinson, L. Savage, D. Grinnan, Richmond, VA, p.A2276



- P1588 Dosing Characteristics of Oral Treprostinil in Real World Clinical Practice/V. Balasubramanian, C.R. Messick, M. Broderick, A. Nelsen, Fresno, CA, p.A2277**
- P1589 Transition from Parenteral Prostacyclin to Selexipag in Patients with Pulmonary Arterial Hypertension/C. Miller, Atlanta, GA, p.A2278**
- P1590 Endothelial Microparticles During Exercise in COPD Patients: Influence of Inhaled Iloprost/S.C. Okpechi, D. Wyczechowska, B.P. DeBoisblanc, J. Johnson, M.A. Ghoni, N. Bauer, A.H. Boulares, M.R. Lammi, New Orleans, LA, p.A2279**
- P1591 Real-World Transitions from Oral to Inhaled Treprostinil/C. Migliore, L. D'Albini, C.R. Messick, K.W. Gordon, Newark, NJ, p.A2280**
- P1592 Macrophage Migration Inhibitory Factor (MIF) in Pulmonary Arterial Hypertension - Secondary Analysis from FREEDOM-C2/J.D. Marshall, M. Sauler, A.R. Tonelli, Y. Rao, P.J. Lee, W.H. Fares, New Haven, CT, p.A2281**
- P1593 Transition from PDE-5 Inhibitors to Riociguat in Pulmonary Hypertension/N. Weir, A.W. Brown, J. DeLaSantana, C. King, D. Lewis, D. Franco-Palacios, S.D. Nathan, O.A. Shlobin, Falls Church, VA, p.A2282**
- P1594 Comparison of Treatment Outcomes in a Cohort of Patients with Pulmonary Arterial Hypertension Treated with Inhaled Treprostinil Alone or in Combination with a Phosphodiesterase 5 Inhibitor/J. Swisher, R. Overton-Barnes, Knoxville, TN, p.A2283**
- Facilitator:** W.H. Fares, MD, MSc, New Haven, CT
- P1595 Tolerability and Safety of Transition from Inhaled Treprostinil to Oral Selexipag in Pulmonary Arterial Hypertension: Results from the TRANSIT-1 Study/A.E. Frost, M. Janmohamed, J. Fritz, J.W. McConnell, D. Poch, T. Fortin, C. Miller, K. Chin, M.R. Fisher, M. Eggert, C. McEvoy, R.L. Benza, H.W. Farber, N.H. Kim, B. Hartline, T. Pfister, Y. Shiraga, V. McLaughlin, Houston, TX, p.A2284**
- P1596 Effect of Two Way Drug-Drug Interactions on Safety and Pharmacokinetics of Esuberaprost (BPS-314d) and Ambrisentan at Steady State in Healthy Adult Subjects/P. Sista, M. Medlock, G. Patel, X. Chen, S. Peychal, E.A. Duvall, K. Von Kessler, J. Shin, Silver Spring, MD, p.A2285**
- P1597 Decreasing Length of Stay and Pulmonary Arterial Hypertension-Related Hospitalizations with Macitentan Using a Decision Tree Model in a Medicare Population/K.B. Highland, M.R. Cole, S.P. Bilir, J. Pruett, W. Drake, Cleveland, OH, p.A2286**
- P1598 Results of the Prospective, Multicenter, Single-Arm, Open-Label, Phase 4 MOTION Study of Riociguat in Pulmonary Arterial Hypertension/N. Sood, A. Aranda, D.M. Platt, A. LaRose, F. Kleinjung, G. O'Brien, Columbus, OH, p.A2287**
- P1599 Single Center Experience in Transitioning Pulmonary Arterial Hypertension Patients from Intravenous Epoprostenol to Oral Selexipag/Z. Safdar, Houston, TX, p.A2288**
- P1600 The Effect of Chronic Dosing of Riociguat on Acute Hypoxic Pulmonary Vasoconstriction in Respiratory Disease/L. Thirugnanasothy, G. MacGowan, G. Parry, J. Simpson, P. Corris, Newcastle upon Tyne, United Kingdom, p.A2289**
- P1601 The Rationale for a Washout Period When Switching Patients from PDE5i to Riociguat/R. Sulica, R. Frey, D. Van Der Mey, D.M. Platt, S. Saleh, M. Steiper, S. Rosenkranz, New York, NY, p.A2290**
- P1602 Role of Cardiopulmonary Exercise Testing in Assessing Treatment of Pulmonary Arterial Hypertension and Impact of a Change to a Macitentan-Containing Regimen/P.A. Corris, D. Jakovljevic, L. Thirugnanasothy, Newcastle upon Tyne, United Kingdom, p.A2291**
- P1603 Riociguat for the Treatment of Pulmonary Hypertension: Safety Data from the EXPERT Registry/H. Klose, H. Gall, H.-A. Ghofrani, M.M. Hoeper, E. Grunig, M. Halank, J.L. Vachery, H. Wirtz, L.M. Mielniczuk, T.J. Lange, D.S. Helmersen, J. Pepke-Zaba, D. Langleben, J.A. Barbera, P. Escribano, R. Mascherbauer, M. Delcroix, I. Tsangaris, A. Boonstra, R.J. Snijder, J.E. Nielsen-Kudsk, V. Cottin, S. Ulrich, P.A. Corris, G. Simonneau, M.-A. Gomez Sanchez, J. Klotzsche, D. Pittrow, C. Meier, M. Humbert, Hamburg, Germany, p.A2292**
- P1604 Effect of Weight on Parenteral Prostacyclin Analogues Dosing in Pulmonary Hypertension Patients/P. Raeisi-Giglou, X. Wang, W. Dakkak, N. Bair, R. Dweik, A.R. Tonelli, Cleveland, OH, p.A2293**
- Facilitator:** H.J. Ford, MD, Chapel Hill, NC
- P1605 Long-Term Survival and Safety with Macitentan in Patients with Pulmonary Arterial Hypertension: Results from the SERAPHIN Study and Its Open-Label Extension/R. Souza, T. Pulido, R.N. Channick, M. Delcroix, N. Galie, H.A. Ghofrani, P. Jansa, S. Mehta, L. Mitchell, K. Papadakis, D. Richard, L.J. Rubin, B.K.S. Sastry, O. Sitbon, A. Torbicki, G. Simonneau, Sao Paulo, Brazil, p.A2294**
- P1606 Upravi® (Selexipag): the usERS dRug rEgistry (SPHERE): A US-Based, Prospective Drug Registry of Selexipag in Clinical Practice/M.M. Chakinala, A.R. Hemnes, K. Highland, N.H. Kim, H.W. Farber, K. Chin, M. Keating, C. Zhao, B. Hartline, V. McLaughlin, St. Louis, MO, p.A2295**
- P1607 Rationale and Design of the REPLACE Trial: Riociguat replacing Phosphodiesterase 5 Inhibitor (PDE5i) Therapy evaluated Against Continued PDE5i therapy in Patients with Pulmonary Arterial Hypertension (PAH)/M.M. Hoeper, H.-A. Ghofrani, R.L. Benza, P.A. Corris, S. Gibbs, J.R. Klinger, D. Langleben, V.V. McLaughlin, A. Peacock, S. Rosenkranz, A. Vonk-Noordegraaf, J. White, F. Kleinjung, C. Meier, G. Simonneau, Hannover, Germany, p.A2296**
- P1608 Initial Combination Therapy with Macitentan and Tadalafil in Newly Diagnosed Patients with Pulmonary Arterial Hypertension: Results from the OPTIMA Trial/O. Sitbon, M. Canuet, F. Picard, G. Prevot, E. Bergot, V. Cottin, F. Bauer, B. Degano, V. Gressin, P. Clerson, G. Simonneau, Le Kremlin-Bicetre, France, p.A2297**
- P1609 Real-World Transitions from Inhaled to Oral Treprostinil/L. D'Albini, M. Broderick, J.G. Zaccardelli, K.W. Gordon, F. Rischard, Memphis, TN, p.A2298**
- P1610 OPUS Registry: Treatment Patterns with Macitentan in Patients with Pulmonary Arterial Hypertension/K. Chin, R.N. Channick, N.H. Kim, E. Muros-Le Rouzic, M. Selej, V. McLaughlin, Dallas, TX, p.A2299**



- P1611 Safe, Successful, and Effective Transition from a SQ Prostacyclin Analog (Treprostinil) to Oral Prostacyclin Receptor Agonist (Selexipag)/H. Edriss, D. Schuller, K. Nugent, I. Huizar, Lubbock, TX, p.A2300**
- P1612 Non Invasive Cardiorespiratory Exercise Measures to Define Disease Likelihood and Track Disease Severity/C.-H. Kim, J. Hansen, D. McCarter, B. Johnson, Rochester, MN, p.A2301**
- P1613 Safety of Ambrisentan in Portopulmonary Hypertension, Result from the Ambrisentan usAGE in Portopulmonary Hypertension (ANGEL STUDY)/W.F. Battarjee, C.D. Burger, S. Bartolome, Z. Safdar, M. Krowka, N. Sood, H.J. Ford, M. Gombert-Maitland, M.M. Chakinala, N.S. Hill, I.R. Preston, Boston, MA, p.A2302**

THEMATIC POSTER SESSION

A69 LET IT GO: CONTROVERSIES IN THROMBOEMBOLIC DISEASE

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area O, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: N.H. Kim, MD, La Jolla, CA

- P1615 Hypertensive Urgency and Pulmonary Embolism/H.I. Joshi, S.S. Kalra, P. Kaur, X. Wang, G.A. Heresi, Cleveland, OH, p.A2303**
- P1616 Experience of One Year of Balloon Pulmonary Angioplasty in a Single Center: Safety and Short Term Results/E. Monti, E. Gotti, M. Palazzini, F. Dardi, A. Rinaldi, A. Albini, N. Tanese, A. Manes, N. Galie, Bologna, Italy, p.A2304**
- P1617 Does Syncope Predicts Mortality in Acute Pulmonary Embolism?: A Retrospective Review/U. Iqbal, A. Chaudhary, A. Jameel, H. Anwar, E. Bischof, Coopersstown, NY, p.A2305**
- P1618 Prognosis of Pulmonary Cement Embolism Developed After Percutaneous Vertebroplasty/H.-R. Kang, C.-H. Lee, Seoul, Korea, Republic of, p.A2306**
- P1619 Comparative Clinical Efficacy and Safety of Low-Intensity Warfarin Therapy in Preventing Recurrent Venous Thromboembolism: A Systematic Review and Meta-Analysis/J. Rong, Y. Shi, P. Bigyan, L. Wang, Q.-H. Zhao, R. Zhang, P. Yuan, J. Guo, S.-G. Gong, Shanghai, China, p.A2307**
- P1620 Spectrum of Chronic Thromboembolic Pulmonary Hypertension/A.P. Fernandez, D.E. Aimone, V.E. Gregoriotti, Florencio Varela, Argentina, p.A2308**
- P1621 High Density Lipoprotein Cholesterol in Chronic Thromboembolic Pulmonary Hypertension/G. Khirfan, V. Tejwani, X. Wang, N. Bair, J.A. DiDonato, R.A. Dweik, N. Smedira, G.A. Heresi, Cleveland, OH, p.A2309**
- P1622 Cardiopulmonary Exercise Test in Pulmonary Embolism/J.-M. Liu, S. Chen, J. Guo, Q. Zhao, L. Wang, W. Yang, S. Gong, J. Rong, Shanghai, China, p.A2310**

- P1623 Is Oxygen Saturation Variable of Simplified Pulmonary Embolism Severity Index (sPESI) Reliable for Identification of Patients, Suitable for Outpatient Treatment/S. Erol, A. Gurun Kaya, F. Ciftci Arslan, A. Ciledag, E. Sen, A. Kaya, G. Celik, I. Savas, Ankara, Turkey, p.A2311**
- P1624 Carboxyhemoglobin and Methemoglobin in Pulmonary Embolism/M. Rondinel Robles, T. Aldrich, C.D. Shah, S.D. Spivack, Bronx, NY, p.A2312**

Facilitator: B. Rivera-Lebron, MD, MS, Pittsburgh, PA

- P1625 A New Predictor of Mortality for Pulmonary Embolism, Tissue Doppler Echocardiography (E/E' Ratio)/M. Rondinel Robles, T. Aldrich, C.D. Shah, S.D. Spivack, Bronx, NY, p.A2313**
- P1626 The Use of Sildenafil in Acute Pulmonary Emboli- A Novel Idea?/R. Mirza, E. Shaw, A. Draper, J. Vlahos, B. Madden, London, United Kingdom, p.A2314**
- P1627 Mandatory Use of the Wells Score Increases the Positive Yield of Computed Tomography Angiogram for Pulmonary Embolism/L.K. Harris, V. Mehta, N.B. Harris, M.S. Davey, R. Shrestha, J.P. McDonald, L. Morrow, Omaha, NE, p.A2315**
- P1628 Incidence of Clinically Relevant Findings on CT Pulmonary Angiography Negative for Pulmonary Embolism/Y. Vayntrub, N. Seam, N.A. Avila, D. Mobarek, Washington, DC, p.A2316**
- P1629 Does the Time of Day a Pulmonary Embolism Response Team (PERT) Is Activated Affect Time to Intervention or Outcome?/J.N. McNeill, A. Witkin, Y. Chang, C. Kabrhel, R.N. Channick, Boston, MA, p.A2317**
- P1630 Riociguat for Patients with Chronic Thromboembolic Pulmonary Hypertension: Usefulness of Transitioning from Phosphodiesterase Type 5 Inhibitor/K. Yamamoto, N. Tanabe, R. Suda, A. Sasaki, A. Matsumura, R. Ema, H. Kasai, F. Kato, A. Sekine, R. Nishimura, T. Jujo, T. Sugiura, A. Shigeta, S. Sakao, K. Tatsumi, Chiba, Japan, p.A2318**
- P1631 Increasing Rate of Utilization of Computerized Tomographic Pulmonary Angiography within an Academic Medical Center/G. Carter, A. Kelly, L. Anaskevich, E.P. Cassidy, A. Kalema, A. Montgomery-Yates, P.E. Morris, Lexington, KY, p.A2319**
- P1632 Novel DOAC Protocol Provide Stable Effect and Safety for Patients with Intermediate-Risk Pulmonary Thromboembolism/H. Hayashi, A. Tsuji, N. Konagai, R. Asano, J. Ueda, S. Fukui, T. Ogo, S. Yasuda, Suita, Osaka, Japan, p.A2320**
- P1633 Cavities Lesions in Patients with Chronic Thromboembolic Pulmonary Hypertension/E.P. Oliveira, C.C. Fernandes, F.A.G. Oleas, J.L. Alves Junior, R.A. Athanazio, R.K.B. Sales, I.O. Morais, W. Salibe Filho, C.V.P. Jardim, M. Terra Filho, R. Souza, Sao Paulo, Brazil, p.A2321**
- Facilitator:** D. Ngo, MD, Boston, MA
- P1634 Analysis of Clinical Outcomes and Bleeding Risk of Thrombolysis in Korean Patients with Acute Pulmonary Thromboembolism/Y. Lee, K.-W. Jo, C.-M. Choi, J.W. Song, J.W. Huh, Y.-M. Oh, T.S. Shim, S.-D. Lee, C.-M. Lim, W.-S. Kim, Y. Koh, J.S. Lee, Seoul, Korea, Republic of, p.A2322**



- P1635** **Recent Trends in Vena Cava Filter Placement: An Analysis of Nationwide Inpatient Sample Database Over an 11 Year Period**/S. Patri, Y. Agrawal, J. Kalavakunta, S. Joseph, M. Zaccaro, Kalamazoo, MI, p.A2323
- P1636** **Direct Oral Anticoagulants for the Treatment of Venous Thromboembolism: An Umbrella Review of Meta-Analysis and Economic Studies**/M. Tobon-Trujillo, A. Canas, C.A. Celis Preciado, C. Villaquiran-Torres, J.I. Lasso, A.A. Garcia, H. Quitian, M. Otolara, J.R. Lutz, Bogota, Colombia, p.A2324
- P1637** **Implementation of Data Visualization Dashboard Can Improve the Venous Thromboembolism (VTE) Prophylaxis Compliance and Reduce the VTE Incidence in Hospitalized Patients**/S. Patil, B. Patel, S. Kaushal, M. Ayad, K. Gopal, T. Johnson, Houston, TX, p.A2325
- P1638** **Right Heart and Pulmonary Vascular Re-Adaptation Following Pulmonary Thrombectomy Based on a Single Center Experience**/F. Raza, A. Vaidya, H. Al-Maluli, V. Lakhter, F. Rogers, P. Forfia, Philadelphia, PA, p.A2326
- P1639** **Clinical and Demographic Features of Regional Pulmonary Thrombectomy Cohort**/F. Raza, A. Vaidya, H. Al-Maluli, V. Lakhter, F. Rogers, P. Forfia, Philadelphia, PA, p.A2327
- P1640** **Patient and Clinician Perspectives on Usability and Acceptability of a Patient-Centered Decision Aid for Left Ventricular Assist Device Treatment**/J.S. Blumenthal-Barby, K.M. Kostick, R. Volk, C.R. Bruce, S.A. McCurdy, J.D. Estep, Houston, TX, p.A2328
- P1641** **First Idiopathic Venous Thromboembolism- Are We Following National Institute for Health and Care Excellence (NICE) Guidelines?**/C.A. Lynch, R.M. Ortiz Comino, J. Mukherjee, Warwick, United Kingdom, p.A2329
- P1642** **Bullous Pemphigoid Is Associated with Increased Risk of Venous Thromboembolism: A Systematic Review and Meta-Analysis**/P. Ungprasert, K. Wijarnpreecha, C. Thongprayoon, Rochester, MN, p.A2330
- P154** **Association of Smaller Erector Spinae Muscle Size on Admission with Unrecovered Activities of Daily Living After Pneumonia Treatment**/Y. Minegishi, S. Inoue, K. Sato, K. Furuyama, S. Yang, H. Nakano, M. Sato, T. Nemoto, T. Kimura, K. Yamauchi, A. Igarashi, Y. Tokairin, Y. Shibata, Yamagata, Japan, p.A2332
- P155** **The Effects of Co-Morbid Heart Disease on Recovery Following Hospitalisation for an Exacerbation of Chronic Respiratory Disease and Early Rehabilitation Intervention**/N.J. Greening, T.C. Harvey-Dunstan, S.F. Hussain, E. Chaplin, M.D. Morgan, M.C. Steiner, S.J. Singh, Leicester, United Kingdom, p.A2333
- P156** **Rehabilitation of Candidates for Lung Transplantation: Exercise Capacity, Symptomology, and Quality of Life Outcomes**/R. Byrd, P.J. Smith, O. Mohamedaly, L.D. Snyder, A. Pastva, Durham, NC, p.A2334
- P157** **Significant Differences in Coping Strategies Between Lung Transplant Candidates with and Without Psychological Distress**/T.S. Soyseth, M.A. Dew, M.B. Lund, V. Soyseth, G.K. Haugstad, U.F. Malt, Oslo, Norway, p.A2335
- P158** **Heart Rate Recovery in Lung Transplant Candidates**/V. Martelli, S. Mathur, L. Wickerson, C. Gottesman, D. Helm, M. Tazari, L.G. Singer, D. Rozenberg, Toronto, Canada, p.A2336
- Facilitator:** N.J. Greening, MBBS, PhD, Leicester, United Kingdom
- P159** **Effects of Electrical Stimulation on Hospitalization Outcomes in Patients with Prolong Mechanical Ventilator**/Y.-H. Chen, K.-C. Kao, L.-F. Li, H.-F. Hsiao, N.-H. Chen, C.-C. Huang, Tao-Yuan, Taiwan, p.A2337
- P160** **View of Directors of Home Ventilation Programs on Decisions Around Long-Term Ventilation**/J. Edwards, M. Morris, J. Nelson, H.B. Panitch, R.L. Miller, New York, NY, p.A2338
- P161** **Multi-Disciplinary Outpatient Care of Ventilator-Assisted Adults in a University Setting**/J.P. Brown, J. Hanley, K. Rochefort, A. Kurili, H. Schotland, R.G. Sitrin, Ann Arbor, MI, p.A2339
- P162** **Determining Aspiration of Oral Secretions and the Potential Impact on Evaluation of Dysphagia and VAP in Patients with Tracheostomies Using an Automated Intermittent Subglottic Aspiration System**/G. Gentile, A. Quinones, Bronx, NY, p.A2340
- P163** **Delivering a Home-Based Telerehabilitation Exercise Program for a Lung Transplant Candidate**/J. Choi, A. Hergenroeder, J. Kostra, M. Morrell, A. DeVito Dabbs, Pittsburgh, PA, p.A2341
- P164** **"Pre-Habilitation" of Frail Candidates for Lung Transplantation Using a Mobile Health Enabled Home-Based Intervention Is Feasible and Safe**/J.P. Singer, A. Soong, A. Bruun, S. Hays, J. Kukreja, A. Bracha, G. Chin, P.J. Wolters, M. Peters, C.M. Garvey, San Francisco, CA, p.A2342
- Facilitator:** R. Benzo, MD, MSc, Rochester, MN
- P165** **Home Non-Invasive Ventilation (NIV): Are the Masks a Major Barrier to Adherence?**/A. Birch, J. Finbow, J. Mortimore, J. Owusu-Afriyie, N. Hart, G. Arbane, London, United Kingdom, p.A2343

THEMATIC POSTER SESSION

A70 PULMONARY REHABILITATION IN LUNG TRANSPLANTATION AND THE ACUTE SETTING

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Area B, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: M.N. Bartels, MD, MPH, Bronx, NY

- P153** **A Pilot Study of Muscle Fatigue and Recovery in Patients Who Are Critically Ill**/J. Skrzat, S. Carp, R. Lauer, S. Hiremath, C. Tucker, Philadelphia, PA, p.A2331



- P166** A Single-Center, Randomized Controlled Study Comparing the Efficacy of the SIMEX Intermittent Subglottic Aspiration System in the Prevention of Ventilator-Associated Pneumonia and Ventilator-Associated Events in Long-Term, Tracheostomized, Mechanically Ve/G. Gentile, A. Quinones, Bronx, NY, p.A2344
- P167** Using Timed Up and Go and Sit-to-Stand Test as Patient Functional State of Methods of Hospitalized for Chronic Lung Diseases/T.N. Silva, S.B.P. Ferreira, C.I.R.D. Santos, T.E.D. Ribeiro, A.F. Vilaca, T.C.N. Amaral, L.A.M.D. Silva, A.M.J.D. Lima, Recife, Brazil, p.A2345
- P168** Reliability and Validity of Thoracic Computed Tomography for the Evaluation of Body Composition in People with Advanced Lung Disease/S. Mathur, L. Verweel, D. Rozenberg, L.G. Singer, Toronto, Canada, p.A2346
- P169** Impact of the Preventive Strategies on the Outcomes of Acute Exacerbations of Chronic Obstructive Pulmonary Disease (AE-COPD): An 'Intervention Review' Study/R.P. Paliwal, N. Khara, R. Kshatriya, S. Patel, Anand, India, p.A2347
- P170** Real World Utilization of Pulmonary Rehabilitation After an Acute Exacerbation of COPD; A Retrospective Study of Patients Who Attended a COPD Exacerbation Clinic/G. Sathiyamoorthy, C. Lau, M. Li, S. Marlow, X. Wang, U. Hatipoglu, Cleveland, OH, p.A2348

THEMATIC POSTER SESSION

A71 ONCOGENES AND ANGIOGENESIS IN LUNG TUMORS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area G, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: B. Zhou, PhD, Los Angeles, CA

- P715** The Effects of Xanthohumol and Cisplatin Combination on Metastatic Lung Cancer Cell/M. Pacurari, Jackson, MS, p.A2349
- P716** Myoferlin Regulates Epithelial to Mesenchymal Transition, Cell Migration and Erlotinib Resistance in Lung Adenocarcinoma Cells/S. Ghadiali, Y. Cho, J. Englert, D. Kniss, Columbus, OH, p.A2350
- P717** Function of KRAS in Regulating Differentiation of Normal Human Airway Basal Cells into a Mucociliated Epithelium/F. Ogawa, M.S. Walters, Y. Strulovici-Barel, J. Salit, R.G. Crystal, New York, NY, p.A2351
- P718** A Role for Ozone Pollution in Lung Cancer Progression/N. Rocks, C. Vanwinge, C. Gilles, C. Gerard, S. Blacher, A. Noel, D. Cataldo, Liege, Belgium, p.A2352

- P719** Antioxidant Treatment Can Promote Lung Tumor Formation During Chronic Oxidative Stress/M. Breau, E. Marcos, A. Parpaleix, S. Abid, A. Houssaini, E. Bizard, L. Boyer, A. Tiendrebeogo, T. Van Nhieu, D. Bernard, F. Mechta-Gregoriou, S. Adnot, Creteil, France, p.A2353
- P720** Inhibiting PTEN-Induced Putative Kinase1 and Protein Kinase A-Mediated Phosphorylation of Mitofusin 2 (Mfn2) Prevents Proteasomal Degradation: A New Mfn2 Construct Displays Enhanced Efficacy in Pulmonary Arterial Hypertension and Lung Cancer/A. Dasgupta, K.-H. Chen, J.D. Mewburn, S. Archer, Kingston, Canada, p.A2354
- P721** New Dynamin-Related Protein 1 Inhibitor Elongates Mitochondria and Inhibits Cell Proliferation in A549 Cells/D. Wu, K.-H. Chen, A. Dasgupta, M. Wells, T. Hurst, J.D. Mewburn, S. Archer, Kingston, Canada, p.A2355
- P722** Upregulation of Mitochondrial Dynamin Related Protein-1 (Drp1) Adapter Proteins MiD49 and MiD51 in Lung Cancer: A Novel Therapeutic Target/K.-H. Chen, A. Dasgupta, J.D. Mewburn, E. Sykes, S. Archer, Kingston, Canada, p.A2356
- P723** An Inhibitor of MARCKS Protein Attenuates Migration of Human Lung Cancer Cells; Role of Protein Phosphatase Type 2A (PP2A)/Q. Yin, S. Fang, J. Park, A. Crews, B. Dickson, I. Parikh, K. Adler, Raleigh, NC, p.A2357

Facilitator: S.S. Takyar, MD, PhD, New Haven, CT

- P724** A Peptide Inhibitor of MARCKS Protein Attenuates Migration of Human Lung Cancer Cells; Cytoskeletal Rearrangement Upon Treatment Indicates a Shift from Motile to Structural Cells/S. Fang, Q. Yin, J. Park, A. Crews, B. Dickson, K. Adler, Raleigh, NC, p.A2358
- P725** The Role of Eosinophils in KrasG12D Induced Lung Tumor Initiation and Progression/F. Li, X. Du, C. Zhang, W. Li, Z. Chen, S. Ying, H. Shen, Hangzhou, China, p.A2359
- P726** Fibrocytes as a Possible Cellular Biomarker for Anti-Angiogenic Therapy in Lung Cancer/H. Goto, A. Mitsuhashi, A. Saijo, H. Ogino, K. Otsuka, M. Tobiume, H. Yoneda, M. Hanibuchi, Y. Nishioka, Tokushima, Japan, p.A2360
- P727** FXR Mediates TGFβ1-Induced Migration and Invasion of Non-Small Cell Lung Cancer Cells/H. Jiang, Y. Wenjie, X. Liu, S. Xue, Shanghai, China, p.A2361
- P728** Interactions of Cancer Cell Line MDA-MB-231 with Their Native Tumor Microenvironment and Anti-Cancer Effects of Bevacizumab and Cisplatin on Cancer Cell Invaded Human Living Lung Tissue/S. Konzok, S. Dehmel, P. Braubach, M. Kruger, D. Jonigk, G. Warnecke, O. Pfennig, H.-G. Fieguth, A. Braun, K. Sewald, Hannover, Germany, p.A2362
- P729** Role of Aging, Sex, and Extracellular Cysteine/Cystine Plasma Redox Potential (Eh Cys/CySS) in Experimental Lung Cancer Progression/J.C. Greenwell, J.D. Ritzenthaler, E. Torres-Gonzalez, W.H. Watson, J. Roman, Louisville, KY, p.A2363
- P730** GPBAR1/TGR5 Promotes Non-Small-Cell Lung Cancer (NSCLC) Migration by Regulating TGF-β1-Mediated Akt/Erk1/2 Signaling Pathways/X. Liu, Y. Wenjie, S. Xue, H. Jiang, Shanghai, China, p.A2364



P731 Relationship Between Overexpression of EML4-ALK Variant 1 and Inflammatory Molecules and Immune Mediators Associated with Tumor Progression and Metastasis in BEAS-2B and H2126 Cells/P. Wang, H.M. Li, Beijing, China, p.A2365

P732 Chemical Inhibition of DCUN1D1, a New Approach of Targeting Cullin Neddylation for Lung Cancer Treatment/T. Lear, Y. Liu, A. McKelvey, S. Dunn, B. Chen, Pittsburgh, PA, p.A2366

Facilitator: R.C.W. Yung, MD, Baltimore, MD

P733 Using Tissue Gene Expression to Predict Survival Following 'Curative' Surgical Resection in Lung Adenocarcinoma/M. Shafiq, W. Zhang, A. Gentles, K. Ayers, V.S. Nair, J. Shrager, C. Hoang, O. Gevaert, S. Napel, S. Plevritis, Stanford, CA, p.A2367

P734 Somatic Driver Mutations in Normal Lung Parenchyma in Patients with Localized Pulmonary Adenocarcinoma/R. Chalela, B. Bellosillo, L. Pijuan, R. Longaron, D. Badenes Bonet, A. Rodriguez - Fuster, J. Gea, V. Curull, Barcelona, Spain, p.A2368

P735 The Role of LSD1/KDM1 Isoform LSD1+8a in Small Cell Lung Carcinoma/H. Ihara, K. Tajima, S. Yagishita, T. Jotatsu, M. Hidayat, A. Wirawan, R. Ko, R. Kanemaru, M. Kato, D. Hayakawa, N. Shimada, F. Takahashi, K. Takahashi, Tokyo, Japan, p.A2369

P736 Oncogenic Transformation of a Functional 3D Human Airway Epithelium for In Vitro Lung Cancer Modelling/C. Mas, H. Benainous, S. Huang, L. Wiszniewski, S. Constant, Plan-les-Ouates Geneva, Switzerland, p.A2370

P737 Tumor-Suppressive microRNA-218 Inhibits Cancer Cell Migration and Invasion Directly Targeting TPD52 in Lung Squamous Cell Carcinoma/T. Kumamoto, N. Seki, H. Mataka, K. Kamikawaji, K. Takagi, T. Suetsugu, M. Watanabe, K. Mizuno, T. Samukawa, H. Inoue, Kagoshima City, Japan, p.A2371

P738 A Bronchial Airway Gene Expression Signature Associated with Adenocarcinoma Vs. Squamous Cell Lung Cancer/J. Zhang, J. Perez-Rogers, K. Porta-Smith, D. Whitney, M. Lenburg, A. Spira, J. Beane, Boston, MA, p.A2372

P739 Characterization of the Mutational Landscape and Host Immune Response in Early Lung Carcinogenesis/B.S. Grimes, K. Krysan, L. Tran, T.C. Walser, B. Gardner, S.J. Park, D. Wallace, G. Zeng, D. Elashoff, S.M. Dubinett, Los Angeles, CA, p.A2373

P740 The Pre-Cancer Genome Atlas for Lung Squamous Cell Carcinoma Identifies miRNA/mRNA Cancer-Related Regulatory Interactions/A. Tassinari, S. Mazzilli, J. Campbell, C. Perdomo, G. Liu, S. Zhang, H. Liu, J. Vick, C. Moy, M. Lenburg, M. Reid, S. Singh Dhillon, A. Spira, J. Beane, Boston, MA, p.A2374

THEMATIC POSTER SESSION

A72 MECHANISMS DRIVING FIBROSIS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area A, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: K. Ask, PhD, Hamilton, Canada
S. Yanagi, MD, Miyazaki, Japan

P1 Safety and Efficacy of Allogeneic Lung Spheroid Cells in a Mismatched Rat Model of Pulmonary Fibrosis/J. Cores, M.T. Hensley, K. Kinlaw, M. Rikard, J. Tang, P.-U. Dinh, A. Vandergriff, T. Allen, T. Caranasos, L.J. Lobo, K. Cheng, Raleigh, NC, p.A2375

P2 BMPR2 Loss-of-Function Leads to Differential Effects in Lung Fibrosis and Pulmonary Hypertension/A.M. Hernandez, A. Hanmandlu, S.D. Collum, J. Molina, H. Karmouty-Quintana, Houston, TX, p.A2376

P3 Proteasome-Associated Deubiquitinating Enzyme, Uch37, Plays a Profibrotic Role by Stabilizing Smad2/Smad3 and Promoting TGF-Beta Signaling in Human Lung Fibroblast/L. Nan, A.M. Jacko, J. Tan, D. Wang, J. Zhao, J. Wei, M.F.Y. Mendiola Martinez, S. Li, D.J. Kass, H. Huang, Y. Zhao, Pittsburgh, PA, p.A2377

P4 Ogerin Is a Potential Novel Therapy for Idiopathic Pulmonary Fibrosis/D. Nagel, W.-Y. Ku, W. Narrow, J.L. Judge, P.J. Sime, R.M. Kottmann, Rochester, NY, p.A2378

P5 Less Is Not Always More: OGR-1 Receptor Down-Regulation in Idiopathic Pulmonary Fibrosis/D. Nagel, W.-Y. Ku, W. Narrow, J.L. Judge, P. Sime, R.M. Kottmann, Rochester, NY, p.A2379

P6 Glucocorticoids Retain Alveolar Fibroblast Progenitor Plasticity in Mice/S.E. McGowan, D.M. McCoy, Iowa City, IA, p.A2380

P7 The Concentration of MUC5B Is Directly Related to the Severity of Bleomycin-Induced Lung Injury in Mice/L.A. Hancock, C.E. Hennessy, E. Dobrinskikh, A. Estrella, I.V. Yang, C. Evans, D.A. Schwartz, Aurora, CO, p.A2381

P8 Myeloid-Derived Suppressor Cells Are Necessary for Development of Pulmonary Hypertension Associated with Lung Fibrosis/A.J. Bryant, V. Shenoy, C. Fu, D. Avram, E. Scott, Gainesville, FL, p.A2382

Facilitator: J. Herazo-Maya, MD, New Haven, CT

P9 Transglutaminase-2 Promotes Lung Fibrosis by Inducing a Tense Fibrotic Microenvironment/T. Burwell, R. Dunmore, L. Murray, R. Kolbeck, J. Connor, Gaithersburg, MD, p.A2383

P10 Towards Understanding Spatial Lung Tissue Heterogeneity in Idiopathic Pulmonary Fibrosis (IPF)/P.V. Benos, A.B. Tosun, D.V. Manatakis, M. Vukmirovic, L. Nguyen, X. Yan, B. Hu, G. Delulisi, T. Woolard, J.D.H. Maya, R. Homer, N. Kaminski, C.S. Chennubhotla, Pittsburgh, PA, p.A2384

P11 HOPX-WNT Crosstalk Regulates Alveolar Homeostasis/C. Ota, J.-P. Ng-Blichfeldt, K. Mutze, H. Baarsma, W. Skronska-Wasek, M. Konigshoff, Munich, Germany, p.A2385

P12 Lung Tissue Explants and Precision-Cut Lung Slices from Bleomycin Treated Animals as a Model for Testing Potential Therapies for Idiopathic Pulmonary Fibrosis/M. Bosnar, D. Belamaric, M. Cedilak, A. Paravic Radicevic, I. Faraho, K. Ilic, M. Banjanac, I. Glojnaric, V. Erakovic Haber, Zagreb, Croatia, p.A2386



P13 **Complement Component C3 Deficiency Protects Mice from the Fibrotic Effects of Bleomycin/T.** Okamoto, C.E. Hennessy, L.A. Hancock, A.L. Stefanski, M.I. Schwarz, J.M. Thurman, N.K. Banda, V.M. Holers, I. Yang, D.A. Schwartz, Aurora, CO, p.A2387

P14 **Contribution of Transforming Growth Factor Beta1 (TGF1) Signaling to Pulmonary Fibrosis Through Alternative Polyadenylation (APA) of mRNA/J.** Ko, T. Mills, N.-Y. Chen, F. Luo, K. Philip, J. Davies, J. Molina, K. Volcik, Y. Zhou, M. Blackburn, Houston, TX, p.A2388

P15 **Stabilization of Transforming Growth Factor β Receptor II Promotes Transforming Growth Factor β -1 Signaling in Lung Fibroblast/A.M.** Jacko, L. Nan, S. Li, J. Tan, J. Zhao, D. Wang, D.J. Kass, Y. Zhao, Pittsburgh, PA, p.A2389

Facilitator: Y. Akl, MD, Cairo, Egypt

P16 **Herpes Simplex Virus (HSV) Can Induce Acute Exacerbations of Established Pulmonary Fibrosis by Increasing IL-17A Secretion/T.** Chen, D. Weng, H. Li, Shanghai, China, p.A2390

P17 **Lactate Dehydrogenase Expression and Activity Is Altered in Alveolar Type II Cells from Patients with Idiopathic Pulmonary Fibrosis/D.A.** Newton, R.G. Lottes, M.K. Paintlia, R.M. Ryan, J.E. Baatz, Charleston, SC, p.A2391

P18 **Role of miR125 in Promoting Oxidative Stress and Epithelial to Mesenchymal Transition in Pulmonary Fibrosis-Associated Pulmonary Hypertension/G.** Ruffenach, S. Umar, C.M. Cunningham, S. Moazeni, C. Eshraghi, M. Vaillancourt, C. Hunter, A. Mahajan, A. Ardehali, M. Eghbali, Los Angeles, CA, p.A2392

P19 **The Analyses of Alveolar Epithelial Injury Through the Lipid Metabolic Stress in the Mammalian Target of Rapamycin Inhibitor Induced Lung Disease/Y.** Terasaki, N. Kokuho, S. Kunugi, Y. Saito, M. Terasaki, H. Urushiyama, A. Gemma, Tokyo, Japan, p.A2393

P20 **Inhibition of Lactate Dehydrogenase Prevents Radiation-Induced Pulmonary Fibrosis/J.L.** Judge, C. Woeller, T.H. Thatcher, J.P. Williams, R.P. Phipps, P.J. Sime, R.M. Kottmann, Rochester, NY, p.A2394

P21 **Expression of TGF β Activators by Bronchial Epithelial Cells (BECs) from Asthmatic and Healthy Children/K.** Barrow, S.R. Reeves, T. Kolstad, M. White, M. Naushab, J.S. Debley, Seattle, WA, p.A2395

P22 **The Role of Histone Deacetylase 9 in Idiopathic Pulmonary Fibrosis/P.** Sarvari, P. Chelladurai, M. Korfei, E. Olson, A. Gunther, W. Seeger, S.S. Pullamsetti, Bad Nauheim, Germany, p.A2396

Facilitator: C. Albera, MD, Turin, Italy

P23 **Nintedanib Attenuates the Polarization of Profibrotic Macrophages Through the Inhibition of Tyrosine Phosphorylation on CSF1 Receptor/K.** Tandon, F. Herrmann, E. Ayaub, P. Parthasarathy, M. Ackermann, M.D. Inman, M.R.J. Kolb, L. Wollin, K. Ask, Hamilton, Canada, p.A2397

P24 **Syndecan-2 Inhibits Myofibroblast Differentiation in TGF- β 1-Stimulated Fibroblasts Through Receptor Type Protein Tyrosine Phosphatase Eta Activation/K.** Tsoyi, S. Poli, T. Doyle, S. El-Chemali, K. Konishi, S.G. Chu, M. Perrella, I. Rosas, Boston, MA, p.A2398

P25 **Bleomycin Injury Is Not Associated with Bone Marrow Expansion of CD45+COL1A2+CXCR4+ Cells/J.A.** Dutta, J. Tan, K. Ramani, P.S. Biswas, D.J. Kass, Pittsburgh, PA, p.A2399

P26 **Effects of Nintedanib and Pirfenidone on Alveolar Epithelial Cells in 2D and 3D Lung Cultures/M.** Lehmann, L. Buhl, S. Klee, D.E. Wagner, J. Behr, M. Lindner, M. Konigshoff, Munich, Germany, p.A2400

P27 **Description of a Pro-Fibrotic Biomarker Pattern in Precision-Cut Lung Slices (PCLS)/C.** Hesse, S. Mang, H.-G. Hoymann, M. Niehof, P. Braubach, D. Jonigk, M. Kuhnel, G. Warnecke, O. Pfennig, H.-G. Fieguth, A. Braun, K. Sewald, Hannover, Germany, p.A2401

P28 **Distinct Inhibitory Functions of Protein Kinase A Regulatory Subunit Isoforms in Human Lung Fibroblasts/S.H.** Wettlaufer, L.R.K. Penke, M. Peters-Golden, Ann Arbor, MI, p.A2402

P29 **Novel Treatment Strategy for Pulmonary Fibrosis by a Hybrid Inhibitor of Peripheral Cannabinoid-1-Receptors (CB₁R) and Inducible NO Synthase (iNOS)/R.** Cinar, B.R. Gochoico, M.R. Iyer, J.K. Park, W.A. Gahl, G. Kunos, Rockville, MD, p.A2403

Facilitator: N. Sandbo, MD, Madison, WI

P30 **Autotaxin Inhibitor GLPG1690 Affects TGF β -induced Production of the Pro-Fibrotic Mediators CTGF, IL-6 and ET-1 in Fibroblasts/B.** Coornaert, I. Duys, J. Van Der Schueren, E. Van Der Aar, B. Heckmann, Mechelen, Belgium, p.A2404

P31 **OPG May Protect Bleomycin-Induced Pulmonary Fibrosis by Inhibiting SMAD2/3 Dependent TGF- β 1 Activation/D.** Weng, R. Zheng, H. Li, B. Ge, Shanghai, China, p.A2405

P32 **Proteasomal Activator 200 (PA200) Regulates Cellular Proliferation: A Putative Role for IPF and Lung Cancer Pathogenesis/V.** Welk, T. Meul, J. Merl-Pham, M. Korfei, I. Koch, N. Semren, A. Guenther, M. Lindner, S. Hauck, O. Eickelberg, S. Meiners, Munich, Germany, p.A2406

P33 **A Comparison of Compounds with Claimed Anti-Fibrotic Activity in a Novel Human Fibroblast to Myofibroblast Transition Assay Using IPF Derived Patient Material/J.** Aarbiou, D.J. Leeming, S. Cruwys, N.S. Gudmann, S. Brockbank, A. Young, J. De Groot, Leiden, Netherlands, p.A2407

P34 **Non-Small Cell Lung Cancer (NSCLC) Gene Signature in Idiopathic Pulmonary Fibrosis (IPF)/H.** Ulke, K. Mutze, D. Wagner, M.M. Stein, M. Lindner, J. Behr, A. Gunther, M. Konigshoff, Munich, Germany, p.A2408

P35 **Fibronectin Is Modified by o,o'-Dityrosine Cross-Linking: Implications for Idiopathic Pulmonary Fibrosis/M.** Locy, S. Rangarajan, A. Kurundkar, D. Chanda, J.A. de Andrade, S. Pennathur, V.J. Thannickal, Birmingham, AL, p.A2409

P36 **The Role of Histone Deacetylase 8 in TGF- β 1-Induced Fibroblast-Myofibroblast Differentiation/S.** Saito, Y. Zhuang, Y. Ota, T. Suzuki, G. Morris, J.A. Lasky, New Orleans, LA, p.A2410



THEMATIC POSTER SESSION

A73 BEYOND CIGARETTE SMOKE IN COPD**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area L, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** A.M. Manicone, MD, Seattle, WA

- P1240 Pulmonary Impact of Electronic and Tobacco Cigarettes Dual Exposure: A Preclinical Study/A.** Lechasseur, J. Routhier, M. Talbot, C.-A. Huppe, E. Jubinville, K. Duquette, S. Aubin, M.-J. Beaulieu, M.-E. Pare, D. Marsolais, C. Duchaine, M.C. Morissette, Quebec, Canada, p.A2411
- P1241 MKK3 Mediates Cigarette Smoke Induced Injury: A Proteomics Study/A.** Srivastava, N. Rauniyar, T.T. Lam, R. Luo, P.J. Lee, P. Mannam, Tucson, AZ, p.A2412
- P1242 Prostaglandin E₂ Attenuates Cigarette Smoke-Induced Cellular Inflammation in a SOCS3-Independent Manner/M.R.** Stampfli, D. Thayaparan, A. Roos, M. Divangahi, A.J. Beaulieu, Hamilton, Canada, p.A2413
- P1243 Effect of Sulforaphane Treatment on the Airway Microbiome in COPD/M.J.** Mammen, M. Tsompana, M. Buck, S. Biswal, G.J. Criner, S. Sethi, Buffalo, NY, p.A2414
- P1244 Decreased Particulate Matter (PM) Phagocytic Activity of Type M2-Monocyte Derived Macrophages/K.** Yamasaki, S.W. Ra, D.A. Ngan, D.D. Sin, S.V. Eeden, Vancouver, Canada, p.A2415
- P1245 Wnt/ β -Catenin Modulates Nuclear Factor Erythroid-2 Related Factor-2 During Lung Inflammation and Emphysema/J.** Gao, W.H. Cui, M.X. Ting, C.W. Zhou, H.Z. Zhang, C. Zheng, J. Qu, P.P. Zhang, H. Yao, Dalian, China, p.A2416
- P1246 Regulation and Function of Non-Canonical WNT-5A in Human Lung Fibroblasts/F.** Ciolek, K. Heinzelmann, O. Eickelberg, M. Konigshoff, H. Baarsma, Munich, Germany, p.A2417
- P1247 Bromodomain and Extra-Terminal (BET) Proteins Regulate the Oxidant-Antioxidant Balance in Airway Smooth Muscle Cells from Patients with COPD/C.** Michaeloudes, S. Mumby, K.F. Chung, I. Adcock, London, United Kingdom, p.A2418
- P1248 Role of PKC δ Auto-Down-Regulation in Cigarette Smoke and Alcohol-Induced Airway Cilia Slowing/T.A.** Wyatt, J.H. Sisson, R. Khazanchi, J.M. DeVasure, P.-W. Cheng, K.L. Bailey, Omaha, NE, p.A2419

Facilitator: R. Guzy, MD, PhD, Chicago, IL

- P1249 In Vitro Effects of Water Pipe Smoke Condensate on the Endocytosis Activity of Type II Alveolar Epithelial Cells (A549)/E.** Mortaz, S.D. Alipoor, M. El-Sabban, J. Garssen, I. Adcock, Tehran, Iran, p.A2420

- P1250 Airway Basal Cells Expressed Transforming Growth Factor- α (TGFA) as a Modulator of Smoking-Induced Airway Remodeling/H.** Zhang, J. Salit, Y. Strulovici-Barel, R.G. Crystal, New York, NY, p.A2421
- P1251 The Deletion of CXCR3 Gene Can't Prevent from COPD After Long Term of Cigarette Smoking Exposure in Mice/T.** Liu, Z. Shi, Xi'an, China, p.A2422
- P1252 Pharmacological Characterization of MABA, GSK961081 on Human Airway Smooth Muscle Cells/P.K.** Bhavsar, G. Sehra, M. Johnson, K.F. Chung, London, United Kingdom, p.A2423
- P1253 To Understand the Abundance and Effect of Hydrogen Voltage-Gated Channel 1 (HVCN1) on Neutrophils of Alpha-One Antitrypsin Deficient Patients/P.E.** Hawkins, M.M. White, E.P. Reeves, N.G. McElvaney, N. Browne, Dublin, Ireland, p.A2424
- P1254 DNA Damage in Human Alveolar Type II Cells in Emphysema/B.** Kosmider, L. Vlasenko, S. Boukhenouna, L.H. Tan, N. Marchetti, S. Bolla, C. Mandapati, N. Xander, S. Kelsen, G.J. Criner, K. Bahmed, Philadelphia, PA, p.A2425
- P1255 Pharmacologic Targeting of Alpha7 Nicotinic Receptors to Treat COPD-Related Chronic Bronchitis/L.** Rasmussen, L. Tang, K. Patel, M. Mazur, H. Fortinberry, W. Kem, S.M. Rowe, S.V. Raju, Birmingham, AL, p.A2426
- P1256 Altered Scavenger Receptor Expression in COPD Macrophages After Bacterial Phagocytosis/K.B.R.** Belchamber, P.J. Barnes, L. Donnelly, London, United Kingdom, p.A2427
- P1257 Comparison of Cigarette Smoke and Wood Smoke-in Inducing Mucin Gene Expression/D.D.** Tassew, Y. Tesfaigzi, Albuquerque, NM, p.A2428
- P1258 Production and Preliminary In Vitro Evaluation of a Plant-Made, Oxidation Resistant Alpha-1 Antitrypsin/D.Z.** Silberstein, K. Karuppanan, H.H. Aung, C.-H. Chen, K.A. McDonald, C.E. Cross, Davis, CA, p.A2429
- P1259 A Novel Role for Alpha-1 Antitrypsin in Protecting the Lung from Destruction by MMP-13/K.** Stearns, M. Goldklang, J.M. D'Armiento, New York, NY, p.A2430
- Facilitator:** G. Liu, MD, PhD, Birmingham, AL
- P1260 The Relationship Between Blood and Lung Lavage Eosinophil Counts and Intra-Individual Variability of Blood Eosinophils in Stable Chronic Obstructive Pulmonary Disease/H.** Kim, S.W. Ra, F.S. Leitao Filho, K. Yamasaki, A. Le, C. Tong, E.C. Lee, S. Lam, W.L. Lam, S. Khattra, J. Leung, T. Shaipanich, S.V. Eeden, D.D. Sin, Vancouver, Canada, p.A2431
- P1261 Nicotine-Induced Airway Liquid Volume Loss Depends on Apical Nicotinic Acetylcholine Receptors and Possibly TRPA1/S.** Chung, J. Sailland-Tschudi, N. Baumlín-Schmid, M. Salathe, Miami, FL, p.A2432
- P1262 Tristetraprolin Regulates Cigarette Smoke Induced TNF-Alpha Expression Through an mRNA Decay Mechanism/P.** Che, X. Zhao, G. Cai, M. Hu, C.-Y. Chen, X. Han, Q. Ding, Birmingham, AL, p.A2433



P1263 **Next Generation Sequencing of Alpha-1 Antitrypsin Deficiency MZ Individuals Shows Frequent Bi-Allelic Mutations/K.L. Brown, C. Sanders, J. Kim, H.S. Al Ashry, G. Blanton, T. Beiko, C.B. Strange, Charleston, SC, p.A2434**

P1264 **Bioinformatic Analysis of microRNA and mRNA Regulation in Peripheral Blood Mononuclear Cells of Patients with Chronic Obstructive Pulmonary Disease/X. Qu, X. Dang, W. Wang, C. Liao, Y. Li, X. Zhang, D. Xu, C.J. Baglione, D. Shang, Y. Chang, Xi'an, China, p.A2435**

P1265 **Whole Genome Sequencing in Severe Chronic Obstructive Pulmonary Disease/D. Prokopenko, P. Sakornsakolpat, H. Fier, D. Qiao, C. Lange, T.H. Beaty, J.D. Crapo, E.K. Silverman, M.H. Cho, Boston, MA, p.A2436**

P1266 **A Role of MiR-181 $\pm$ -2-3p in the Airway Inflammation/S.H. Park, J.Y. Kim, W.J. Kim, Gangwon, Korea, Republic of, p.A2437**

P1267 **Gene Expression Profiles in Isolated Lung Endothelial Cells in Chronic Obstructive Pulmonary Disease/Y. Tojo, M. Yamada, N. Fujino, S. Chiba, R. Shibuya, A. Koarai, H. Sugiura, H. Ogawa, M. Ichinose, Sendai, Japan, p.A2438**

P1268 **Club Cell Secretory Protein 16 (CC16) Is Causally Related to Lung Function Decline in Individuals with Chronic Obstructive Pulmonary Disease Using Integrative Genomics/M. Obeidat, G. Zhou, X. Li, S. Burgess, N. Fishbane, N. Hansel, Y. Bosse, P. Joubert, K. Hao, D. Nickle, D.S. Postma, W. Timens, N. Rafaels, R. Mathias, I. Ruczinski, T. Beaty, K.C. Barnes, P.D. Pare, D.D. Sin, Vancouver, Canada, p.A2439**

Facilitator: H.J. Farber, MD, MSPH, Houston, TX

P1269 **Modulation of Gene Expression in Peripheral B-Cells Is Associated with Loss of Lung Function in COPD/C.P. Shannon, V. Chen, Z. Hollander, R. Balshaw, B.M. McManus, D.D. Sin, R.T. Ng, S.J. Tebbutt, Vancouver, Canada, p.A2440**

P1270 **Endocytosis of Alveolar Macrophage-Derived Microvesicles by Epithelial Cells Is Dynamin-Dependent and Inhibited by Cigarette Smoke Extract/D.J. Schneider, J.M. Speth, S.H. Wettlaufer, L.R.K. Penke, M. Peters-Golden, Ann Arbor, MI, p.A2441**

P1271 **Identifying Functional Genetic Effects of FEV1 and FEV1/FVC GWAS Hits on Airway Epithelial Gene Expression/A. Faiz, M. Berg, C.J. Vermeulen, D.S. Postma, W. Timens, C.A. Brandsma, G.H. Koppelman, I.H. Heijink, M. van den Berge, Groningen, Netherlands, p.A2442**

P1272 **RelB Regulation of Cigarette Smoke-Induced Pulmonary Inflammation/S. Pareek, A. Rico De Souza, B. Allard, J.G. Martin, D.H. Eidelman, C. Baglione, Montreal, Canada, p.A2443**

P1273 **Genetic Contribution to Disease Susceptibility in Mice Following Exposure to Vanadium/H.L. Vellers, W. Gladwell, A. Burkholder, K. Verhein, S. Kleeberger, D.M. Walters, Research Triangle Park, NC, p.A2445**

P1274 **GHK-Cu Elicits In Vitro, Dose-Dependent Transcriptional Alterations in Pathways Relevant to Extracellular Matrix Composition/R. McMurphy, C. Perdomo, G. Liu, S. Zhang, C. Stevenson, J. Campbell, A. Spira, M. Lenburg, Boston, MA, p.A2446**

P1275 **Transcriptomic Alterations Associated with Lung Destruction in Emphysematous Lungs with and Without SERPINA1 ZZ Mutation/J. Kantrowitz, D.M. Vasilescu, T.-L. Hackett, D. Kinose, C. Stevenson, J.C. Hogg, M. Lenburg, A. Spira, Boston, MA, p.A2447**

P1276 **Genetic and Epigenetic Colocalizing Associations Identify Potential COPD Genes/J.D. Morrow, M.H. Cho, R.P. Chase, C.P. Hersh, P.J. Castaldi, V. Pinto-Plata, B.R. Celli, N. Marchetti, G.J. Criner, R. Bueno, G. Washko, K. Glass, A.M.K. Choi, J. Quackenbush, E.K. Silverman, D. DeMeo, Boston, MA, p.A2448**

P1277 **Hydrogen-Rich Pure Water Prevents Cigarette Smoke-Induced Pulmonary Emphysema in SMP30 Knockout Mice/Y. Suzuki, T. Sato, M. Sugimoto, H. Baskoro, K. Karasutani, A. Mitsui, Y. Kodama, M. Sekiya, A. Ishigami, K. Seyama, K. Takahashi, Bunkyo, Japan, p.A2449**

THEMATIC POSTER SESSION

A74 REGULATORY MECHANISMS OF THE MOLECULAR PATHWAYS IN FIBROSIS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area A, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: N. Sandbo, MD, Madison, WI

P38 **Nintedanib Inhibits Pro-Fibrotic Mediators with Relevance in Connective Tissue Disease-Associated Interstitial Lung Diseases/L. Wollin, A. Ostermann, V. Brauchle, C. Williams, Biberach, Germany, p.A2450**

P39 **Circulating Desmosine Levels in Idiopathic Pulmonary Fibrosis and Chronic Obstructive Pulmonary Disease/B. Robberts, M. Drent, M. Spanbroek, J.M. Van Den Ouweland, P. Zanen, C.H.M. Van Moorsel, P.A. Wijnen, W. Janssens, R. Janssen, Nijmegen, Netherlands, p.A2451**

P40 **Unphosphorylated PTEN Inhibits TGF β -Induced Aberrant Cell Motility in Epithelial Cells Via Differential Phosphatase Activities/N. Hashimoto, K. Sakamoto, S. Miyazaki, Y. Hasegawa, Nagoya, Japan, p.A2452**

P41 **Nintedanib Effectively Inhibits Carbon Nanotube-Induced Fibrotic Responses in Human Alveolar Epithelial Cells, Fibroblasts and Pulmonary Microvascular Endothelial Cells/A. Thorley, P. Ogger, M. Legorburo-Schofield, T. Tetley, L. Wollin, London, United Kingdom, p.A2453**

P42 **Lung Mesenchymal Stem Cell-Derived Secretome Has Anti-Fibrotic Properties In Vitro/P. Khan, A. Gazdhar, S. Savic, D. Lardinois, T. Geiser, M. Roth, M. Tamm, K.E. Hostettler, Basel, Switzerland, p.A2454**



P43 **Activation of Adenylyl Cyclase/cAMP Pathway Attenuates TGF- β Transcriptional Response in Human Lung Fibroblasts Via EPAC/L.J. Witt, B. Ansbro, R. Nigdelioglu, D. Wu, A.Y. Meliton, P.S. Woods, K.A. Sun, N.O. Dulin, R.B. Hamanaka, G.M. Mutlu, Chicago, IL, p.A2455**

P44 **The MUC5B Promoter Variant Is Associated with Rheumatoid Arthritis Associated Interstitial Lung Disease/J.S. Lee, K.D. Deane, A.D. Walts, T.E. Fingerlin, A. Fischer, J. Ryu, E.L. Matteson, T.B. Niewold, D. Assayag, P.J. Wolters, H.R. Collard, M.I. Schwarz, V.M. Holers, D.A. Schwartz, Aurora, CO, p.A2456**

P45 **Dysregulated STAT3 Signaling Induces and Reinforces Fibroblast Senescence in Lung Fibroblasts of IPF Patients/D.W. Waters, M. Schuliga, E. Fogarty, J.K. Burgess, C. Grainge, G. Westall, G. Laurent, C.M. Prele, S.E. Mutsaers, D. Knight, Newcastle, Australia, p.A2457**

P46 **Blockade of MicroRNA 144-3p in IPF Lung Fibroblasts Increases Expression of the Relaxin Receptor, RXFP1/H. Bahudhanapati, J. Tan, J.A. Dutta, T.Y. Chen, Y. Zhang, D. Kass, Pittsburgh, PA, p.A2458**

Facilitator: C. Agostini, MD, Padua, Italy

P47 **Matrix Metalloproteinase (MMP)-28 Is Expressed in Alveolar Epithelial Cells in Idiopathic Pulmonary Fibrosis and Increases Their Proliferation and Migration/M. Maldonado, B. Ortiz-Quintero, I. Herrera, R. Ramirez, C.A. Staab-Weijnitz, O. Eickelberg, A. Salgado-Aguayo, M. Selman, A. Pardo, Mexico City, Mexico, p.A2459**

P48 **Club Cells Secrete Transforming Growth Factor Beta 1 in Idiopathic Pulmonary Fibrosis/J. Fukumoto, V. Narala, A. Karthik, J. Gone, T. Herrin, L.C. Tan, M.T. Breitzig, A. Czachor, R. Soundararajan, L.F. Richard, N. Kolliputi, Tampa, FL, p.A2460**

P49 **Dasatinib Inhibits TGF β -Induced Epithelial Mesenchymal Transition in Alveolar Epithelial Cells and Lung Fibrosis in Mice/R. Kanemaru, M. Kato, F. Takahashi, K. Tajima, H. Ihara, A. Wirawan, M. Hidayat, H. Bascoro, I. Takeda, D. Hayakawa, Y. Koinuma, K. Suina, T. Sato, N. Shimada, S. Sasaki, K. Takahashi, Tokyo, Japan, p.A2461**

P50 **The Loss of Th2 Cytokine Signaling Attenuates Migration and Protease Activity that Involved in Lung Function Decline and Pulmonary Fibrosis/R.K. Kasam, S.K. Madala, B. Singh, V. Sontake, G.B. Reddy, Cincinnati, OH, p.A2462**

P51 **Characterization of Putative Promoters in the Human RXFP1 Gene/T.Y. Chen, J. Tan, C.H. Hung, D. Zank, S. Yu, H. Bahudhanapati, J.A. Dutta, T.K. Hung, D.J. Kass, Y. Zhang, Pittsburgh, PA, p.A2463**

P52 **Expression of β -Catenin-Induced Transcription Regulators B-Cell CLL/Lymphoma 9 (BCL9) and Naked-1 (NKD1) in Idiopathic Pulmonary Fibrosis/K. Rydell-Tormanen, J. Einarsson, X.-H. Zhou, O. Hallgren, A. Andersson-Sjoland, L. Eriksson, G. Westergren-Thorsson, Lund, Sweden, p.A2464**

P53 **Apolipoprotein A-I and Apolipoprotein E Differentially Modulate the Expression of Extracellular Matrix Proteins by IPF Lung Fibroblasts/D. Figueroa, S. Bui, L. Rodriguez, G. Grant, S. Nathan, S.J. Levine, Bethesda, MD, p.A2465**

P54 **An Anti-Fibrotic Molecule Increases Pulmonary Microvascular Endothelial Permeability Through Activation of Rho Signaling Pathway and Phosphorylation of VE-Cadherin/J. Cai, J. Wei, S. Li, A.M. Jacko, D. Wang, T. Suber, J. Zhao, Pittsburgh, PA, p.A2466**

P55 **The Expression of Th17 Cells, Treg Cells and Their Cytokines in Peripheral Blood in Patients with Sarcoidosis/Y. Zhou, H. Li, Shanghai, China, p.A2467**

Facilitator: E. Bargagli, MD, Florence, Italy

P56 **Exposure to Febrile Range Hyperthermia Potentiates Wnt Signaling and Epithelial Mesenchymal Transition Gene Expression in Lung Epithelium/J.D. Hasday, I. Singh, R. Potla, M. Tulapurkar, I. Luzina, S.P. Atamas, Baltimore, MD, p.A2468**

P57 **Silica-Induced Pulmonary Fibrosis Occurs with the Activation of Macrophage Polarization Through MARCO and in a TGF- β 1-Independent Manner/C. Shimbori, C. Yu, P. Parthasarathy, P.-S. Bellaye, S. Sato, C. Upagupta, K. Ask, J. Gaudie, D. Bowdish, M. Kolb, Hamilton, Canada, p.A2469**

P58 **The Fibrotic Extracellular Matrix (ECM) Induces Mast Cell Degranulation and Phenotypes Changing/C. Shimbori, P.-S. Bellaye, C. Upagupta, S. Sato, J. Gaudie, P. Forsythe, M. Kolb, Hamilton, Canada, p.A2470**

P59 **Combined YAP and TAZ Knockdown Maximally Attenuates Fibroblast Traction Forces, Matrix Stiffness- and TGF- β Mediated Gene Expression/K.M. Choi, A.J. Haak, D.J. Tschumperlin, Rochester, MN, p.A2471**

P60 **Circulating Soluble ICAM-1, Interleukin-6, C-Reactive Protein and Interstitial Lung Abnormalities in the Multi-Ethnic Study of Atherosclerosis (MESA)/C. McGroder, A. Podolanczuk, S.M. Kawut, R. Tracy, R.G. Barr, C.P. Aaron, D.J. Lederer, New York, NY, p.A2472**

P61 **Effects of Culture Medium and Glutaminase Inhibition on Proliferation of Normal Human Airway Smooth Muscle Cells and Pulmonary LAM Patient-Derived Cells/G. Tian, N.A. Schulte, V.P. Krymskaya, R.A. Panettieri Jr., J. Zheng, Y. Huang, M.L. Toews, Omaha, NE, p.A2473**

P62 **Identification of Twist1 E-Box Binding Motifs in the Genes Encoding CXCL12 and RelB/X. Li, J. Tan, S. Yu, J.A. Dutta, D.J. Kass, Y. Zhang, Pittsburgh, PA, p.A2474**

P63 **FGF9 Prevents Pleural Fibrosis Induced by Intra-Pleural Adenovirus Injection in Mice/A. Justet, A. Joannes, V. Besnard, J. Marchal-Somme, M. Jailliet, P. Bonniaud, J.-M. Sallenave, P. Mordant, H. Mal, A. Cazes, R. Borie, A. Mailleux, B. Crestani, Paris, France, p.A2475**

Facilitator: A. Brown, MD, BSN, Atlanta, GA

P64 **Exogenous Induction of Unphosphorylated Tumor Suppressor Phosphatase and Tensin Homolog Deleted on Chromosome 10 Modulates Transforming Growth Factor β -Induced Extracellular Matrix Expression in Lung Fibroblasts/N. Omote, N. Hashimoto, M. Kimura, S. Miyazaki, A. Ando, K. Sakamoto, Y. Hasegawa, Nagoya, Japan, p.A2476**



- P65** **Modulation of Normal and Idiopathic Pulmonary Fibrosis Lung Fibroblast Motility and Invasion by Nintedanib**/D. Habel, M. Espindola, R. Narayanan, I. Jones, A.L. Coelho, L. Wollin, C. Hogaboam, Los Angeles, CA, p.A2477
- P66** **Non-Cell-Autonomous Role of Myofibroblasts in Pulmonary Fibrosis Through Lactate Induction of M2 Macrophage Polarization**/N. Xie, J. Ge, S. Banerjee, H. Cui, A.B. Carter, R.-M. Liu, V.B. Antony, V.J. Thannickal, G. Liu, Birmingham, AL, p.A2478
- P67** **Eosinophils and Siglec^F Monocyte-derived Macrophages Are Increased in Asbestos-induced Lung Fibrosis**/R. Jablonski, C.-I. Chen, P. Cheresh, S.-J. Kim, A.V. Misharin, S. Budinger, D.W. Kamp, Chicago, IL, p.A2479
- P68** **The Role of 5-HT_{2B} Receptor Antagonism on Remodeling in Pulmonary Fibrosis**/A. Lofdahl, K. Rydell-Tormanen, A.-K. Larsson-Callert, C. Wenglen, G. Westergren-Thorsson, Lund, Sweden, p.A2480
- P69** **Tlr5 Protects from the Development of Pulmonary Fibrosis**/S. Garantziotis, C.G. Johnson, S. Hussain, Y. Zhang, R.M. Tighe, A. Gudkov, Research Triangle Park, NC, p.A2481
- P70** **Annexin A2 Mediates Fibrogenic Actions of Factor Xa on Lung Fibroblasts: A Potential Role in Lung Injury and Fibrosis**/M. Schuliga, J. Jaffar, A. Berhan, S. Langenbach, D.W. Waters, T. Harris, G. Westall, D. Knight, A.G. Stewart, New Lambton Heights, Australia, p.A2482
- P71** **Loss of Thy-1 from Myofibroblasts in Progressive Pulmonary Fibrosis and Reversibility of Myofibroblast Phenotype with Soluble Thy-1**/M. Jiang, S.S. Wang, C. Kim, E. Connors, C.R. Espinoza, J.S. Hagood, Nanning, China, p.A7589

THEMATIC POSTER SESSION

A75 BIG AND BIGGER (DATA): OMICS AND BIOMARKERS OF LUNG DISEASES

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area G, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: C. Anderlind, MD, Boston, MA
Y. Saygideger Kont, MD, Ankara, Turkey

- P742** **Targeted DNA Methylation and Inactivation of Endogenous Genes Using CRISPR-DNMT3a Fusion Protein**/S.D. Spivack, A. Yan, M. Shi, Y. Peter, M. Levy, W. Han, Bronx, NY, p.A2483
- P743** **Transcriptomic, Translatomic, and Proteomic Profiling Platform Discovers a Physiological Hallmark of COPD-Associated Lung Cancer**/B.J. Sandri, P. Bitterman, T.J. Griffin, L. Higgins, T. Markowski, S. Avdulov, A.H. Limper, Y. Ping, O. Larsson, C.H. Wendt, Minneapolis, MN, p.A2484

- P744** **A Genome-Wide Network Analysis of Gene Polymorphisms Associated with Idiopathic Pulmonary Fibrosis Susceptibility**/S.-Y. Liao, J.M. Oldham, S.-F. Ma, Y. Huang, Y. Zhang, F.J. Martinez, J.G.N. Garcia, N. Kaminski, I. Noth, Sacramento, CA, p.A2485
- P745** **Transcriptomic Profiling of Flow-Sorted Alveolar Macrophages in Patients with Severe Pneumonia**/J.M. Walter, P.A. Refyman, K.R. Anekalla, R.G. Wunderink, A.V. Misharin, H.K. Donnelly, M. Breganio, J.R. Paonessa, A. McQuattie-Pimentel, M. Chi, F. Gonzalez, S. Soberanes, S. Budinger, Chicago, IL, p.A2486
- P746** **Bronchoalveolar Lavage Fluid Metaproteome in Acute Respiratory Failure**/P.D. Jagtap, K.J. Viken, J.E. Johnson, T.F. McGowan, T.J. Griffin, R. Hunter, J.D. Rudney, M. Bhargava, Minneapolis, MN, p.A2487
- P747** **Rbx1 Regulates Trabeculation by Controlling Cardiomyocyte Multi-Layering**/P. Sarvari, J. Rasouli, O. Stone, D. Stainier, Bad Nauheim, Germany, p.A2488
- P748** **Quantitative Proteomic Analysis of CF and Non-CF -Human Bronchial Epithelial (HBE) Cell Lysates Using a Super SILAC Standard**/K. Salka, K. Brown, Y. Chen, M.C. Rose, Washington, DC, p.A2489
- P749** **TNF α Specific PBMC Responses in Complicated and Uncomplicated Sarcoidosis by RNA-Seq**/N.G. Casanova, N. Pouladi, Y. Lussier, J. Navarrete, J. Berghout, M.L. Gonzalez-Garay, K.S. Knox, J.G.N. Garcia, Tucson, AZ, p.A2490
- P750** **The Isolation and Whole-Genome Sequence Analysis of an Imipenem Heteroresistant Acinetobacter Baumannii Clinical Isolate AB85**/C. Bai, P. Li, Y. Huang, W. Niu, Y. Liu, X. Yuan, H. Liu, J. Zheng, Beijing, China, p.A2491

Facilitator: J.L. Gomez, MD, New Haven, CT

- P751** **Functional Genetics of Lung Function Associated Gene GPR126**/R.J. Hall, I.P. Hall, I. Sayers, Nottingham, United Kingdom, p.A2492
- P752** **Mutational Artifacts Are Introduced in DNA Regulatory Regions by Oxidative Base Damage Associated with Hypoxic Signaling: Implications for Accurate Identification of Sequence Variants**/M.N. Gillespie, V.M. Pastukh, R.J. Langley, D. Roveda, V. King, J. Roberts, T. Johnsten, R. Benton, G. Daly, B. Wang, D. Vera, H. Bass, Mobile, AL, p.A2493
- P753** **Federated Gene Expression Analysis of Mortality Prediction in Sepsis**/R.J. Langley, T.E. Sweeney, T. Perumal, R. Henao, H.R. Wong, B. Tang, P. Khatir, E. Tsalik, L. Mangravite, Mobile, AL, p.A2494
- P754** **Genome Wide Expression Profiling of Peripheral Blood Identifies Transcriptomic Signatures Associated with COPD Phenotypes**/J.H. Yun, A. Lamb, M. Parker, R.P. Chase, P.J. Castaldi, C.P. Hersh, Boston, MA, p.A2495
- P755** **Comparative Transcriptomics Analyses of the Different Growth States of Multidrug-Resistant Acinetobacter Baumannii**/S. Li, X. Yan, H. Li, T. Qi, B. Wang, Shijiazhuang, China, p.A2496
- P756** **Multi-Compartment, Multi-Omics Integration Affords Power to Facilitate Detection of Molecular COPD Sub-Phenotypes in Small Cohorts**/A.M. Wheelock, C.-X. Li, Stockholm, Sweden, p.A7590



- P757** **Transcriptome Analysis of Type I and II-Gated Alveolar Epithelial Cells Derived from Human Lung Explants**/S.G. Chu, Y. Sakairi, K. Konishi, R.S. Kelly, R.P. Chase, A. Blau, K. Tsoyi, S. Poli, J. Villalba, H.J. Goldberg, P.C. Camp, Jr., S. El-Chemaly, G. Washko, M. Perrella, B.A. Raby, I. Rosas, Boston, MA, p.A7591
- P758** **Genome-wide DNA Methylation Analysis at Different Stages of Normal Mouse Lung Development**/C.R. Espinoza, D. Chhabra, T. Nicola, N. Ambalavanan, J.S. Hagood, San Diego, CA, p.A7592

THEMATIC POSTER SESSION

A76 WHAT'S IN THE TOOL BOX TO ASSESS LUNG FUNCTION9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area G, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** B. Oppenheimer, MD, New York, NY

- P760** **Examination of Utility of MostGraph-01 in Cough Variant Asthma Diagnosis**/Z. Isobe, Fukaya City, Japan, p.A2497
- P761** **Volume Dependence of Respiratory Mechanics Determined by the Forced Oscillation Technique During Relaxed Expiration**/U. Peters, N. Daphtary, A.E. Dixon, J.H.T. Bates, Burlington, VT, p.A2498
- P762** **Simplifying the Measurement of Airway Distensibility Assessed by the Forced Oscillation Technique**/S. Mailhot-Larouche, M. Lachance, M. Bullone, R.J. Dandurand, L.-P. Boulet, M. Laviolette, G. King, C. Farah, Y. Bosse, Quebec, Canada, p.A2499
- P763** **FOT by GOLD Classification, and Correlation with PFTs and Patient Reported Outcomes in Community Practice COPD**/R.J. Dandurand, M. Dandurand, J. Bourbeau, D.H. Eidelman, Montreal, Canada, p.A2500
- P764** **Diurnal Variability of Lung Function and Its Association with Sleep Among Patients with COPD**/K. Jetmalani, L. Harkness, C. Thamrin, C.L. Phillips, R. Grunstein, P. Young, G. King, Glebe, Australia, p.A2501
- P765** **Impulse Oscillometry for Monitoring Lung Transplant Recipients: A Sensitive Tool for Bronchiolitis Obliterans Diagnosis?**/H. Salvator, P. Devillier, T. Perez, C. Picard, A. Hamid, F. Lambinet, M. Stern, L.-J. Couderc, H. Neveu, A. Roux, Suresnes, France, p.A2502
- P766** **Spirometry Trends and Utility of Fractional Exhaled Nitric Oxide Measurement in Bronchiolitis Obliterans Syndrome in Hematopoietic Stem Cell Transplant Recipients**/P. Ballal, P.G. Arndt, Minneapolis, MN, p.A2503
- P767** **Comparison of Lung Function Parameters as Predictors of Dyspnea in Restrictive Lung Disease**/S. Baez, W. Rodriguez-Cintron, F. Del Olmo, E. Adorno-Fontanez, J. Torres-Palacios, San Juan, PR, p.A2504

- P768** **The 'Complex Restrictive' PFT Pattern: Clinical and Radiological Analysis of a Novel Restrictive PFT Pattern**/R. Clay, V. Iyer, D.R. Reddy, P.D. Scanlon, Rochester, MN, p.A2505
- P769** **Difficulties in Pulmonary Laboratory Interpretation: The Non-Specific Pulmonary Function Test**/J.C. Brea Folco, C.G. Legarreta, Ciudad de Buenos Aires, Argentina, p.A2506
- P770** **Adjustment of the Severity of Obstruction in Patients with Mixed Obstructive-Restrictive Pulmonary Function Testing**/J. Hunninghake, A.J. Skabelund, J. Hull, M.J. Morris, Fort Sam Houston, TX, p.A2507
- P771** **Diagnosis of Obstructive Lung Disease in Young Veterans: Improving the Sensitivity of Spirometry**/A.H. Cho, C. Bolinger, A. Medinger, Washington, DC, p.A2508

Facilitator: R.A. Wise, MD, Baltimore, MD

- P772** **Difference Between Maximal and Submaximal Effort on FEV1 - Possible Connection to Tracheomegaly in Cystic Fibrosis**/D. Vilozni, G. Rosenberg, M. Lavie, I. Sarouk, B.-E. Bar-Aluma, M. Ashkenazi, M. Soudack, J. Jacobson, A. Dagan, O. Efrati, Ramat-Gan, Israel, p.A2509
- P773** **A Simple Tool for Studies of Disease Progression in COPD and Adult Cystic Fibrosis**/S. Verbanck, M. Paiva, D. Schuermans, W. Vincken, E. Vanderhelst, Brussels, Belgium, p.A2510
- P774** **Real-Life Data: Utility of Micro-Spirometer Piko-6 for Diagnosis of COPD in Primary Care**/M. Barrueco Ferrero, V. Hidalgo Sierra, M.A. Hernandez Mezquita, M. Lopez-Zubizarreta, S. Jodra, J.M. Gonzalez Ruiz, Salamanca, Spain, p.A2511
- P775** **Validation of Spirometry Prediction Equations in Western Kenya**/D. Paul, D. Lagat, J. Egger, D. Murdoch, L.G. Que, P. Kussin, Durham, NC, p.A2512
- P776** **Diagnostic Accuracy of Bronchodilator Response for Asthma in Chinese Population**/J. Feng, S. Zhang, C. Hu, Q. Xun, X. Hu, Changsha, China, p.A2513
- P777** **Risk of Paradoxical Bronchoconstriction After Inhaled Albuterol During Lung Function Testing**/A.J. Schissler, B.R. Celli, Boston, MA, p.A2514
- P778** **The Impact of Obesity on Maximal Voluntary Ventilation: A Look Through 13 Years of Spirometric Data**/S. Mahmoud Assaf, P.H. Patel, S. Patolia, H. Wilson, G.L. Ruppel, R.P. Nayak, St. Louis, MO, p.A2515
- P779** **Correlation Between FEV₁/FVC Ratio, Total Lung Capacity, and Single-Breath Diffusing Capacity**/T.W. DeCato, M.J. Hegewald, O. Linares, D.S. Collingridge, A.H. Morris, Salt Lake City, UT, p.A2516
- P780** **Coaching Patients to Control for Intrathoracic Pressure Differences May Improve DLCO Measurement Accuracy Using the Single Breath DLCO/DLNO Technique**/C. Fermoye, K.E. Coffman, B. Johnson, Rochester, MN, p.A2517
- P781** **An Alternative Approach to the Measurement of the Diffusing Capacity of the Lungs for Carbon Monoxide (DLCO) in Infants**/E. Lima Leite Praca, C. Tiller, J. Kisling, R.S. Tepper, Indianapolis, IN, p.A2518



P782 DLco and Kco Revisited in Asthma and/or Chronic Obstructive Pulmonary Disease (COPD)/K. Shimizu, S. Konno, H. Makita, H. Kimura, M. Suzuki, M. Nishimura, Sapporo, Japan, p.A2519

P783 Prevalence and Clinical Significance of Isolated Reduction in Diffusion Capacity/H. Upadhyay, S.V. Nagaraj, S. Atluri, Z. Hashemi, L. Gerolemou, F. Arjomand, V. Vasudevan, Brooklyn, NY, p.A2520

Facilitator: B.R. Thompson, PhD, Melbourne, Australia

P784 Underreported Low Expiratory Residual Volume (ERV) in Pulmonary Function Tests (PFTs)/M. Hanna, A. Trichounian, I. Mashchenko, T. Pandya, Z. Syed, Z. Ghazarian, R. Sekhon, M. Ismail, Paterson, NJ, p.A2521

P785 Clinical Roles of Lung Volumes Between Body Plethysmography and Helium Dilution Method in Asthmatic Patients: A Correlation and Diagnosis Analysis/Y. Hu, J. Luo, Chengdu, China, p.A2522

P786 Reference Values for the Six Minute Walking Test in Two Adult Latin-American Populations Residing at Moderated Altitudes/M. Velazquez-Uncal, J.C. Vazquez-Garcia, F. Franco-Marina, A. Casas Herrera, L. Gochicoa-Rangel, L. Torre-Bouscoulet, C. Vargas-Dominguez, R. Perez-Padilla, Mexico City, Mexico, p.A2523

P787 Correlation of Lung Function Measurements to Assess Small Airway Disease/D. Zusin, A. Holley, J.H. Sherner, J. Hunninghake, R. Walter, J. Collen, M.J. Morris, Bethesda, MD, p.A2524

P788 Identification of Isolated Small Airway Disease and Correlation with Respiratory Workload During Exercise/D. Mabe, R. Walter, M. Koroscil, J. Collen, J.H. Sherner, A. Holley, M.J. Morris, Bethesda, MD, p.A2525

P789 Pulmonary Ventilation After Bariatric Surgery Assessed by Electrical Impedance Tomography/S.A. Silva, D.C. Brandao, A.C.E. Goncalves, C. Rattes, S.L. Campos, C.C.A. Morais, A. Dornelas De Andrade, Recife, Brazil, p.A2526

P790 Applying of Nasal Potential Difference in Diagnosing Hypoxic Lung Injury: A Systematic Review And Meta-Analysis/Z. Su, L.L. Zhu, J. Wu, R.Z. Zhao, H.-L.J. Ji, Xinxiang, China, p.A2527

P791 Non-Invasive, Non-Contact Measurement of Tidal Breathing Parameters in Healthy Infants Aged (0 - 1) Year Using Structured Light Plethysmography (SLP)/H. Hmeidi, E. Chadwick, W. Lenney, F. Gilchrist, S. Motamedi Fakhr, R. Wilson, R. Iles, J. Alexander, Stoke-on-Trent, United Kingdom, p.A2528

P792 Tracking Tidal Breathing Parameters in Infants with Acute Viral Bronchiolitis (0 - 1) Year Using Structured Light Plethysmography (SLP)/H. Hmeidi, E. Chadwick, W. Lenney, F. Gilchrist, S. Motamedi Fakhr, R. Wilson, R. Iles, J. Alexander, Stoke-on-Trent, United Kingdom, p.A2529

P793 Standardization with Computer Protocols Is Necessary to Assure Replicable Interpretations of Pulmonary Function Tests (PFT)/A.H. Morris, O. Linares, D.S. Collingridge, M.J. Hegewald, Murray, UT, p.A2530

P794 Detection of Interstitial Lung Disease in Systemic Sclerosis Using a Machine Learning Approach Based on Pulmonary Function Tests/N.-N. Le-Dong, T. Hua-Huy, H.M. Nguyen Ngoc, J.-B. Martinot, A.-T. Dinh Xuan, Namur, Belgium, p.A2531

P795 Additional Tuition After a Spirometry Training Course Improves Spirometry Certification Success/M.P. Swanney, E. Ingram, J. Stanton, Christchurch, New Zealand, p.A2532

P796 Hyperinflation Identifies an At-Risk Group in Smokers with Preserved Spirometry/J. Jin, B. Bos, S. Zeng, M. Arjomandi, San Francisco, CA, p.A2533

THEMATIC POSTER SESSION

A77 CHANGES IN THE LUNG DUE TO DIETARY AND ENVIRONMENTAL EXPOSURES

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Area N, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: M.C. McCormack, MD, MHS, Baltimore, MD

P1485 High Fat Diet (HFD) Increases Airway Resistance in Nonobese Mice/K. Fricke, M. Vieira, M.-K. Shin, S. Bevans-Fonti, A. Nelson, I. Sanchez, W. Mitzner, V.Y. Polotsky, Baltimore, MD, p.A2533

P1486 Diet-Induced Obesity Attenuates Airway Hyperresponsiveness in Mice/I. Sanchez, M. Vieira, A. Nelson, K. Fricke, M.-K. Shin, V.Y. Polotsky, W. Mitzner, Baltimore, MD, p.A2534

P1487 Serum Uric Acid Is Positively Associated with Pulmonary Function in Korean Health Screening Examinees: A Cross-Sectional Study/J.-U. Song, J.K. Ahn, J.H. Lee, H.K. Park, Seoul, Korea, Republic of, p.A2535

P1488 Health Check-Up Data Showed a Possible Relationship Between Serum Uric Acid Level and FEV1/FVC Ratio/H.-W. Park, K.-H. Sohn, Seoul, Korea, Republic of, p.A2536

P1489 Role of Increased Iron Levels in the Pathogenesis of Lung Disease/J.C. Horvat, M.K. Ali, D. Johnstone, A.-T. Essilfie, J. Mayall, J.W. Pinkerton, C. Donovan, G. Liu, K. Martin, A.E. Milward, P.M. Hansbro, New Lambton Heights, Australia, p.A2537

P1490 Progressive Restrictive Pulmonary Dysfunction as an Effect of Small-Airway Destruction: The Ongoing Havoc of 9/11/2001/J. Riggs, T. Hossain, R.M. Goldring, Y. Shao, M. Liu, A. Kazeros, C.E. Caplan-Shaw, B.W. Oppenheimer, J. Reibman, K.I. Berger, New York, NY, p.A2538

Facilitator: R.A. Johnston, PhD, Houston, TX

P1491 Assessment of Respiratory Symptoms in Iraq and Afghanistan Veterans Using FeNO/D.S. Ndirangu, A.M. Sotolongo, J.C. Klein, D.A. Helmer, O. Osinubi, L. Patrick-Deluca, N. Eager, M. Falvo, East Orange, NJ, p.A2539



- P1492** Does Acute Exposure to Fine Particulate Matter (PM_{2.5}) from the Metropolitan Region of Rio de Janeiro Impair Pulmonary Mechanics and Trigger Inflammation?/W.A. Zin, T.S. Almeida, C.F. Barandas, M.N. Machado, N.V. Casquilho, C.R. Ribeiro, I. Felzenswalb, Rio de Janeiro, Brazil, p.A2540
- P1493** Does a 90-Day Exposure to Aldehydes Impair Respiratory Function and Structure?/W.A. Zin, M. Abreu, A.C. Neto, G.M. Carvalho, N.V. Casquilho, N. Carvalho, R.T. Okuro, G.C. Motta-Ribeiro, M.N. Machado, A. Cardozo, A.S. Silva, T. Barboza, D.A. Rodrigues, L.M. Camilo, L. Carneiro, F. Jandre, A.V. Pino, A. Giannella-Neto, L.H. Travassos, M.N. Souza, A. Roncally-Carvalho, Rio de Janeiro, Brazil, p.A2541
- P1494** Persistent Hyperventilation Following High Altitude Exposure/N. Morris, G. Stewart, A.R. Carlson, J. Stepanek, H. Seale, K.E. Coffman, C. Wheatley, B. Johnson, Chermerside, Australia, p.A2542
- P1495** Ventilatory Chemoreflexes in Individuals of Himalayan Ancestry Residing at Sea Level/E. Heinrich, M. Djokic, F. Powell, T.S. Simonson, La Jolla, CA, p.A2543
- P1496** Cigarette Smoke Exposure Generates a Unique Peroxidized Phosphatidylcholine Fingerprint in the Lung/A. Jha, A.J. Beaulieu, C.D. Pascoe, A.L. Edel, A. Ravandi, A.J. Halayko, M.R. Stampfli, Winnipeg, Canada, p.A2544
- Facilitator:** J.A. Hirota, PhD, Hamilton, Canada
- P1497** Chronic E-Cigarette Exposure Increases Oxidative Metabolism in Murine Skeletal Muscle/S.A. Vitorino, J.H. Lee, L.E. Crotty Alexander, E.C. Breen, La Jolla, CA, p.A2545
- P1498** Targeting Nicotinic Receptors for Asthma/C. Pabelick, M. Thompson, S. Sine, Y.S. Prakash, Rochester, MN, p.A2546
- P1499** Acute Effects of Electronic Cigarette Use on Lung Functions in Healthy and Asthmatic Individuals/M.-E. Boulay, C. Henry, Y. Bosse, L.-P. Boulet, M.C. Morissette, Quebec City, Canada, p.A2547
- P1500** Effect of Chemokine-Like Receptor 1 on Airway Hyperresponsiveness and Pulmonary Inflammation Induced by Acute Exposure to Ozone/R.A. Johnston, J.B. Richards, W.T. Jackson, N.C. Mitchell, C.S. Bell, C.L. Atkins, S.R. Siddiqui, I.U. Haque, Houston, TX, p.A2548
- P1501** Increased Airway Narrowing Capacity of Bronchial Segments from Preterm Lambs in an Ovine Model of Chorioamnionitis/A. Chang, J. Pillow, S. Ahmadi-Noorbakhsh, P. Noble, Crawley, Australia, p.A2549
- P1502** A Modified Algorithm for Chronic Mountain Sickness Screening Through Noninvasive Hemoglobin Assessment: A Cross-Sectional Study in Puno Region, Peru/R.W. Samuels, D. Danz-Cruz, W. Checkley, P. Herrera, Baltimore, MD, p.A7594
- P1503** Exposure to Antibacterial Chemicals and Changes in Oral Microbiome Are Associated with Lung Function Among Women but Not Men/R.J. Bertelsen, T. Ringel-Kulka, S. Peddada, A. Kaul, F.G. Real, C. Svanes, Bergen, Norway, p.A7595

THEMATIC POSTER SESSION

A78 READY... SET... GO: ALL ABOUT EXERCISE PHYSIOLOGY**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area G, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** D.A. Kaminsky, MD, Burlington, VT

- P798** Correlation of Ventilatory Limitation and Exercise Capacity with Baseline Spirometry Parameters/M. Hundal, C. Ghattas, L.L. Price, P. LaCamera, J. Unterborn, Boston, MA, p.A2550
- P799** Correlation of Forced Vital Capacity with Ventilatory Parameters During Cardiopulmonary Exercise Testing in Obese Patients with Dyspnea/L.S.H. Cruz, C. Monterroso, D. Datta, Farmington, CT, p.A2551
- P800** Breathing Index During Cardiopulmonary Exercise Testing in Patients with Dyspnea and Its Relation to Spirometric Indices and Breathing Reserve/L.S.H. Cruz, C. Monterroso, D. Datta, Farmington, CT, p.A2552
- P801** Forced Vital Capacity and Gas Exchange Parameters During Exercise Testing in Obese Patients with Dyspnea/C. Monterroso, L.S.H. Cruz, D. Datta, Farmington, CT, p.A2553
- P802** Outcome of Cardiopulmonary Exercise Testing in the Evaluation of Dyspnea of Unclear Etiology/T. Kaiser, D. Datta, Farmington, CT, p.A2554
- Facilitator:** E. Gartman, MD, Providence, RI
- P803** Impact of Age on the Outcome of Cardiopulmonary Exercise Testing in the Evaluation of Dyspnea/T. Kaiser, D. Datta, Farmington, CT, p.A2555
- P804** Fitness Assessment in Cancer Patients Using Cardiopulmonary Exercise Testing Prior to Initiation of Chemotherapy: A Feasibility Study/J.V. Baptiste, L.L. Nici, E. Gartman, Providence, RI, p.A2556
- P805** Exercise-Induced Decrement in Inspiratory Capacity in Heart Failure: Dynamic Hyperinflation or Impaired Inspiratory Muscle Function?/D.C. Berton, F. Plachi, F.M. Balzan, R. Dorneles, R. Gass, D.P. Da Silva, N. Clausell, J.A. Neder, Porto Alegre, Brazil, p.A2557
- P806** Use of Principal Component Analysis in Conjunction with Optoelectronic Plethysmography to Isolate Respiratory Motion During Exercise/A.M. McCauley, D.J. Swinarski, W.A. Bulman, A.M. Layton, New York, NY, p.A2558
- P807** Growing Pains: Challenges of Starting a Cardio-Pulmonary Exercise Test Program/J. Wiesen, R. Reuveni, Y. Raviv, Be'er Sheva, Israel, p.A2559



THEMATIC POSTER SESSION

A79 TAKING CONTROL OF BREATHING: RESPIRATORY MUSCLES, INNERVATION, AND GAS EXCHANGE

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area G, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: G.S. Supinski, MD, Lexington, KY

- P809** **Defining the Normal Range for Maximal Sniff Diaphragm Thickening Fraction in Healthy Subjects/S.** Vorona, M. Dres, S. Riegler, U. Sabatini, L.J. Brochard, N.D. Ferguson, E.C. Goligher, Toronto, Canada, p.A2560
- P810** **An Improved Model and Method for Calculation of Diaphragmatic Muscle Activity Based on Esophageal Pressure Measurement/H.** Hajieghrari, R. Sharifi, Philadelphia, PA, p.A2561
- P811** **Effects of IL-33 Intra-Peritoneal Injection on Diaphragm Muscle Contractile Properties in Wild-Type and MyD88KO Mice/K.** Yamaguchi, M. Tamaki, M. Miura, C. Shindoh, Sendai, Japan, p.A2562
- P812** **Reliability of Diaphragm Neuromuscular Efficiency Index in Mechanically Ventilated ICU Patients/D.** Jansen, A. Jonkman, J. Doorduyn, L. Roesthuis, L.M.A. Heunks, J.G. Van Der Hoeven, Nijmegen, Netherlands, p.A2563
- P813** **Repercussions of Lipoabdominoplasty in Diaphragmatic Mobility and Pulmonary Function on Healthy Women/A.M.** Soares De Lima, S. Fluhr, A. Dornelas De Andrade, J. Maia, E. Oliveira, P. Espinola, T. Rocha, A. Medeiros, A.S. Couto, F. Pinheiro, L. Alcoforado, C. Rattes, D. Brandao, Recife, Brazil, p.A2564
- Facilitator:** M.G. Drake, MD, Portland, OR
- P814** **Thoracic Load Carriage Exercise Induces Diaphragmatic Fatigue and Compromises Exercise Capacity/R.-J.** Shei, R.F. Chapman, A.H. Gruber, D.P. Wilhite, T.D. Mickleborough, Bloomington, IN, p.A2565
- P815** **Cineradiographic Analysis of Respiratory Movements in a Murine Model for Late Parkinson's Disease Submitted to Stress/P.S.** De Campos, L.R. De Souza Mendes Kawamura, K. Hasegawa, Y. Kumei, J.L. Lopes Zeredo, Brasilia, Brazil, p.A2566
- P816** **Pitfalls in Using Paired Stimulation of the Femoral Nerve to Quantify Quadriceps Force/G.** Pellegrino, N. Khan, D. Aleksonis, G.F. Sferrazza Papa, S. Oconnell, M. Tobin, F. Laghi, Maywood, IL, p.A2567
- P817** **Evaluation of Function and Regional Lung Ventilation of Morbidly Obese Women Through the Electrical Impedance Tomography/S.A.** Silva, D.C. Brandao, A.C.E. Goncalves, A.S. Couto, C.C.A. Morais, C. Rattes, S.L. Campos, A. Dornelas De Andrade, Recife, Brazil, p.A2568

- P818** **Htr4 Regulates Pulmonary Function Through Neural Innervation/C.** Nichols, J. House, H. Li, C. Brandenberger, R. Virgincar, L. Miller, B. Driehuys, D. Zeldin, S. London, Research Triangle Park, NC, p.A2569

Facilitator: G.C. Sieck, PhD, Rochester, MN

- P819** **Neuromodulation of Cranial Nerves in Migraine Subjects Reduces Respiratory Rate and Variability/L.C.** Feulner, F. Yan-Go, D. Snodgrass, J. Jen, R. Harper, E. Sauerland, R.M. Harper, Los Angeles, CA, p.A2570
- P820** **PHOX2B Non-Polyalanine Repeat Expansion Mutations in Congenital Central Hypoventilation Syndrome (CCHS): Advancing Understanding of Phenotype by Mutation Type Through Industry-Academic Medicine Collaboration/D.E.** Weese-Mayer, A. Zhou, P. Reineke, V. Speare, E. Dunne, G. Niewijk, C.M. Rand, T. Bielawiec, C. Moore, E.M. Berry-Kravis, L. Zhou, M. Yu, L.J. Jennings, Chicago, IL, p.A2571
- P821** **Usefulness of Measuring Oxygen Pressure in Mask-Inspired Gas to Evaluate Alveolar-Arterial O2 Difference While Breathing 100% Oxygen/C.** Deudon, J. Bouvard, S. Turquier, J.-C. Glerant, Lyon, France, p.A2572
- P822** **Relation of Dyspnea to Static Lung Hyperinflation in Chronic Airflow Limitation/M.** Sliotsky, M. Koc, M. Miller, A. Baydur, Los Angeles, CA, p.A2573
- P823** **Order in the Chaos: Can Variability Analysis of Respiratory Waveforms Provide Clinically Useful Information?/K.** Harman, M. Garayt, A. Pow, M. Gorges, M. Seear, Vancouver, Canada, p.A2574

THEMATIC POSTER SESSION

A80-A NOVEL THERAPIES FOR OSA

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area H, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: D.M. Rapoport, MD, New York, NY
S.A. Joosten, MBBS, BMedSc, PhD, Clayton, Australia

- P841** **Upper Airway Volume Changes with CPAP Vs. Unilateral Hypoglossal Nerve Stimulation/T.** Elshebiny, J.M. Palomo, D. Venkat, M. Hans, A. Alonso, Cleveland, OH, p.A2575
- P842** **Use of Non-Invasive Mechanical Ventilation to Prevent Hypoxia During Bronchoscopy in Patients with Sleep Apnea or at High Risk of Sleep Apnea/A.** Babbar, F. Siddiqi, M. Faisal, A. Bajwa, A. Agarwal, M. Patel, J. Cury, V. Seeram, L.M. Jones, M. Louis, K. Treger, Jacksonville, FL, p.A2576
- P843** **Restoration of Sleep Quality Using a Novel Biomimetic Protocol for the Resolution of Obstructive Sleep Apnea/G.D.** Singh, Beaverton, OR, p.A2577
- P844** **Non-Exercise Activity Thermogenesis (NEAT) in Obstructive Sleep Apnea: A Pilot Study/N.** Srivali, M.P. Mansukhani, S.M. Caples, Rochester, MN, p.A2578



P845 **The Effects of Supplemental Oxygen on Obstructive Sleep Apnea During CPAP Withdrawal: Preliminary Data from a Randomised Control Trial/C.** Turnbull, A. Johar, N. Petousi, J.R. Stradling, Oxford, United Kingdom, p.A2579

P846 **Patient and Clinician Insights for Dissemination and Implementation Planning of a Patient-Centered Decision Aid for Left Ventricular Assist Device (LVAD) Treatment/K.M.** Kostick, R. Volk, C.R. Bruce, S.A. McCurdy, J.D. Estep, J.S. Blumenthal-Barby, Houston, TX, p.A2580

Facilitators: K.P. Strohl, MD, Cleveland, OH
O. Lyons, MBBCh, Toronto, Canada

P847 **The Use of a Home Exercise Program Based on the Wii Fit in Patients with COPD and OSA/M.** Macrea, F. Siddiqui, A.P. Noriega Aldave, D. Smith, B.B. Patel, R. Mantilla, S. Nepal, T. Martin, K.A. Oursler, Charlottesville, VA, p.A2581

P848 **Evaluation of the Tolerance and Effectiveness of Nasal Airway Stent/W.** Furuie, I. Sasaki, A. Uezato, T. Miyoshi, M. Akaza, T. Sasano, Y. Miyazaki, N. Inase, Y. Sumi, Tokyo, Japan, p.A2582

P849 **Comparison of Objective Adherence and Effectiveness Between Two Types of Mandibular Advancement Devices for the Treatment of Obstructive Sleep Apnea: A Crossover Randomized Study/N.** Castello Branco, S.J. Nunes, R.O. Martins, P. Genta, G. Lorenzi-Filho, Sao Paulo, Brazil, p.A2583

P850 **Characterizing Site and Severity of Upper Airway Collapse to Guide Patient Selection for Oral Appliance Therapy for Obstructive Sleep Apnea/M.** Marques, P. Genta, S.A. Sands, L. Taranto Montemurro, A. Azarbarzin, C. De Melo, D.P. White, A. Wellman, Boston, MA, p.A2584

P851 **Evaluation of Automated Oxygen Flowrate Titration (FreeO₂) in a Model of Induced Cyclic Desaturations in Healthy Subjects Reproducing Desaturations During Central Apneas/F.** Lellouche, P.-A. Bouchard, E. L'Her, F. Series, Quebec, Canada, p.A2585

P852 **Developing a Novel Minimally Invasive Surgical Approach to the Base of Tongue for Implantation to Treat Obstructive Sleep Apnea: Midline Lingual Septal Approach/S.-W.** Kim, J.-H. Lee, G.S. Roh, D.H. Lee, Jinju, Korea, Republic of, p.A2586

Facilitators: E. Kezirian, MD, Los Angeles, CA
P.R. Eastwood, PhD, Nedlands, Australia/
R.C. Stansbury, MD, Morgantown, WV

P853 **Effect of Finasteride on Breathing Stability During NREM Sleep in the Elderly/R.** Rastogi, M.S. Badr, A. Sankari, K. Bakkila, H. Abbas, V. Mukkavilli, S. Chowdhuri, Detroit, MI, p.A2587

P854 **Oxytocin Decreases the Durations of Hypopneas in Patients with Obstructive Sleep Apnea/V.** Jain, J. Marbach, S. Kimbro, M. Kay, D. Mendelowitz, Washington, DC, p.A2588

P855 **Effects of the Mandibular Repositioning Device NARVAL in Patients with Mild to Moderate Sleep Apnea/S.** Sutharsan, G. Weinreich, S. Werther, Y. Wang, S. Terjung, A. Graml, B. Rohlfing, H. Teschler, Essen, Germany, p.A2589

P856 **Upright Posture Mitigates Hypoxemia in Peruvian Highlanders/L.** Pham, R. Arias, B. Etienne, V.Y. Polotsky, W. Checkley, A.R. Schwartz, Baltimore, MD, p.A2590

THEMATIC POSTER SESSION

A80-B CASE REPORTS IN SLEEP MEDICINE

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area H, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: C. Lal, MD, Charleston, SC
A.M. Romaker, MD, Milford, OH

P858 **Severe Obstructive Sleep Apnea in Rubinstein-Taybi Syndrome/M.N.** Hawkins, C. Canapari, New Haven, CT, p.A2591

P859 **An Unusual Case of REM Rebound with Sleep Disordered Breathing/ C.** Colaco, J. Andry, B. Colaco, K. Bagai, Nashville, TN, p.A2592

P860 **A Case of Positive Pressure Ventilation in Bullous Lung Disease/D.** Yang, A. Holley, B. Robertson, J. Collen, B. Foster, Bethesda, MD, p.A2593

P861 **Hypoxemia and Pulmonary Hypertension in a Young Obese Man: A Case of Obesity Hypoventilation Syndrome/M.Y.A.** Chavez, G.A.O. Pancho, D.C. Teo, Metro Manila, Philippines, p.A2594

P862 **Crazy Little Thing Called Love(s Park): An Unusual Case of Desaturation in the Sleep Lab/S.** Srinivas, R. Waldhorn, Washington, DC, p.A2595

P863 **Lacrimal Duct Air Regurgitation in a Patient on Continuous Positive Airway Pressure Therapy/M.** Plum, A. Endara-Bravo, K. Pfirman, Lumberton, NC, p.A2596

P864 **Schizophrenia and Obstructive Sleep Apnea: Could CPAP Cure Both?/P.F.** Grunstein, A. Fazleen, P. Sankaran, Norwich, United Kingdom, p.A2597

Facilitators: E.M. Davis, MD, Charlottesville, VA
M. Baltzan, MD, Montreal, Canada

P865 **The Rocky Path from Sleep Apnea to Auto-Immune Encephalitis/P.F.** Grunstein, C. Atkins, A. Fazleen, P. Sankaran, Norwich, United Kingdom, p.A2598

P866 **Neurocysticercosis: A Forgotten Cause of Secondary Narcolepsy/ T.** Abdo, G. Patel, C. Cross, K.R. Jones, Oklahoma City, OK, p.A2599

P867 **Improvement of Sleep Disordered Breathing in a 65 Year Old Woman with Multiple Sclerosis After Discontinuation of Fingolimod/S.** Bhatia, L.K. Brown, Albuquerque, NM, p.A2600

P868 **Dramatic Nocturnal Complete Heart Block - What Is the Management?/N.** Mesiha, M. Gugnani, R. Nagra, B. Nagra, Trenton, NJ, p.A2601

P869 **Intractable Hiccups - What Else Can We Do?/D.** Damania, M. Nandigam, H. Leuva, K. Singh, R. Siegel, Z. Khan, M. Bachan, Bronx, NY, p.A2602

P870 **Supranormal Expiratory Airflow After Bilateral-Lung-Transplantation: Two Cases with Two Different Mechanisms?/H.** Sajjad, M. Eberlein, Iowa City, IA, p.A2603



THEMATIC POSTER SESSION

A80-C NOVEL DIAGNOSTIC APPROACHES TO SDB9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER****Area H, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitators:** H. Schneider, MD, PhD, Baltimore, MD
L. Taranto Montemurro, MD, Boston, MA
O.Basolu, MD, Istanbul, Turkey**P872 The Effects of Anthropometric Parameters on Screening Obstructive Sleep Apnea Using Breathing Sounds During Wakefulness/A.M. Elwali, S. Meza-Vargas, Z. Moussavi, Winnipeg, Canada, p.A2604****P873 Effect of Body Position on Impulse Oscillometry in Healthy Volunteers: A Pilot Study/P.A. Gonzales, D.J. Pearson, G.D. Haislip, M.J. Morris, A.J. Skabelund, Fort Sam Houston, TX, p.A2605****P874 Does Scoring of Autonomic Hypopneas Improve Clinical Decision Making in Obstructive Sleep Apnea?/S. Khadadah, P. Lachapelle, S. Pamidi, A.E. Olha, A. Benedetti, R.J. Kimoff, Montreal, Canada, p.A2606****P875 Addition of Frontal EEG to Home Sleep Apnea Testing to Diagnose Adult Obstructive Sleep Apnea: Does a More Accurate Determination of Sleep Time Make a Difference?/M. Light, T. Casimire, C. Chua, V. Koushyk, O. Burschtin, I. Ayappa, D.M. Rapoport, La Jolla, CA, p.A2607****P876 Accuracy of Non-Dipping Blood Pressure in Predicting Obstructive Sleep Apnea in Patients Submitted to Ambulatory Blood Pressure Monitoring/S.F. Furlan, D.C. Genta-Pereira, D.D.Q. Omote, D. Giorgi, L.A. Bortolotto, G. Lorenzi-Filho, L.F. Drager, Sao Paulo, Brazil, p.A2608****P877 MicroRNAs Profile in Obstructive Sleep Apnea: Preliminary Results/L.S. Freitas, F.C. Martins, G.F. Mota, A.C. Silveira, G. Lorenzi-Filho, E.M. Oliveira, L.F. Drager, Sao Paulo, Brazil, p.A2609****P878 Investigating the Effects of Pharyngeal Tissue Content on Snoring Sounds Features/S. Saha, Z. Moussavi, P. Hadi, T.D. Bradley, A. Yadollahi, Toronto, Canada, p.A2610****Facilitators:** P.J. Strollo, MD, Pittsburgh, PA
K. Kairaitis, MBBS, PhD, Westmead, Australia/
J.E. Orr, MD, La Jolla, CA**P879 Do Conventional Anthropometric Measures Predict Obstructive Sleep Apnea in Pregnancy?/A. Kaur, T. Sequeira, E. Adodoadji, S. Martin, M. Bublit, B. Hott, G. Bourjeily, Providence, RI, p.A2611****P880 Pulse Transit Time in Pregnant Women with and Without Obstructive Sleep Apnea/B. Link, G. Bourjeily, M. Bublit, M. Pengo, T. Sequeira, E. Adodoadji, B. Hott, Providence, RI, p.A2612****P881 Obstructive Sleep Apnea and Electrocardiographic Repolarization Abnormality/P.S. Corotto, M. Shields, W.C. Harding, Y. Cho, J. Knight, H. Otchere, B. Massaro, C. Campbell, Y. Kwon, Charlottesville, VA, p.A2613****P882 Prevalence and Determinants of Obstructive Sleep Apnea in Semi-Urban and Rural Area of Cameroon/A.D. Balkissou, E.W. Pefura-Yone, C. Kenne-Kenyo, M. Massongo, E. Afane-Ze, Yaounde, Cameroon, p.A2614****P883 Comparison Between Radiological and Clinical Neck Circumference Measurements/A. Kubbara, Z. Khan, S. Qiu, W. Barnett, A. Aguilon, Toledo, OH, p.A2615****P884 Association Between Mallampati Score and Tongue Volume/R.A.B. De Athayde, F. Schorr, E. Gebrim, G. Lorenzi-Filho, P. Genta, Sao Paulo, Brazil, p.A2616****P885 Gender Differences in Polysomnographic Findings in Egyptian Patients with Obstructive Sleep Apnea Syndrome/H. Assal, E. Kamal, Cairo, Egypt, p.A2617****Facilitators:** J. Kirkness, PhD, Baltimore, MD
S.A. Landry, PhD, Notting Hill, Australia**P886 Evaluation of a Contact Free Monitoring Technology for Measurement of Obstructive Sleep Apnea/Z. Shinar, M. Yizraeli, D. Argaman, A. Tal, Ramat-Gan, Israel, p.A2618****P887 Poor Inter-Rater Reliability in Interpretation of Overnight Oximetry Despite Worksheet Assistance/M. Ayache, A.M. May, K.P. Strohl, Cleveland, OH, p.A2619****P888 Respiratory Volume Monitoring from Afar Using Wireless Signals/P. Nguyen, S. Transue, M.-H. Choi, A.C. Halbower, T. Vu, Denver, CO, p.A2620****P889 High Resolution Pulse Oximetry as an Outcome Predictor in Stroke/A. Niroula, S.S. Yaddanapudi, U. Mukhtar, S. Sharma, Philadelphia, PA, p.A2621****P890 Impact of Skeletal Muscle in Patients with Obstructive Sleep Apnea/T. Matsumoto, K. Tanizawa, R. Tachikawa, K. Murase, T. Minami, M. Inouchi, T. Handa, T. Oga, T. Hirai, K. Chin, Kyoto, Japan, p.A2622****P891 Is Overnight Fluid Shift Clinically Detectable in Obstructive Sleep Apnea?/O. Badarani, C. Philippe, T. Similowski, I. Arnulf, S. Redolfi, Paris, France, p.A2623****P892 The Efficacy of In-Ear Electroencephalography (EEG) to Monitor Sleep Latency and the Impact of Sleep Deprivation/Y. Alqurashi, J. Moss, T. Nakamura, V. Goverdovsky, M. Polkey, D. Mandic, M.J. Morrell, London, United Kingdom, p.A7596**



ATS 2017

Where today's science meets tomorrow's care™

International Conference

Washington, DC

Sunday Mid-day, May 21

11:45 a.m. - 1:15 p.m.

ATS DIVERSITY FORUM

RENAISSANCE WASHINGTON DOWNTOWN
Grand Ballroom North (Ballroom Level)

The annual ATS Diversity Forum focuses on diversity within the fields of pulmonary, critical care, and sleep medicine and research. At the 2017 forum we are pleased to welcome **Eliseo J. Pérez-Stable, MD**, Director, National Institute on Minority Health and Health Disparities at the National Institutes of Health, as our speaker. Dr. Perez-Stable, who was named to this position in 2015, has been called "a highly respected leader with rich experience in advancing efforts to eliminate health disparities." His interests have included improving the health of racial and ethnic minorities and underserved populations and improving cross-cultural communication skills among health care professionals. He will address career and diversity issues followed by a question and answer period.

The Minority Trainee Development Scholarships (MTDS), which recognize trainees who are members of underrepresented minority groups, will also be presented at this forum. MTDS recipients are selected for the quality of the science in their submitted abstract, among other criteria. Their abstracts will be presented at this conference.

All conference attendees, including past MTDS recipients, are invited to attend this forum which provides an opportunity for discussion and networking among attendees. Attendees will find inspiration and valuable career insights.

The Diversity Forum is organized and presented by the ATS Membership Committee and will be hosted by its chair **Yolanda Mageto, MD, MPH**. The Minority Trainee Development Scholarships are supported by the American Thoracic Society.

Conference badges are required for admission

*Space is limited and admittance is on a first-come, first-served basis.
There is no additional fee. A plated lunch will be served.*

BEHAVIORAL • CLINICAL

WORKSHOP

CME Credits Available: 1.5

WS1 TURNING DATA INTO WISDOM: DATABASES AND REGISTRIES FOR BETTER LUNG CANCER OUTCOMES

 **Registration Fee: \$75 (includes box lunch)**
Attendance is limited. Pre-registration is required.

Assemblies on Thoracic Oncology; Behavioral Science and Health Services Research; Clinical Problems

11:45 a.m. - 1:15 p.m.

MARRIOTT MARQUIS WASHINGTON

Archives (Level M4)

Target Audience

Lung cancer clinicians who wish to learn more about the content and structure of cancer registries, how to use and improve the data to create better clinical outcomes and how to build datasets for lung cancer screening

Objectives

At the conclusion of this session, the participant will be able to:

- recognize the types of data collected by registries, the limitations of that data and how to access that data;
- identify requirements of data collection for quality improvement, research and in particular for lung cancer screening.

Outcomes research and quality improvements in lung cancer use a range of data sources including clinical trials, administrative and insurance-linked registries. The complexities of lung cancer screening call for high quality, accessible and relevant information, requirements that demand much of routinely collected clinical data. Administrative registries have advantages (large numbers, population cohorts) and disadvantages (retrospective, inaccessible). For many practicing lung cancer clinicians, registry data are not clinically relevant, despite the high levels of expenditure and effort required for their collection. This session will explore clinically relevant approaches to registry data that attendees can use to improve lung cancer outcomes.

Chairing: E.C. Stone, MBBS, MMed,
Darlinghurst, Australia
M.K. Gould, MD, MS, Pasadena, CA

11:45 More than Just Excel: A Brief Introduction to Databases for Clinicians

E.C. Stone, MBBS, MMed, Darlinghurst, Australia

11:50 The Value of a Comprehensive National Lung Cancer Database: The Danish Experience

E. Jakobsen, MD, MPM, Odense, Denmark

12:05 What Do Databases Offer for Clinical Practice? Lessons from U.S. Registry Data (Including SEER and AQuIRE)

D.E. Ost, MD, MPH, Houston, TX

12:20 The Promises and Pitfalls of Data Linkage: Experience from the Victorian Lung Cancer Registry

R. Stirling, BSc(Hons), MBChB, Melbourne, Australia

12:35 Building a Database for Clinicians: The ACR Lung Cancer Screening Registry

E.A. Kazerooni, MD, Ann Arbor, MI



- 12:50 Interactive Discussions**
 E.A. Kazerooni, MD, Ann Arbor, MI
 D.E. Ost, MD, MPH, Houston, TX
 R. Stirling, BSc(Hons), MBChB, Melbourne, Australia
 E. Jakobsen, MD, MPM, Odense, Denmark
- 1:10 Summary of Session and Final Questions to Panel**
 M.K. Gould, MD, MS, Pasadena, CA

CLINICAL**CAREER DEVELOPMENT FORUM**

CME Credits Available: 1.5

WS2 GLOBAL HEALTH CAREERS IN PULMONARY AND CRITICAL CARE MEDICINE

R This Forum is part of the ATS initiative to offer program specifically geared toward the professional development of trainees, fellows and students to aid in the pursuit of successful careers in pulmonary, critical care and sleep medicine.

Pre-registration is required. Attendance is limited. There is no additional fee.

Assembly on Critical Care; Member in Transition and Training and Committee (MITT)

11:45 a.m. - 1:15 p.m.

MARRIOTT MARQUIS WASHINGTON

Capitol/Congress (Level M4)

Target Audience

Early career professionals (junior faculty, fellows, residents, students) interested in careers in global health

Objectives

At the conclusion of this session, the participant will be able to:

- understand different strategies to develop a successful career in global health;
- network with established global health faculty.

This intimate session will provide early career professionals an invaluable opportunity to interface and network with pulmonary and critical care faculty with established global health careers. Panelists will include both junior and senior faculty and will highlight different pathways to achieving success, including academic/research, private practice, non-governmental organization (NGO), faith-based medical education, and hybrid models. The end of the session will provide Q&A time to allow participants to interact directly with faculty.

Chairing: A. Papali, MDCM, Baltimore, MD
 N.K. Adhikari, MD, Toronto, Canada

11:45 Pulmonary/Critical Care and Global Health: Yes You Can!
 A. Papali, MDCM, Baltimore, MD

11:55 How to Have a Successful Academic Global Health Career
 E.D. Riviello, MD, MPH, Boston, MA

12:07 Productive Research in LMICs: The Importance of Partnerships
 S. Gordon, MD, Blantyre, Malawi

12:19 Faith-Based Global Health Careers
 B.W. Lee, MD, Pittsburgh, PA

12:31 Global Health and Medical Education
 E.J. Carter, MD, Providence, RI

12:43 WHO Consulting
 R. Fowler, MD, MDCM, MSc, Toronto, Canada

12:55 General Discussion

CLINICAL**ADULT CLINICAL CORE CURRICULUM**

CME Credits Available: 1.5

MOC Credits Available: 1.5

CC1 CRITICAL CARE CLINICAL CORE CURRICULUM I

Adult Core Curriculum Working Group

11:45 a.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Hall E (Middle Building, Level 2)

Target Audience

Practicing internists and subspecialists in Pulmonary, Critical Care, and Sleep medicine who work in a clinical setting and are currently engaged in maintenance of certification

Objectives

At the conclusion of this session, the participant will be able to:

- remain current with medical knowledge relevant to their practice in pulmonary, critical care, and sleep medicine;
- evaluate their understanding of key skills and content areas in pulmonary, critical care and sleep medicine, as well as receive feedback on their comprehension of a result of a pre-test/post-test comparison;
- support clinicians who are engaged in maintenance of certification activities by providing updates on subjects included in recertification requirements.

The ATS Clinical Core Curriculum Symposia focus on a 3-year content cycle of key medical content in the areas of Pulmonary, Critical Care, and Sleep Medicine. The topics are also aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to assist clinicians with staying current with the growth of information relevant to their medical practice, as well as provide an opportunity to evaluate individual knowledge and skills while earning MOC Medical Knowledge points.

Chairing: J.I. McSparron, MD, Boston, MA
 A.M. Luks, MD, Seattle, WA

11:45 Acute Liver Failure
 A.E. Morris, MD, Seattle, WA

12:15 Acute Pancreatitis
 J.D. Farkas, MD, Burlington, VT

12:45 Hematologic and Oncologic Emergencies
 R.S. Stephens, MD, Baltimore, MD



AMERICAN LUNG ASSOCIATION AIRWAYS CLINICAL RESEARCH CENTERS

L1 AMERICAN LUNG ASSOCIATION AIRWAYS CLINICAL RESEARCH CENTERS CLINICAL TRIALS

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 143 A-C (Middle Building, Street Level)

Target Audience

Physicians, clinical scientists, nurses, paraprofessionals, educators, health care providers

Objectives

At the conclusion of this session, the participant will be able to:

- understand predictors of treatment failure and the non-reversible airway obstruction in children;
- learn new methods of evaluating outcomes in asthma;
- understand the validity of the asthma control score in asthmatic smokers.

The purpose of the ALA-ACRC is to conduct clinical trials with practical importance to adults and children with asthma and COPD. ACRC has produced manuscripts from data analyzed from the LASST, MICT, SCS, and REACH trials. For the LASST trial, the primary hypothesis was that stopping LABA would be inferior to reducing ICS dose and continuing LABA; the secondary hypothesis was that reduced ICS/LABA would be non-inferior to stable ICS/LABA. The primary outcome was time to treatment failure. The MICT trial hypothesized that incorporation of mobile devices and the internet into a study design that tests interventions to reduce morbidity in pediatric asthma would result in a lower-cost method for conducting a clinical trial and encourage more families to participate. The SCS trial was designed to evaluate the performance characteristics of study questionnaires (ACT and ASUI) and composite measures of asthma control (EPAC and TRS) for people with asthma who are active smokers. The objective of the REACH trial was to systematically characterize a diverse cohort of children with airflow obstruction resistant to BD.

Chairing: W.C. Bailey, MD, Birmingham, AL
R.A. Wise, MD, Baltimore, MD

- 12:15 Predictors of Treatment Failure in LASST**
E. DiMango, MD, New York, NY
- 12:30 Using iPads and the Internet to Conduct Clinical Trial Visits**
K. Blake, PharmD, Jacksonville, FL
- 12:45 Validity of Asthma Control Score in Asthmatic Smokers**
X. Soler, MD, PhD, San Diego, CA
- 1:00 Non-Reversible Airway Obstruction in Children**
S. Krishnan, MD, Valhalla, NY

ENVIRONMENTAL PROTECTION AGENCY

L2 AIR POLLUTION AND PUBLIC HEALTH

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 202 A (South Building, Level 2)

Target Audience

Health care providers, patients and researchers interested in the respiratory and other health effects of air pollution

Objectives

At the conclusion of this session, the participant will be able to:

- understand recent findings on health effects of air pollution in the context of public health;
- understand EPA activities to communicate public health risks linked to wildland fires;
- promote to the health care community the need to communicate to patients the risks that air pollution may pose to them.

The session will present information on new research endeavors at the EPA regarding the communication of the public health implications of air pollution, with a specific focus on a) wildfires and respiratory health, b) EPA's efforts to communicate with the public on health effects of air pollution and c) integrating air pollution risk communication into health care delivery and practice.

Chairing: D. Costa, ScD, Research Triangle Park, NC

- 12:15 Introduction**
D. Costa, ScD, Research Triangle Park, NC
- 12:20 AQI and Community Outreach**
S. Stone, MS, Research Triangle Park, NC
- 12:35 Wildland Fire Smoke and Public Health**
A. Rappold, PhD, Chapel Hill, NC
- 12:50 Air Pollution and the Health Care System**
W. Cascio, MD, Chapel Hill, NC

NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH)

L3 WORK-RELATED LUNG DISEASE: STILL WITH US

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 202 B (South Building, Level 2)

Target Audience

Providers of lung health; clinicians and other professionals providing preventive, diagnostic, and therapeutic services to employers and to workers at risk for work-related lung disease; and those interested in conducting research in the field.

Objectives

At the conclusion of this session, the participant will be able to:

- learn about new requirements for protecting workers from coal mine dust and silica, and proposed requirements for beryllium;
- gain new findings about respiratory toxicity of diacetyl and related compounds;
- learn about continuing burden of work-related respiratory disease and opportunities to set a national research and service agenda for the nation.

This session will address continuing challenges to the elimination of work-related respiratory disease, highlight several examples of ongoing work in the field, and provide attendees with information about NIOSH efforts to set research priorities for the next decade and how they can become involved.



Chairing: D.N. Weissman, MD, Morgantown, WV

- 12:15 Work-Related Respiratory Health: 50 Years of Research and Service**
D.N. Weissman, MD, Morgantown, WV
- 12:30 Coal Mine Dust Lung Disease: Where Are We? Where Do We Need to Go?**
A.S. Laney, PhD, Morgantown, WV
- 12:45 Flavorings-Related Lung Disease: From Popcorn to Molecular Mechanisms**
A.F. Hubbs, DVM, PhD, Morgantown, WV
- 1:00 Priorities for Work-Related Respiratory Health in the Next Decade**
P.K. Henneberger, MPH, ScD, Morgantown, WV

U.S. FOOD AND DRUG ADMINISTRATION

L4 PULMONARY UPDATE FROM THE U.S. FOOD AND DRUG ADMINISTRATION

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 204 A-C (South Building, Level 2)

Target Audience

Clinicians in practice, researchers, pharmaceutical industry representatives, international regulators

Objectives

At the conclusion of this session, the participant will be able to:

- discuss the most recent FDA approvals for pulmonary indications. Understand the regulatory framework for these approvals and lessons learned;
- learn about the FDA's new labeling initiatives for opioid medicines for cough indications;
- understand the regulatory challenges in drug development for cystic fibrosis and how these can be overcome.

The most recent regulatory FDA actions including discussion of current safety and efficacy issues of products for pulmonary indications, and clinical trials design issues will be discussed. The recent agency actions regarding opioid medicines for cough indication in children and an update on the long-acting-beta agonist (LABA) safety issues will be presented. The regulatory challenges for drug development in cystic fibrosis (CF) in view of the recent approvals of drugs for specific mutations will be presented.

Chairing: L.I. Gilbert-McClain, MD, Silver Spring, MD

- 12:15 Update on Current Pulmonary Issues at FDA**
L.I. Gilbert-McClain, MD, Silver Spring, MD
M. Paterniti, MD, Silver Spring, MD
- 12:40 Pulmonary Safety Update from the FDA**
S. Seymour, MD, Silver Spring, MD
- 12:55 Regulatory Considerations for Drug Development in Cystic Fibrosis**
R. Lim, MD, Silver Spring, MD
- 1:10 Questions and Answers**
L.I. Gilbert-McClain, MD, Silver Spring, MD

VARIOUS ORGANIZATIONS

L5 RESEARCH FUNDING OPPORTUNITIES

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 102 A-B (South Building, Street Level)

Target Audience

Any ATS members who are conducting research and seeking for research funding

Objectives

At the conclusion of this session, the participant will be able to:

- describe the research priorities of each funding agency represented on the panel;
- identify a funding agency that is most closely aligned with the attendee's research interest.

This session will introduce programs and research grant opportunities offered from various funding agencies. Speakers will present current research priorities and mechanisms of research funding available from each agency.

Chairing: J. Choi, PhD, RN, Pittsburgh, PA
J.A. Tate, PhD, RN, Columbus, OH

- 12:15 ATS Foundation**
A.M. Tager, MD, Charlestown, MA
- 12:27 American Lung Association**
S. Rappaport, MPH, New York, NY
- 12:39 National Institute of Nursing Research**
K. Huss, PhD, Bethesda, MD
- 12:51 National Center for Complementary Integrative Health**
L.M. Mudd, PhD, Bethesda, MD
- 1:03 National Heart Lung and Blood Institute**
L. Reineck, MD, Bethesda, MD

NATIONAL HEART, LUNG, AND BLOOD INSTITUTE, DIVISION OF LUNG DISEASES, NIH

L6 PHENOTYPING IN THE SUBPOPULATIONS AND INTERMEDIATE OUTCOME MEASURES IN COPD (SPIROMICS) STUDY

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 145 A-B (Middle Building, Street Level)

Target Audience

Those with clinical or research responsibilities;

Objectives

At the conclusion of this session, the participant will be able to:

- learn about imaging phenotyping of COPD;
- learn about molecular phenotyping of COPD;
- learn about clinical phenotyping of COPD.



SPIROMICS is an NHLBI-sponsored study that supports the prospective collection and analysis of phenotypic, biomarker, genetic, genomic, and clinical data from subjects with COPD for the purpose of identifying subpopulations and intermediate outcome measures. Participants in this session will learn about the progress of the SPIROMICS study, specifically the study design, and progress in general enrollment, genomics, biomarkers, and radiology.

Chairing: L. Postow, PhD, Bethesda, MD
R.G. Barr, MD, DrPH, New York, NY

12:15 Overview of SPIROMICS
R.G. Barr, MD, DrPH, New York, NY

12:20 Using Clinical Markers to Identify Subpopulations at Higher Risk for Poor Outcomes
C. Martinez, MD, MPH, Ann Arbor, MI

12:35 Defining COPD Disease Severity and Phenotype Through Sputum Mucin Concentration Analyses
M. Kesimer, PhD, Chapel Hill, NC

12:45 Clinical Implications of Airway Branch Patterns and Other Imaging Findings in SPIROMICS
B.M. Smith, MD, MS, New York, NY

1:00 Lung Microbiota Patterns and Immune Responses in COPD
Y.J. Huang, MD, Ann Arbor, MI

**NATIONAL HEART, LUNG, AND BLOOD INSTITUTE,
DIVISION OF LUNG DISEASES, NIH**

L7 ASTHMANET CLINICAL TRIAL RESULTS

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 147 A-B (Middle Building, Street Level)

Target Audience

Health care providers who manage patients with asthma (children and adults)

Objectives

At the conclusion of this session, the participant will be able to:

- understand the efficacy of high dose inhaled corticosteroids to prevent exacerbations in children who are in the "yellow zone" on their asthma action plan;
- gain understanding of the efficacy of high dose inhaled corticosteroids to reduce symptoms in children who are in the "yellow zone" on their asthma action plan;
- understand mechanisms that may contribute to the reduction in the response to long acting bronchodilators with chronic use in patients with asthma and a possible approach to management.

Results of two clinical trials conducted by the multi-site clinical trial network funded by NHLBI, AsthmaNet, will be presented. One of the studies, "Alendronate for Asthma" trial (ALFA), is a study in adults to assess if alendronate can restore the bronchoprotective effect which may be diminished with chronic use of long acting beta agonists. The other study, Step-Up Yellow Zone Inhaled Corticosteroids To Prevent Exacerbations (STICS), is a study of how to manage children with asthma when they get into the "yellow zone" on their asthma action plan in order to prevent severe exacerbations.

Chairing: W.W. Busse, MD, Madison, WI
M.M. Freemer, MD, MPH, Bethesda, MD

12:15 Does Alendronate Preserve LABA-Induced Bronchoprotection in Adults with Asthma?
J. Cardet, MD, Boston, MD

12:30 Does Yellow Zone Inhaled Corticosteroid Reduce Severe Asthma Exacerbations in Children?
D.J. Jackson, MD, Madison, WI

1:00 Panel Discussion

**NATIONAL HEART, LUNG, AND BLOOD INSTITUTE,
DIVISION OF LUNG DISEASES, NIH**

L8 LUNG DISEASE PROJECTS IN TRANS-OMICS FOR PRECISION MEDICINE (TOPMED) PROGRAM

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 152 A-B (Middle Building, Street Level)

Target Audience

Providers of lung health; those with clinical or research responsibilities; those needing instruction in areas of medicine outside of their specialty

Objectives

At the conclusion of this session, the participant will be able to:

- demonstrate the WGS efforts in precision medicine initiative and its potential as diagnostic tool and in discovery of therapeutic targets;
- discuss the impact of rare genetic variants in disease development;
- display the ways to perform big data analysis and relevant resources that will be available for the research community.

NHLBI's Trans-Omics for Precision Medicine (TOPMed) is part of the NIH's Precision Medicine Initiative and designed to generate scientific resources that will enhance our understanding of the fundamental biological processes underlying HLBS disorders. The TOPMed program will integrate -omics (e.g., genomic, proteomic, metabolomic) and phenotypic data in an effort to improve the prediction, prevention, diagnosis, and treatment of these disorders. In its first two years, TOPMed has done whole genome sequencing (WGS) for more than 70,000 DNA samples of many common diseases, including COPD, asthma, and sleep apnea. This session will present the initial results of these disease studies.

Chairing: S.S. Redline, MD, MPH, Boston, MA
W. Gan, PhD, Bethesda, MD

12:15 Initial Results from Whole Genome Sequence of Cleveland Family Study on CFS Sleep Apnea
S.S. Redline, MD, MPH, Boston, MA

12:30 Whole Genome Sequencing Analysis of Asthma Drug Response in Minority Children
E.G. Burchard, MD, MPH, San Francisco, CA

12:45 Initial Whole Genome Sequence Results for Asthma in a Costa Rican Population Isolate
S. Weiss, MD, Boston, MA

1:00 Whole Genome Sequencing of Severe Chronic Obstructive Pulmonary Disease
E.K. Silverman, MD, PhD, Boston, MA



NATIONAL HEART, LUNG, AND BLOOD INSTITUTE, DIVISION OF LUNG DISEASES, NIH

L9 MAPPING LUNG HEALTH AND DISEASE WITH THE MOLECULAR ATLAS OF LUNG DEVELOPMENT

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 146 C (Middle Building, Street Level)

Target Audience

Providers of lung health, medical fellows in training, and basic and clinical researchers interested in lung biology, developmental biology, chronic lung disease pathogenesis, pediatrics, bioinformatics, and systems biology

Objectives

At the conclusion of this session, the participant will be able to:

- learn the newest datasets of LungMAP that could inform lung research;
- learn the innovative technologies for molecular profiling, imaging, and data analysis of the developing lung;
- learn how to access and use the LungMAP resources.

Molecular Atlas of Lung Development (LungMAP) is an NHLBI-sponsored program. The overall goal of this program is to build an open-access reference resource by creating a comprehensive molecular atlas of the late-stage developing lung with data and reagents available to the research community. Speakers will show how the approach/systems biology/bioinformatics can be used to inform clinical medicine-discovery of biomarkers and processes in development that are recapitulated in disease/repair. The session will also elucidate how understanding alveolar cells and intracellular communication forms the lung and informs the processes altered in disease.

Chairing: S.M. Palmer, MD, MHS, Durham, NC
S. Lin, PhD, Bethesda, MD

12:15 Transcriptomic Analysis of Pulmonary Cell Lineages Using Single Cell RNAseq in Health and Disease

J.A. Whitsett, MD, Cincinnati, OH

12:30 Application of Advanced Proteomic, Lipidomic, and Metabolomics Technologies to Challenges in Lung Biology and Medicine

R. Corley, PhD, Richland, WA

12:45 Systems Biology to Integrate Non-Coding RNAs, DNA Methylation, and Epigenetics During Alveologenesis

N. Ambalavanan, MD, Birmingham, AL

1:00 Presenting, Visualizing, and Integrating LungMAP Omics Data

R.F. Clark, PhD, Research Triangle Park, NC

MEET THE PROFESSOR SEMINARS

CME Credits Available: 1

Registration Fee: \$70.00 (includes box lunch.)
Attendance is limited. Pre-registration is required.

12:15 p.m. - 1:15 p.m. MARRIOTT MARQUIS WASHINGTON

MP401 BIOMARKERS IN SEVERE ASTHMA

N. Hanania, MD, MS, Houston, TX

George Washington University (Level M1)

MP402 NEW FLEISCHNER SOCIETY GUIDELINES FOR PULMONARY NODULES

A.C. Mehta, MBBS, Cleveland, OH

Georgetown University (Level M1)

MP403 NEW INSIGHTS INTO CHRONIC ALLOGRAFT DYSFUNCTION AFTER LUNG TRANSPLANTATION: EMERGING PHENOTYPES AND TREATMENT PARADIGMS

J.L. Todd, MD, Durham, NC

A.R. Glanville, MBBS, MD, Sydney, Australia

Howard University (Level M1)

MP404 SCLERODERMA ASSOCIATED INTERSTITIAL LUNG DISEASE: ADVANCES IN MANAGEMENT

K.B. Highland, MD, Cleveland, OH

Gallaudet University (Level M1)

MP405 APPROACH TO THE TREATMENT OF BRONCHIECTASIS

G. Tino, MD, Philadelphia, PA

Catholic University (Level M1)

MP406 IMMUNOSUPPRESSION AND BEYOND: PRACTICAL STRATEGIES IN CONNECTIVE TISSUE DISEASE-ASSOCIATED INTERSTITIAL LUNG DISEASE

L.D. Morrison, MD, Durham, NC

University of DC (Level M1)

MP407 REAL-WORLD CHALLENGES IN THE DIAGNOSIS OF IPF

A.M. Nambiar, MD, San Antonio, TX

Marquis Salon 14 (Level M2)

MP408 CRITICAL CARE MANAGEMENT OF ACUTE ON CHRONIC LIVER FAILURE

R. Subramanian, MD, Atlanta, GA

Marquis Salon 13 (Level M2)

MP409 SARCOIDOSIS PRIMARY CARE

A. Berman, MD, Newark, NJ

Marquis Salon 12 (Level M2)

MP410 NEUROLOGICAL DISASTERS IN THE ICU

T.P. Bleck, MD, Chicago, IL

Union Station (Level M3)

MP411 HOW TO MANAGE PATIENTS WITH SEVERE COMMUNITY-ACQUIRED PNEUMONIA

C. Feldman, MD, PhD, Johannesburg, South Africa

Chinatown (Level M3)



MP412 PRACTICAL CONSIDERATIONS FOR PRAGMATIC TRIALS OF BEHAVIORAL INTERVENTIONS
H.Q. Nguyen, PhD, RN, Pasadena, CA
Mount Vernon Square (Level M3)

MP413 INTERPRETATION AND APPLICATION OF THE PEDIATRIC POLYSOMNOGRAM REPORT
S. Bhargava, MD, Palo Alto, CA
Judiciary Square (Level M3)

MP414 ROLE OF E-TECHNOLOGY, INCLUDING TELEREHABILITATION, IN THE MANAGEMENT OF CHRONIC LUNG DISEASE
M. Stickland, PhD, Edmonton, Canada
A.E. Holland, PhD, Melbourne, Australia
LeDroit Park (Level M3)

MP415 OBESE ASTHMA: UNDERSTANDING AND MANAGING A COMPLEX PROBLEM
G.S. Skloot, MD, New York, NY
Shaw (Level M3)

MP416 MULTIPLE BED PARTNERS AND OTHER SUCCESSFUL COLLABORATIONS
R.R. Grunstein, MBBS, MD, PhD, Glebe, Australia
Treasury (Level M4)

MEDICAL EDUCATION SEMINAR

CME Credits Available: 1

ME1 TEACHING WITH SIMULATION: PRACTICAL SOLUTIONS TO COMMON PROBLEMS

Registration Fee: \$70 (includes box lunch)
Attendance is limited. Pre-registration is required.

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 101 (South Building, Street Level)

Target Audience

Members of the multi-disciplinary health care team, including physicians, nurses, pharmacists, respiratory therapists and other medical educators who use simulation-based medical education (SBME) to teach important concepts, including interprofessional education (IPE) to train teams, procedural training and communication skills that are best taught by simulation modalities

Objectives

At the conclusion of this session, the participant will be able to:

- overcome barriers for implementing simulation at home institution;
- learn new methods of training through simulation.

Through case study examples, this session will provide practical guidance on specific ways the participant can best use simulation-based medical education (SBME) to address educational needs at their home institution. Participants will learn how each of the speakers use SBME to address specific common educational questions, such as strategies for debriefing interprofessional teams and delivering bad news to patients and families.

Speakers: N. Seam, MD, Bethesda, MD
N. Knudsen, MD, Durham, NC
J. Chiarchiaro, MD, MS, Pittsburgh, PA

THEMATIC SEMINAR SERIES

CME Credits Available: 1

TSS1 EVOLVING CONCEPTS IN EARLY COPD

Registration Fee: \$170 for full series (includes continental breakfast or box lunch)
Attendance is limited. Pre-registration is required.

This is a 4-part series. Those registering for this seminar series will be registered for all 4 parts. The topics and schedule for each part are listed below.

Sunday 12:15 p.m. - 1:15 p.m. MARRIOTT MARQUIS WASHINGTON
Monument (Level M4)

Preventing Lung Function Decline in Early COPD

P. Calverly, MBChB, Liverpool, United Kingdom

Monday 12:15 p.m. - 1:15 p.m. MARRIOTT MARQUIS WASHINGTON
Monument (Level M4)

The Symptomatic Smoker: The Need to Bring Back Gold 0

P.G. Woodruff, MD, MPH, San Francisco, CA

Tuesday 12:15 p.m. - 1:15 p.m. MARRIOTT MARQUIS WASHINGTON
Monument (Level M4)

Screening for COPD: Beyond the Current Guidelines

R.A. Wise, MD, Baltimore, MD

Wednesday 7:00 a.m. - 8:00 a.m. MARRIOTT MARQUIS WASHINGTON
Monument (Level M4)

Chronic Bronchitis Without Airflow Obstruction: Epidemiology, Phenotype, and Clinical Consequences

C. Martinez, MD, MPH, Ann Arbor, MI




ATS 2017

*Where today's science
meets tomorrow's care™*

International Conference

Washington, DC

Sunday Afternoon, May 21

1:15 p.m. - 2:15 p.m.

VISIT THE EXHIBIT HALL

Take this opportunity between sessions to visit the Exhibit Hall to gain practical knowledge to advance care and research. Exhibitors will be on hand to provide information on pharmaceutical products, medical equipment, publications and research services.

BEHAVIORAL • CLINICAL • TRANSLATIONAL

YEAR IN REVIEW

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

A81 NURSING YEAR IN REVIEW

Assemblies on Nursing; Behavioral Science and Health Services Research; Clinical Problems; Critical Care

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 102 A-B (South Building, Street Level)

Target Audience

Clinicians, researchers, registered nurses, and advanced practice nurses who care for individuals and their families who experience critical illness across the states of critical illness and long-term recovery

Objectives

At the conclusion of this session, the participant will be able to:

- describe current knowledge in symptom science, communication and decision making, ICU survivorship, oncology-critical care, implementation science and telehealth in critical care;
- identify current gaps in knowledge in the topic areas;
- identify future research directions and clinical practice initiatives targeted to advance symptom science, communication and decision making, ICU survivorship, oncology-critical care, implementation science and telehealth in critical care.

This session will review the current state of knowledge in critical care. Topic areas will include: (1) symptom science; (2) implementation science in critical care; (3)

communication and decision making; (4) critical care in persons with cancer; (5) intensive care unit survivorship; and (6) telehealth in critical care. Each speaker will review recent studies, discuss current gaps and highlight implications to clinical practice and future research.

Chairing: J. Choi, PhD, RN, Pittsburgh, PA
J.A. Tate, PhD, RN, Columbus, OH

2:15 Symptom Science the ICU Setting: Implications for Future Research

L.L. Chlan, PhD, RN, Rochester, MN

2:35 Implementation Science

D.K. Costa, PhD, RN, Ann Arbor, MI

2:55 End of Life Communication in the ICU

J.B. Seaman, PhD, RN, Pittsburgh, PA

3:15 Topics in Onco-Critical Care

J.A. Tate, PhD, RN, Columbus, OH

3:35 ICU Survivorship

J. Choi, PhD, RN, Pittsburgh, PA

3:55 Updates on the Use of Telemedicine in the ICU

R.M. Kleinpell, PhD, RN, Chicago, IL

CLINICAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

A82 IDIOPATHIC PULMONARY FIBROSIS: CONTROVERSIES IN MANAGEMENT - PRO/CON DEBATE

Assemblies on Clinical Problems; Allergy, Immunology and Inflammation; Behavioral Science and Health Services Research; Environmental, Occupational and Population Health; Nursing

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Ballroom A (South Building, Level 3)

Target Audience

Clinicians, registered nurses, advanced practice nurses, other allied health staff, researchers, investigators in basic and clinic science pertinent to interstitial lung disease, and sponsors for research

Objectives

At the conclusion of this session, the participant will be able to:

- discuss controversial topics in IPF diagnosis and management with patients when engaging in shared decision making about diagnosis and treatment;
- apply current treatment data to the diagnosis and management of patients with IPF;

Significant progress has been made in the management of idiopathic pulmonary fibrosis (IPF). While the 2011 and 2015 evidence based guidelines have empowered clinicians and patients to make informed decisions regarding diagnosis and treatment, significant controversies exists. The goal of this session is to surface controversies frequently encountered in routine clinical practice. The session will be in the format of four Pro/Con provocative debates between experts that will give attendees increased insight into the management of IPF.



Chairing: G. Raghu, MD, Seattle, WA

2:15 Introduction

G. Raghu, MD, Seattle, WA

2:20 PRO: Patients with IPF Should Be Treated for Gastroesophageal Reflux

Y. Ghebre, PhD, Houston, TX

2:34 CON: Patients with IPF Should Be Treated for Gastroesophageal Reflux

M. Kreuter, MD, Heidelberg, Germany

2:48 PRO: Surgical Lung Biopsy Is Required to Eliminate Other Diagnoses Before Making a Diagnosis of IPF

G. Raghu, MD, Seattle, WA

3:02 CON: Surgical Lung Biopsy Is Required to Eliminate Other Diagnoses Before Making a Diagnosis of IPF

Y. Inoue, MD, PhD, Osaka, Japan

3:16 PRO: Multidisciplinary Discussion Is Necessary in Ascertaining a Diagnosis of IPF

S.K. Danoff, MD, PhD, Baltimore, MD

3:30 CON: Multidisciplinary Discussion Is Necessary in Ascertaining a Diagnosis of IPF

A.U. Wells, MD, London, United Kingdom

3:44 PRO: N-Acetylcysteine Is Useful for Some Patients with IPF

F.J. Martinez, MD, New York, NY

3:58 CON: N-Acetylcysteine Is Useful for Some Patients with IPF

J. Behr, MD, Munich, Germany

multidisciplinary approach to difficult cases. The audience will participate through interactive questions that are tallied electronically. Additional discussion by presenters and master panelists will enhance the educational experience.

Chairing: S.P. Kantrow, MD, New Orleans, LA
S. Kirtland, MD, Seattle, WA

2:15 Case Presentations

She Who Sings Frightens Away Her Ills

J. Nguyen, MD, Sylmar, CA

The Naked Trachea

U. Chaddha, MBBS, MD, Los Angeles, CA

Mysterious Masses

B. Tran, MD, Baltimore, MD

There's Nothing Cute About this Chest Syndrome

M.J. Bruehl, MD, Chapel Hill, NC

A Nagging Pimple

H. Kular, MD, Houston, TX

When a Bird Is a Herring: Guilt by Association

K.S. Sai Kakkerla, MBBS, Little Rock, AR

Zebras Have Hooves Too

P. Charoenpong, MD, Brooklyn, NY

3:25 Experts

Master Clinicians

S.I.S. Rounds, MD, Providence, RI

M.I. Schwarz, MD, Aurora, CO

P.C. Stillwell, MD, Aurora, CO

Master Radiologist

A.G. Wilcox, MD, Los Angeles, CA

Master Pathologist

J.L. Myers, MD, Ann Arbor, MI

CLINICAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

A83 GREAT CASES: CLINICAL, RADIOLOGIC, AND PATHOLOGIC CORRELATIONS BY MASTER PHYSICIANS

Council of Chapter Representatives

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Ballroom C (South Building, Level 3)

Target Audience

Clinicians in the fields of pulmonary and critical care medicine, pediatric pulmonology, sleep medicine, thoracic surgery, and infectious disease

Objectives

At the conclusion of this session, the participant will be able to:

- integrate the clinical presentation, radiologic and pathologic findings for seven challenging cases;
- understand the clinical reasoning used to determine differential diagnosis by Master clinicians using a multidisciplinary approach;
- describe the associated pathology and radiology of the cases.

Learners will have the opportunity to observe master clinicians approach challenging clinical problems by working through 7 unknown cases selected from the abstract pool. Collaboration with a master radiologist reviewing the films and a master pathologist reviewing pathology slides will demonstrate the

BASIC • CLINICAL

CRITICAL CARE TRACK

CME Credits Available: 2

A84 THE NEW ENGLAND JOURNAL OF MEDICINE AND JAMA. DISCUSSION ON THE EDGE: REPORTS OF RECENTLY PUBLISHED CRITICAL CARE RESEARCH

This session will provide a forum for attendees to interact with the authors and editors about papers published in the New England Journal of Medicine and JAMA. Papers presented will be recent publications, selected by the editors, to be of significant importance to the field of critical care medicine. Attendees will have the opportunity to hear presentations directly from the author and address questions to both the authors and editors. The discussion is intended to provide a unique insight into these papers, the selection process, and how the research applies directly to the field of critical care medicine.

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 207 A-B (South Building, Level 2)

Chairing: J.M. Drazen, MD, Editor-in-Chief, New England Journal of Medicine
P.B. Fontanarosa, MD, MBA, Executive Editor, JAMA

Speakers And Talks To Be Announced



BASIC • CLINICAL • TRANSLATIONAL

BASIC SCIENCE CORE

CME Credits Available: 2

A85 THE EXPOSOME CONCEPT: UNDERSTANDING IMPACT ON LUNG HEALTH AND DISEASE

Assemblies on Allergy, Immunology and Inflammation; Respiratory Cell and Molecular Biology; Respiratory Structure and Function

2:15 p.m. - 4:15 p.m.

MARRIOTT MARQUIS WASHINGTON

Independence Ballroom E-H (Level M4)

Target Audience

Those conducting translational research; those conducting basic or discovery research; those conducting clinical research; research and clinical fellows; graduate students; providers of lung health

Objectives

At the conclusion of this session, the participant will be able to:

- describe the exposome concept as it relates to the risk and pathogenesis of chronic disease;
- learn new findings about the potential to apply 'omics technologies to monitor exposures and associated biological responses related to a spectrum of adult and childhood lung diseases;
- consider the potential of developing biomarkers for lung disease prevention and treatment based on monitoring the exposome.

The term "exposome" refers to the totality of exposures individuals experience from conception until death and its impact on risk of chronic diseases. Exposures can include toxicants in the environment, diet, lifestyle choices and socioeconomic status. People have unique genetic, epigenetic, health status, and physiological characteristics that can change in response to prior exposures, and make them more or less susceptible to stressors in their environment. This session will outline the exposome concept and highlight current research that is examining a breadth of biological, chemical and environmental influences that contribute to development, susceptibility and presentation of lung disease.

Chairing: C. Carlsen, MD, MPH, Vancouver, Canada
J.E. Bourke, PhD, Clayton, Australia

- 2:15 The Exposome Concept: Discovering Causes of Chronic Disease**
S.M. Rappaport, PhD, Berkeley, CA
- 2:42 Multiomics Analysis of Diesel Exhaust and Allergen Exposure in Asthma: Understanding Molecular Circuits in Adaptation and Disease**
N. Mookherjee, PhD, Winnipeg, Canada
- 3:05 Lipid Mediator Metabolic Profiling Discriminates Heterogeneous Responses to Environment in Chronic Lung Disease**
C.E. Wheelock, PhD, Stockholm, Sweden
- 3:28 Outdoor Air Pollution and Environmental Mitochondriomics Program Respiratory Health in Childhood**
R. Wright, MD, MPH, New York, NY
- 3:52 The Inhaled Environmental Toxin Transcriptome: Early Detection and Prevention Tools for Lung Cancer**
A. Spira, MD, Boston, MA

CLINICAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

MOC Credits Available: 2

A86 THE SLEEP STATE OF THE UNION: TAKING OSA MANAGEMENT TO WASHINGTON

Assemblies on Sleep and Respiratory Neurobiology; Environmental, Occupational and Population Health; Pediatrics

2:15 p.m. - 4:15 p.m.

WALTER E. WASHINGTON CONVENTION CENTER

Room 152 A-B (Middle Building, Street Level)

Target Audience

Pulmonologists, pediatricians, respiratory therapists, nurse practitioners, sleep medicine research scientists, epidemiologists, public health providers and health services researchers.

Objectives

At the conclusion of this session, the participant will be able to:

- identify current policies in place that pertain to decisions regarding diagnosis and treatment of OSA and discuss their effectiveness in clinical practice;
- discover areas in which an absence of policy amounts to significant heterogeneity in clinical practice but also inconsistencies in physician/hospital billing practices of OSA;
- engage and possibly participate in a call for action in which organizations such as the ATS will need to lobby government to enhance the diagnosis and management of OSA and deal with the burden of untreated OSA.

Obstructive Sleep Apnea (OSA) is highly prevalent with many recent advances evolving the practice of Sleep Medicine. This symposium will critically examine the current approved and unapproved methods for OSA diagnosis and current criteria used to define treatment efficacy. In addition, the societal repercussions of undiagnosed or untreated OSA will also be discussed with attention placed to the hazard of OSA on driving and work safety and a call for policy change. In all proposed presentations, speakers will emphasize current existing policies or lack thereof, discussing how these play as obstacles to meaningful clinical practice in the care of patients with OSA.

Chairing: R. Bhattacharjee, MD, San Diego, CA
J.L. Pepin, MD, PhD, Grenoble, France
M.J. Morrell, PhD, London, United Kingdom

- 2:15 General Discussion: Current State of OSA, Implications of OSA on Individuals, on Society, on Government**
R.J. Kimoff, MD, Montreal, Canada
- 2:30 What's in a Number? How Diagnosis of OSA Is Determined by a 4 or a 3**
N.M. Punjabi, MD, PhD, Baltimore, MD
- 2:50 Diagnosing Pediatric OSA: Is Home Testing Plausible?**
C. Marcus, MBChB, Philadelphia, PA
- 3:10 Inpatients with Possible OSA: Should, Can, and How Do We Study Them in Hospital?**
B. Prasad, MD, Chicago, IL



- 3:25 OSA Is a Work and Driving Hazard: Should Untreated OSA Lead to License or Work Suspensions?**
A. Pack, MBChB, PhD, Philadelphia, PA
- 3:50 Treating OSA With Positive Airway Pressure. Is 4 Hours, 70%, 30 Days Realistic?**
T.E. Weaver, PhD, RN, Chicago, IL

BASIC • TRANSLATIONAL**SCIENTIFIC SYMPOSIUM**

CME Credits Available: 2

A87 ATS MYTHBUSTERS: ONE OME TO RULE THEM ALL: WE WILL FIND A COMMON PRIME MOVER FOR PULMONARY FIBROSIS

Assemblies on Respiratory Cell and Molecular Biology; Allergy, Immunology and Inflammation; Respiratory Structure and Function

2:15 p.m. - 4:15 p.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 5 (Level M2)

Target Audience

Clinicians with interest in mechanism of disease, basic scientists, postdocs, fellows and PhD/ MSc students

Objectives

At the conclusion of this session, the participant will be able to:

- understand the complexity of pathogenesis of lung injury and repair;
- learn about “omics” and how they are relevant to chronic fibrotic lung diseases.

This is a new session in the very successful series of ATS Mythbusters, in which leading researchers give talks relevant to a controversial hypothesis, after which expert “mythbusters” discuss its validity, and audience members ultimately vote on whether the myth has been accepted or busted. In this provocative session, the hypothesis to be examined is that as we learn more about fibrogenesis, a common prime mover will emerge as the driving force in most cases of pulmonary fibrosis. Speakers will present evidence supporting the proposition that abnormalities in the “OMICS” or “OMES” that they discuss are driving the abnormal tissue injury and repair seen in fibrotic lung disease, especially IPF. The candidate OMEs proposed to be the main culprit in fibrosis will be the transcriptome, the genome, the proteome, the microbiome or the metabolome. The session will debate whether abnormalities in one of these OMEs “rules them all” in pulmonary fibrosis.

Chairing: M.R.J. Kolb, MD, PhD, Hamilton, Canada
A.M. Tager, MD, Charlestown, MA
R.G. Jenkins, MD, PhD, Nottingham, United Kingdom

- 2:15 Introduction**
M.R.J. Kolb, MD, PhD, Hamilton, Canada
- 2:21 The Genome Drives Injury and Fibrosis in the Lung**
T.E. Fingerlin, PhD, Denver, CO
- 2:35 The Transcriptome Drives Injury and Fibrosis in the Lung**
D. Kass, MD, Pittsburgh, PA
- 2:49 The Proteome Drives Injury and Fibrosis in the Lung**
O. Eickelberg, MD, Munich, Germany
- 3:03 The Metabolome Drives Injury and Fibrosis in the Lung**
P.J. Sime, MD, Rochester, NY
Parker B. Francis Speaker

- 3:17 The Microbiome Drives Injury and Fibrosis in the Lung**
T.M. Maher, MD, MSc, PhD, London, United Kingdom
- 3:31 The Mechanome Drives Injury and Fibrosis in the Lung**
D.J. Tschumperlin, PhD, Rochester, MN
- 3:45 Mythbuster 1**
I. Petrache, MD, Denver, CO
- 3:51 Mythbuster 2**
N. Kaminski, MD, New Haven, CT
- 3:57 Mythbuster 3**
E.S. White, MD, MS, Ann Arbor, MI

BASIC • CLINICAL • TRANSLATIONAL**SCIENTIFIC SYMPOSIUM**

CME Credits Available: 2

MOC Points Available: 2

A88 SEX, SUGAR, SALT AND STRESS: NEUROHORMONAL SIGNALING AS A NOVEL THERAPEUTIC TARGET IN RIGHT VENTRICULAR FAILURE

Assemblies on Pulmonary Circulation; Critical Care; Respiratory Cell and Molecular Biology

2:15 p.m. - 4:15 p.m.

MARRIOTT MARQUIS WASHINGTON

Liberty Ballroom I-L (Level M4)

Target Audience

Basic, translational and clinical researchers interested in right ventricular function in health and disease. Clinicians (especially internists, pulmonologists/intensivists, and cardiologists) interested in RV and LV function as well as in RV-directed therapies in pulmonary vascular diseases. Nurses and respiratory therapists interested in pulmonary vascular disease and RV function

Objectives

At the conclusion of this session, the participant will be able to:

- learn new findings about common modifiers of hormonal signaling in cardiovascular diseases;
- understand how sex steroids, glucose and fatty acid metabolism, the renin-angiotensin-aldosterone system and the catecholaminergic system regulate RV function in health and disease;
- identify novel strategies to target hormone signaling in clinical trials.

This session will focus on the role of neurohormonal signaling in modifying right ventricular (RV) function in pulmonary hypertension (PH). While it has long been known that hormones affect left ventricular function, recent data identified neurohormonal signaling as a major modifier of RV function. However, the exact mechanisms of how sex steroids, insulin, the renin-angiotensin-aldosterone system and the catecholaminergic system affect RV function are only incompletely understood. In addition, optimal strategies for harnessing these pathways therapeutically are still unknown. This multidisciplinary session will address these knowledge gaps by providing novel evidence indicating how hormones affect cardiomyocyte function and by discussing novel results from phase I and II clinical trials.



- Chairing:** T. Lahm, MD, Indianapolis, IN
C.E. Ventetulo, MD, MS, Providence, RI
F. De Man, PhD, Amsterdam, Netherlands
- 2:15 Hormones 101: What Do Physicians Need to Know When Studying Hormones and Hormonal Signaling?**
H. Nakshatri, PhD, Indianapolis, IN
- 2:35 Sex in the Heart: Sex Hormones as Modifiers of RV Function**
T. Lahm, MD, Indianapolis, IN
- 2:55 Hungry Heart: How Do Insulin Resistance and Altered Fatty Acid Oxidation Affect RV Function?**
A.R. Hemnes, MD, Nashville, TN
- 3:15 Salt Water in My Veins Part 1: The Role of the Renin-Angiotensin System in RV Failure**
F. De Man, PhD, Amsterdam, Netherlands
- 3:35 Salt Water in My Veins Part 2: The Role of Aldosterone in Mediating RV Stress**
J. Leopold, MD, Boston, MA
- 3:55 Pure Adrenaline: Is There a Role for Targeting the Sympathetic Nervous System in RV Failure?**
H.J. Bogaard, MD, PhD, Amsterdam, Netherlands

BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

A89 SMOLDERING TB: EXPLORING THE FULL SPECTRUM OF INFECTION WITH MTB

Assemblies on Microbiology, Tuberculosis and Pulmonary Infections;
Clinical Problems; Pediatrics

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

East Salon A-C (South Building, Street Level)

Target Audience

All audiences ranging from those who provide clinical care to those with infection with Mtb (both LTBI and TB disease), to those with an interest in the host/pathogen interaction, to those with a broader interest in other disease that are often termed latent

Objectives

At the conclusion of this session, the participant will be able to:

- learn about new findings in the underlying pathophysiology and immunology of "smoldering" TB;
- develop an improved understanding of those factors associated with a high risk of developing TB once infected.

Infection with *Mycobacterium tuberculosis* (Mtb) is often categorized as either "active" or "latent". However, it is increasingly clear that infection with Mtb results in a much broader range of clinically relevant outcomes. Understanding the molecular and immunologic basis of this spectrum of infection is clinically relevant, as identifying those at risk for progression to disease following infection has the potential to facilitate the eradication of TB worldwide.

Chairing: P. LoBue, MD, Atlanta, GA
D.M. Lewinsohn, MD, PhD, Portland, OR

- 2:15 The Epidemiology of Subclinical TB**
C.R. Horsburgh, MD, Boston, MA
- 2:35 PET/CT: A Window Into Incipient TB**
R. Wilkinson, PhD, Cape Town, South Africa
- 2:55 Predicting TB Progression**
D. Zak, PhD, Seattle, WA
- 3:15 Clearance of Mtb Following Infection**
E. Nardell, MD, Boston, MA
- 3:35 Animal Modeling**
P. Lin, MD, Pittsburgh, PA
- 3:55 Can Infection with Mtb Be Prevented?**
D.M. Lewinsohn, MD, PhD, Portland, OR

There will be a 5-minute discussion after each talk.

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

A90 MAKING NEW LINKS: MECHANISMS OF ORGAN FAILURE IN SEPSIS AND ARDS

Assemblies on Critical Care; Allergy, Immunology and Inflammation;
Respiratory Cell and Molecular Biology; Respiratory Structure and Function

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 146 A-B (Middle Building, Street Level)

Target Audience

Pulmonary and critical care researchers, clinicians, and trainees interested in advances in understanding the pathophysiology and pathogenesis of organ failure in sepsis

Objectives

At the conclusion of this session, the participant will be able to:

- solve the problem of gap of knowledge;
- contextualize new knowledge;
- interpret and evaluate quality of new knowledge.

This session will review seminal concepts in sepsis-induced organ failure as well as present novel and cutting edge research in the field. The aim is to translate cutting-edge advancements in epigenetics, molecular physiology and functional genomics of organ failure in the septic patient to a broad clinical and translational audience. In addition the session will engage/stimulate enhanced understanding of the leading concepts regarding the relative contributions of epigenetics, over-inflammation, immunosuppression/immunoexhaustion, the microcirculation, the microbiome, epithelium and endothelium as critical target(s) of organ failure that ultimately determine (lung, kidney, liver, heart, muscle, gut and brain) dysfunction and clinical outcomes in the critically ill.

Chairing: C.C. Dos Santos, MD, Toronto, Canada
I.S. Douglas, MD, Denver, CO
J. Marshall, MD, Toronto, Canada



- 2:15 The Genomic Response to Sepsis**
T. van der Poll, PhD, Amsterdam, Netherlands
- 2:35 Metabolic Adaptation Establishes Disease Tolerance to Sepsis**
M. Soares, PhD, Oeiras, Portugal
- 2:55 Potato or Potahto: Immune Exhaustion Vs. Innate Immune Suppression**
D. Remick, MD, Boston, MA
- 3:15 Poking the Cyclops in the Eye! Disruption in Immune Surveillance and Outcomes from Sepsis**
P. Kubes, PhD, Calgary, Canada
- 3:35 Microbial Surveillance and Pulmonary Microbiome**
I.S. Douglas, MD, Denver, CO
- 3:55 Contextualizing Sepsis Research: Where Are the Translational Signals Pointing To?**
J. Marshall, MD, Toronto, Canada

There will be a 5-minute discussion after each talk.

BASIC • CLINICAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

A91 CATCHING FIRE: THE GLOBAL HEALTH ISSUE OF HOUSEHOLD AIR POLLUTION

Assemblies on Environmental, Occupational and Population Health; Allergy, Immunology and Inflammation; Respiratory Cell and Molecular Biology; Clinical Problems; Microbiology, Tuberculosis and Pulmonary Infections; Pediatrics; Respiratory Structure and Function

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 145 A-B (Middle Building, Street Level)

Target Audience

Basic and clinical scientists, clinicians, public health officials, students, post-doctoral trainees with an interest in global environmental health, health disparities, exposure assessment, household air pollution, and toxicological mechanisms of biomass smoke inhalation

Objectives

At the conclusion of this session, the participant will be able to:

- gain knowledge about the current data on the global health effects of exposure to household air pollution and strategies designed to reduce HAP-induced diseases;
- understand experimental methods that can be used to investigate the impact of the inhalation of HAP;
- understand the socioeconomic and cultural factors that contribute to the health disparity issue of HAP.

Household air pollution (HAP) arises from the indoor burning of biomass such as wood, animal dung, and crop residues or coal for cooking and heating, resulting in high levels of particulate matter, carbon monoxide, volatile organic compounds, and other pollutants within the home. These have deleterious effects on lung health, including lung growth during childhood, respiratory infections, asthma, COPD, and lung cancer. This is a global health problem, particularly in developing countries but is also relevant to economically deprived areas of high income

countries. This session will provide information about the respiratory health effects of exposure to biomass smoke. The talks will discuss epidemiological, experimental (cellular and molecular pathways), and risk-mitigation evidence related to the toxicological effects of household air pollution. Policy makers need to be made aware of the effects of household air pollutants.

Chairing: P.J. Sime, MD, Rochester, NY
G.P. Downey, MD, Denver, CO
N. Lugogo, MD, Durham, NC
P.J. Barnes, MD, DSc, London, United Kingdom
R. Vlahos, PhD, Bundoora, Australia

- 2:15 Household Air Pollution: A Call to Action**
A. Lee, MD, MS, New York, NY
- 2:25 Inflammatory Lung Diseases in Vulnerable Populations Exposed to HAP**
S. Salvi, MD, PhD, Pune, India
- 2:40 Household Air Pollution Exposure Occurs in Developed Countries As Well!**
A. Sood, MD, MPH, Albuquerque, NM
- 2:55 Studying Biologic Mechanisms of HAP-Induced Diseases**
C.E. McCarthy, MS, Rochester, NY
- 3:15 The Role of Biomass Smoke in Respiratory Infections**
S. Gordon, MD, Blantyre, Malawi
- 3:35 Translational Approaches to Understand the Effects of Biomass Smoke**
I. Jaspers, PhD, Chapel Hill, NC
- 3:55 Does Exposure to Household Air Pollution Increase Cardiovascular Morbidity and Mortality?**
J.R. Balmes, MD, San Francisco, CA

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

A92 IT'S NOT DOROTHY ANDERSEN'S CF ANYMORE

International Conference Committee Chair's Symposium

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Ballroom B (South Building, Level 3)

Target Audience

Individuals involved in the care of people with cystic fibrosis, including those involved in basic, translational and clinical investigations of CF and others with primary interests in related diseases; individuals interested in lung biology and disease

Objectives

At the conclusion of this session, the participant will be able to:

- understand and describe the latest information about CF pathogenesis, animal and laboratory models, and the evolution of CF lung disease in infants and young children;
- improve caregiver understanding of current CF therapies (including both efficacy and side effects) and the rapidly evolving therapeutic pipeline, which will enable better integration when discussing treatment options with patients, families and loved ones



- understand the complex future landscape directed at helping all individuals with CF, targeting both the mutation- and therapy-specific cause, as well as agents for symptomatic improvement that are agnostic to CFTR genotype.

This symposium features an inspiring patient perspective and the latest scientific, clinical, and translational information about CF. State of the art presentations focus on mechanisms leading to mucociliary dysfunction and lessons learned about disease pathogenesis from animal models. Leading edge investigations of early CF lung disease during infancy in those identified by neonatal screening are highlighted. The drug discovery pipeline and development of agents targeting both the underlying cause and therapeutics used for symptomatic improvement are illuminated. The session concludes with a presentation on clinical research challenges and future directions aimed at helping all children and adults with CF.

Chairing: S.D. Davis, MD, Indianapolis, IN
S.H. Randell, PhD, Chapel Hill, NC

- 2:15 Introduction**
S.D. Davis, MD, Indianapolis, IN
- 2:20 A Patient's Perspective**
E. Kramer-Golinkoff, Bala Cynwyd, PA
- 2:35 The Mucus Biophysical Maelstrom at the Airway Surface**
R.C. Boucher, MD, Chapel Hill, NC
- 2:55 Lessons Learned from the CF Noah's Ark**
D.A. Stoltz, MD, PhD, Iowa City, IA
- 3:15 CF in the Lungs' Most Formative Years**
S. Stick, MBBS, Perth, Australia
- 3:35 CFTR Modulators and the Pipeline**
B.W. Ramsey, MD, Seattle, WA
- 3:55 The Future of CF Therapeutics: Emerging Challenges and How We Will Address Them**
M.P. Boyle, MD, Baltimore, MD

This session and the International Conference are supported by an educational grant from Vertex Pharmaceuticals, Inc.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

MINI SYMPOSIUM

A93 ROLE OF ADAPTIVE IMMUNITY IN LUNG DISEASE

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 204 A-C (South Building, Level 2)

Chairing: R.A. Shilling, MD, Chicago, IL
A. Shum, MD, San Francisco, CA
B.D. Medoff, MD, Boston, MA

Oral Presentations

- 2:15 Stratification of Idiopathic Pulmonary Fibrosis Survival by ICOS and CD28 Surface Expression on T Cells/C. Bonham, C.L. Hrusch, S. Manns, A. Adegunsoye, K. Blaine, M.R. Jaffery, R. Vij, M.M. Churpek, M.E. Strek, I. Noth, A.I. Sperling, Chicago, IL, p.A2624**

- 2:30 Importance of PD-1 Axis in Anti-Influenza CD8 T Cell Response/K. Patel, M. Ali, K. Pauken, P. Odorizzi, E.J. Wherry, Philadelphia, PA, p.A2625**
- 2:45 Multi-Parameter Mass Cytometry Analysis of Lung CD4⁺ T Cells in Sarcoidosis Identifies Diverse Immune Pathways in Lofgren's Syndrome and Non-LS/Y. Kaiser, T. Lakshmikanth, Y. Chen, J. Mikes, S. Kullberg, A. Eklund, P. Brodin, A. Achour, J. Grunewald, Stockholm, Sweden, p.A2626**
- 3:00 Lung Resident Memory CD4⁺ T Cells Accelerate Epithelial-Driven Neutrophil Recruitment in the Lungs/G.A. Wasserman, N.M.S. Smith, E.A. Lipsitz, M.R. Jones, L.J. Quinton, J.P. Mizgerd, Boston, MA, p.A2627**
- 3:15 Type 2 Cytotoxic T Lymphocytes in Patients with Severe Eosinophilic Asthma/L. Xue, B. Hilvering, T. Hinks, L. Stoeger, R. Shrimanker, S. Go, C. Borg, C. Connolly, S.J. Thulborn, I. Pavord, Oxford, United Kingdom, p.A2628**
- 3:30 Active Smoking Is Associated with Decreased CD4⁺ T Cells in Bronchoalveolar Lavage: SPIROMICS Immunophenotyping Sub-Study/H. Mok, C.M. Freeman, C.H. Martinez, V.R. Stolberg, N.E. Alexis, R.G. Barr, E.R. Bleecker, R.P. Bowler, E.E. Carretta, S.A. Christenson, C.B. Cooper, D.J. Couper, C.M. Doerschuk, M.K. Han, N.N. Hansel, A.T. Hastie, E.A. Hoffman, R.J. Kaner, F.J. Martinez, D.A. Meyers, W.K. O'Neal, R. Paine, N. Putcha, S.I. Rennard, P.G. Woodruff, J.L. Curtis, Ann Arbor, MI, p.A2629**
- 3:45 The Protective Role of $\gamma\delta$ T Cells in Neonatal Influenza/X. Guo, P. Dash, P. Thomas, Memphis, TN, p.A2630**
- 4:00 Dysregulated Expression of B-Cell Genes Is Associated with Idiopathic Pulmonary Fibrosis Severity and Lung Fibrosis Susceptibility in Mice/Q. Li, A. Shakya, A. Tzouveleakis, G. Yu, Z. Chen, M. Vulkmirovic, F. Angari, B. Juan Guardela, E. Pacheco, R.J. Homer, N. Kaminski, D. Tantin, J.D. Herazo-Maya, New Haven, CT, p.A2631**

MINI SYMPOSIUM

A94 IMPROVING ASTHMA MANAGEMENT: RESEARCH AT THE FOREFRONT

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 202 B (South Building, Level 2)

Chairing: K.A. Riekert, PhD, Baltimore, MD
M.N. Eakin, PhD, Baltimore, MD
J.K. Gerald, MD, PhD, Tucson, AZ

Oral Presentations

- 2:15 Impact of Exacerbations on Lung Function in Patients with Asthma/J.P. Wisnivesky, E. Goodman, E. West, N. Amin, V. Joish, S. Villeneuve, L. Eckert, A. Teper, A. Khan, New York, NY, p.A2632**
- 2:30 Racial Discrimination Affects Drug Response in African American Youth with Asthma/N. Thakur, S. Carlson, L.N. Borrell, S.S. Oh, C. Eng, A. Davis, K. Meade, H.J. Farber, E. Brigino-Buenaventura, S. Thyne, S. Sen, M.A. LeNoir, N. Burke-Harris, E.G. Burchard, San Francisco, CA, p.A2633**



- 2:45 Supervised Asthma Medicine in Schools: The SAMS Study/J.K. Gerald, M.A. Brown, D. Billheimer, J. Fisher, C. Clemens, M. Moore, S. Carvajal, D. Bryson, N. Stefan, L.B. Gerald, Tucson, AZ, p.A2634**
- 3:00 Does Cross-Cultural Communications Training for Physicians Improve Pediatric Asthma Outcomes?/M.R. Patel, J.-M. Bruzzese, P.X. Song, D. Evans, W. Hao, M. Pinkett-Heller, L. Thomas, K. Meyerson, R. Brown, Ann Arbor, MI, p.A2635**
- 3:15 Culturally and Contextually Tailored Asthma Self-Management for Urban, Latino Middle School Students: The Rhode Island-Puerto Rico ASMAS Program/D. Koinis Mitchell, E.L. McQuaid, G.K. Fritz, S.J. Kopel, R. Seifer, C.A. Esteban, J.-M. Bruzzese, L. Chavez, G. Canino, Providence, RI, p.A2636**
- 3:30 A Randomized Controlled Trial of a Text Messaging Based Intervention Versus a Written Action Plan in Asthma Management: Results from a Feasibility Study/I. Poureslami, J. Shum, N. Gorin, S. Bayat, R.T. Lester, D. Dorscheid, J. Jangalee, S. Attridge, J.M. Fitzgerald, Vancouver, Canada, p.A2637**
- 3:45 Asthma Self-Management Education with Either Regular Healthcare Professional Review or Written Action Plan or Both in Adults: A Cochrane Review/H. Jayasinghe, K. Carson, T.J. Schultz, C. Barton, A.A. Ahad Ali, J. Tan, H. Walters, B. Smith, Woodville South, Australia, p.A2638**
- 4:00 Impact of Reslizumab on Healthcare Resource Utilization in Adult Patients with Severe Eosinophilic Asthma/M. Wechsler, S. Korn, S.X. Sun, M. Garin, Denver, CO, p.A2639**

MINI SYMPOSIUM

A95 ACUTE PNEUMONIA: CLINICAL STUDIES

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
West Salon G-I (South Building, Street Level)

Chairing: G.W. Waterer, MBBS, PhD, MBA, Perth, Australia
J.E. Chastre, MD, Paris, France
O. Sibila, MD, PhD, Barcelona, Spain

Oral Presentations

- 2:15 Efficacy of Lateral-Trendelenburg Vs. Semirecumbent Body Position for the Prevention of Ventilator-Associated Pneumonia - The Gravity-VAP Trial/G. Li Bassi, M. Panigada, O.T. Ranzani, T. Kolobow, A. Zanella, M. Cressoni, L. Berra, V. Parrini, H. Kandil, G. Salati, S. Livigni, A. Amatu, M. Girardis, M. Barbagallo, G. Moise, G. Mercurio, A. Costa, A. Vezzani, S. Lindau, J. Babel, M. Cavana, A. Torres, Barcelona, Spain, p.A2640**
- 2:30 Inflammation Biomarkers in Blood as Mortality Predictors in Community-Acquired Pneumonia Admitted Patients: Importance of Neutrophil Count Percentage and Neutrophil-Lymphocyte Ratio/J. Aspa Marco, J. Curbelo, S. Luquero-Bueno, J.M. Galvan Roman, M. Ortega, G. Fernandez-Jimenez, O. Rajas, L. Vega-Piris, F. Rodriguez-Salvanes, B. Arnalich, A. Diez, R. Costa, H. De La Fuente, A. Lancho-Sanchez, C. Suarez, J. Ancochea, Madrid, Spain, p.A2641**

- 2:45 Predicting Pneumonia: A Prospective Observational Study of the Risk Factors for Hospital-Acquired and Ventilator-Associated Bacterial Pneumonia/S.P. Bergin, A. Coles, J. Farley, J. Santiago, S. Calvert, V.G. Fowler, T.L. Holland, Durham, NC, p.A2642**
- 3:00 Protective Activity of MEDI3902 for the Prevention or Treatment of Lethal Pneumonia and Bloodstream Infection Caused by Pseudomonas Aeruginosa in Rabbits/A. DiGiandomenico, H. Le, M.G. Pinheiro, V.T.M. Le, F. Aguiar-Alves, J. Quetz, V.G. Tran, C.K. Stover, B. Diep, Gaithersburg, MD, p.A2643**
- 3:15 Clinical Predictors of Antibiotic Failure in Adult Outpatients with Community-Acquired Pneumonia/J. McKinnell, P. Classi, P. Blumberg, S. Murty, G. Tillotson, Los Angeles, CA, p.A2644**
- 3:30 Precision Surveillance for Emerging Viral Pathogens: Novel Virome Capture and High-Throughput Sequencing for the Detection and Molecular Characterization of Severe Acute Respiratory Infection in Uganda/M.J. Cummings, R. Tokarz, B. Bakamutumaho, J. Kayiwa, T. Byaruhanga, N. Owor, B. Namagambo, A. Wolf, J.F. Wamala, J.J. Lutwama, I. Lipkin, M. O'Donnell, New York, NY, p.A2645**
- 3:45 Sepsis-3 in Community-Acquired Pneumonia: A Clinical Decision-Making Study/O.T. Ranzani, E. Prina, R. Menendez, A. Ceccato, C. Cilloniz, R. Mendez, A. Gabarrus, E. Barbata, G. Li Bassi, M. Ferrer, A. Torres, Barcelona, Spain, p.A2646**

Featured Speaker

- 4:00 Pneumonia Diagnosis and Therapy: Where Will We Be in 5 Years?/M.S. Niederman, MD, New York, NY**

MINI SYMPOSIUM

A96 BEST OF PEDIATRICS

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 202 A (South Building, Level 2)

Chairing: A.C. Koumbourlis, MD, MPH, Washington, DC
P.E. Moore, MD, Nashville, TN

Oral Presentations

- 2:15 Genetic Ancestry Modifies Risk of Asthma Following Early-Life Chest Illness/S.S. Oh, M.A. Seibold, J.R. Rodriguez-Santana, N. Thakur, C. Eng, S. Sen, R. Kumar, P.C. Avila, L.N. Borrell, H.J. Farber, A. Davis, D. Serebrisky, E. Brigino-Buenaventura, F. Lurmann, J.G. Ford, K. Meade, M.A. LeNoir, W. Rodriguez-Cintrón, S. Thyne, E.G. Burchard, San Francisco, CA, p.A2647**
- 2:30 AVXS-101 Phase 1 Gene Therapy Clinical Trial in SMA Type 1: Interim Data Demonstrates Improvements in Survival, Motor Function, and Decreased Dependence on Ventilator Support/R. Shell, S. Al-Zaidy, W.D. Arnold, L. Rodino-Klapac, T.W. Prior, K. Kotha, L. Lowes, L. Alfano, K. Berry, K. Church, J. Kissel, S. Nagendran, J. L'Italien, D. Sproule, M. Du, J. Cardenas, A. Burghes, K.D. Foust, K. Meyer, S. Likhite, B.K. Kaspar, J.R. Mendell, Columbus, OH, p.A2648**



- 2:45** **Respiratory Function in Eteplirsen-Treated Duchenne Muscular Dystrophy (DMD) Patients Compared to Natural History**/T.B. Kinane, O. Mayer, L. Lowes, J.R. Mendell, N. Khan, P. Duda, Boston, MA, p.A2649
- 3:00** **Maternal Smoking Induces Acquired CFTR Dysfunction in Neonatal Rats**/L.L. McCormick, N. Kaza, L. Tang, L. Rasmussen, P.L. Jackson, S. Byzek, V.S. Raju, S. Rowe, Birmingham, AL, p.A2650
- 3:15** **Identification of Two Novel Acute Respiratory Illness Cytokine-Response Subgroups Associated with Wheezing Phenotype**/K.N. Turi, J. Shankar, L.J. Anderson, K. Gaston, D. Rajan, T. Gebretsadik, S.R. Das, C. Stone, E.K. Larkin, C. Rosas-Salazar, T.V. Hartert, Nashville, TN, p.A2651
- 3:30** **Hepatoma-Derived Growth Factor Predicts Disease Severity in Pediatric Pulmonary Arterial Hypertension**/M.K. Nies, J. Yang, R.L. Damico, D. Vaidya, D. Ivy, E. Austin, R. Hirsch, D. Yung, E. Rosenzweig, M. Pauciulo, W. Nichols, A. Everett, Baltimore, MD, p.A2652
- 3:45** **Lung Hypoplasia in a Genetic Mouse Model of Down Syndrome**/D. Bush, A. Minic, G. Seedorf, B. Dodson, D.P. Shepherd, S.H. Abman, C. Galambos, Aurora, CO, p.A2653

Featured Speaker

- 4:00** **Lessons My Patients Have Taught Me**/P.E. Moore, MD, Nashville, TN

MINI SYMPOSIUM

A97 MOLECULAR TARGETS AND PATHWAYS IN AGING

2:15 p.m. - 4:15 p.m. **MARRIOTT MARQUIS WASHINGTON**

Marquis Ballroom 6 (Level M2)

Chairing: G.S. Budinger, MD, Chicago, IL
M. Konigshoff, MD, PhD, Aurora, CO
M. Sauler, MD, New Haven, CT

Oral Presentations

- 2:15** **Aging Lung Fibroblasts Show a Defect in Cystine Transport that Results in Dysregulation of the Extracellular Redox Environment and Increased Expression of Extracellular Matrices**/W.H. Watson, J.D. Ritzenthaler, T.J. Burke, I.N. Zelko, E. Torres-Gonzalez, J. Roman, Louisville, KY, p.A2654
- 2:30** **Fibroblast Growth Factor-10 in Aging-Associated Lung Fibrosis**/D. Chanda, N.J. Logsdon, D. Kurundkar, S.M. Swamy, D.K. Crossman, J.S. Deshane, V.J. Thannickal, Birmingham, AL, p.A2655
- 2:45** **Nampt Mediates Age-Associated Pro-Fibrotic Myofibroblast Phenotypes and Persistent Fibrosis**/L. Hecker, T. Wang, J.G.N. Garcia, Tucson, AZ, p.A2656
- 3:00** **Aging Slows Ciliary Beat Frequency of Wild Type, but Not Protein Kinase C Epsilon Knockout Mice**/K.L. Bailey, D.M. Katafiasz, J.H. Sisson, T.A. Wyatt, Omaha, NE, p.A2657

- 3:15** **Hedgehog Interacting Protein Regulates Mitochondrial Function in Age-Related COPD**/Y. Li, Z. Jiang, Z.Z.C. Naing, F. Guo, X. Zhou, Boston, MA, p.A2658
- 3:30** **Variability in Stretch Amplitude Partially Restores Age-Related Decline in Mitochondrial Structure and Function in Lung Fibroblasts**/E. Bartolak-Suki, B. Suki, Boston, MA, p.A2659
- 3:45** **Macrophage Heterogeneity as a Driver of the Age-Related Susceptibility to Influenza A Infection**/A.C. Mc Quattie-Pimentel, C.-I. Chen, P.A. Reyfman, L. Morales-Nebreda, J.M. Walter, M. Chi, K.M. Ridge, H. Perlman, G.S. Budinger, A.V. Misharin, Chicago, IL, p.A2660
- 4:00** **Aged Mice Display a Distinct Blood CD4⁺ T Cell Profile Before and After Influenza Infection**/B.D. Singer, K. Helmin, A. Mc Quattie-Pimentel, C.-I. Chen, H.C. Do-Umhara, S. Budinger, A.V. Misharin, Chicago, IL, p.A2661

MINI SYMPOSIUM

A98 SEEING IS BELIEVING: USING NOVEL IMAGING TECHNIQUES TO UNDERSTAND THE LUNG IN HEALTH AND DISEASE

2:15 p.m. - 4:15 p.m. **MARRIOTT MARQUIS WASHINGTON**

Independence Ballroom A-D (Level M4)

Chairing: J.C. Woods, PhD, Cincinnati, OH
E.A. Hoffman, PhD, Iowa City, IA

Oral Presentations

- 2:15** **Metabolic and Structural Imaging of Syngeneic and Allogeneic Rat Lung Transplantation**/S. Siddiqui, M. Pourfathi, A. Habertheuer, Y. Xin, H. Hamedani, H. Profka, A. Naji, P. Vallabhajosyula, R.R. Rizi, Philadelphia, PA, p.A2662
- 2:30** **Hyperpolarized ³He Gas MRI in Infant Lungs: Investigating Airspace Size**/N.S. Higano, R. Thomen, K. Parks, H. Huyck, A. Hahn, S.B. Fain, M. Baker, G.S. Pryhuber, J.C. Woods, St. Louis, MO, p.A2663
- 2:45** **Ventilation Defect Percent in Helium-3 MRI Is Associated with Severe Outcomes in Asthma**/D. Mummy, S. Kruger, M.D. Evans, W. Zha, R.L. Sorkness, N.N. Jarjour, M. Schiebler, L.C. Denlinger, S.B. Fain, Madison, WI, p.A2664
- 3:00** **Inflammatory and Non-Inflammatory Contributions to Ventilation Heterogeneity in Severe Poorly-Controlled Asthmatics**/S. Svenningsen, R.L. Eddy, H.F. Lim, P. Nair, G. Parraga, Hamilton, Canada, p.A2665
- 3:15** **Cross-Volume and Cross-Time CT Image Matching Assessment Provides Multiscale Characterization of Individual Asthmatic Lung Responses to Bronchodilator**/J. Choi, H.-J. Lim, M. Park, H.-R. Kang, C.-L. Lin, E.A. Hoffman, C.H. Lee, Iowa City, IA, p.A2666



- 3:30** **Quantifying Airway Smooth Muscle and the Response to Bronchial Thermoplasty Using Orientation Resolved Optical Coherence Tomography/M.J. Suter, J.A. Holz, D.C. Adams, L.P. Hariri, C. Manley, M.V. Szabari, S. Hunter, S. O'Shaughnessy, J. Weiner, S. Fleury, Boston, MA, p.A2667**
- 3:45** **Quantitative Assessment of Multiscale Imaging-Based Structural and Functional Metrics in the Subpopulations and Intermediate Outcome Measures in COPD Study (SPIROMICS)/B. Haghighi, S. Choi, E.A. Hoffman, J.D. Newell, R.G. Barr, M.K. Han, E. Bleeker, C.B. Cooper, D. Couper, N. Hansel, R.E. Kanner, E. Kazerooni, E. Kleerup, F.J. Martinez, W. O'Neal, P.G. Woodruff, C.-L. Lin, Iowa City, IA, p.A2668**
- 4:00** **Pulmonary Vessels on Computed Tomography in Early Stages of Chronic Obstructive Pulmonary Disease/J.-P. Charbonnier, E. Van Rikxoort, S. Humphries, C. Schaefer-Prokop, D. Lynch, Nijmegen, Netherlands, p.A2669**

POSTER DISCUSSION SESSION

A101 ADVANCES IN COUGH, DYSPNEA, AND INTERVENTIONAL PULMONARY

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 206 (South Building, Level 2)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: A. Woodcock, MD, Manchester, United Kingdom
K.O. Lindell, PhD, RN, Pittsburgh, PA
N.F. Chaisson, MD, Cleveland, OH

- 601** **Sensory-Mechanical Responses to High-Dose Methacholine Bronchoprovocation in Healthy Normal Subjects/N. Sood, T. Fisher, T. Wall, J.T. Fisher, M.D. Lougheed, Kingston, Canada, p.A2670**
- 602** **Severity, Predictors, and Impact of Cough in Idiopathic Pulmonary Fibrosis and Systemic Sclerosis-Associated Interstitial Lung Disease/J.Z. Cheng, P.J. Wilcox, T.J. Corte, D. Murphy, C.J. Hague, C.J. Ryerson, Vancouver, Canada, p.A2671**
- 603** **The Neurokinin-1 Receptor Antagonist Orvepitant Is a Novel Anti-Tussive Therapy for Chronic Refractory Cough: Results from a Phase 2 Study (VOLCANO-1)/J.A. Smith, D. Allman, H. Badri, R. Miller, J. Morris, I. Satia, A. Wood, M. Trower, Manchester, United Kingdom, p.A2672**
- 604** **A Randomized Controlled Trial of Laparoscopic Nissen Fundoplication (LNF) Versus Proton Pump Inhibitors for Treatment of Patients with Chronic Gastro-Esophageal Reflux Disease (GERD) Who Complained of Cough/C.J. Allen, M. Anvari, C.H. Goldsmith, Hamilton, Canada, p.A2673**
- 605** **Cough- and Sputum-Related Quality of Life in Nontuberculous Mycobacteriosis/T. Shirai, T. Suzuki, Y. Tanaka, H. Watanabe, Y. Endo, Y. Shimoda, R. Noguchi, M. Saigusa, T. Akamatsu, A. Yamamoto, Y. Shishido, T. Akita, S. Morita, K. Asada, Shizuoka, Japan, p.A2674**

- 606** **The Randomized, Double-Blind, Placebo-Controlled Study of Efficacy and Safety of Propolis and N-Acetylcysteine Compared to Placebo in Adults in Acute Condition with Sputum Production/D. Zujovic, Belgrade, Serbia, p.A2675**
- 607** **Diagnostic Yield of Fiberoptic Bronchoscopy and Bronchoalveolar Lavage (BAL) in the Evaluation of Chronic Cough with a Normal Chest XRAY/Z. Syed, R. Sekhon, Z. Ghazarian, T. Pandya, M. Hanna, C. Kadiri, M. Ismail, R. Solis, Paterson, NJ, p.A2676**
- 608** **Treatment of Chronic Idiopathic Cough with Inhaled PA101: A Randomized Controlled Trial/S. Birring, J.W. Van Den Berg, S. Agrawal, A. Tutuncu, A.H. Morice, London, United Kingdom, p.A2677**
- 609** **Levodropropizine Effect on Respiratory Centre Output in Patients with Intractable Chronic Cough Final Results of a Randomized Clinical Trial/F. Saibene, C. Mannini, L. Lanata, F. Lavorini, G. Fontana, Milano, Italy, p.A2678**
- 610** **Patients with URTI Related Cough Effects of Combinations of NSAID and Antitussives/F. Saibene, A. Zanasi, L. Lanata, M. Mazzolini, Milano, Italy, p.A2679**
- 611** **Improvement of Cough Symptom After Treatment of Gastroesophageal Reflux Disease (GERD) Related Cough - Association with Sputum Substance P Levels/N. Takeda, M. Takemura, H. Hijikata, K. Fukumitsu, H. Ichikawa, T. Asano, Y. Kanemitsu, T. Uemura, O. Takakuwa, H. Ohkubo, K. Maeno, Y. Ito, T. Oguri, A. Nakamura, E. Kubota, A. Niimi, Nagoya, Japan, p.A2680**
- 612** **Expiratory Central Airway Collapse and Medical Management: Outcome Analysis/D. Alape, F. Kheir, S. Gangadharan, P. Mallur, E. Rivera-Flores, A. Majid, Boston, MA, p.A2681**
- 613** **High Prevalence and Impact of Gastroesophageal Reflux Disease in Patients with Subacute/Chronic Cough: A Novel Experience from Japan/H. Ichikawa, Y. Kanemitsu, M. Takemura, N. Takeda, K. Fukumitsu, T. Asano, A. Niimi, Nagoya, Japan, p.A2682**
- 614** **Automation of the History of Present Illness in a Chronic Cough Clinic/A. Lee, J. Pascual, A. Bhasin, Jacksonville, FL, p.A2683**
- 615** **Nocturnal Cough Variations in COPD Patients/P. Fischer, O. Hildebrandt, F. Schudt, A. Weissflog, U. Koehler, V. Gross, Giessen, Germany, p.A2684**
- 616** **The Hand-Held Fan for Breathlessness, How Do Patients Use It and Does It Help?/M. Johnson, F. Swan, S. Booth, D. Currow, S. Hart, J.L. Phillips, Hull, United Kingdom, p.A2685**
- 617** **Efficacy and Safety of Laryngeal Mask Airway Assisted Bronchoscopy Versus Standard Nasal Bronchoscopy/B. Pertzov, D. Alon, E. Gershman, M. Frishman, N. Abdel Rahman, D. Rosengarten, M.R. Kramer, Petach-Tikva, Israel, p.A1650**
- 618** **Safety and Efficacy of Endobronchial Ultrasound Guided Transvascular Needle Aspiration (EBUS-TVNA)/S. Nuguru, K. Diab, Indianapolis, IN, p.A1660**



- 619 Safety of Transbronchial Lung Cryobiopsy in Mechanically Ventilated Patients in Critical Care. Multicenter Study/A.M. Munoz-Fernandez, V. Pajares, C. Lucena, F. Andreo, A. Betbese, L. Lopez, P. Castro, J.R. Badia, J. Ramirez, E. Mor, G. Bonet, C. Agusti, A. Torrego, Barcelona, Spain, p.A1654**
- 620 Endobronchial Valve Treatment in Homogeneous Emphysema: 6-Month Follow-Up in the IMPACT Randomized Controlled Trial/D.-J. Slebos, A. Valipour, F.J.F. Herth, K. Darwiche, M. Wagner, J.H. Ficker, C. Petermann, R.-H. Hubner, F. Stanzel, R. Eberhardt, Groningen, Netherlands, p.A5719**
- 621 A Prospective, Randomized Trial Comparing the Diagnostic Yield of 10 Versus 20 Needle Revolutions During Performance of EBUS-TBNA in Sarcoidosis/S. Dhooira, I.S. Sehgal, N. Gupta, D. Behera, R. Agarwal, Chandigarh, India, p.A4746**
- 622 Bleeding Severity After Transbronchial Cryobiopsies Is Influenced by Body Height and Age/J. Hetzel, R. Eberhardt, C. Petermann, W. Gesierich, K. Darwiche, L. Hagmeyer, M. Kreuter, A. Ehab, M. Boeckeler, M. Haentschel, Tuebingen, Germany, p.A7408**
- 623 Bronchoscopic TransParenchymal Nodule Access: Evaluation of Safety and Feasibility of Archimedes System/F.J. Herth, S. Li, J. Sun, D. Nader, Heidelberg, Germany, p.A7597**

POSTER DISCUSSION SESSION

A102 TRANSPLANTATION: ADVANCES AND CHALLENGES

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 150 B (Middle Building, Street Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: J.F. McDyer, MD, Pittsburgh, PA
L.L. Silhan, MD, Baltimore, MD
A.W. Brown, MD, Falls Church, VA

- 201 Lung Function Decline in Patients with Chronic Allograft Dysfunction (CLAD) Following Lung Transplantation: Differences in Types of Progression/S. Coronel, S. Ganesh, J. Liebler, R. Barbers, A. Baydur, T. Floreth, Los Angeles, CA, p.A2686**
- 202 Late Pleural Effusions After Lung Transplantation Are Independently Associated with Reduced CLAD-Free Survival/P.J. Edmonds, R.J. Lentz, M.P. Steele, O. Rickman, F. Maldonado, R.W. Light, E.J. Grogan, E.S. Lambright, I.M. Robbins, C.M. Shaver, Nashville, TN, p.A2687**
- 203 Impact of Gram Negative Bacteria Airway Recolonization on the Occurrence of Chronic Lung Allograft Dysfunction After Lung Transplantation in a Population of Cystic Fibrosis Patients/S. Orfanos, C. Gomez, S. Baron, N. Dufeu, B. Coltey, P. Thomas, J.M. Rolain, M. Reynaud-Gaubert, Marseille, France, p.A2688**

- 204 Initial Experience of Lung Transplantation Using Voluntary Organ Donations After Brain and Cardiac Death of Citizens at Wuxi Center: Tough Sail in 2015/W. Mao, J. Chen, Wuxi, China, p.A2689**
- 205 Predicting Post Lung Transplant Peak Lung Functions Using Recipient and Donor Characteristics/M. Azar, D. Gutteridge, T.E. Stump, D. Roe, M. Duncan, J. Salgado, T. Wozniak, C.A. Hage, Indianapolis, IN, p.A2690**
- 206 Transplanting the Human Respiratory Microbiome/A.B. Mitchell, G.L. Calligaro, M.A. Malouf, M. Benzimra, A. Rigby, R. Pearson, A. Havryk, M. Plit, L. Morgan, B.G. Oliver, A.R. Glanville, Camperdown, Australia, p.A2691**
- 207 Clinical Issues Associated with Lung Transplantation in Hermansky-Pudlak Syndrome Pulmonary Fibrosis/B.R. Gochuico, K.J. O'Brien, S.D. Nathan, H.J. Goldberg, J.M. Connors, Y. Cui, T.L. Astor, P.C. Camp, Jr., I. Rosas, M.L. WoldeHanna, V. Speransky, G.L. Weinhouse, S. El-Chemaly, Bethesda, MD, p.A2692**
- 208 Changes in Dyspnea Following Lung Transplantation: A Pooled Cohort Study/M.T. Durheim, P.J. Smith, J.A. Blumenthal, S.M. Palmer, L.D. Snyder, Durham, NC, p.A2693**
- 209 Pulmonary Rehabilitation in Lung Transplant Candidates: Impact on Post-Transplant Inpatient Utilization and Mortality/G.S. Bauldoff, V. Van Berkel, M. Fox, A. Ramirez, D.R. Nunley, Columbus, OH, p.A2694**
- 210 Risk Stratification of Pulmonary Embolism May Affect Lung Transplant Outcomes/M. Dorry, L.D. Snyder, T. Dahhan, Durham, NC, p.A2695**
- 211 Antifibrotic Therapy Before Lung Transplantation Does Not Lead to Increased Anastomotic Dehiscence in Lung Transplant Recipients/W. Shapiro, M. Butler-LeBair, Y. Toyoda, G.J. Criner, F. Cordova, Philadelphia, PA, p.A2696**
- 212 Matching Donor and Recipient Epstein Barr Virus Status Results in Better Outcomes than a Mis-Match/A. Maniar, F. Zafar, R. Bryant, D. Morales, C. Towe, M. Schechter, Cincinnati, OH, p.A2697**
- 213 Extracorporeal Membrane Oxygenation as a Bridge to Lung Transplantation: A Contemporary Single Center Experience/M. Gordon, F. Cordova, C. Cann, A. Cords, M. Butler LeBair, Y. Toyoda, G.J. Criner, Philadelphia, PA, p.A2698**
- 214 Refining Low Physical Activity Measurement Improves Frailty Assessment in Lung Transplant and Older Survivors of Critical Illness/M.R. Baldwin, J.P. Singer, D. Huang, J. Sell, W. Gonzalez, L. Pollack, F. D'Ovidio, M. Bacchetta, J.R. Sonett, S.M. Arcasoy, L. Shah, H. Robbins, S. Hays, J. Kukreja, J.R. Greenland, R.J. Shah, L. Leard, J.M. Diamond, J.D. Christie, M. Morrell, D.J. Lederer, New York, NY, p.A2699**
- 215 Supratherapeutic Vancomycin Trough Levels Following Lung Transplantation: A Cohort Study/H. Taher, H. Sajjad, A. Knott, H. Bream-Rouwenhorst, S. Kuppachi, M. Eberlein, Iowa City, IA, p.A2700**



- 216 Pulmonary Hypertension Is Common in Patients with End Stage Lung Disease Undergoing Lung Transplantation but Does Not Impact Long Term Survival/Y. Dotan, J. Stewart, J. Chen, N. Marchetti, C. Dass, K. Shenoy, F. Cordova, G.J. Criner, A.J. Mamary, Philadelphia, PA, p.A2701**
- 217 Outcomes in Lung Transplant Recipients with Pulmonary Fibrosis at High Risk of Death/C.A. Bates, C.W. Frankel, A.L. Gray, J.M. Reynolds, S.M. Palmer, M.L. Neely, Durham, NC, p.A2702**
- 218 Lung Transplantation for Patients with Cystic Fibrosis and Burkholderia Cepacia Complex: The Pittsburgh Experience/E. Nolley, J.M. Pilewski, J. D'Cunha, M. Morrell, Pittsburgh, PA, p.A2703**
- 219 DONATE-Pilot Study/F. D'Aragon, S. Dhanani, D.J. Cook, C.M. Ribic, C. Cupido, F. Lamontagne, E. Arseneau, L. Hand, H. Whittingham, A.S. Gangji, C. Payne, K.E. Burns, A. Akhtar, G. Guyatt, M.O. Meade, Sherbrooke, Canada, p.A2704**
- 220 A Novel Patient-Centered Metric of U.S. Lung Transplant Center Performance/D.A. Maldonado, A. RoyChoudhury, D.J. Lederer, New York, NY, p.A2705**
- 221 Pulmonary Function Decline After Respiratory Viral Infection Predicts Mortality After Hematopoietic Stem Cell Transplantation/A. Sheshadri, D. Shah, J. Kmeid, J. Azzi, M. Kaous, D. Blanco, L. Bashoura, G. Rondon, A. Alousi, B. Dickey, R. Chemaly, Houston, TX, p.A2706**
- 222 Does Day of Week of Brain Death Effect Time to Cross-Clamp for Organ Harvest?/L. Angotti, L. Paoletti, A. Simpson, T. Whelan, Charleston, SC, p.A2707**
- 223 Disparity in Donor Lung Availability Based on Geography/L.J. Benvenuto, L. Shah, H. Robbins, H. Kim, M. Bacchetta, J.R. Sonett, F. D'Ovidio, S.M. Arcasoy, New York, NY, p.A2708**
- 224 Frailty and Reduced Maximal Exercise Capacity in Adult Lung Transplant Candidates/A.M. Layton, H.F. Armstrong, M.R. Baldwin, A.J. Podolanczuk, N.M. Pieschata, J.P. Singer, S.M. Arcasoy, K.S. Meza, R.C. Basner, D.J. Lederer, New York, NY, p.A2709**
- 225 The Feasibility and Safety in Providing Early Rehabilitation and Ambulation for Adults on Percutaneous Venous to Arterial Extracorporeal Membrane Oxygenation Support/C.L. Wells, J. Forrester, J. Vogel, R. Rector, D. Herr, Baltimore, MD, p.A2710**
- 701 Age but Not Smoking Status Significantly Adds to the BODE Index for the Prediction of Survival in COPD Patients/E. Marchand, J. Jamart, L. Pirard, Namur, Belgium, p.A2711**
- 702 Weighted Density Difference Between Paired Computed Tomography (CT) Scans as a Metric of Lung Function to Predict FEV₁ Decline in Chronic Obstructive Pulmonary Disease (COPD)/S. Bodduluri, J.M. Reinhardt, E.A. Hoffman, J.D. Newell, J.C. Sieren, M. Dransfield, S.P. Bhatt, Birmingham, AL, p.A2712**
- 703 Computed Tomography (CT) Measure of Lung At-Risk and Lung Function Decline in Chronic Obstructive Pulmonary Disease/S.P. Bhatt, S. Bodduluri, E.A. Hoffman, J.D. Newell, J.C. Sieren, M. Dransfield, J.M. Reinhardt, Birmingham, AL, p.A2713**
- 704 Repetitive Saliva Swallowing Test May Identify a COPD Phenotype at High Risk for Exacerbations/Y. Yoshimatsu, T. Sueyasu, S. Nishizawa, Y. Goto, K. Murakami, M. Munechika, K. Yoshimine, Y. Ko, M. Asaji, H. Ide, K. Tsuruno, H. Miyajima, Y. Mukasa, N. Ebi, K. Tobino, Iizuka, Japan, p.A2714**
- 705 The Relationship of Absolute Telomere Length with Quality of Life, Exacerbations, and Mortality in Chronic Obstructive Pulmonary Disease (COPD)/M. Jin, E.C. Lee, S.W. Ra, N. Fishbane, S. Tam, G.J. Criner, P.G. Woodruff, S.C. Lazarus, R. Albert, J.E. Connett, M.K. Han, F.J. Martinez, S.D. Aaron, R.M. Reed, S.P. Man, J. Leung, D.D. Sin, Vancouver, Canada, p.A2715**
- 706 A Novel Approach for Comprehensive External Validation and Comparison of Prediction Models with an Application to COPD/M.A. Puhan, B. Guerra, J. Soriano, S. Haile, Zurich, Switzerland, p.A2716**
- 707 Predicting Long-Term Outcomes and Future Deterioration in COPD with a Composite Endpoint: Post Hoc Analysis of the UPLIFT Study/K.F. Rabe, D. Halpin, F. Martinez, M. Miravittles, D. Singh, L. Groenke, F. Voss, M.K. Han, Grosshansdorf, Germany, p.A2717**
- 708 The Prognostic Role of Type 2 Diabetes in Patients with Chronic Obstructive Pulmonary Disease/C.-T. Huang, T.-W. Ho, S.-Y. Ruan, F. Lai, C.-J. Yu, Taipei, Taiwan, p.A2718**
- 709 Objectively Identified Interstitial Abnormalities, Emphysema and Mortality/S.Y. Ash, R. Harmouche, J. Ross, A.A. Diaz, G.M. Hunninghake, R.K. Putman, J. Onieva Onieva, F.J. Martinez, A.M.K. Choi, D.A. Lynch, H. Hatabu, I. Rosas, R. San Jose Estepar, G.R. Washko, Boston, MA, p.A2719**
- 710 In Subjects with Non-Obstructive Chronic Bronchitis, Lung Function Decline and Clinical Outcomes Vary by Sex, Race and Smoking Status: A Longitudinal Analysis of the COPD Gene Cohort/C. Martinez, W.W. Labaki, N. Putcha, A. Sharafkhan, S.P. Bhatt, J.M. Wells, N. Hanania, B.J. Make, J. Curtis, V. Kim, M.K. Han, Ann Arbor, MI, p.A2720**
- 711 A Novel Debility Score Predicts Future Exacerbations and Death in SPIROMICS/C.B. Cooper, I. Barjaktarevic, J. Curtis, C. Martinez, R.P. Bowler, W. O'Neal, E.A. Hoffman, E.E. Carretta, M. Qibler, R.G. Barr, E. Bleeker, D.J. Couper, G.J. Criner, M. Dransfield, M.K. Han, N.N. Hansel, R.E. Kanner, J.A. Krishnan, S.C. Lazarus, F.J. Martinez, C. Meldrum, R. Paine, P.G. Woodruff, Los Angeles, CA, p.A2721**

POSTER DISCUSSION SESSION

A103 COPD: DISEASE PROGRESSION AND PROGNOSIS

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 209 A-C (South Building, Level 2)

Poster Viewing 2:15-3:00
Discussion 3:00-4:15

Chairing: S.P. Bhatt, MD, Birmingham, AL
 J.M. Bon, MD, MS, Pittsburgh, PA
 R.A. Wise, MD, Baltimore, MD



- 712** **Developing a Risk Prediction Model for Readmission During Follow-Up Visit After a COPD Exacerbation**/C. Lau, G. Sathiyamoorthy, B. Small, H. Bhadsavle, D. Saygin, X. Han, X. Wang, U. Hatipoglu, Cleveland, OH, p.A2722
- 713** **Frailty Assessment for Predicting Readmission and Discharge Disposition Among Patients Hospitalized for Chronic Obstructive Pulmonary Disease Exacerbation**/T. Golden, N. Toosizadeh, C.E. Berry, Y. Mei, M. Miramontes, C. Zaldizar, J. Mohler, L. Ghazala, Tucson, AZ, p.A2723
- 714** **Probabilistic Graphical Models Identify Causal Predictors of FEV₁ Decline in COPD Patients**/I. Shi, Y. Zhang, D.V. Manatakis, J. Bon, D. Chandra, C. Karoleski, F.C. Sciruba, P.V. Benos, Pittsburgh, PA, p.A2724
- 715** **Rate of Deterioration in SGRQ Is Independently Predictive of Mortality in COPD**/G.C. Donaldson, J.A. Wedzicha, London, United Kingdom, p.A2725
- 716** **Rise in Blood Neutrophils, and Falls in Eosinophils, Over Time Is Associated with Mortality in COPD: A Joint Model Analysis**/G.C. Donaldson, J.A. Wedzicha, London, United Kingdom, p.A2726
- 717** **Risk Factors for Hospital Admission with a Respiratory Illness in a Comparative Effectiveness Cohort of Patients with Chronic Obstructive Pulmonary Disease (COPD)**/J. Veljanovski, D.R. Ouellette, Detroit, MI, p.A2727
- 718** **Frailty and COPD Are Better Predictors of Mortality Rather than Each Entity Alone: A Secondary Analysis of the CRELES Study**/C.A. Celis Preciado, M. Borda, D. Patino-Hernandez, C. Cano, M. Perez-Cepeda, Bogota, Colombia, p.A2728
- 719** **High Cystatin-C Levels May Predict Imminent COPD Exacerbations**/J. Leung, V. Chen, Z. Hollander, S. Tam, G.J. Criner, P.G. Woodruff, R. Albert, J.E. Connett, S.C. Lazarus, M.K. Han, S.D. Aaron, R.M. Reed, C. Borchers, B.M. McManus, R.T. Ng, D.D. Sin, Vancouver, Canada, p.A2729
- 720** **Higher Plasma N-Terminal pro-Brain Natriuretic Peptide (NT-proBNP) Levels in Stable COPD Subjects Are Associated with an Increased Risk of Respiratory Exacerbation: An Analysis of the SPIROMICS Cohort**/W.W. Labaki, M. Xia, S. Murray, R.G. Barr, S.P. Bhatt, E.R. Blecker, C.B. Cooper, J.L. Curtis, M.T. Dransfield, N.N. Hansel, E.A. Hoffman, R.E. Kanner, R. Paine, P.G. Woodruff, J.M. Wells, F.J. Martinez, C.H. Martinez, M.K. Han, Ann Arbor, MI, p.A2730
- 721** **Combined Impact of Early Life Factors and Smoking on Adult FEV₁ Trajectory - A Prospective 64 Year National Birth Cohort Study**/J.P. Allinson, R. Hardy, G.C. Donaldson, S.O. Shaheen, D. Kuh, J.A. Wedzicha, London, United Kingdom, p.A2731
- 722** **Elevated Matrix Metalloprotease 9 in Moderate to Severe COPD: Results from SPIROMICS and ECLIPSE**/J.M. Wells, M. Parker, R.A. Oster, R.P. Bowler, M.T. Dransfield, M.H. Cho, P.G. Woodruff, V. Kim, J.L. Curtis, F.J. Martinez, R. Paine, R.G. Barr, M.K. Han, W.K. O'Neal, P.J. Castaldi, A. Gaggar, Birmingham, AL, p.A2732
- 723** **Lower Serum IgA Is Associated with COPD Exacerbation Risk: SPIROMICS and COPDGene**/G.G. Paul, N. Putcha, R.A. Wise, W. O'Neal, M. Dransfield, P.G. Woodruff, A.P. Comellas, M.B. Drummond, A. Lambert, L.M. Paulin, A. Fawzy, R.E. Kanner, R.G. Barr, M.K. Han, F.J. Martinez, A. Azar, R. Bowler, N. Hansel, Baltimore, MD, p.A2733
- 724** **The Effect of Vitamin D on the Lung Function and Quality of Life in Obstructive Airway Disease in Korea**/S.-T. Uh, S.M. Koo, Y.K. Kim, K.U. Kim, D.J. Kim, S. Park, Seoul, Korea, Republic of, p.A2734
- 725** **Glutathione S Transferase (GSTP1 Polymorphism) and COPD Development**/T.P. Bartholo, C.H. Costa, R.R. Alves, V.P. Bastos, B.B.G.R. Bartholo, A.P. Nascimento, M. Schmid, L.C. Porto, Rio de Janeiro, Brazil, p.A2735

POSTER DISCUSSION SESSION

A104 CRITICAL CARE: IMPROVING ICU EXERCISE, REHABILITATION, RECOVERY, AND SURVIVORSHIP

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 151 A (Middle Building, Street Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: C.L. Hough, MD, Seattle, WA
A.A. Hope, MD, MSCE, Bronx, NY
R.N. Bakhru, MD, Winston-Salem, NC

301 **Validity and Inter-Rater Reliability of the Swedish Simple EARLY Mobility (SEA) Scale: A Simple Activity Scale to Measure Highest Level of Daily Mobility in Intensive Care Units**/K.K. Koo, T. Lord, K.K. Huerta, K. Zumwalt, S. Cox, M. Kho, D. Hotchkin, M. Mangum-Williams, D. Finch, A.M. Ballard, N. Price, C. Meyers, J. Pickett, C.E. Beauregard, Seattle, WA, p.A2736

302 **Patterns of Utilization and Effects of Hospital-Specific Factors on Physical, Occupational, and Speech Therapy for Critically Ill Patients with Acute Respiratory Failure: Results of a Five Year National Sample**/C.C. Prohaska, A. Nordon-Craft, M. Gallagher, E.L. Burnham, B.J. Clark, M. Ho, T.H. Kiser, R.W. Vandivier, R. Allen, M. Schenkman, M. Moss, Aurora, CO, p.A2737

303 **Physical Function in Critical Care (PACIFIC): A Multi-Centre Observational Study**/S.M. Parry, L.D. Knight, N. De Morton, D. Sani, C.E. Baldwin, G. Kayambu, P. Phongpagdi, Z. Puthuchear, L. Denehy, C.L. Granger, Melbourne, Australia, p.A2738

304 **Observation of Physical Activity Patterns in Patients Intubated at Least 48 Hours in Intensive Care**/A. Pastva, B. Koermer, L. Southam, L. Delmedico, S. Foley, K. Hambrick, L. Johnson, J. Thompson, V. Sabol, Durham, NC, p.A2739

305 **Effect of Physical Therapy on Respiratory Parameters in Mechanically Ventilated Patients**/G.S. Supinski, P.F. Netzel, E.N. Valentine, L.A.P. Callahan, Lexington, KY, p.A2740



- 306 Healthcare Providers Overestimate Responses to Physical Therapy/P.F. Netzel, E.N. Valentine, L.A.P. Callahan, G.S. Supinski, Lexington, KY, p.A2741**
- 307 The Oxygen Cost of Rehabilitation In Mechanically Ventilated Patients/C. Black, M. Singer, M. Grocott, London, United Kingdom, p.A2742**
- 308 The Effect of Physical Rehabilitation on Sustained Attention and Brain Imaging using Functional Near-Infrared Spectroscopy in Critically Ill Adults/C. Goodson, M. Sundel, E. Irvine, N. Rendradjaja, Z. Tiegies, A. MacLulich, A. Kamiya, D. Needham, K. Neufeld, Baltimore, MD, p.A2743**
- 309 Early Mobilization Program in the Parkland MICU: 18 Month Follow-Up/D.H. Yang, M. Weinreich, S. Dickason, J. Herman, J. Brown, M. Leveno, Dallas, TX, p.A2744**
- 310 Ease of Mobilization During Noninvasive Ventilation in a Randomized Clinical Trial of Helmet Ventilation in Acute Respiratory Distress Syndrome/B.K. Patel, K.S. Wolfe, A.S. Pohlman, J.B. Hall, J.P. Kress, Chicago, IL, p.A2745**
- 311 CYCLE Pilot RCT: A Multicenter Feasibility Study of Early in-Bed Cycling Versus Routine Physiotherapy in Medical-Surgical Ventilated Patients/M.E. Kho, A.J. Molloy, F. Clarke, T. Karachi, A.E. Fox-Robichaud, V. Lo, S. Mathur, M.S. Herridge, A.J. Seely, K.E. Burns, I.M. Ball, J.R. Pellizzari, B. Rochweg, J.-E. Taride, K.K. Koo, J. Rudkowski, T. Piraino, M. Mourtzakakis, M. McCaughan, J. Reid, F.A. Costigan, L.A. Niven, D. Heels-Ansdell, D.J. Cook, Hamilton, Canada, p.A2746**
- 312 The Effect of an Exercise, Nutrition and Neuromuscular Electrical Stimulation Intervention on Acute Muscle Wasting in Critically Ill Patients Receiving Mechanical Ventilation/S.R. Wappel, O. Ali, M. Serra, C.L. Wells, D. Davis, G. Alon, A.P. Goldberg, E. Parker, J.D. Sorkin, M.L. Terrin, A.C. Verceles, Baltimore, MD, p.A2747**
- 313 Efficacy of Neuromuscular Electrical Stimulation for Decreasing Neuromuscular Electrophysiological Disorders in Critical Ill Patients/P.E. Silva, K. Livino De Carvalho, A.E. De Araujo, J.D. Castro, V. Maldaner, L. Pereira, L. Nunes, M. Santos, L. Vieira, P.F. Melo, N. Babault, G. Cipriano Jr, J.L. Quagliotti Durigan, Brasilia, Brazil, p.A2748**
- 314 High Intensity Inspiratory Muscle Training in Patients with Traumatic Brain Injury Under Mechanical Ventilation: Preliminary Results of a Randomized Controlled Trial/P.F. Melo, V. Da Silva, L. Vieira, L. Lima, A. Lira, P.E. Silva, P. Barbosa, G.C. Junior, Brasilia, Brazil, p.A2749**
- 315 Arm Cycling in Critically Ill Medical-Surgical Patients in the Acute Care Setting/M. McCaughan, K. Obrovac, W. Perry, D. Ajami, L. Camposilvan, A. Molloy, F. Clarke, J. Rudkowski, D.J. Cook, M.E. Kho, Hamilton, Canada, p.A2750**
- 316 A Comparison of Early and Enhanced Rehabilitation of Mechanically Ventilated Patients in Critical Care Compared to Standard Care (REHAB): A Single Site Feasibility Randomized Controlled Trial/D. McWilliams, C. Jones, G. Atkins, E. Reeves, C. Snelson, Birmingham, United Kingdom, p.A2751**
- 317 Outcomes Associated with Critical Illness Polyneuropathy/D. Kelmenson, D. Quan, R. Allen, E.L. Burnham, M. Ho, T. Kiser, W. Vandivier, M. Moss, Aurora, CO, p.A2752**
- 318 The Combined Effects of Frailty and Cognitive Impairment on the Course of Disability After an ICU Admission Among Older Persons/L. Ferrante, M. Pisani, T. Murphy, E. Gahbauer, L. Leo-Summers, T. Gill, New Haven, CT, p.A2753**
- 319 Post-ICU Disability and Cognition Predicted by Nutritional Risk in Adults with Critical Illness/E.B. Gettler, T.D. Girard, J.L. Thompson, R. Chandrasekhar, P.P. Pandharipande, D. Heyland, E.W. Ely, N.E. Brummel, Nashville, TN, p.A2754**
- 320 ICU Admission Skeletal Muscle Mass, In-Hospital Outcomes and 6-Months Mortality: A Prospective Study/A. Jaitovich, M. Khan, R. Itty, H. Chieng, P. Nadendla, J. Fantauzzi, R. Yucel, M.A. Judson, Albany, NY, p.A2755**
- 321 Patients' Recall of Stressful Experience While Receiving Mechanical Ventilation in Intensive Care Unit/C. Limsuwat, S. Qayum, D. Davis, T. Middour, P. Aswanetmanee, S. Thammasitboon, F. Kheir, New Orleans, LA, p.A2756**
- 322 Characterization of Depressive Symptoms and Antidepressant Prescribing Among ICU Survivors in the Critical Care Recovery Center (CCRC)/S. Wang, C. Mosher, K. Kirk, Y.N. Kheir, S. Lasiter, S.H. Khan, M. Boustani, B.A. Khan, Indianapolis, IN, p.A2757**
- 323 Predictors of Clinical Outcomes in Chronic Critical Illness/J.J. Lomba, R.N. Nace, J. Zuis, A.S. Rangarajan, M.J. Raspanti, C.T. Ryan, K. Laskowski, A.F. Massaro, K.J. Haley, Boston, MA, p.A2758**
- 324 ICU Survivors in the Post Hospital Setting - Our Five-Year Critical Care Recovery Center Experience/A. Sheikh, S. Wang, C. Mosher, K. Kirk, S.H. Khan, C. Reynolds, S. Lasiter, B.A. Khan, Indianapolis, IN, p.A2759**
- 325 Primary Care Physicians' Perceptions of Outpatient Care for Survivors of Critical Illness/A.A. Liou, W.D. Schweickert, D.C. Files, R.N. Bakhru, Winston-Salem, NC, p.A2760**

POSTER DISCUSSION SESSION

A105 CRITICAL CARE: IMPROVING PROGNOSTICATION IN CRITICAL ILLNESS

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 151 B (Middle Building, Street Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: C.K. Grissom, MD, Murray, UT
K.S. Mathews, MD, MPH, New York, NY
V. Liu, MD, MS, Oakland, CA

401 Pilot Feasibility Study of Therapeutic Hypothermia for Moderate to Severe Acute Respiratory Distress Syndrome (ARDS)/D.F. Slack, D.S. Corwin, N.G. Shah, C.B. Shanholtz, A.C. Verceles, G. Netzer, K.M. Jones, C.H. Brown, M.L. Terrin, J.D. Hasday, Baltimore, MD, p.A2761

402 Predicting Outcomes and Prognosis in ARDS/S. Wachtel, A.A. Asuni, A. Rogers, J. Levitt, Stanford, CA, p.A2762



- 403 The Prognostic Predictor of Acute Respiratory Distress Syndrome in Patients with Hematological Malignancies/G.M. Seong, J.W. Huh, S.-B. Hong, C.-M. Lim, Y. Koh, Seoul, Korea, Republic of, p.A2763**
- 404 Inflammasome Activation Is Associated with ARDS Mortality, Particularly in Patients Randomized to Statin Therapy/A. Rogers, J. Guan, G.M. Hunninghake, A. Trtchounian, K. Liu, M.A. Matthay, J. Steingrub, A.P. Wheeler, K. Nakahira, A.M.K. Choi, Stanford, CA, p.A2764**
- 405 Specific Findings of High-Resolution Computed Tomography for the Prediction of Mortality in Acute Respiratory Distress Syndrome Patients/R. Imai, N. Nishimura, O. Takahashi, Tokyo, Japan, p.A2765**
- 406 The Ratio of Measured to Predicted Compliance: A New Parameter for Assessing Impairment in Mechanics and Prognosis in Acute Respiratory Distress Syndrome/L. Chen, G.-Q. Chen, D.L. Grieco, O. Shklar, M.C. Sklar, P. Greco, H. Every, J.O. Friedrich, M. Xu, J.-X. Zhou, L.J. Brochard, Toronto, Canada, p.A2766**
- 407 Oxygenation Saturation Index Is Comparable to Oxygenation Index for Prediction of Clinical Outcomes in ARDS/K. DesPrez, J.B. McNeil, J.A. Bastarache, C.M. Shaver, L.B. Ware, Nashville, TN, p.A2767**
- 408 Early Fluid Resuscitation in Patients with Acute Respiratory Distress Syndrome and Shock/M.W. Adelman, B.T. Thompson, E. Bajwa, Boston, MA, p.A2768**
- 409 Early Corticosteroid Treatment in Patients with Influenza-Associated Acute Respiratory Distress Syndrome/C.-C. Sheu, W.-A. Chang, M.-J. Tsai, J.-R. Tsai, I.-W. Chong, Kaohsiung City, Taiwan, p.A2769**
- 410 Use of Higher Positive End Expiratory Pressure Relative to the ARDS Network Protocol Is Associated with Decreased Mortality in Children/K. Parvathaneni, A. Bhalla, C.J.L. Newth, R.G. Khemani, Los Angeles, CA, p.A2770**
- 411 An Assessment of Risk Factors for Duration of Mechanical Ventilation Given the Competing Risk of Mortality/W.H. Chong, P. Okonoboh, J. Fitzgerald, J. Friderici, A. Malanowski, B. Nathanson, E. Lederman, M. Stefan, J. Steingrub, Springfield, MA, p.A2771**
- 412 Superiority of APACHE IV Versus APR-DRG in Evaluating ICU Mortality/E. Male, S. Ghamande, H.D. White, K. Zolfaghari, B. Giri, J. Ettlinger, A.C. Arroliga, E. Jimenez, Temple, TX, p.A2772**
- 413 SOFA and aSOFA Predict 30-Day Mortality Better than SIRS in Patients with Pneumonia/I.D. Mecham, N.C. Dean, E.L. Wilson, A.R. Jephson, M.J. Lanspa, Salt Lake City, UT, p.A2773**
- 414 Causes of Death in ICU Patients with Low Expected Mortality as Determined by APACHE IVa/A. Kayani, S. Curry, R. Raschke, Phoenix, AZ, p.A2774**
- 415 Neurologic Outcome Scores for Cardiac Arrest Should Incorporate Baseline Differences for Face Validity/K. Eng, J. Yang, S. Tyagi, S. Rosen, M.F. Odish, J.R. Beitler, R. Sell, San Diego, CA, p.A2775**
- 416 The Association Between Post-Resuscitation Cerebral Oxygenation and Survival to Discharge After Cardiac Arrest: A Prospective Study/L.N. Tran, I.T. Crnosija, C.M. O'Neill, N. Sinha, V. Chabra, R. Nguyen, S. Parnia, Stony Brook, NY, p.A2776**
- 417 Does Physician Experience Influence Mortality Among Mechanically Ventilated Medicare Patients?/M.P. Kerlin, A. Epstein, J. Kahn, D. Asch, S.J. Ratcliffe, S.D. Halpern, Philadelphia, PA, p.A2777**
- 418 Intestinal Dysbiosis and Associations with Mortality in Critically Ill Adults/C. Molnar, L.A. Schultz, Z. Ma, J.R. Broach, J. Howrylak, Hershey, PA, p.A2778**
- 419 Mortality in Intubated Patients Treated with Vecuronium or Cisatracurium/P. Sottile, T.H. Kiser, E.L. Burnham, M. Ho, R. Allen, R.W. Vandivier, M. Moss, Aurora, CO, p.A2779**
- 420 The Prognostic Value of Lactate and Comparison to Other Scoring Systems in Septic Patients Outside the Intensive Care Unit/C.T. Lee, A.M. Snyder, D.P. Edelson, M.M. Churpek, Chicago, IL, p.A2780**
- 421 Incidence and Predictors of 30-Day Readmission in Patients Hospitalized for Diabetic Ketoacidosis: A Nationwide Analysis/A.R.A. Tarawneh, K. Chatterjee, A. Goyal, K.S.S. Kakkera, A. Chada, C. Punjabi, Little Rock, AR, p.A2781**
- 422 Predictors of Escalated Care and Mortality After Early Warning System Triggering/C. Nestor, J. Boylan, A.-M. Barnes, M. Donnelly, Dublin, Ireland, p.A2782**
- 423 Effect of Age of Transfused Red Blood Cells on Patient Health Outcomes in Four Diverse Patient Cohorts: An Exploratory Analysis/R. Devnani, M.L. LaPradd, J. Higgins, M. Landrigan, A. Gray, A.A. Kelley, L. Xiaochun, G. Eckert, B.A. Khan, Indianapolis, IN, p.A2783**
- 424 QTc Prolongation Does Not Independently Predict Mortality in Septic ICU Subjects/W. Brown, E.L. Wilson, R.R. Miller, Salt Lake City, UT, p.A2784**
- 425 Takotsubo Cardiomyopathy in Severe Sepsis - Nationwide Trends and Outcomes/A. Sakhuja, S. Vallabhajosyula, G. Kumar, J. Jentzer, K. Kashani, Rochester, MN, p.A2785**

POSTER DISCUSSION SESSION

A106 HOST-PATHOGEN INTERACTIONS

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 144 A-C (Middle Building, Street Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: R.T. Sadikot, MD, MRCP, Atlanta, GA
J.P. Mizgerd, ScD, Boston, MA
C.J. Britto-Leon, MD, New Haven, CT



- 101 Pseudomonas Aeruginosa Quorum Sensing Molecules Attenuate Peroxisome Proliferator-Activated Receptor Gamma (PPAR γ) and PPAR γ Coactivator 1-Alpha (PGC1- α), and Suppress Epithelial Mitochondrial Respiration/N.M. Maurice, B. Bedi, J. Varga, Z. Yuan, J.B. Goldberg, C.M. Hart, R.T. Sadikot, Decatur, GA, p.A2786**
- 102 Nitrite as an Inhaled Biofilm Dispersal Agent for Pseudomonas Aeruginosa/A. Zemke, J. Bomberger, Pittsburgh, PA, p.A2787**
- 103 Short Palate Lung Nasal Epithelium Clone 1 (SPLUNC1): A Regulator of Early Epithelial Responses to Pseudomonas Aeruginosa/C.J. Britto-Leon, N. Niu, L. Sharma, L. Cohn, C.S. Dela Cruz, New Haven, CT, p.A2788**
- 104 High Levels of Heart-Type Fatty Acid-Binding Protein Levels Were Detected in Non-Human Primates with Severe Pneumococcal Pneumonia/B.L. Babu, L.F. Reyes, C.A. Hinojosa, A. Anzueto, C.J. Orihuela, M.I. Restrepo, San Antonio, TX, p.A2789**
- 105 ICOS Signaling Contributes to the Pathogenesis of Staphylococcus Aureus Pneumonia/D. Parker, R. Jacquet, S. Pires, New York, NY, p.A2790**
- 106 Therapeutic Potential of Sca1+ Lung Mesenchymal Stem Cells in Pneumococcal Pneumonia/T. Rangasamy, S. Paudel, S. Jeyaseelan, Baton Rouge, LA, p.A2791**
- 107 The Role of Club Cell Secretory Protein During Mycoplasma Pneumoniae Pulmonary Infection/J. Ledford, S. Guerra, K.J. Addison, S. Delgado, C. Owen, F.D. Martinez, M. Kraft, Tucson, AZ, p.A2792**
- 108 Na,K-ATPase Inhibition Inhibits Influenza A Viral Replication/L. Amarelle, J. Katzen, E. Lecuona, M. Shigemura, L.C. Welch, C. Peteranderl, S. Herold, J.I. Sznajder, Chicago, IL, p.A2793**
- 109 PPAR γ Agonists Attenuate Biofilm Formation by Pseudomonas Aeruginosa/B. Bedi, N.M. Maurice, V.T. Ciavatta, W.R. Tyor, Z. Yuan, J.B. Goldberg, C.M. Hart, M.H. Koval, R.T. Sadikot, Decatur, GA, p.A2794**
- 110 Streptococcus Pneumoniae Invade the Heart and Induce Cardiomyocytes Death During Severe Pneumonia in Non-Humans Primates/L.F. Reyes, C.A. Hinojosa, B.L. Babu, N. Soni, R.H. Alejandro, J.D. Chalmers, V. Winter, J.J. Coalson, N. Gonzalez-Juarbe, A. Anzueto, L. Giavedoni, C.J. Orihuela, M.I. Restrepo, San Antonio, TX, p.A2795**
- 111 Effects of Neutrophil Depletion on M1/M2 Macrophage Polarization and Lethality of Mice with Legionella pneumophila Pneumonia/Y. Kusaka, C. Kajiwara, Y. Miyazaki, N. Inase, K. Tateda, Tokyo, Japan, p.A2796**
- 112 Peripheral Blood Monocyte Surface Markers Are Associated with Pulmonary Dysfunction in HIV Infection/M. Lawani, M. Fitzpatrick, S. Qin, J. Martinson, J. Michel, C. Kessinger, N. Leo, L. Kingsley, R. Greenblatt, L. Huang, A. Landay, A. De Vallejo, A.M. Morris, Pittsburgh, PA, p.A2797**
- 113 Intratracheal Administration of Mesenchymal Stem Cells Improves Survival in a Mouse Model of Severe Pneumococcal Pneumonia/C.A. Hinojosa, L.F. Reyes, X.-D. Chen, B.L. Babu, A.H. Rodriguez, A. Anzueto, J. Peters, M.I. Restrepo, San Antonio, TX, p.A2798**
- 114 Angiotensin-2 in Pneumococcal Pneumonia: Insights from a Novel Inducible Ang-2 Knockout Mouse/B. Gutbier, C. Ehrler, K. Dietert, G. Nouailles-Kursar, O. Kershaw, T.J. Mitchell, A.D. Gruber, N. Weissmann, N. Suttrop, M. Witzernath, Berlin, Germany, p.A2799**
- 115 MEDI3902 Targeting P. Aeruginosa Virulence Factors PcrV and Psl for the Prevention of Pulmonary Colonization During Mechanical Ventilation/G. Li Bassi, E. Aguilera, T. Senussi, F.A. Iodone, A. Motos, C. Chiurazzi, C. Travieso, R. Amaro, Y. Hua, J. Bobi, R. Martinez Alejos, M. Rigol, O. Comino, O.T. Ranzani, L. Fernandez Barat, A. Di Giandomenico, C.K. Stover, P. Pelosi, M. Antonelli, A. Torres, Barcelona, Spain, p.A2800**
- 116 High Pulmonary Arterial Pressures Are Associated with Decreased Microbial Nitrate Metabolism in the Mouth/C.D. Koch, A. Fitch, M.A. Simon, S. Qin, C.E. Sparacino-Watkins, S. Rehman, M.L. Saul, M.T. Gladwin, A.M. Morris, Pittsburgh, PA, p.A2801**
- 117 Microaspiration Murine Model with Non-Pathogenic S. Pneumoniae Results in "Like Will to Like" Microbiota Phenomenon/B.G. Wu, Y. Li, J. Wang, J. Clemente, T. Zangari, J.N. Weiser, L.N. Segal, New York, NY, p.A2802**
- 118 NLRP6 Inflammasome Controls Pulmonary Antibacterial Immunity/S. Cai, S. Batra, J. Liliang, N. Wakamatsu, S. Jeyaseelan, Baton Rouge, LA, p.A2803**
- 119 Toll-Like Receptor-Induced Epithelial Antiviral Resistance Affects the Early Influenza Viral Cycle with an Associated Upregulation in IFITM1 and IFITM2/M.M. Leiva-Juarez, V.V. Kulkarni, Y. Wang, S.S. Bupapanapadu, S. Batres, S. Wali, Houston, TX, p.A2804**
- 120 Short-Term Cigarette Smoke Exposure Increases Acute Lung Injury in Antibiotic Treated Pneumococcal Pneumonia in Mice/J.E. Gotts, L. Chun, J. Abbott, N. Takasaka, S. Nishimura, C.S. Calfee, M.A. Matthay, San Francisco, CA, p.A2805**

POSTER DISCUSSION SESSION

A107 PEDIATRIC CARDIOVASCULAR DISEASE AND CRITICAL CARE

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 201 (South Building, Level 2)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: C.L. Carroll, MD, Hartford, CT
S. Peterson-Carmichael, MD, Indianapolis, IN

501 What Are the Optimal Anthropometric Considerations of Commercial Strollers for Children on Home Mechanical Ventilation?/S.S. Kun, G.V. Placencia, Los Angeles, CA, p.A2806

502 Syncope at Diagnosis Is Not Associated with Disease Severity and Adverse Outcomes in Children with Idiopathic and Heritable Pulmonary Arterial Hypertension/S. Takatsuki, T. Nakayama, S. Ikehara, H. Matsuura, Tokyo, Japan, p.A2807



- 503 Use of Nasal Non-Invasive Ventilation with a RAM Cannula in the Outpatient Home Setting/W.** De Jesus Rojas, C. Samuels, T. Gonzales, K. McBeth, A. Yadav, J. Stark, C. Jon, R. Mosquera, Houston, TX, p.A2808
- 504 Airway Pressures and End-Expiratory CO₂ (EECO₂) in Neonates on High Flow Nasal Cannula (HFNC) Oxygen Therapy/Z.** Liew, A.C. Fenton, S. Harigopal, S. Gopalakaje, M. Brodlie, C.J. O'Brien, Newcastle, United Kingdom, p.A2809
- 505 Hyperlactatemia in Critically Ill Children/J.S.** Baird, C. Breton, T.M. Ravindranath, N.V. Dorrello, A.J. Smerling, New York, NY, p.A2810
- 506 A Randomized Controlled Trial of Bubble CPAP in High Risk African Children with Severe Pneumonia/A.G.** Smith, M. Eckerle, T. Mvalo, E.D. McCollum, Salt Lake City, UT, p.A2811
- 507 Particle Size Characterization of Nebulized Albuterol Delivered by a Jet Nebulizer Through Pediatric Endotracheal Tubes/A.** Berlinski, S. Kumaran, Little Rock, AR, p.A2812
- 508 Albuterol Delivery Efficiency During Non-Invasive Ventilation in a Model of a Spontaneously Breathing Child/J.** Velasco, A. Berlinski, Little Rock, AR, p.A2813
- 509 Impaired Pulmonary Function After Congenital Cardiac Surgery/P.S.** Adams, T.E. Corcoran, D. Weiner, M.R. Czachowski, A. Saville, S.A. Walczak, O. Khalifa, M. Zahid, J.-H. Lin, Y. Domnina, B. Blasiole, P.M. Callahan, K. Nguyen, A. Phadke, M. Sharma, J. Sanchez-de-Toledo, C.W. Lo, Pittsburgh, PA, p.A2814
- 510 Functional Status Assessment of Heterotaxy and Non-Heterotaxy Congenital Heart Disease Children/A.** Bangoura, M.M. Pollack, O. Khalifa, R. McCarter, R. Vithana, C.W. Lo, L. Leatherbury, Washington, DC, p.A2815
- 511 Systemic Inflammatory Response Syndrome Criteria and Mortality in Children: Time for a New Definition?/C.** Peters, M. Gorges, S. Murthy, N. Kissoon, Vancouver, Canada, p.A2816
- 512 Evaluation of the Augmented Infant Resuscitator (AIR): A Monitoring Device for Neonatal Bag-Valve-Mask Resuscitation/D.** Bennett, C. Chenelle, T. Itagaki, R. Kacmarek, Boston, MA, p.A2817
- 513 Markers of Endothelial Injury and Immune Activation Effectively Risk-Stratify Acute Febrile Syndromes in African Children/A.** Leligdowicz, A.L. Conroy, M. Hawkes, S. Shiboski, K. Zhong, S. Namasopo, W.C. Liles, K.C. Kain, Toronto, Canada, p.A2818
- 514 Prediction of Need for Extracorporeal Life Support Within 48 Hours of Cardiac Surgery in Infants Up to 6 Weeks of Age/G.** Kuraim, D. Garros, A.R. Joffe, F. Moradi, L. Ryerson, G. Garcia Guerra, I. Dinu, G. Bond, C.M. Robertson, Edmonton, Canada, p.A2819
- 515 Outcomes of Young Infants Having Extracorporeal Life-Support Within 48 Hours of Cardiac Surgery/G.** Kuraim, D. Garros, A.R. Joffe, F. Moradi, L. Ryerson, G. Garcia Guerra, I. Dinu, G. Bond, C.M. Robertson, Edmonton, Canada, p.A2820
- 516 Metabolomics and Inflammatory Protein-Mediator Profiling for Early Diagnosis and Triage of Sepsis in Children Under 2 Years Old/B.** Mickiewicz, G. Thompson, J. Blackwood, C.N. Jenne, B. Winston, H.J. Vogel, A.R. Joffe, Calgary, Canada, p.A2821
- 517 Heart Rate Variability Measures from 24-Hour Holter Monitoring in Congenital Central Hypoventilation Syndrome (CCHS): Correlations Between Physiological Impairment and Polyalanine Repeat Length in the Paired-Line Homeobox 2B Gene/M.S.** Carroll, G. Webster, D.E. Weese-Mayer, Chicago, IL, p.A2822
- 518 The Feasibility and Potential Benefit of Using a Computerized Real Time Effort Driven Patient Ventilator Management Protocol for Children with ARDS/R.G.** Khemani, J. Hotz, C.J.L. Newth, Los Angeles, CA, p.A2823
- 519 Reliability of Automatic Analysis to Quantify Patient-Ventilator Asynchrony in Critically Ill Children/G.** Mortamet, L. Ducharme-Crevier, S. Essouri, C. Sinderby, J. Beck, G. Emeriaud, Montreal, Canada, p.A2824
- 520 Pulmonary Function Tests in Children Ventilated for Acute Hypoxemic Respiratory Failure/P.C.** Vaidya, S. Chakdour, S. Kumar, M. Jayashree, M. Singh, S. Singhi, Chandigarh, India, p.A2825
- 521 Silent Pulmonary Aspiration Due to Viral Lower Respiratory Tract Infection with Acute Respiratory Failure Associated with Prematurity and Patent Ductus Arteriosus/K.** McBeth, C.S. Bell, K. Smith, A. Yadav, R. Mosquera, C. Jon, W. De Jesus Rojas, J. Stark, Houston, TX, p.A2826
- 522 Safety of a Novel, Physiologic Approach to Pediatric High - Frequency Oscillatory Ventilation/M.C.J.** Kneyber, P. De Jager, T. Kamp, S. Dijkstra, J. Burgerhof, Groningen, Netherlands, p.A2827
- 523 Comparison of the Dose Response Changes to Effort and Work-of-Breathing Parameters in an Animal Model of Extrathoracic Upper Airway Obstruction/R.C.** Flink, R.G. Khemani, J. Hotz, P. Ross, C.J.L. Newth, Amsterdam, Netherlands, p.A2828
- 524 A Multicenter Review of High Frequency Oscillatory Ventilation in the Pediatric Hematopoietic Cell Transplant Recipient with Lung Injury/C.M.** Rowan, J.C. Fitzgerald, S.J. Gertz, A. Loomis, J.A. McArthur, M.E. Nitu, D.D. Hsing, C.N. Duncan, K.M. Mahadeo, L.S. Smith, J. Moffet, M.W. Hall, E. Pinos, R. Tamburro, I.M. Cheifetz, Indianapolis, IN, p.A2829
- 525 Nitric Oxide Produced in a Miniaturized Endotracheal Injector by Pulsed Electrical Discharge Induces Pulmonary Vasodilation in Rabbits/B.** Yu, M. Ferrari, G. Schleifer, A.H. Blaesi, D.B. Bloch, W.M. Zapol, Boston, MA, p.A7598



POSTER DISCUSSION SESSION

A108 LITTLE RED CLOT: NEW FRONTIERS IN THE MANAGEMENT OF ACUTE AND CHRONIC THROMBOEMBOLIC DISEASE

2:15 p.m. - 4:15 p.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 9-10 (Level M2)

Poster Viewing

2:15-3:00

Discussion

3:00-4:15

Chairing: K.N. Goss, MD, Madison, WI
T.M. Bull, MD, Aurora, CO
R.N. Channick, MD, Boston, MA

- 1001 Dysfunctional Endothelial Cells in Patients with Chronic Thromboembolic Pulmonary Hypertension/O. Tura-Ceide, V. Smolders, L. Piccari, N. Aventin, C. Moren, T. Paul, J. Garcia-Lucio, I. Blanco, V.I. Peinado, N. Chamorro, M. Castella, J.A. Barbera, Barcelona, Spain, p.A2830**
- 1002 Discordance Between Imaging Modalities in the Evaluation of Chronic Thromboembolic Pulmonary Hypertension: A Single Center Experience/D. Furfaro, J. Azadi, T. Houston, T.M. Kolb, R.L. Damico, P.M. Hassoun, S. Mathai, Baltimore, MD, p.A2831**
- 1003 Chronic Thromboembolic Disease Without Pulmonary Hypertension - a Single Surgical Centre's Experience/E.M. Swietlik, D. Taboada, A. Ruggiero, E. Bales, L. Harlow, A. Fletcher, J. Cannon, K. Sheares, D. Jenkins, J. Pepke-Zaba, M. Toshner, Cambridge, United Kingdom, p.A2832**
- 1004 Fibrinogen Properties Help Predict Residual Pulmonary Vascular Obstruction After Pulmonary Embolism: Results from the Prediction of Residual Obstruction Manifested After Pulmonary Embolism Treatment (PROMPT) Study/B. Planquette, O. Sanchez, J. Marsh, P. Chiles, J. Emmerich, G. La Gal, G. Meyer, T. Wolfson, T.A. Morris, Paris, France, p.A2833**
- 1005 Treatment of Right Heart Thrombi Associated with Acute Pulmonary Embolism/D. Barrios, J. Chavant, D. Jimenez, L. Bertoletti, V. Rosa-Salazar, A. Muriel, A. Viallon, C. Fernandez-Capitan, R.D. Yusen, M. Monreal, Madrid, Spain, p.A2834**
- 1006 Optimum Duration and Dose of r-tPA with the Acoustic Pulse ThromboLYSis ProcEdure for Intermediate-Risk (Submassive) Pulmonary Embolism: OPTALYSE PE/V.F. Tapson, G. Piazza, S.Z. Goldhaber, K. Sterling, K. Ouriel, P.-Y. Liu, Los Angeles, CA, p.A2835**
- 1007 Histological and Immunohistological Predictors of Physiological Outcome in Pulmonary Artery Thromboendarterectomy Specimens/G. Eng, J. Rodriguez-Lopez, R.N. Channick, R. Kradin, Boston, MA, p.A2836**
- 1008 Presentations and Outcomes of Acute Pulmonary Embolism in the Elderly/J. Filopei, E.E. Bondarsky, S. Kolman, D. Sampat, S. Acquah, N. Ramesh, A. Chakravarti, D. Steiger, New York, NY, p.A2837**

- 1009 Assessment of Blood Coagulation Disorders in Pulmonary Arterial Hypertension/E. Vrigkou, A. Tsantes, A. Anthi, D. Konstantonis, M. Kontogiorgi, A. Pappas, S. Orfanos, A. Armaganidis, I. Tsagkaris, Athens, Greece, p.A2838**
- 1010 Performance of the Revised Geneva Score in Evaluation for Pulmonary Embolism at a Cancer Hospital/P.P. Patel, N. Hosseini, S. Brauer, D. Korenstein, K. Juluru, A.J. Plodkowski, K. Sepkowitz, A.I. Geyer, New York, NY, p.A2839**
- 1011 Development of a Claims-Based Algorithm to Identify Patients with Chronic Thromboembolic Pulmonary Hypertension/S. Teal, W. Auger, R.J. Hughes, K.S. Lewis, D.R. Ramey, J. Fabian, Berlin, Germany, p.A2840**
- 1012 Effect of Balloon Pulmonary Angioplasty on Right Ventricular Afterload in Chronic Thromboembolic Pulmonary Hypertension/C. Gerges, M. Gerges, N. Skoro-Sajer, R. Sadushi-Kolici, I. Campean, B. Moser, S. Taghavi, W. Klepetko, H. Matsubara, I.M. Lang, Vienna, Austria, p.A2841**
- 1013 Predictors of Right Ventricular Reversibility After Balloon Pulmonary Angioplasty in Chronic Thromboembolic Pulmonary Hypertension/R. Asano, T. Ogo, S. Fukui, A. Tsuji, J. Ueda, N. Konagai, Y. Morita, T. Fukuda, S. Yasuda, Suita, Japan, p.A2842**
- 1014 Portable Ventilation/Perfusion (V/Q) Scanning Is Useful for Evaluating Clinically Significant Pulmonary Emboli in the ICU Despite Abnormal Chest Radiography/A.S. Weinberg, W. Chang, G. Ih, A. Waxman, V.F. Tapson, Los Angeles, CA, p.A2843**
- 1015 Contrast Enhanced Computed Tomography and the Presence of Intra-Thoracic Air/S. Chandrarathne, W. Khan, H. Jones, R. Owen, D. Vethanayagam, Edmonton, Canada, p.A2844**
- 1016 Gender-Specific Cardiopulmonary Exercise Testing Indexes Related to Hemodynamic Parameters in Chronic Thromboembolic Pulmonary Hypertension/T.-X. Chen, P. Yuan, P. Bigyan, S.-G. Gong, J. Rong, L. Wang, R. Zhang, Q.-H. Zhao, J.-M. Liu, Shanghai, China, p.A2845**
- 1017 Comprehensive Evaluation of the Effectiveness and Safety of Balloon Pulmonary Angioplasty for Inoperable Chronic Thromboembolic Pulmonary Hypertension - Long-Term Effects and Procedure-Related Complications/T. Aoki, K. Sugimura, S. Tatebe, M. Miura, S. Yamamoto, N. Yaoita, H. Suzuki, H. Sato, K. Kozu, R. Konno, K. Nochioka, K. Satoh, H. Shimokawa, Sendai, Japan, p.A7599**

POSTER DISCUSSION SESSION

A109 HIGHLIGHTS IN PULMONARY REHABILITATION: ILD, ADJUNCTS, AND INSPIRATORY MUSCLE TRAINING

2:15 p.m. - 4:15 p.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 1-2 (Level M2)

Poster Viewing

2:15-3:00

Discussion

3:00-4:15



- Chairing:** C.L. Rochester, MD, New Haven, CT
M.A. Spruit, PhD, PT, Horn, Netherlands
D. Langer, PhD, PT, Leuven, Belgium
- 801 Prevalence and Predictors of Sarcopenia in Fibrotic Interstitial Lung Disease/S.A. Guler, S.A. Lear, S.A. Hur, P.G. Camp, C.J. Ryerson, Vancouver, Canada, p.A2846**
- 802 Sarcopenia and Frailty in Patients with Idiopathic Pulmonary Fibrosis/M. Maddocks, C.M. Nolan, V. Delogu, R.E. Barker, S. Patel, J.L. Canavan, S.E. Jones, S. Kon, T. Maher, W. Man, London, United Kingdom, p.A2847**
- 803 Validity, Responsiveness and Minimum Clinically Important Difference of the Incremental Shuttle Walk Test in Idiopathic Pulmonary Fibrosis/V. Delogu, C.M. Nolan, M.D. Palmer, S. Patel, R.E. Barker, J.L. Canavan, S.E. Jones, S.S. Kon, M. Maddocks, T.M. Maher, P. Cullinan, W.D.-C. Man, Harefield, United Kingdom, p.A2848**
- 804 The King's Brief Interstitial Lung Disease Questionnaire: Response to Pulmonary Rehabilitation and Minimal Important Difference/R.E. Barker, C.M. Nolan, V. Delogu, S. Patel, M. Maddocks, T.M. Maher, P. Cullinan, S. Birring, W. Man, Harefield, United Kingdom, p.A2849**
- 805 Daily Physical Activity Levels in Idiopathic Pulmonary Fibrosis (IPF) and Chronic Obstructive Pulmonary Disease (COPD): A Propensity Matched Analysis/S. Patel, C.M. Nolan, V. Delogu, R.E. Barker, J.L. Canavan, S.E. Jones, S.S. Kon, M. Maddocks, T.M. Maher, P. Cullinan, W.D.-C. Man, Harefield, United Kingdom, p.A2850**
- 806 Nocturnal Non Invasive Ventilation as an Adjunct for Pulmonary Rehabilitation in Patients with Very Severe COPD - a Randomized Controlled Trial/T. Schneeberger, A. Stegmann, U. Schoenheit-Kenn, I. Jarosch, R. Gloeckl, T. Kohnlein, K. Kenn, Schoenau am Koenigssee, Germany, p.A2851**
- 807 Comparison of the Adjunctive Effects of Tai Chi and Pulmonary Rehabilitation on the Effect of Indacaterol in Treatment Naive Patients with COPD/M.I. Polkey, Z. Qiu, L. Zhou, Y. He, S. Ye, M. Jiang, M. Zhu, Y. Chen, Y. Wu, B. He, B. Mehta, N. Zhong, Y. Luo, London, United Kingdom, p.A2852**
- 808 Effect of Tai Chi Combined with Conventional Pulmonary Rehabilitation in Patients with Chronic Obstructive Pulmonary/J. Min, B. Mao, Y.-L. Huang, Y. Pan, D.-H. Chen, W. Xiao, J.J. Fu, P.M. Yu, J.H. Su, Chengdu, Sichuan, China, p.A2853**
- 809 Effects of 3-Months Whole-Body Vibration Training on Muscle Strength, Lung Function Parameters, Health-Related Quality of Life and Markers of Inflammation in Patients with Interstitial Lung Disease at Three Different Centers for Lung Research (DZL) in Ger/R. Koczulla, J. Koelpin, F. Kaufhold, C. Vogelmeier, F.J.F. Herth, T. Boeselt, P. Alter, C. Kahler, M. Veith, T. Greulich, M. Kreuter, Marburg, Germany, p.A2854**
- 810 Comparison of Two Demand Oxygen Delivery Systems (Liquid Oxygen Versus Concentrator) During Walking in Hypoxemic COPD Patients - Preliminary Results of a Randomized, Single-Blinded, Cross-Over Trial/R. Gloeckl, I. Jarosch, T. Schneeberger, M. Lausen, C. Fiedler, K. Kenn, Schoenau am Koenigssee, Germany, p.A2855**

- 811 Automatically Adjusted Oxygen Flow Rates (FreeO2) Optimizes Oxygenation and Improves Walking Distance During Exercise in Hypercapnic O2-Dependent Chronic Obstructive Pulmonary Disease (COPD)/I. Vivodtzev, E. L'Her, G. Vottero, C. Yankoff, A. Grangier, V. Mayer, D. Veale, F. Maltais, F. Lellouche, J.L. Pepin, Grenoble, France, p.A2856**
- 812 Positive End-Expiratory Pressure Attenuates Acute Hemodynamic Effects Induced by the Overload of Inspiratory Muscles in COPD Patients/F.C. Schaper-Magalhaes, J.F. Pinho, C.A.B. Capurro, M.G. Rodrigues-Machado, Belo Horizonte, Brazil, p.A2858**
- 813 Hyperinflation in COPD Patients Is Reduced with Inspiratory Muscle Training and Pulmonary Rehabilitation/M.R. Windt, M.R. Yanus, C. Rice, North Hampton, NH, p.A2859**
- 814 Effect of Inspiratory Muscle Training on Respiratory Muscle Function and Diaphragm Activation in Patients with COPD/S. Dacha, D. Langer, C. Ciavaglia, K. Webb, M. Preston, D.E. O'Donnell, Leuven, Belgium, p.A2860**
- 815 Effects of Combined Cycle Ergometer and Inspiratory Muscle Training in Patients with Stable Chronic Obstructive Pulmonary Disease/X. Chen, P. Luo, Y. Chen, Y. Huang, K. Wang, Y. Hu, W. Xu, Guangzhou, China, p.A2861**

RAPID: RAPID ABSTRACT POSTER DISCUSSION

A110 ADVANCES IN THORACIC ONCOLOGIC DIAGNOSTICS

2:15 p.m. - 4:15 p.m. **MARRIOTT MARQUIS WASHINGTON**

Marquis Ballroom 3-4 (Level M2)

Abstract Summaries 2:15-2:45
Poster Viewing/Discussion 2:45-4:15

- Chairing:** J.L. Bessich, MD, New York, NY
J. Puchalski, MD, New Haven, CT
D.H. Serman, MD, New York, NY
A. Vachani, MD, MS, Philadelphia, PA
- 901 Broncho-Adventitial Delivery of Paclitaxel to Extend Airway Patency in Malignant Airway Obstruction (BROADWAY Trial)/C. Mallow, J. Thiboutot, A. Lerner, R. Semaan, B. Salwen, H. Lee, D.J. Feller-Kopman, K. Seward, L. Yarmus, Baltimore, MD, p.A2862**
- 902 Impact of Computerized Tomographic (CT) Bronchus Sign on the Diagnostic Yield of Guided Bronchoscopies for Peripheral Pulmonary Lesions/M.S. Ali, D. Mohanane, A.S. Ali, B. Mba, R.A. Franco, Milwaukee, WI, p.A2863**
- 903 PET-CT Scan Standard Uptake Value Correlation with EBUS-TBNA Tumor Load in Primary Adenocarcinoma of the Lung/P.M. Lee, S. Sayeed, A. Sweatt, A. Kraft, C. Kong, A.W. Sung, L. Kang, A. Wiles, S. Shojaaee, R. Malhotra, R.W. Shepherd, Richmond, VA, p.A2864**



- 904 **Bronchoscopic Peripheral Lung Nodule Navigation by a Novel Live Fluoroscopic Overlay Guidance Technology/S.P. Stoy, P.E. Whitten, A. Al-Zubaidi, K. Hogarth, Chicago, IL, p.A2865**
- 905 **ProLung Electro Pulmonary Nodule (EPN) Scan Vs. PET CT in the Evaluation of Solitary Pulmonary Nodules (SPN)/M. Bezzi, M. Innocenti, M. Trigiani, V. Luzzi, E. Torricelli, F. Leoncini, S. Romani, Florence, Italy, p.A2866**
- 906 **Clinical Relevance of Nodal Staging in Metastatic Lung Cancer: Is There a Difference Between Conventional Imaging Modalities and EBUS-TBNA?/P.S. Zhu, T. Vandemoortele, Montreal, Canada, p.A2867**
- 907 **Contamination of Needles Used for Endobronchial Ultrasound Guided Biopsies: Myth Confirmed/I.G. Berim, A. Colanta, A.I. Saeed, N. Jagan, C. Landeen, A. King, Omaha, NE, p.A2868**
- 908 **The Effect of Rapid On-site Evaluation on Diagnostic Yield for Peripheral Bronchoscopy Cases/K. Haas, A. Chen, St. Louis, MO, p.A2869**
- 909 **Jet Ventilation Reduces Peripheral Target Displacement During Electromagnetic Navigation Bronchoscopy/C. Parks, M. Morlan, R. Bechara, Newnan, GA, p.A2870**
- 910 **Comparison of Diagnostic Accuracy in Radial EBUS Transbronchial Lung Biopsy Under Navigation Versus CT-Guided Percutaneous Needle Biopsy: A Meta-Analysis/J.H. Chang, Y. Han, S.J. Kim, Y.J. Ryu, J.H. Lee, Seoul, Korea, Republic of, p.A2871**
- 911 **Optimal Biopsy-Site Localization for Image-Guided Endobronchial Ultrasound/W.E. Higgins, X. Zang, P.D. Byrnes, T. Kuhlengel, R. Cheirsilp, J. Toth, R. Bascom, University Park, PA, p.A2873**
- 912 **Direct Oblique Method: An Extremely Accurate Bronchoscopic Navigation Method with a General Purpose Medical Imaging Viewer/K. Yoshida, T. Adachi, M. Hasegawa, K. Iwamoto, T. Inoue, K. Miyake, Tokai-shi, Japan, p.A2874**
- 913 **Feasibility Study of Using 19G Needle for EBUS-TBNA: A Prospective-Randomized Comparison of 19G and 22G EBUS-Needles/F. Oezkan, C. Wolters, D. Franzen, T. Hager, S. Eisenmann, L. Freitag, K. He, G. Weinreich, K. Darwiche, Essen, Germany, p.A2875**
- 914 **Combining Pleuroscopy and Indwelling Pleural Catheter Placement: A Novel Technique/K. Harris, A.H. Alraiyes, S. Singh Dhillon, Valhalla, NY, p.A2876**
- 915 **Radiation-Induced Airway Injury: Risks, Complications, and the Role of Endobronchial Treatment. A Single-Center Experience/M.G. Sperry, E.M. Pickering, S.J. Feigenberg, A. Sachdeva, Baltimore, MD, p.A2877**
- 916 **Performance of Different Linear Endobronchial Ultrasound-Guided Transbronchial Aspiration Needles/C.R. Bellinger, D. LoVerde, E.F. Haponik, Winston-Salem, NC, p.A2878**
- 917 **Utility and Safety of EBUS-TBNA in Octogenarians/S. Gandotra, C.R. Bellinger, E.F. Haponik, Winston-Salem, NC, p.A2879**
- 918 **Effects of Sample Processing in Endobronchial Ultrasound TransBronchial Needle Aspiration (EBUS-TBNA) of Mediastinal Lymphadenopathy/C. Pan, S. Amirmalek, A. Ing, T. Saghaie, Sydney, Australia, p.A2880**
- 919 **Cost-Effectiveness of Electromagnetic Navigational Bronchoscopy and CT-Guided Transthoracic Needle Biopsy for Diagnosis of Pulmonary Nodules, with Consideration of Diagnostic Efficacy and Complications/H. Desai, J.A. Akulian, A. Belanger, M.P. Rivera, L. Bacchus, B. Murdock, P. Molina, E. Pamuklar, K. Birchard, Chapel Hill, NC, p.A2881**
- 920 **Predictors of Successful Bronchoscopic Treatment for Bronchial Carcinoid/E.M.B.P. Reuling, C. Dickhoff, P.W. Plaisier, V.M.H. Coupe, A. Mazairac, R.J. Lely, J.H. Bonjer, H.J.M.A. Daniels, Amsterdam, Netherlands, p.A2882**
- 921 **Feasibility of PD-L1 Expression Testing in Non-Small Cell Lung Cancer from EBUS-TBNA Samples/J.M. Lee, J.S. Kim, J.J. Heymann, C. Pagan, J.P. Crapanzano, L. Fazlollahi, M. Haghighi, M.B. Stoopler, J.R. Sonett, A.G. Sacher, C.A. Shu, N.A. Rizvi, W.A. Bulman, A. Saqi, New York, NY, p.A2883**
- 922 **Diagnostic Yield of the Cytology Brush When Used with Ultrathin Bronchoscope in the Evaluation of Peripheral Lung Lesions/A. Biswas, D. Becnel, P.S. Sriram, Gainesville, FL, p.A2884**
- 923 **A Novel Endobronchial Ultrasound Aspiration Technique Associated with Improved Diagnostic Yield/K. Dischert, R. Tejedor, S.P. Kantrow, New Orleans, LA, p.A2885**
- 924 **Feasibility of PD-L1 Expression Testing in Non-Small Cell Lung Cancer from Pleural and Pericardial Effusion Samples/J.S. Kim, J.J. Heymann, C. Pagan, J.P. Crapanzano, L. Fazlollahi, M. Haghighi, M.B. Stoopler, J.R. Sonett, A.G. Sacher, C.A. Shu, N.A. Rizvi, W.A. Bulman, A. Saqi, New York, NY, p.A2886**
- 925 **Pleural Effusion Biomarkers and Computed Tomography Findings in Diagnosing Malignant Pleural Mesothelioma: A Retrospective Study in a Single Center/T. Otoshi, Y. Kataoka, S. Ikegaki, E. Saito, H. Matsumoto, S. Kaku, M. Shimada, M. Hirabayashi, Amagasaki, Japan, p.A7600**



4:30 p.m. - 5:45 p.m.

**RESPIRATORY HEALTH AWARDS PRESENTATION OF THE AMBERSON LECTURE,
TRUDEAU MEDAL AND DISTINGUISHED ACHIEVEMENT AWARDS**

WALTER E. WASHINGTON CONVENTION CENTER
Hall E (Middle Building, Level 2)

Amberson Lecture

The Amberson Lecturer is an individual with a career of major lifetime contributions to clinical or basic pulmonary research and/or clinical practice. The Lecture is given in honor of James Burns Amberson, an international authority on chest disease and tuberculosis.

Lecturer: Peter D. Pare, MD, Vancouver, Canada

Lecturer Title: The Smoking Gun: Genetics and Genomics Reveals Causal Pathways for COPD

Trudeau Medal

The Trudeau Medalist is an individual with lifelong major contributions to prevention, diagnosis and treatment of lung disease through leadership in research, education, or clinical care. This award was established in 1926 and is given in honor of Edward Livingston Trudeau, a founder and the first president of the American Lung Association.

Awardee: Sharon I.S. Rounds, MD, Providence, RI

Distinguished Achievement Awards

The Distinguished Achievement Award is given to individuals who have made outstanding contributions to fighting respiratory disease through research, education, patient care, or advocacy.

Awardees: Jack Gauldie, DSc, PhD, Hamilton, Canada

Steven D. Shapiro, MD, Pittsburgh, PA

6:30 p.m. - 8:30 p.m.

ASSEMBLY MEMBERSHIP MEETINGS

The fourteen Assemblies are the primary groups of the American Thoracic Society. Each Assembly holds an annual Membership Meeting at the International Conference. All Assembly members and other interested individuals are invited to attend. The Assembly Membership Meetings provide an update on the Assembly's activities via the Assembly's Leadership and provide Assembly members the chance to have input on future directions, information on how to get involved and networking opportunities. Voting results for the Assembly's future leaders will also be announced. The Assembly Membership Meetings will be held on Monday, May 22, 5:00 p.m. - 7:00 p.m., with the exception of the Assemblies on Behavioral Science and Health Services Research and Pediatrics (see below.)

**BEHAVIORAL SCIENCE
AND HEALTH SERVICES RESEARCH**

RENAISSANCE WASHINGTON DOWNTOWN
Grand Ballroom South (Ballroom Level)

Chairing: Christopher H. Goss, MD, MSc, Seattle, WA
This meeting will be held on Sunday, May 21st

PEDIATRICS

RENAISSANCE WASHINGTON DOWNTOWN
Grand Ballroom Central (Ballroom Level)

Chairing: James Chmiel, MD, MPH, Cleveland, OH
This meeting will be held on Sunday, May 21st

6:30 p.m. - 8:30 p.m.

SECTION MEMBERSHIP MEETING

The Section meetings are open to all ATS members and other interested individuals. Items to be discussed include the Sections' current projects and future directions.

GENETICS AND GENOMICS

RENAISSANCE WASHINGTON DOWNTOWN
Renaissance Ballroom A (Ballroom Level)

Chairing: Craig P. Hersh, MD, MPH, Boston, MA
Blanca E. Himes, PhD, Philadelphia, PA

TERRORISM AND INHALATION DISASTERS

RENAISSANCE WASHINGTON DOWNTOWN
Meeting Room 4 (Meeting Room Level)

Chairing: Sadis Matalon, PhD, Sc.D. (Hon.), Birmingham, AL
Carl W. White, MD, Denver, CO



7:00 p.m. – 9:00 p.m.

STRATEGIES FOR TB CONTROL: POSTER SESSION

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 1-2 (Level M2)

Sponsored by:

U.S. CENTERS FOR DISEASE CONTROL AND
PREVENTION STOP TB USA

This public health poster forum will focus on innovative techniques, which are helping to meet the challenges of TB control, prevention, and elimination in the United States. Specific topics include: targeted TB testing and treatment of latent TB infection; conducting/expanding contact investigations; performing outbreak investigations; improving treatment adherence; addressing multi-drug-resistant TB; dealing with TB related to HIV/AIDS; providing TB education; and building TB-related coalitions.

Target Audience:

National, state and local TB program staff, public health professionals (nurses, physicians, epidemiologists), pulmonary specialists, infectious disease specialists, TB and HIV clinicians, epidemiologists, TB consultants, laboratory scientists, and microbiologists.

Chairing: N. Shah, MD, Richmond, CA
K. Schmidt, MPH, Atlanta, GA




ATS 2017

*Where today's science
meets tomorrow's care™*

International Conference

Washington, DC

Monday Morning, May 22

CLINICAL

PEDIATRIC CLINICAL CORE CURRICULUM

CME Credits Available: 1

MOC Points Available: 1

PCC2 PEDIATRIC CLINICAL CORE CURRICULUM

Pediatric Core Curriculum Working Group

7:00 a.m. - 8:00 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Ballroom B (South Building, Level 3)

Target Audience

Pediatric pulmonary and critical care physicians who work in a clinical setting and are currently engaged in maintenance of certification

Objectives

At the conclusion of this session, the participant will be able to:

- remain current with medical knowledge relevant to their practice in pediatric pulmonology;
- evaluate their understanding of key skills and content areas in pediatric pulmonology as well as receive feedback on their comprehension of a result of a pre-test/post-test comparison;
- support clinicians who are engaged in maintenance of certification activities by providing updates on subjects included in recertification requirements.

The Pediatric Core Curriculum symposia promote lifelong learning and the enhancement of the clinical judgment and skills essential for practicing pediatrician. The symposia will address topics that have been identified by an ATS pediatric working group, which is comprised of members of the ATS Education Committee and the International Conference Committee, who have identified important areas within pediatric medicine (including severe asthma, ILD, BPD, pulmonary hypertension and pulmonary manifestations of pulmonary disease). Attendees will increase their medical knowledge as a result of attending this symposium, and this will be measured by a comparison of pre-test vs. post-test results on the corresponding maintenance of certification module. The ATS Pediatric Core Curriculum will focus on a 3-year content cycle of key medical content in the area of pediatric medicine.

Chairing: J.E. Pittman, MD, MPH, St. Louis, MO

7:00 **ILD: Approaches to Evaluation and Diagnosis**
T.J. Vece, MD, Chapel Hill, NC

7:30 **ILD: Management and Treatment**
A.M.H. Casey, MD, Boston, MA

SUNRISE SEMINARS

CME Credits Available: 1

 **Registration Fee: \$50.00 (includes continental breakfast.)**
Attendance is limited. Pre-registration is required.

7:00 a.m. - 8:00 a.m. MARIOTT MARQUIS WASHINGTON

- SS101 MINING FOR GOLD: PERFORMING AND INTERPRETING QUALITATIVE RESEARCH**
M.N. Eakin, PhD, Baltimore, MD
L.J. Hinkle, MD, Indianapolis, IN
George Washington University (Level M1)
- SS102 OBSTRUCTIVE AND RESTRICTIVE PULMONARY DYSFUNCTION AFTER HEMATOPOIETIC CELL TRANSPLANTATION**
G. Cheng, MD, Seattle, WA
Georgetown University (Level M1)
- SS103 SARCOIDOSIS PHENOTYPES: EMERGING SCIENCE AND CLINICAL APPLICATION**
W.E. James, MD, Charleston, SC
Howard University (Level M1)
- SS104 DIAGNOSTIC DILEMMAS IN ADULT BRONCHIECTASIS: IS THIS CF? A CASE-BASED DISCUSSION**
K.S. Miller, MD, Meridian, ID
Gallaudet University (Level M1)
- SS105 AN UPDATE IN THE DIAGNOSIS AND MANAGEMENT OF MYOSITIS-ASSOCIATED ILD**
R. Jablonski, MD, Chicago, IL
Catholic University (Level M1)
- SS106 EVIDENCE-BASED CONSIDERATIONS IN DIAGNOSIS AND TREATMENT OF FIBROTIC HYPERSENSITIVITY PNEUMONIA**
M. Salisbury, MD, Ann Arbor, MI
University of DC (Level M1)
- SS107 CLINICAL APPROACH TO THE PATIENT WITH PNEUMOTHORAX**
N.A. Maskell, MD, Bristol, United Kingdom
Marquis Salon 14 (Level M2)
- SS108 BRINGING PATIENTS WITH INTERSTITIAL DISEASE INTO THE DISCUSSION: STRATEGIES FOR EFFECTIVE PATIENT EDUCATION**
J. Morisset, MD, Montreal, Canada
Marquis Salon 13 (Level M2)
- SS109 CHALLENGES AT THE CHECKPOINT: PULMONARY TOXICITIES FROM ANTI-PD-1 AND ANTI-CTLA-4 IMMUNOTHERAPIES**
J.D. Possick, MD, New Haven, CT
Marquis Salon 12 (Level M2)
- SS110 TRANSLATING CLINICAL PRACTICE GUIDELINES INTO QUALITY IMPROVEMENT AND PERFORMANCE MEASURES**
I. Barbash, MD, Pittsburgh, PA
Union Station (Level M3)



- SS111 ECMO IN ACUTE RESPIRATORY FAILURE: OPTIMIZING OUTCOMES AND CLINICAL MANAGEMENT**
C. Agerstrand, MD, New York, NY
Chinatown (Level M3)
- SS112 UPDATE ON RESPIRATORY HEALTH CONSEQUENCES OF THE WORLD TRADE CENTER DISASTER**
D. Pradhan, MD, New York, NY
Mount Vernon Square (Level M3)
- SS113 ENDEMIC MYCOSES OF NORTH AMERICA**
C.A. Hage, MD, Indianapolis, IN
Judiciary Square (Level M3)
- SS114 WHO'S WHO? RECOGNIZING THE MANY FACES OF PULMONARY HYPERTENSION**
J.A. Mazurek, MD, Philadelphia, PA
LeDroit Park (Level M3)
- SS115 ASSESSING AND TREATING SLEEP DISORDERS IN CHRONIC LUNG DISEASE AND THE ROLE OF PULMONARY REHABILITATION**
X. Soler, MD, PhD, San Diego, CA
Shaw (Level M3)
- SS116 PRENATAL AIR POLLUTION EXPOSURE AND PROGRAMMING OF RESPIRATORY OUTCOMES**
A. Lee, MD, MS, New York, NY
Treasury (Level M4)
- SS117 HOW CAN WE IMPROVE CLINICAL IDENTIFICATION OF DRIVING RISK IN OSA PATIENTS?**
A. Vakulin, PhD, Adelaide, Australia
Mint (Level M4)
- SS118 PULMONARY COMPLICATIONS OF CANCER IMMUNOTHERAPY**
T. Peikert, MD, Rochester, MN
Supreme Court (Level M4)

FACULTY DEVELOPMENT SEMINAR

FD1 DEMYSTIFYING "WHAT YOU WANT TO BE WHEN YOU GROW UP"

 Pre-registration is required. Attendance is limited. There is no additional fee.

7:00 a.m. - 8:00 a.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 101 (South Building, Street Level)

Target Audience

Clinical and research fellows, post-doctoral fellows, residents, and junior faculty in the early stages of a career in academic pulmonary, allergy, critical care, and/or sleep medicine

Objectives

At the conclusion of this session, the participant will be able to:

- identify career opportunities in academic settings, private practice, and industry research;
- understand the differences between tenure track and non-tenure track pathways within academic medicine'

- understand how expectations of performance and benchmarks for promotion vary depending on career path.

Graduate and postgraduate trainees and early career faculty must choose from a variety of career tracts and settings, but may have little exposure to the breadth of career opportunities that exist or the different expectations and benchmarks that define success within these different career paths. The goal of this session is to bring together representatives from the worlds of academic medicine, private medical practice, and industry research for an interactive panel discussion that will allow the attendee to explore the options that exist for career development through a moderated interaction between the panel discussants and the attendees.

Chairing: J.C. Horowitz, MD, Ann Arbor, MI

Speakers: M. Gyetko, MD, Ann Arbor, MI
T. Hartert, MD, MPH, Nashville, TN
C. Baleeiro, MD, Chattanooga, TN
T.R. Martin, MD, East Hanover, NJ
P. Rowe, MD, Bridgewater, NJ

BASIC • CLINICAL • TRANSLATIONAL

ATS KEYNOTE SERIES

CME Credits Available: .75

The Keynote Series provides state of the art lectures on selected topics in an unopposed format to showcase major discoveries in pulmonary, critical care and sleep medicine. The speakers have been chosen by input from the members and various ATS committees with consensus built via the ATS executive committee.

K3 TOWARD ELIMINATING ALL HARMS

8:15 a.m. - 9:00 a.m. WALTER E. WASHINGTON CONVENTION CENTER
East Salon A-C (South Building, Street Level)

Speaker: P. Pronovost, MD, PhD, Baltimore, MD

This session will be chaired by M. Moss, MD, Aurora, CO

K4 CYSTIC FIBROSIS LUNG DISEASE: LOOKING BACK AND LOOKING FORWARD

8:15 a.m. - 9:00 a.m. WALTER E. WASHINGTON CONVENTION CENTER
West Salon G-I (South Building, Street Level)

Speaker: M. Welsh, MD, Iowa City, IA

This session will be chaired by D. Gozal, MD, Chicago, IL

This session and the International Conference are supported by an educational grant from Vertex Pharmaceuticals, Inc.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.



CLINICAL

YEAR IN REVIEW

CME Credits Available: 2

MOC Points Available: 2

Nursing Contact Hours Available: 2.4

B1 CLINICAL YEAR IN REVIEW 2

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Hall E (Middle Building, Level 2)

Target Audience

Providers including physicians; registered nurses; advanced practice nurses; respiratory therapists; physician assistants; trainees including residents and fellows; clinical researchers

Objectives

At the conclusion of this session, the participant will be able to:

- apply new clinical research knowledge to clinical practice;
- describe new strategies for managing the care of common conditions in pulmonary, critical care, and sleep;
- apply new findings regarding key conditions in pulmonary, critical care and sleep.

The annual Clinical Year in Review symposia topics are reviews of key clinical research publications over the last year. Each speaker is asked to review the 5-7 most important and influential publications on their topic in the prior year.

Chairing: D.J. Lederer, MD, MS, New York, NY
D.W. Ford, MD, MSCR, Charleston, SC
V.E. Ortega, MD, PhD, Winston-Salem, NC

- 9:15 ILD**
T.J. Corte, MBBS, BSc(Med), PhD, Sydney, Australia
- 9:45 Asthma**
E. Bleecker, MD, Winston-Salem, NC
- 10:15 COPD**
M.K. Han, MD, MS, Ann Arbor, MI
- 10:45 Pulmonary Vascular Diseases**
A.R. Hemnes, MD, Nashville, TN

This session and the International Conference are supported by educational grants from Actelion Pharmaceuticals US, Inc., AstraZeneca LP, Teva Pharmaceuticals. All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

BEHAVIORAL • CLINICAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

MOC Points Available: 2

Nursing Contact Hours Available: 2.4

B2 THE LONG-TERM OXYGEN TREATMENT TRIAL (LOTT): IMPLICATIONS FOR COPD PATIENT CARE

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Ballroom A (South Building, Level 3)

Target Audience

All those interested in the detailed use of supplemental oxygen in the largest group of COPD patients ever examined, including registered nurses and advanced practice nurses.

Objectives

At the conclusion of this session, the participant will be able to:

- state the results of the long-term oxygen treatment trial;
- discuss the rationale for the development of the long-term oxygen treatment trial;
- identify the issues that affect compliance with oxygen in COPD patients.

Long-term oxygen therapy is one of the most common therapies that COPD patients receive. There have been no studies of significance being conducted in the last 30 years examining use of supplemental oxygen in COPD patients. The National Heart Lung Blood Institute long-term oxygen treatment trial is the largest and longest trial ever conducted examining the feasibility and effectiveness of oxygen supplementation in patients with COPD. Specifically it provides little information regarding the use of supplemental oxygen in patients with mild to moderate hypoxia at rest or with normoxia and desaturation only with exercise.

Chairing: G.J. Criner, MD, Philadelphia, PA
W.C. Bailey, MD, Birmingham, AL
A.L. Fuhlbrigge, MD, Aurora, CO

- 9:15 Rationale for the Long-Term Oxygen Treatment Trial (LOTT)**
R.A. Wise, MD, Baltimore, MD
- 9:30 Design of the Long-Term Oxygen Treatment Trial**
J. Cooper, MD, Birmingham, AL
- 9:45 Methods and Data Analysis of the Long-Term Oxygen Treatment Trial**
F.C. Sciruba, MD, Pittsburgh, PA
- 10:00 Main Outcomes of the Long-Term Oxygen Treatment Trial**
G.J. Criner, MD, Philadelphia, PA
- 10:15 Types of Devices and Compliance with O2 Therapy in LOTT**
A.L. Fuhlbrigge, MD, Aurora, CO
- 10:30 PRO: Oxygen Therapy Benefits Patients with Mild to Moderate Hypoxemia at Rest and Those with Desaturation on Exertion Only**
F.J. Martinez, MD, New York, NY
- 10:40 Con: Oxygen Therapy Benefits Patients with Mild to Moderate Hypoxemia at Rest and Those with Desaturation on Exertion Only**
R.D. Yusen, MD, MPH, St. Louis, MO
- 10:50 Rebuttal**
F.J. Martinez, MD, New York, NY
- 10:55 Rebuttal**
R.D. Yusen, MD, MPH, St. Louis, MO
- 11:00 Panel Discussion**
G.J. Criner, MD, Philadelphia, PA
W.C. Bailey, MD, Birmingham, AL
A.L. Fuhlbrigge, MD, Aurora, CO

This session and the International Conference are supported by an educational grant from AstraZeneca LP.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.



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SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

B3 THE CANCER MOONSHOT: ATS = MISSION CONTROL FOR LUNG CANCER

Assemblies on Thoracic Oncology; Clinical Problems; Respiratory Cell and Molecular Biology

9:15 a.m. - 11:15 a.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 6 (Level M2)

Target Audience

All clinicians who care for patients with lung cancer and other thoracic malignancies; all researchers, using multiple methodologies, who are involved with thoracic malignancy research

Objectives

At the conclusion of this session, the participant will be able to:

- identify the critical role the NCI Moonshot will play in cancer detection and treatment research for years to come;
- recognize research gaps in detecting and treating lung cancer;
- foster multifaceted collaborations across the lung cancer research and clinical care continuum.

The ATS is a vital partner in NCI's Cancer Moonshot. Soon, lung cancer care and research will be characterized by molecular diagnosis and targeted treatment and will be personalized, safe, effective and affordable. This symposium will highlight three areas along the lung cancer continuum that are most relevant for ATS members including 1) prevention and screening, 2) nodules and early detection, and 3) development of novel therapies to treat early stage disease. Each speaker will discuss at least one Moonshot focus including, early cancer detection, immunotherapy and combination therapies, genomic profiling of tumor and surrounding cells, and enhanced data sharing.

Chairing: V.C. Broaddus, MD, San Francisco, CA
N.T. Tanner, MD, MSCR, Charleston, SC
M.M. Fuster, MD, San Diego, CA
P. Mazzone, MD, MPH, Cleveland, OH

9:15 Introduction to the NCI's Cancer Moonshot
D. Lowy, MD, Bethesda, MD

9:37 Lung Cancer Prevention: The Launch Pad for the Moonshot
R.L. Keith, MD, Denver, CO

9:51 Lung Cancer Screening: The Booster Rockets for the Moonshot
L. Kinsinger, MD, MPH, Washington, DC

10:05 Lung Cancer Early Detection and Biomarkers: The Fuel for the Moonshot
P. Nana-Sinkam, MD, Richmond, VA

10:19 Lung Cancer Screening and Pulmonary Nodule Evaluation: How Do We Help Everyone Who Wants to Go to the Moon Get There and Back Safely?
M.K. Gould, MD, MS, Pasadena, CA

10:33 Lung Cancer Immunotherapy: Building a Force-Field of Protection
S. Dubinett, MD, Los Angeles, CA

10:47 Lung Cancer, Lung Injury, and Lung Repair: Don't Forget the Toolbox

M. Konigshoff, MD, PhD, Aurora, CO

11:01 Lung Cancer Treatment: The VALOR Lunar Module
D. Moghanaki, MD, MPH, Richmond, VA

BEHAVIORAL • CLINICAL

CRITICAL CARE TRACK

CME Credits Available: 2

MOC Points Available: 2

Nursing Contact Hours Available: 2.4

B4 HUMANIZING THE INTENSIVE CARE UNIT: NEW PERSPECTIVES ON AN OLD PROBLEM

Assemblies on Critical Care; Behavioral Science and Health Services Research

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 146 A-B (Middle Building, Street Level)

Target Audience

All clinicians, registered nurses and advanced practice nurses who practice in an intensive care unit

Objectives

At the conclusion of this session, the participant will be able to:

- introduce novel ways to address advance care planning and communication in the ICU.
- define and recognize psychological contributions to Post-intensive Care Syndrome in ICU Patients and Family Members.
- describe practical approaches to facilitating humanization of the ICU, including development of Patient Advisory councils.

The new frontiers of critical care emphasize the potential impact on patients and their loved ones of a critical illness, including long-lasting negative physical and psychological outcomes. The ICU has been clinician-centered in the past, but there is an increasing desire to make the ICU more patient and family-centered. This session explores many of the necessary components of a more humane, patient and family-centered ICU, using research and pioneering new perspectives to reframe the experience of the ICU. Three of the objectives of the session are to increase understanding of critical care physicians regarding important long term outcomes after critical illness; provide attendees with tools to implement interventions in their ICU; change the structure of guidance through the process of shared decision making.

Chairing: E. Hirshberg, MD, MS, Salt Lake City, UT
E.K. Kross, MD, Seattle, WA
W.D. Schweickert, MD, Philadelphia, PA

9:15 A Patient's Perspective
S. East, Bossier City, LA

9:20 The Psychology of Dehumanization
R.O. Hopkins, PhD, Murray, UT

9:35 Evidence-Based Communication in the ICU
J.R. Curtis, MD, MPH, Seattle, WA



9:50	Personalized Care During Serious Illness: Rebooting Advance Care S.M. Brown, MD, MS, Murray, UT
10:05	Facilitated Sensemaking and Post-Intensive Care Syndrome in Family Members J. Davidson, DNP, RN, San Diego, CA
10:20	Creating Lasting Collaboration: Patient-Family Advisory Councils B. Sarnoff Lee, MSW, LICSW, Boston, MA
10:35	The Experience of Humanization in Resource-Limited Settings W. Siika, MD, Nairobi, Kenya
10:50	Let Them In: Family Presence in the ICU S.J. Beesley, MD, Salt Lake City, UT
11:05	General Discussion

BASIC • CLINICAL • TRANSLATIONAL

BASIC SCIENCE CORE

CME Credits Available: 2

B5 SMOKERS WITH PRESERVED SPIROMETRY: EARLY COPD?

Assemblies on Respiratory Structure and Function; Clinical Problems; Environmental, Occupational and Population Health; Respiratory Cell and Molecular Biology

9:15 a.m. - 11:15 a.m.

MARRIOTT MARQUIS WASHINGTON

Independence Ballroom E-H (Level M4)

Target Audience

Professionals with clinical and/or research responsibilities; basic, applied and clinical scientists, respiratory therapists/technologists, population health scientists

Objectives

At the conclusion of this session, the participant will be able to:

- learn new findings about clinical features as well as physiological abnormalities in smokers with normal spirometry;
- gain better insight into the limitations of spirometry in the identification of abnormalities in these patients;
- gain new strategies to manage the care of smokers with normal spirometry and a better understanding of their prognoses.

Despite the known health effects of tobacco smoking, a large proportion of smokers have preserved spirometry, and only a third go on to develop chronic obstructive pulmonary disease. This symposium focuses on the latest research on smokers, with evidence of abnormalities in some despite normal spirometric lung function, whether it is possible to identify those at risk of future lung function decline, and whether they warrant clinical intervention.

This will be a unique opportunity to draw together exciting recent data ranging from large cohort studies such as SPIROMICS and COPDGene, imaging studies, to sophisticated tests of small airway function, and cellular and molecular changes in this population within a larger context.

Chairing: D.D. Sin, MD, Vancouver, Canada
C. Thamrin, PhD, Glebe, Australia
C. Farah, MBBS, PhD, Sydney, Australia

9:15	Why Should We Care About “Early” COPD? D.D. Sin, MD, Vancouver, Canada
9:30	Smokers with Preserved Spirometry: Results from COPDGene M.K. Han, MD, MS, Ann Arbor, MI
9:45	Smokers with Preserved Spirometry: What We Know from the SPIROMICS Study P.G. Woodruff, MD, MPH, San Francisco, CA
10:00	Small Airways and Ventilation in Smokers with Preserved Spirometry G. King, MBChB, PhD, St. Leonards, Australia
10:15	Reduced Diffusion Capacity in Smokers with Preserved Spirometry R.G. Crystal, MD, New York, NY
10:30	Role of Environmental Influences and Inflammation in “Early” COPD M.R. Stampfli, PhD, Hamilton, Canada
10:45	Should We Be Treating “Early” COPD? N. Berend, MD, Sydney, Australia
11:00	Panel Discussion

This session and the International Conference are supported by an educational grant from AstraZeneca LP.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

MOC Points Available: 2

B6 MECHANICAL VENTILATION IN THE NICU, PICU AND AT HOME: WHAT THE PEDIATRIC PULMONOLOGIST SHOULD KNOW

Assemblies on Pediatrics; Clinical Problems; Critical Care; Pulmonary Circulation; Pulmonary Rehabilitation; Respiratory Structure and Function

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Ballroom C (South Building, Level 3)

Target Audience

Pediatric pulmonologists; pediatric critical care specialists; neonatologists; respiratory therapists; advanced practice nurses; registered nurses; nurse practitioners; physician assistants caring for patients with acute or chronic respiratory failure

Objectives

At the conclusion of this session, the participant will be able to:

- identify the best ventilatory strategies for the management of acute respiratory failure in neonates;
- gain knowledge of the the interaction of the respiratory and cardiovascular systems in acute and chronic respiratory failure;



- gain understanding in the ways of maximizing the effectiveness and minimizing the side effects of chronic mechanical ventilation.

Pediatric pulmonologists are consulted routinely on patients admitted to the Neonatal and Pediatric Intensive Care Units, and they usually assume full responsibility for those who require prolonged or chronic mechanical ventilator support at home. However, controversies persist regarding the physiologic basis and supportive clinical data for selecting ventilator strategies and how to optimize acute and long-term outcomes in children with acute and chronic respiratory failure. In addition, pediatric fellowship programs from diverse fields of pulmonary, critical care and neonatology, often lack sufficient training in specific approaches towards mechanical ventilation. This session intends to provide a comprehensive review of the currently available ventilators and the strategies one can employ for the introduction, management and weaning off mechanical ventilation. Special emphasis will be given to patients with special conditions such as preterm and term infants with diverse forms of acute respiratory failure; bronchopulmonary dysplasia; pulmonary hypertension; congenital heart disease; airway problems (e.g. tracheobronchomalacia and neuromuscular disorders). Recent guidelines from the ATS on home mechanical ventilation as well as pediatric pulmonary hypertension provide additional and timely information for this session as well.

Chairing: A.C. Koumbourlis, MD, MPH, Washington, DC
S.H. Abman, MD, Aurora, CO

9:15 The Role of the Pediatric Pulmonologist in the Care of Mechanically Ventilated Patients

A.C. Koumbourlis, MD, MPH, Washington, DC

9:25 Modalities for Invasive and Non-Invasive Ventilatory Support: Indications and Limitations

C.J.L. Newth, MBChB, Los Angeles, CA
A.C. Koumbourlis, MD, MPH, Washington, DC

9:45 Ventilatory Strategies for Acute Respiratory Failure in Preterm and Term Infants

A. Greenough, MD, MBBS, London, United Kingdom

10:05 Ventilatory Strategies for Infants with Established BPD and Pulmonary Hypertension

S.H. Abman, MD, Aurora, CO

10:25 Choosing Ventilatory Support for Patients with Neuromuscular Disorders

G. Perez, MD, Washington, DC

10:45 Caring of and Weaning the Ventilated Child at Home

A. Halbower, MD, Aurora, CO

11:05 Round Table Discussion

A.C. Koumbourlis, MD, MPH, Washington, DC
S.H. Abman, MD, Aurora, CO
C.J.L. Newth, MBChB, Los Angeles, CA
A. Greenough, MD, MBBS, London, United Kingdom
G. Perez, MD, Washington, DC
A. Halbower, MD, Aurora, CO

BEHAVIORAL • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

B7 FROM RESEARCH TO BEDSIDE: OPTIMIZING WELL-BEING THROUGH INTEGRATIVE THERAPY

Assemblies on Nursing; Behavioral Science and Health Services Research; Critical Care; Pulmonary Rehabilitation

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 102 A-B (South Building, Street Level)

Target Audience

Providers of lung health, those with clinical or research interests in Integrative Therapies, including registered nurses and advanced practice nurses

Objectives

At the conclusion of this session, the participant will be able to:

- critically examine the use of integrative therapies: mindfulness, music, Tai-Chi;
- discuss the issues surrounding the safety and efficacy of nutritional supplements as viewed from the FDA;
- describe the safety, efficacy, care coordination and research needs of integrative therapies.

Holistic care through appropriate integration of complementary therapy has the potential to optimize health and well-being for patients with chronic lung disease. To maximize integrative therapies' benefits while reducing potential harm, critical appraisal and relevant application of popular complementary therapies is needed. In addition to addressing this "bench to bedside" paradigm, the session will begin from patients' perspective that will expand its scope to international perspective with regards to complementary therapy practice.

Chairing: T.T. Von Visger, MSN, CNS, CCNS, PCCN, Columbus, OH
N. Liang, MD, San Diego, CA

9:15 Patient Education/A Patient's Perspective

V. Sharma, PhD, Oakland, CA

9:35 Mindfulness for Patients with COPD

R. Benzo, MD, MSc, Rochester, MN

9:55 Music Intervention in Critically Ill Patients

L.L. Chlan, PhD, RN, Rochester, MN

10:15 Tai Chi Practice for Patients with Pulmonary Conditions

M.L. Moy, MD, MSc, Boston, MA

10:35 NIH Funding for Integrative Therapy Research

L.M. Mudd, PhD, Bethesda, MD

10:55 Integrative Therapy Use and Practice: International Perspective

J. Adams, PhD, Sydney, Australia

There will be a 5-minute discussion after each talk.



BEHAVIORAL • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

B8 REALIZING THE PARIS CLIMATE AGREEMENT TO IMPROVE CARDIO-PULMONARY HEALTH: WHERE SCIENCE MEETS POLICY

Assemblies on Environmental, Occupational and Population Health; Allergy, Immunology and Inflammation; Behavioral Science and Health Services Research; Clinical Problems; Critical Care; Microbiology, Tuberculosis and Pulmonary Infections, Pediatrics; Environmental Health Policy Committee; International Health Committee

9:15 a.m. - 11:15 a.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Room 147 A-B (Middle Building, Street Level)

Target Audience

Clinicians, researchers and practitioners focused on the prevention and treatment of respiratory and/or cardiovascular disease.

Objectives

At the conclusion of this session, the participant will be able to:

- create a science policy forum where scientists and Washington policymakers can have a bi-directional dialogue to improve future interactions;
- educate ATS members and others as to the potential human health benefits of climate mitigation;
- inspire ATS members and others to get involved in enhancing the role of science and medicine in Washington policy making.

Climate change has been described by the Lancet Commission as “the greatest public health opportunity of the 21st Century.” This scientific symposium will objectively examine this opportunity with a focus on cardio-pulmonary health and public policy. The symposium will open with the perspective of a physician from Cameroon discussing the effects of climate change on the health of people in Africa. A series of speakers will review evidence of cardio-pulmonary health effects of greenhouse gas emissions and climate change, and identify vulnerable populations. Finally, a former EPA administrator and U.S. Senator will discuss challenges and opportunities of the 2015 Paris Climate Agreement for physicians, scientists and patients.

Chairing: M.B. Rice, MD, MPH, Boston, MA
K.E. Pinkerton, PhD, Davis, CA
G.D. Thurston, DSc, Tuxedo, NY

9:15 Climate Change in Africa: A Physician’s Perspective from Cameroon

M.M. Nganda, MD, Douala, Cameroon

9:20 Understanding Climate Science and Policy: What Doctors Should Know

M.B. Rice, MD, MPH, Boston, MA

9:40 Air Pollution Health Effects of Energy Sources: Which Are the Most Toxic?

G.D. Thurston, DSc, Tuxedo, NY

9:55 Hot Temperatures and Ground-Level Smog: Who Is Most Likely to Die?

J. Schwartz, PhD, Boston, MA

10:15 Effects of Climate Change on Children and Adults with Asthma

K.C. Nadeau, MD, PhD, Stanford, CA

10:35 Public Health, Climate Change, and the EPA: What’s Next?

C. Browner, JD, Washington, DC

10:55 Making the Paris Agreement a Reality: Challenges and Opportunities

S. Whitehouse, JD, U.S. Senator, RI

There will be a 5-minute discussion after each talk.

BEHAVIORAL • CLINICAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

B9 GAMING THE SYSTEM OR SAVING LIVES: PAY FOR PERFORMANCE IN THE 21ST CENTURY

Assemblies on Behavioral Science and Health Services Research; Clinical Problems; Critical Care; Environmental, Occupational and Population Health; Nursing

9:15 a.m. - 11:15 a.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Room 204 A-C (South Building, Level 2)

Target Audience

Clinicians, researchers, and administrators seeking to understand pay for performance and its impact on clinical practice

Objectives

At the conclusion of this session, the participant will be able to:

- learn about theories behind P4P from a clinical and payer perspective;
- gain new strategies to deploy P4P initiatives at their local institutions, particular to ATS conditions, to improve the care delivered to patients;
- learn about pitfalls related to P4P, particular to ATS conditions.

With the growing prominence of quality improvement, an associated emphasis has been on pay for performance. However, despite billions of dollars spent, it is unclear how efficacious these interventions are in improving care. In this session, attendees will hear from experts on innovative research regarding pay for performance: effectiveness, evidence of “gaming” and unintended consequences, and the future of incentivized health care as it pertains to ATS conditions. This is especially pertinent given ATS ownership over COPD quality measures along with the recent deployment of sepsis core measures. Attendees will learn about the recent evidence and practical implications behind these initiatives.

Chairing: S. Govindan, MD, Ann Arbor, MI
A.S. Gershon, MD, MSc, Toronto, Canada
B. Patel, MD, Houston, TX

9:15 ICU Quality Metrics in the U.K.: Past Experience and Implications for P4P

K. Rowan, PhD, MSc, London, United Kingdom

9:35 To Game or Not to Game: Unintended Consequences of Pay for Performance

C.R. Cooke, MD, MSc, Ann Arbor, MI

9:55 P\$P: The Payer Perspective

R. Duseja, MD, MS, Woodland, MD



- 10:15 Sepsis Core Measures: In Need of Resuscitation?**
J. Stevens, MD, Boston, MA
- 10:35 Back to Basics: Are Comprehension and Efficacy of Quality Metrics Linked?**
S. Govindan, MD, Ann Arbor, MI
- 10:55 P4P and QI: A Call to Arms**
M. Howell, MD, MPH, Chicago, IL

BEHAVIORAL • CLINICAL • TRANSLATIONAL**SCIENTIFIC SYMPOSIUM**

CME Credits Available: 2

B10 SEPSIS GOES TO WASHINGTON: REGULATIONS, DEFINITIONS, AND RESEARCH SHAPING THE FUTURE OF SEPSIS

Assemblies on Critical Care; Behavioral Science and Health Services Research; Clinical Problems; Nursing

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 145 A-B (Middle Building, Street Level)

Target Audience

Pulmonary and critical care, emergency room, and hospital physicians, trainees, researchers, administrators, nurses, and other clinicians interested in learning how new regulations, definitions, and research will shape the future of sepsis

Objectives

At the conclusion of this session, the participant will be able to:

- understand the goals of the SEP-1 measure and its potential impact on patient care;
- learn how the new sepsis definitions and technology can be merged to perform more effective clinical trials;
- discover how new research will bring more personalized care of patients with sepsis in the future.

The recent CMS SEP-1 core measure, Sepsis-3 definitions, and cutting edge research will shape the future of sepsis over the coming years. This session will reflect the unique location of the annual International ATS Conference this year by including talks discussing the development and future of SEP-1, the concerns voiced by major societies regarding this measure, and how the readmission reduction programs can be leveraged to improve the lives of sepsis survivors. The session will also highlight how the new sepsis definitions could impact future clinical trial design and bedside care. Finally, new research that will bring precision medicine to septic patients will be discussed.

Chairing: M.M. Churpek, MD, MPH, PhD, Chicago, IL
M. Mikkelsen, MD, MSCE, Philadelphia, PA
R.C. Hyzy, MD, Ann Arbor, MI

- 9:15 A Patient's Perspective**
C. Lentz, Highlands Ranch, CO
- 9:20 Improving Sepsis Care through CMS Core Measures: The Development and Future of SEP-1**
S. Townsend, MD, San Francisco, CA
- 9:39 Should We Stand Behind SEP-1? Concerns from Major Societies and How We Can Do Better**
R.C. Hyzy, MD, Ann Arbor, MI

- 9:58 It's Not Just About the ICU: The Potential Impact of SEP-1 and New Sepsis Definitions on Patients in the ED and on the Wards**
M.M. Churpek, MD, MPH, PhD, Chicago, IL
- 10:17 The Future of Sepsis Clinical Trials: Merging the New Definitions and Novel Clinical Trial Methods to Perform More Effective Studies**
C.W. Seymour, MD, MSc, Pittsburgh, PA
- 10:36 Bringing Precision Medicine to Sepsis: Emerging Methods to Personalize Sepsis Care**
N.J. Meyer, MD, MS, Philadelphia, PA
- 10:55 The Evolution of Sepsis Performance Metrics: From 3- and 6-Hour Bundles to the New Frontier of Hospital Readmission and Longer-Term Mortality**
M. Mikkelsen, MD, MSCE, Philadelphia, PA

There will be a 5-minute discussion after each talk.

BASIC • CLINICAL • TRANSLATIONAL**SCIENTIFIC SYMPOSIUM**

CME Credits Available: 2

B11 THE LUNG ENDOTHELIUM PRO/CON SESSION: THE KEY CULPRIT IN CHRONIC LUNG DISEASE

Assemblies on Respiratory Cell and Molecular Biology; Pulmonary Circulation

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 5 (Level M2)

Target Audience

Basic, translational and clinical scientists as well as clinicians

Objectives

At the conclusion of this session, the participant will be able to:

- understand the contribution of endothelium to a range of lung processes;
- identify the existing controversies and complexities in cell focused studies in the lung;
- identify new opportunities for cell-based lung studies.

Although the endothelium is well-recognized to be a critical component of acute lung injury and lung cancer, its role in chronic lung disease remains controversial. We will have experts in their respective fields present lively, opposing points of view, based on their investigations as well as the general literature, to help elucidate the issues with the goal of informing and elucidating the pathogenetic, diagnostic and therapeutic aspects of a range of lung diseases.

Chairing: P.J. Lee, MD, New Haven, CT
I. Petrache, MD, Denver, CO
E.R. Neptune, MD, Baltimore, MD

- 9:15 PRO: The Endothelium Is Key to COPD**
M. Sauler, MD, New Haven, CT
- 9:25 CON: The Endothelium Is NOT Key to COPD**
A.O. Yildirim, PhD, Neuherberg, Germany
- 9:40 PRO: The Endothelium Is Key to ILD**
B. Shea, MD, Providence, RI



- 9:55 CON: The Endothelium Is NOT Key to ILD**
E. Herzog, MD, PhD, New Haven, CT
- 10:10 PRO: The Endothelium Is Key to Pulmonary Hypertension**
H. Chun, MD, New Haven, CT
- 10:25 CON: The Endothelium Is NOT Key to Pulmonary Hypertension**
T. Stevens, PhD, Mobile, AL
- 10:40 PRO: The Endothelium Is Key to Asthma**
K. Asosingh, PhD, Cleveland, OH
- 10:50 CON: The Endothelium Is NOT Key to Asthma**
P.A. Verhoef, MD, PhD, Chicago, IL
- 11:00 General Discussion**

This session and the International Conference are supported by educational grants from Actelion Pharmaceuticals US, Inc, AstraZeneca LP, Teva Pharmaceuticals.

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BEHAVIORAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

B12 THE IMPORTANCE OF TECHNOLOGY IMPLEMENTATION IN RESPIRATORY CARE AND PUBLIC HEALTH

Drug/Device Discovery and Development Committee; Assembly on Behavioral Science and Health Services Research

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 202 B (South Building, Level 2)

Target Audience

Researchers and clinicians interested in integrating drugs, devices and technologies into health systems and practice

Objectives

At the conclusion of this session, the participant will be able to:

- understand the relative importance of implementation technology as a critical step following discovery and development;
- appreciate the value of disciplines and competencies overlooked in the bridge from discovery to public health;
- gain understanding of the examples of cutting edge technology that failed to achieve their full health impact.

The session will use examples to highlight the importance of optimal implementation of technology (e.g. drugs, devices, procedures) following the journey of discovery and development. These examples will stress competencies and disciplines often overlooked in implementing advances in health science.

Chairing: T. Witek, DrPH, Toronto, Canada
T.F. Reiss, MD, New Hope, PA

9:15 Optimizing Integration of Respiratory Care Innovation
T. Witek, DrPH, Toronto, Canada

- 9:35 Humanomics Trumps Genomics: Very Practical Perspectives on Technology Implementation**
J.M. Fitzgerald, MB, MCh, BAO, MD, Vancouver, Canada
- 10:05 The Negative Impact of Human Behavior and Organizational Inertia on Maximizing Personalized Lung Cancer Care**
N. Leighl, MD, Toronto, Canada
- 10:35 Beyond Bronchodilators: What Is Missing in COPD Care**
B. R. Celli, MD, Boston, MA
- 10:55 Health Information Technology: Long on Promises but Still Very Short on Details**
J. Bourbeau, MD, montreal, Canada

BASIC • CLINICAL • TRANSLATIONAL

ATS PRESIDENT'S SYMPOSIUM

CME Credits Available: 2

B13 A POTPOURRI OF EPIGENETICS AND RESPIRATORY DISEASE

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 202 A (South Building, Level 2)

Target Audience:

Clinicians and researchers with interest in lung diseases

Objectives

At the conclusion of this session, the participant will be able to:

- understand potential determinants of lung disease heterogeneity;
- describe new findings on the role of epigenetics in several respiratory disorders and their manifestations and clinical course;
- understand potential new strategies to manage the morbidities of respiratory diseases.

This symposium will focus on the potential role of epigenetics in the epidemiology, clinical manifestations and phenotypic variance of several diseases affecting the respiratory system. The major aim is to bring to the fore of the discussion the potentially unique role of epigenetic modifications in better understanding the pathophysiology of respiratory disorders and the critical importance of such mechanisms as they may facilitate the long-term persistence of disease.

Chairing: D. Gozal, MD, MBA, Chicago, IL

9:15 Biological Aging and Air Pollution
A. Peters, MD, Munich, Germany

9:40 Senescence in COPD: Potential Role of Epigenetics
P.J. Barnes, MD, DSc, London, England

10:05 Epigenetics and the Human Asthma/COPD Continuum
D. Vercelli, MD, Tucson, AZ

10:30 Pulmonary Hypertension: An Epigenetic Target?
S. Archer, MD, Kingston, Canada

10:55 Sleep Apnea: Epigenetic Complications
D. Gozal, MD, MBA, Chicago, IL



LATE BREAKING MINI SYMPOSIUM

B14 CLINICAL TRIALS ACROSS PULMONARY DISEASE

9:15 a.m. - 11:15 a.m.

MARRIOTT MARQUIS WASHINGTON

Liberty Ballroom I-L (Level M4)

Late Breaking Mini Symposium

Chairing: S.K. Danoff, MD, PhD, Baltimore, MD
D.C. Files, MD, Winston-Salem, NC
N.H. Kim, MD, La Jolla, CA

Oral Presentations

- 9:15 Efficacy and Safety of Macitentan for Inoperable Chronic Thromboembolic Pulmonary Hypertension: Results from the Randomized Controlled MERIT Study/H.A. Ghofrani, G. Simonneau, A.M. D'Armini, P. Fedullo, N. Martin, L. Howard, X. Jais, D.P. Jenkins, Z.-C. Jing, M. Madani, E. Mayer, K. Papadakis, D. Richard, N.H. Kim, Giessen, Germany, p.A7601**
- 9:30 Mepolizumab for the Treatment of Patients with Eosinophilic Granulomatosis with Polyangiitis: A Phase III Randomized, Placebo-Controlled Trial/M.E. Wechsler, P. Akuthota, D. Jayne, P. Khoury, A. Klion, C. Langford, P.A. Merkel, F. Moosig, U. Specks, M.C. Cid, R. Luqmani, J. Brown, S. Mallett, R. Philipson, S. Yancey, J. Steinfeld, P.F. Weller, G. Gleich, Denver, CO, p.A7602**
- 9:45 AmbOx: A Randomised Controlled, Crossover Trial Evaluating the Effects of Ambulatory Oxygen on Health Status in Patients with Fibrotic Interstitial Lung Disease/D. Visca, L. Mori, V. Tsipouri, S. Canu, M. Bonini, M. Pavitt, S. Fleming, A. Firouzi, M. Farquhar, E. Leung, C. Hogben, A. De Lauretis, M. Kokosi, J.T. Lee, R. Lyne, N. Rippon, A. Chetta, A.M. Russell, P. Saunders, V. Kouranos, G. Margaritopoulos, T.M. Maher, A. Stockford, P. Cullinan, N. Hopkins, S. Birring, A.U. Wells, J. Whitty, W. Banya, H. Adamali, L. Spencer, P. Sestini, E.A. Renzoni, London, United Kingdom, p.A7603**
- 10:00 Inhaled Liposomal Ciprofloxacin in Patients with Bronchiectasis and Chronic Pseudomonas Aeruginosa Infection: Results from Two Parallel Phase III Trials (ORBIT-3 and -4)/C. Haworth, A. Wanner, J. Froehlich, T. O'Neal, A. Davis, I. Gonda, A. O'Donnell, Cambridge, United Kingdom, p.A7604**
- 10:15 Randomized Placebo-Controlled Trial of Inhaled Nitric Oxide to Improve Right Ventricular Function in Patients with Acute Submassive Pulmonary Embolism/J.A. Kline, A.E. Jones, M.A. Puskarich, R. Mastouri, E.E. Gundert, A.J. Perkins, T. Lahm, C.L. Hall, Indianapolis, IN, p.A7605**
- 10:30 PBI-4050 Is Safe and Well Tolerated and Shows Evidence of Benefit in Idiopathic Pulmonary Fibrosis/J. Parker, R. Sawtell, L. Gagnon, A. Hagerimania, P. Laurin, M. Kolb, J. Moran, Rockville, MD, p.A7606**
- 10:45 A Randomised, Double-Blind, Placebo-Controlled Trial to Compare the Early Administration of Simvastatin in the Prevention and Treatment of Delirium in Critically Ill Ventilated Patients (MoDUS Trial)/V.J. Page, A. Casarin, E.W. Ely, X.B. Zhao, C. McDowell, L. Murphy, D.F. McAuley, Watford, United Kingdom, p.A7607**

- 11:00 MK-7264, a P2X3 Receptor Antagonist, Reduces Cough Frequency in Patients with Refractory Chronic Cough: Results from a Randomized, Controlled, Phase 2b Clinical Trial/J.A. Smith, M.M. Kitt, A.H. Morice, S.S. Birring, L.P. McGarvey, M.R. Sher, A.P. Ford, Manchester, United Kingdom, p.A7608**

MINI SYMPOSIUM

B15 COPD EXACERBATIONS AND READMISSIONS

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 207 A-B (South Building, Level 2)

Chairing: S. Sethi, MD, Buffalo, NY
G.J. Criner, MD, Philadelphia, PA
J. Quint, MSc, PhD, London, United Kingdom

Featured Speaker

- 9:15 Is Optimized Treatment of Exacerbations Enough to Optimize Prevention of Readmissions?/D.H. Au, MD, MS, Seattle, WA,**

Oral Presentations

- 9:30 A Novel Real-Time Risk Predictor Model Created Using Electronic Health Data to Reduce COPD Readmissions/A. Fee-Mulhearn, P. Diaz, Columbus, OH, p.A2887**
- 9:45 Acute Exacerbations of COPD: Clinical History and Effect of Frequency and Severity on Risk of Death/K. Rothnie, H. Mullerova, J. Quint, London, United Kingdom, p.A2888**
- 10:00 The Use of a Standardized Order Set Reduces Systemic Corticosteroid Dose and Length of Stay for Individuals Hospitalized with Acute Exacerbations of COPD/S. Gulati, C. Wren, A.N. Zouk, M.K. Reischmann, P.N. Davison, D.P. Kirkpatrick, S.P. Bhatt, M. Dransfield, J.M. Wells, Birmingham, AL, p.A2889**
- 10:15 The Saint George's Respiratory Questionnaire Definition of Chronic Bronchitis Identifies More Subjects at Risk for Exacerbations than the Classic Definition and Is Stable Over Time: A Prospective Analysis of the SPIROMICS Cohort/V. Kim, W. O'Neal, A.A. Ford, E.E. Carretta, P.W. Jones, H. Zhao, G.J. Criner, M.K. Han, C. Martinez, E. Bleecker, W.H. Anderson, R.J. Kaner, C.B. Cooper, J. Curtis, N. Hansel, R. Paine, R.C. Boucher, M. Kesimer, R.G. Barr, S.I. Rennard, F.J. Martinez, S.A. Christenson, P.G. Woodruff, Philadelphia, PA, p.A2890**
- 10:30 COPD Exacerbation Frequency: Is It a Stable Subphenotype in High-Risk Patients?/D.P. Blagev, D.S. Collingridge, S. Rea, Murray, UT, p.A2891**
- 10:45 Anxiety and Depression, Either Alone or in Combination, Are Associated with Respiratory Exacerbations in Smokers with and Without COPD/M. Diamond, H. Zhao, H.F. Armstrong, M. Morrison, K.L. Bailey, E.E. Carretta, G.J. Criner, M.K. Han, E. Bleecker, C.B. Cooper, N. Hansel, R. Paine, R.G. Barr, S.I. Rennard, F.J. Martinez, P.G. Woodruff, C. Martinez, V. Kim, Philadelphia, PA, p.A2892**



11:00 A Retrospective Cohort Study Assessing the Impact of an Oscillating Positive Expiratory Pressure (OPEP) Device in Chronic Obstructive Pulmonary Disease (COPD) Patients with Chronic Bronchitis on Hospital Re-Admissions and Length of Stay/J. Suggett, V. Kushnarev, D. Coppolo, B. Carlin, London, Canada, p.A2893

MINI SYMPOSIUM

B16 CRITICAL CARE: NEW INSIGHTS FROM CLINICAL TRIALS

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 146 C (Middle Building, Street Level)

Chairing: M.S. Herridge, MD, MPH, Toronto, Canada
S.S. Carson, MD, Chapel Hill, NC
M.P. Kerlin, MD, Philadelphia, PA

Oral Presentations

- 9:15** One-Year Outcomes in Patients with Acute Respiratory Distress Syndrome Enrolled in a Trial of Helmet Versus Facemask Noninvasive Ventilation/B.K. Patel, K.S. Wolfe, E. MacKenzie, D. Salem, A.S. Pohlman, J.B. Hall, J.P. Kress, Chicago, IL, p.A2894
- 9:30** ACE Inhibitor for Lung Protection During Mechanical Ventilation for Acute Lung Injury- Results of the Double-Blind, Placebo Controlled, Randomised ACEmeVENT Pilot Study/H. Wirtz, D. Hasenclever, K. Schwabe, U. Jaschinski, A. Weyland, E. Kuhnt, N. Weiler, K. Zacharowski, S. Petros, G. Schulze, G. Marx, S. Bercker, A. Meier-Hellmann, T. Ostendorf, S. Hammerschmidt, Leipzig, Germany, p.A2895
- 9:45** Fluid Resuscitation Is Associated with Elevated Angiopoietin-2 and Length of Stay Following Cardiac Surgery/S. Bihari, R. Parke, D.L. Dixon, E. Gilder, E.C. Cavallaro, S. McGuinness, A.D. Bersten, Bedford Park, Australia, p.A2896
- 10:00** Ramped Position Versus Sniffing Position During Endotracheal Intubation of Critically Ill Adults: A Multicenter, Randomized Trial/M.W. Semler, D.R. Janz, D.W. Russell, J.D. Casey, R.J. Lentz, A.N. Zouk, B.P. DeBoisblanc, J.I. Santanilla, Y.A. Khan, A.M. Joffe, W.S. Stigler, T.W. Rice, Nashville, TN, p.A2897
- 10:15** Preventing Reintubation: Role of Stratification of High-Risk for Reintubation in the Selection of Appropriate Therapy A Post Hoc Analysis/G. Hernandez, C. Vaquero, L. Colinas, R. Cuenca, M.L. Rodriguez, O. Roca, J.R. Masclans, A. Canabal, Toledo, Spain, p.A2898
- 10:30** The Severe Alcohol Withdrawal Dexmedetomidine Utilization Study. (SAWDUST)/I.S. Douglas, K. Overdier, P. Alapat, B.P. DeBoisblanc, R.L. Raines, Denver, CO, p.A2899
- 10:45** Impact of Nocturnal Dexmedetomidine on Delirium Incidence and Sleep Quality in Critically Ill Adults: A Randomized, Double-Blind, Placebo-Controlled Trial/Y. Skrobik, J.W. Devlin, N.S. Hill, R.R. Riker, Montreal, Canada, p.A2900

11:00 Evaluation of a Web Based Intervention to Improve Adherence to Lung Protective Ventilation: The Lung Injury Knowledge Network (LINK)/G.D. Rubenfeld, V. Manoharan, D.C. Scales, S. Dev, E. Caldwell, Toronto, Canada, p.A7609

MINI SYMPOSIUM

B17 MYCOBACTERIAL HOST DEFENSES

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 143 A-C (Middle Building, Street Level)

Chairing: J.M. Keane, MD, Dublin, Ireland
M. Divangahi, PhD, Montreal, Canada

Oral Presentations

- 9:15** Inhaled Air Pollution Particulate Matter in Alveolar Macrophages Alters Local Pro-Inflammatory Cytokine and Peripheral IFN γ Production in Response to Mycobacterium Tuberculosis/Y. Gonzalez, C. Carranza, M. Iniguez, M. Torres, R. Quintana, A.R. Osornio-Vargas, C. Gardner, S. Sarkar, S. Schwander, Mexico City, Mexico, p.A2901
- 9:30** The Effect of Cigarette Smoking on microRNA Expression in Human Alveolar Macrophages Infected with Virulent M. Tuberculosis/S.M. O'Leary, L. McDermott, M.P. O'Sullivan, J.M. Keane, Dublin, Ireland, p.A2902
- 9:45** RNA-seq Analysis in Respiratory Epithelium Infected with Nontuberculous Mycobacteria/M. Matsuyama, A. Martins, A. Kashyap, O. Kamenyeva, S. Shallom, E.P. Sampaio, K.N. Olivier, A.M. Zelazny, S.M. Holland, Bethesda, MD, p.A2903
- 10:00** HSP90B1 Common Variants Are Associated with BCG-Specific T-Cell Responses and Protection from Pediatric TB Disease/A. Graustein, E.A. Misch, M. Musvosvi, M. Shey, J. Shah, R. Wells, W. Hanekom, M. Hatherill, T. Scriba, T. Hawn, Seattle, WA, p.A2904
- 10:15** The Injectable Contraceptive Medroxyprogesterone Acetate Decreases Peripheral Effector Cell-Mediated Mycobacterium Tuberculosis Containment Through Immunosuppression Involving the Glucocorticoid Receptor/M. Tomasicchio, G. Theron, M. Davids, A.S. Pooran, L. Smith, L. Semple, R. Meldau, J. Hapgood, K.U.J. Dheda, Cape Town, South Africa, p.A2905
- 10:30** Alpha-1-Antitrypsin Increases Autophagosome Number and Production of Host-Protective Cytokines in Mycobacterium Intracellulare-Infected Macrophages/E. Chan, A. Bai, C. Eichstaedt, N.Y. Hamzeh, R. Harbeck, J.R. Honda, A. Frazer-Abel, B. Kosmider, R. Sandhaus, X. Bai, Denver, CO, p.A2906
- 10:45** Matrix Metalloproteinase Driven Tissue Destruction in Human Tuberculosis Is Mediated by TH-17 Cytokines and the PI3K/p110 α /p70S6K Cascade/S. Singh, L. Saraiva, U.K. Singh, P.T. Elkington, J.S. Friedland, London, United Kingdom, p.A2907

Featured Speaker

11:00 Mycobacterial Host Defenses/Speaker To Be Announced



MINI SYMPOSIUM

B18 PEDIATRIC ASTHMA**9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER****Ballroom B (South Building, Level 3)**

Chairing: D. Rastogi, MD, Bronx, NY
 G. Perez, MD, Washington, DC
 C. Rosas-Salazar, MD, MPH, Nashville, TN

Oral Presentations

- 9:15 Infant to 3 Year Longitudinal Analysis of Lung Function Among Infant Wheeze Phenotypes in the Canadian Healthy Infant Longitudinal Development (CHILD) Birth Cohort/P.** Subbarao, C. Olesovsky, M. Emmerson, A. Dubeau, Z. Lu, B. Shen, K. Kowalik, F. Ratjen, T.J. Moraes, M. Sears, Toronto, Canada, p.A2908
- 9:30 Absence of Longitudinal Decline in Lung Volume in Children with Sickle Cell Anemia: SAC Multi-Center Prospective Cohort/S.W. Johnson, M. Rodeghier, F. Kirkham, S.S. Redline, C. Rosen, M. DeBaun, Nashville, TN, p.A2909**
- 9:45 The Role of Oxidative Stress in the Pathogenesis of Recurrent Wheeze in Children Following Infant Viral Respiratory Illnesses/C. Rosas-Salazar, T. Gebretsadik, G.L. Milne, K.N. Turi, L.J. Anderson, J.D. Chappell, E.K. Larkin, M.L. Moore, R.S. Peebles, T. Hartert, Nashville, TN, p.A2910**
- 10:00 Extracellular Matrix Generated by Human Lung Fibroblasts Co-Cultured with Asthmatic Airway Epithelial Cells Displays Enhanced Leukocyte Adhesion/S.R. Reeves, C.K. Chan, K. Barrow, I. Kang, T. Kolstad, M. White, T.N. Wight, J.S. Debley, Seattle, WA, p.A2911**
- 10:15 Severe Bronchiolitis Profiles and Risk of Developing Recurrent Wheezing by Age 2 Years/O. Dumas, K. Hasegawa, J. Mansbach, A.F. Sullivan, P.A. Piedra, C. Camargo, Villejuif, France, p.A2912**
- 10:30 Racial Disparities in Asthma-Related Health Outcomes in Children with Severe or Difficult-to-Treat Asthma/T. Guilbert, R.S. Zeiger, T. Haselkorn, A. Iqbal, D.R. Mink, B.E. Chipps, S.J. Szeffler, Cincinnati, OH, p.A2913**
- 10:45 Association Between Prenatal Ambient Nitrate Exposure and Onset of Child Asthma Is Modified by Maternal Stress in Pregnancy and Child's Sex: Project ACCESS/S. Bose, Y.-H.M. Chiu, H.-H.L. Hsu, Q. Di, I. Kloog, A. Wilson, J. Schwartz, R.O. Wright, B. Coull, R. Wright, New York, NY, p.A2914**
- 11:00 Prenatal Vitamin D Supplementation Reduces Risk of Asthma/Recurrent Wheeze in Early Childhood: A Meta-Analysis of Two Randomized Controlled Trials/B.L. Chawes, H. Wolsk, A.A. Litonjua, B.W. Hollis, K. Bonnelykke, J. Waage, H. Bisgaard, S. Weiss, Copenhagen, Denmark, p.A2915**

MINI SYMPOSIUM

B19 HOST RESPONSES TO INFLUENZA**9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS WASHINGTON****Independence Ballroom A-D (Level M4)**

Chairing: L. Kobzik, MD, Boston, MA
 K.M. Ridge, PhD, Chicago, IL

Oral Presentations

- 9:15 Murine Influenza Infection Generates Muc5b-Containing Honeycomb Cysts/J.S. Kurche, J.P. Huber, L.A. Hancock, C.E. Hennessy, A. Estrella, C. Evans, D.A. Schwartz, Aurora, CO, p.A2916**
- 9:30 SNP-Mediated Disruption of CTCF Binding at the IFITM3 Promoter Is Associated with Severe Influenza Risk in Humans/E. Allen, A. Randolph, T. Bhangale, P. Dogra, M. Ohlson, C. Oshansky, A. Zamora, J. Shannon, D. Finkelstein, A. Dressen, J. DeVincenzo, M. Caniza, B. Youngblood, C. Rosenberger, P. Thomas, Memphis, TN, p.A2917**
- 9:45 Influenza A-Induced Secondary Muscle Weakness in Aging Is Associated with Changes in Tissue-Resident Macrophages and Myogenic Progenitors/C.E. Runyan, E. Lecuona, L. Amarelle, P. Brazee, L.C. Welch, A.C. Mc Quattie-Pimentel, G.S. Budinger, A.V. Misharin, J.I. Sznajder, Chicago, IL, p.A2918**
- 10:00 Prevention of Lung Injury in Juvenile Influenza A Virus Infection/B.M. Coates, N. Ravindran, K.M. Ridge, Chicago, IL, p.A2919**
- 10:15 Post-Infection Treatment with Liponucleotides Attenuates H1N1 Influenza A Virus-Induced ARDS in Mice/I.C. Davis, L.M. Doolittle, P. Woods, L. Joseph, L. Rosas, Columbus, OH, p.A2920**
- 10:30 The Critical Role of a Disintegrin and Metalloprotease (ADAM) 10 During Severe Influenza Virus Infection In Vivo and In Vitro/S. Okamori, M. Ishii, T. Asakura, S. Suzuki, H. Kamata, H. Namkoong, K. Yagi, S. Kagawa, T. Kamo, T. Asami, K. Horiuchi, N. Hasegawa, T. Betsuyaku, Tokyo, Japan, p.A2921**
- 10:45 Influenza-Induced Interferon Signaling Decreases Epithelial Mitochondrial Bioenergetics/J. Brand, B. Chacko, V. Darley-Usmar, K.S. Harrod, Birmingham, AL, p.A2922**
- 11:00 Modulation of Lung Inflammation Ameliorates Influenza-Induced Mortality, Morbidity, and Lung Injury/S. Tundup, P. Jayaguru, A. Desmett, V. Raje, T. Harris, A. Kadl, Charlottesville, VA, p.A2923**

MINI SYMPOSIUM

B20 BIG DATA COMES TO SLEEP MEDICINE**9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER****Room 152 A-B (Middle Building, Street Level)**

Chairing: S. Parthasarathy, MD, Tucson, AZ
 S.S. Redline, MD, MPH, Boston, MA
 A. Pack, MBChB, PhD, Philadelphia, PA



Oral Presentations

- 9:15 Health Disparities in Adherence to Positive Airway Pressure Therapy: A Population Level Analysis/A. Pandey, S. Mereddy, D. Combs, S. Shetty, G. Jean-Louis, S. Parthasarathy, Tucson, AZ, p.A2924**
- 9:30 Obstructive Sleep Apnea in Pregnancy Is Associated with Adverse Maternal Outcomes: A National Cohort/G. Bourjeily, V. Danilack, D. Caldwell, J. Muri, Providence, RI, p.A2925**
- 9:45 Undiagnosed Sleep Disorders in African Americans: The Jackson Heart Study/D.A. Johnson, R. Wang, M. Rueschman, J. Wilson, S.S. Redline, Boston, MA, p.A2926**
- 10:00 Altitudinal Central Apneas and Adherence to Positive Airway Pressure Therapy/S. Mereddy, A. Pandey, D. Combs, S. Shetty, G. Jean-Louis, S. Parthasarathy, Tucson, AZ, p.A2927**
- 10:15 Trajectories of Central Sleep Apnea During Continuous Positive Airway Pressure and Association with Therapy Termination: A Big Data Analysis/H. Woehrle, D. Liu, J. Armitstead, A. Benjafield, A. Malhotra, P. Cistulli, J.-L. Pepin, Blaubeuren, Germany, p.A2928**
- 10:30 REM-Related Sleep Apnea and All-Cause Mortality/R.N. Aurora, J. Kim, C. Crainiceanu, N.M. Punjabi, Baltimore, MD, p.A2929**
- 10:45 Relationship of Air Pollution to Sleep Disruption: The Multi-Ethnic Study of Atherosclerosis (MESA) Sleep and MESA-Air Studies/M.E. Billings, D.R. Gold, P.J. Leary, A. Szpiro, C.P. Aaron, J.D. Kaufman, S.S. Redline, Seattle, WA, p.A2930**
- 11:00 Phenotyping from Polysomnography Predicts Obstructive Sleep Apnea Responses to Supplemental Oxygen Therapy/S.A. Sands, B.A. Edwards, P.I. Terrill, J.P. Butler, R.L. Owens, L. Taranto Montemurro, A. Azarbarzin, M. Marques, C. De Melo, D.P. White, A. Malhotra, A. Wellman, Boston, MA, p.A2931**

RAPiD: RAPID ABSTRACT POSTER DISCUSSION

B21 ALTERATIONS IN MICROBIOME AND VIROME IN LUNG DISEASE

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 151 B (Middle Building, Street Level)

Abstract Summaries 9:15-9:45

Poster Viewing/Discussion 9:45-11:15

Chairing: H.L. Twigg, MD, Indianapolis, IN
L.N. Segal, MD, New York, NY
R.P. Dickson, MD, Ann Arbor, MI

- 401 Correlation of Lung Microbiota with Metabolomic Profiles and Pulmonary Function Tests in Bronchoalveolar Lavage Fluid in HIV Infection/K. Uppal, A.M. Morris, V. Tran, L. Huang, L. Tipton, E. Ghedin, D.P. Jones, S.K. Cribbs, Atlanta, GA, p.A2932**
- 402 Lower Airway Microbiota Is Associated with Persistent Inflammation in the Lower Airways During Anti-Inflammatory Therapy with Inhaled Interferon-Gamma/M.B. Lesko, J. Wang, M.H. Badri, B. Kapoor, Y. Li, G.C. Smaldone, Z. Kurtz, R. Condos, L.N. Segal, New York, NY, p.A2933**

- 403 The Lung Microbiome Is Enriched with Gut Bacteria in a Sterile Model of Sepsis/S. Segar, N.R. Falkowski, E.M. Hunter, R.P. Dickson, Ann Arbor, MI, p.A2934**
- 404 Surfactant Protein D Deficiency Increases Survival After CLP by Regulating the Gut Microbiome/A. Arciniegas, J. Englert, C. Isabelle, L. Brown, M. Perrella, M. Cernadas, R. Baron, Boston, MA, p.A2935**
- 405 A Population Study of the Upper Airway Microbiota in Busselton, Western Australia/E. Turek, M.J. Cox, P. James, A.L. James, M. Hunter, B. Musk, M. Moffatt, W. Cookson, London, United Kingdom, p.A2936**
- 406 Effects of Short-Term Smoking Exposure on the Lung and Cecal Microbiomes in Mice/S.W. Ra, F.S. Leitao Filho, A. Tam, J. Yang, D.A. Ngan, J. Wright, A. Churg, M. Sze, J. Leung, S.P. Man, D.D. Sin, Ulsan, Korea, Republic of, p.A2937**
- 407 Exposures Related to the Microbiome in House Dust from a US Farming Population/M.K. Lee, M.U. Carnes, S. London, Research Triangle Park, NC, p.A2938**
- 408 Pulmonary Microbiome Is Influenced by Environmental Conditions and Asthmatic Status in an Equine Model of Asthma/M. Leclerc, G. Fillion-Bertrand, R. Boivin, J.-P. Lavoie, G. Huffnagle, R.P. Dickson, St-Hyacinthe, Canada, p.A2939**
- 409 Characterization of Lower Airway Microbiome and Its Correlation with Lung Cancer/H.-X. Liu, J.-M. Qu, Shanghai, China, p.A2940**
- 410 Disruption of the Gut Microbiome Augments Development of Ventilator-Induced Lung Injury in Mice/S.-M. Wienhold, M. Macri, G. Nouailles-Kursar, B. Opitz, K. Dietert, A.D. Gruber, N. Suttrop, M.M. Heimesaat, M. Witzernath, H.C. Muller-Redetzky, Berlin, Germany, p.A2941**
- 411 Dysbiosis Associated with the Acute Respiratory Distress Syndrome: A Prospective Cohort Study in Adults/G.D. Kitsios, A. Fitch, S.F. Rapport, S. Qin, J. Evankovich, K.M. Fair, S.M. Nouraie, J. Lee, X. Cheng, A.M. Morris, B.J. McVerry, Pittsburgh, PA, p.A2942**
- 412 The Gut Microbiome Contributes to Sex-Related Differences in Ozone-Induced Airway Hyperresponsiveness in Mice/Y. Cho, D. Kasahara, T.A. Brown, G. Abu-Ali, C. Huttenhower, S. Shore, Boston, MA, p.A2943**
- 413 The Role of Microbiota and Short Chain Fatty Acids in Pulmonary Responses to Ozone/Y. Cho, D. Kasahara, T.A. Brown, G. Abu-Ali, C. Huttenhower, S. Shore, Boston, MA, p.A2944**
- 414 Increased Bacterial Load in the Small Intestine but Not Lungs of HIV Subjects/J.S.W. Yang, D.A. Ngan, S. Tam, J. Leung, D.D. Sin, S.P. Man, Vancouver, Canada, p.A2945**
- 415 Microbiota Regulated Exosomal MicroRNA (miR) Predicts Bronchopulmonary Dysplasia/C.V. Lal, N. Olave, G. Rezonzew, K.R. Genschmer, D.W. Russell, J.E. Blalock, A. Gaggari, V. Bhandari, N. Ambalavanan, Birmingham, AL, p.A2946**
- 416 Respiratory Syncytial Virus (RSV) Genotypes Associated with Wheezing in Infants Have Distinct Nasopharyngeal Microbiome Community Structure During Acute Viral Infection/M. Shilts, S. Schobel, A. Tovchigrechko, C. Rosas-Salazar, J.D. Chappell, E.K. Larkin, J. Shankar, R. Halpin, V. Puri, N. Fedorova, R.S. Peebles, T. Hartert, S.R. Das, Nashville, TN, p.A2947**



- 417 Integrative Analysis of Nasal Microbiome, Host Transcriptome, and Clinical Outcomes in Infants with Respiratory Syncytial Virus Infection/K.** Glass, L. Tian, A. Sonawane, C. Chu, X. Qiu, L. Wang, J. Holden-Wiltse, A. Grier, S. Gill, M.T. Caserta, E.E. Walsh, T.J. Mariani, E.K. Silverman, Y.-Y. Liu, Boston, MA, p.A2948
- 418 Effect of Short-Term Alpha-1 Antitrypsin Augmentation Therapy on the Lung Microbiota of Individuals with Alpha-1 Antitrypsin Deficiency/M.E.** Kirst, J. Nolte, J. Lascano, F. Rouhani, M.L. Brantly, Gainesville, FL, p.A2949
- 419 The Role of the Fungal Mycobiome in IPF/P.L.** Molyneaux, P. James, L. Cuthbertson, M.J. Cox, D.S. Kim, T.M. Maher, W. Cookson, M. Moffatt, London, United Kingdom, p.A2950
- 420 Genetically Encoded Metabolic Pathways in Airway Microbiota as Mediators of Airway Inflammation in Asthma/B.A.** Turturice, H. McGee, B.G. Oliver, M. Baraket, C. Ascoli, R. Ranjan, D.L. Perkins, P.W. Finn, Chicago, IL, p.A2951
- 421 Distinct Upper Airway Bacterial Microbiota Differentially Relate to Exacerbation and Rhinovirus Infection in Pediatric Asthmatics/K.** McCauley, R. Valladares, P. LeBeau, H. Tran, A. Calatroni, H.A. Boushey, J.E. Gern, D.J. Jackson, S.V. Lynch, San Francisco, CA, p.A2952
- 422 Hyperoxia Causes Respiratory Dysbiosis in a Murine Model of Bronchopulmonary Dysplasia/A.P.** Popova, T.X. Cui, C.T. Fulton, N.R. Falkowski, E.M. Hunter, R.P. Dickson, Ann Arbor, MI, p.A2953
- 423 Altered Diversity and Composition of Sputum Bacterial and Fungal Microbiome in AS/AEAS Patients/S.** Jin, L. Haiyue, L. Zhenyu, Z. Hongwei, C. Rongchang, C. Shaoxi, Guangzhou, China, p.A2954
- 424 Ecological Bias in the Lung with Multiple Displacement Amplification (MDA)/B.C.** Keller, C.L. Monaco, Columbus, OH, p.A2955
- 425 Contraction of the Murine Airway Virome in the Absence of the Autophagy Gene Epg5/B.C.** Keller, C.L. Monaco, Q. Lu, C. Desai, S.A. Handley, H.W. Virgin, Columbus, OH, p.A2956
- 603 Interleukin-1 β (IL-1 β)/ Inhibitor of κ B Kinase ϵ (IKK ϵ)-Mediated Increases in Glycolysis Promote the Pathogenesis of House Dust Mite-Induced Allergic Airways Disease/X.** Qian, S.B. Chia, R. Aboushousha, R.W. Schneider, J.L. Van Der Velden, K.G. Lahue, D.A. Hoagland, D.T. Casey, D.G. Chapman, L.K.A. Lundblad, N. Daphtary, J.L. Ather, M.J. Randall, M. Aliyeva, K.E. Black, A.E. Dixon, D.H. McMillan, V. Anathy, C.G. Irvin, M.E. Poynter, A. Van Der Vliet, Y.M.W. Janssen-Heininger, Burlington, VT, p.A2959
- 604 Glutathione S-Transferase pi- and Glutaredoxin-1-Controlled Glutathionylation Chemistry Regulates Glycolysis in Allergic Airways Disease/X.** Qian, R.W. Schneider, S.B. Chia, R. Aboushousha, J.L. Van Der Velden, K.G. Lahue, L.K.A. Lundblad, N. Daphtary, M. Aliyeva, C.J. Henderson, C.R. Wolf, C. Irvin, A. Van Der Vliet, Y.M.W. Janssen-Heininger, Burlington, VT, p.A2960
- 605 Regulation of Epithelial IL33 Expression by a Mast Cell Feed Forward Loop/M.C.** Altman, Y. Lai, J.D. Nolin, A. Piliponsky, W.A. Altemeier, J.S. Debley, T.S. Hallstrand, Seattle, WA, p.A2961
- 606 ErbB2 Phosphorylation Is Impaired in Asthmatic Airway Epithelial Cells Upon Wound Healing/H.** Inoue, X. Zhou, J.B. Trudeau, S.E. Wenzel, Pittsburgh, PA, p.A2962
- 607 Critical Role for Arginine Metabolism in a Combined Th2 and Th17 Airway Inflammation in the House Dust Mite Model/K.** Asosingh, C. Lauruschkat, K. Queisser, N. Wanner, K. Weiss, W. Xu, S.C. Erzurum, Cleveland, OH, p.A2963
- 608 Adipose Tissue-Derived Exosomes Modulate Pro- and Anti-Inflammatory Responses of Mouse Airway Epithelial Cells/M.E.** Poynter, J.L. Ather, A. Norman, K. Van Der Vliet, A.E. Dixon, Burlington, VT, p.A2964
- 609 The Palmitoylome in Obesity and Allergic Asthma/M.E.** Poynter, M.J. Randall, J.L. Ather, A.E. Dixon, Burlington, VT, p.A2965
- 610 Evidence of a Dysfunctional Soluble Guanylate Cyclase in Human Airway Smooth Muscle Cells Derived from Asthma/A.** Ghosh, R.A. Panettieri Jr., S.C. Erzurum, D.J. Stuehr, Cleveland, OH, p.A2966
- 611 A Type-2 Inflammatory Background Alters the Functional Response of Airway Mast Cells/M.L.** Fajt, J.B. Trudeau, L.B. Schwartz, F. Holguin, S.E. Wenzel, Pittsburgh, PA, p.A2967
- 612 Vesicular Suppressor of Cytokine Signaling 3 Secreted by Alveolar Macrophages Dampens Asthma-Related Inflammation in Airway Epithelial Cells/C.** Draijer, J.M. Speth, L.R.K. Penke, J. Bazzill, J.J. Moon, M. Peters-Golden, Ann Arbor, MI, p.A2968
- 613 Sputum IL-27 Gene Expression in Asthma Endotypes/J.L.** Simpson, K. Pabreja, K.J. Baines, F. Eyres, M. Yang, P. Nair, P. Foster, P.G. Gibson, Newcastle, Australia, p.A2969
- 614 PIM2 Plays Critical Role in Asthma Pathogenesis Through Inhibition of IL-10 Production in Regulatory T Cells by Regulating FOXP3 Expression/W.** Du, T. Chen, Y. Ni, X. Hou, Y. Yu, F. Wu, W. Tang, G. Shi, Shanghai, China, p.A2970
- 615 IL-33 Plays a Unique Role in the Cross-Talk Between Epithelial Cells and Mast Cells/R.C.** Murphy, J.D. Nolin, Y. Lai, A. Piliponsky, W.A. Altemeier, T.S. Hallstrand, Seattle, WA, p.A2971
- 616 Mammalian Target of Rapamycin Is a Key Molecule for Eosinophil Differentiation in Bone Marrow/C.** Zhu, L. Xia, F. Li, Z. Li, Y. Wu, S. Ying, Z. Chen, H. Shen, W. Li, Hangzhou, Zhejiang, China, p.A2972

RAPiD: RAPID ABSTRACT POSTER DISCUSSION

B22 NEW INSIGHTS IN TYPE 2 INFLAMMATION

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 206 (South Building, Level 2)

Abstract Summaries 9:15-9:45

Poster Viewing/Discussion 9:45-11:15

Chairing: A. Ray, PhD, Pittsburgh, PA
 P.A. Verhoef, MD, PhD, Chicago, IL
 A. Haczku, MD, PhD, Davis, CA

601 Different Munc18 Proteins Mediate Baseline and Stimulated Airway Mucin Secretion/M.J. Tuvim, A.M. Jaramillo, B.F. Dickey, Houston, TX, p.A2957

602 Differential Contribution of Foxp3⁺ Regulatory Cells to Eosinophilic And Neutrophilic Airway Inflammation/B. Min, E. Jang, S. Kim, G. Cheng, M. Aronica, Cleveland, OH, p.A2958



- 617** **IRF5 as an Upstream Regulator of Severe Steroid-Refractory Asthma**/T.B. Oriss, M. Raundhal, M. Gauthier, R. Huff, R. Hannum, S.E. Wenzel, P. Ray, A. Ray, Pittsburgh, PA, p.A2973
- 618** **Hypoxia Enhances Type 2 CD8⁺ T Cell Differentiation and Airway Hyperresponsiveness**/F. Ning, K. Takeda, M. Schedel, E.W. Gelfand, Denver, CO, p.A2974
- 619** **Sex Differences in ILC2-Specific Chemokine Release During Chronic OVA-Induced Allergic Lung Inflammation in BALB/C Mice**/K.J. Warren, J.A. Pavlik, J.M. DeVasure, J. Sweetter, J. Dickinson, J.H. Sisson, J. Poole, Omaha, NE, p.A2975
- 620** **Lymphangiogenesis in Allergic Airway Inflammation: Multifaceted Roles**/K. Maisel, L. Potin, C.L. Hrusch, D. Camacho, A.I. Sperling, M. Swartz, Chicago, IL, p.A2976
- 621** **LDL-Receptor Related Protein-1 Attenuates House Dust Mite-Induced Airway Inflammation by Suppressing Dendritic Cell-Mediated Adaptive Immune Responses**/A. Mishra, E.M. Gordon, X. Yao, A. Saxena, P.K. Dagur, K.J. Keeran, J.P. McCoy, K.R. Jeffries, X. Qu, Z.-X. Yu, S.J. Levine, Bethesda, MD, p.A2977
- 622** **A Cell-Specific MicroRNA-Driven Pathway Controls the Recruitment of Eosinophils in Type 2 Inflammation**/A. Korde, F. Ahangari, M. Haslip, A. Gonzalez, S.S. Takyar, New Haven, CT, p.A2978
- 623** **Critical Role of IRAK-M in Regulating Antigen-Induced Airway Inflammation and Airway Hyperresponsiveness**/J. Gao, M. Zhang, W. Chen, W. Zhou, Beijing, China, p.A2979
- 624** **Mouse Model of Human Enterovirus D68 Asthma Exacerbation**/C. Rajput, J.K. Bentley, J. Lei, M. Han, J. Hinde, M.B. Hershenson, Ann Arbor, MI, p.A2980
- 625** **Opposing Actions of Leptin and Glucagon-Like Peptide-1 (GLP-1) to Regulate Interleukin-13 (IL-13)-Directed Airway Fibroblast Responses**/J.L. Ingram, M. Ghio, A. Hegde, J. Wong, D. D'Alessio, L. Que, J.K. Walker, V. McQuade, Durham, NC, p.A2981

POSTER DISCUSSION SESSION

B23 NOVEL EPIDEMIOLOGY, MANAGEMENT, AND OUTCOMES IN ASTHMA

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 209 A-C (South Building, Level 2)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: J.P. Wisnivesky, DrPH, MD, New York, NY
A.J. Apter, MD, MSc, MA, Philadelphia, PA
S.O. Okelo, MD, PhD, Los Angeles, CA

- 701** **Office-Based Physician Visits and Emergency Department Visits for Asthma and Chronic Obstructive Pulmonary Disease (COPD) in the United States (US): Burden of Disease and Temporal Trends**/H. Caspard, J.R. Davis, M. DePietro, C. Ambrose, Gaithersburg, MD, p.A2982

- 702** **Impact of Integrated Dose Counter on Healthcare Utilization and Disease Control in Medicare Patients with Asthma and/or Chronic Obstructive Pulmonary Disease Using Albuterol Sulfate Inhalation Aerosol (ProAir[®] HFA)**/B.E. Chipps, T. Ferro, L. Wang, S. Shrestha, O. Baser, R. Parikh, Sacramento, CA, p.A2983
- 703** **Health Care Resource Use and Costs of Severe Uncontrolled Asthma with High Blood Eosinophil Counts in the UK General Population**/M. Kerkhof, T. Tran, J. Soriano, S. Golam, D. Gibson, E.V. Hillyer, D. Price, Singapore, Singapore, p.A2984
- 704** **Determinants of Asthma-Related Emergency Department Return Visits in Adults: A Population-Based Study**/C. Kwok, Y. DeWit, J. Olajos-Clow, C. Madeley, G. Styling, T. To, M.D. Lougheed, Kingston, Canada, p.A2985
- 705** **Non-Attendance at the Difficult Asthma Clinic - Is Timing the Issue?**/M.J. Brady, H. Burhan, G. Jones, K. Liatsikos, A. Kasis, B. McDonough, S. Mault, Liverpool, United Kingdom, p.A2986
- 706** **The Association of Exercise-Induced Wheeze and Other Asthma Symptoms to Emergency Department Visits and Hospitalizations in a Large Cohort of Urban Adolescents**/J.-M. Bruzzese, C.F. Gould, D. Evans, M. Perzanowski, New York, NY, p.A2987
- 707** **The National Burden of Poorly Controlled Asthma in Children in the U.S.: Results from a Nationally Representative Study**/P. Sullivan, V. Ghushchyan, P. Navaratnam, H. Friedman, A. Kavati, P. Xiang, B. Ortiz, B.Q. Lanier, Denver, CO, p.A2988
- 708** **Among Hispanic Children with Asthma, Greater Maternal Acculturation Is Associated with Having a Medical Home**/A. Lowe, J.K. Gerald, J. Fisher, D. Billheimer, S. Carvajal, L.B. Gerald, Tucson, AZ, p.A2989
- 709** **Caregiver-Reported Negative Experiences with the Healthcare System Are Associated with Decreased Likelihood of Subspecialty Care in Head Start Children with Asthma**/S.C. Sadreameli, K.A. Riekert, C.S. Rand, M.N. Eakin, Baltimore, MD, p.A2990
- 710** **Medication Beliefs Are Associated with Not Having Controller Medications Available Among Head Start Children with Asthma**/J. Callaghan-Koru, K.A. Riekert, E. Ruvalcaba, C.S. Rand, M.N. Eakin, Baltimore, MD, p.A2991
- 711** **Barriers to Asthma Management in Head Start Preschools**/E. Ruvalcaba, J. Callaghan-Koru, K.A. Riekert, C.S. Rand, M.N. Eakin, Baltimore, MD, p.A2992
- 712** **Asthma Status and Physical Activity in Urban Children**/D. Koinis Mitchell, S.J. Kopel, C.A. Esteban, R. Seifer, N.W. Vehse, S. Chau, E. Jelalian, Providence, RI, p.A2993
- 713** **Differences Between Caregiver-Reported Medication Adherence, Physician-Reported Adherence and Objective Medication Adherence in Preschool Children with Asthma**/B. Kurdi, E. Ruvalcaba, K.A. Riekert, C.S. Rand, M.N. Eakin, Baltimore, MD, p.A2994
- 714** **Who Is Ready? Factors Associated with Children Being Ready to Independently Carry and Use Quick-Relief Inhalers in School**/T.Y. Kim, V.G. Press, S. Ignoffo, A. Hull, L. Sharp, A. Volerman, Chicago, IL, p.A2995



- 715 The Readiness of Children with Asthma to Carry and Use Their Quick-Relief Inhalers: Can We All Agree?**/M. Dennin, V.G. Press, S. Ignoffo, A. Hull, L. Sharp, A. Volerman, Chicago, IL, p.A2996
- 716 Exploring Differing Perceptions of Patients and Providers on Asthma Self-Management Through a Patient Advocate (PA) Lens**/A.M. Localio, L. Perez, H. Klusaritz, G. Ndicu, J. Huang, R. Gonzalez, A.J. Apter, Philadelphia, PA, p.A2997
- 717 Stakeholder Engagement in Eight Comparative Effectiveness Trials in African Americans and Latinos with Asthma/K.** Sumino, J.A. Krishnan, A.J. Apter, T. Bryant-Stephens, J. Elder, A. Federman, J. Stout, S. Teach, W. Hamilton, St. Louis, MO, p.A2998
- 718 Assessing the Impact of a Remote Digital Coaching Engagement Program on Patient Reported Outcomes in Asthma**/M. Rasulnia, R. Ginter, T. Wang, S. Burton, R. Pleasants, N. Lugogo, Birmingham, AL, p.A2999
- 719 Impact of Asthma Exacerbations on Health Related Quality of Life in Patients with Severe Asthma**/L.M. Nelsen, N. Gunsoy, S.M. Cockle, F.C. Albers, P.W. Jones, Collegeville, PA, p.A3000
- 720 Effect of Exacerbation on Health Related Quality of Life in Patients with Severe Asthma**/L.M. Nelsen, N. Gunsoy, F.C. Albers, H. Mullerova, E. Bradford, S.M. Cockle, J.-Y. Shin, Collegeville, PA, p.A3001
- 721 Antibiotics for Asthma Exacerbations in the Acute Hospital - A Multi-Center Service Evaluation**/M. Stolbrink, L. Salman, J. Amiry, J. Blakey, Wirral, United Kingdom, p.A3002
- 722 A Systematic Review of Inhaled Corticosteroid Adherence Interventions in Adult African-Americans**/I.L. Riley, B. Murphy, Z. Razouki, J.A. Krishnan, A.J. Apter, S.O. Okelo, M. Kraft, C. Feltner, L.G. Que, L.E. Boulware, Durham, NC, p.A3003
- 723 Evaluation of Trainhaler and Flo-Tone CR Training Devices to Help Adults with Asthma Optimize Their Pressurized Metered Dose Inhaler Technique and Inhalation Flow**/W.G. Ammari, N.M. Obeidat, A.R. Anani, R.J. AlKalbani, M.J. Sanders, Amman, Jordan, p.A3004
- 724 Do Fast Foods Relate to Asthma or Other Allergic Diseases?**/C.S. Wang, J. Wang, X. Zhang, L. Zhang, H.P. Zhang, L. Wang, L.G. Wood, G. Wang, Chengdu, China, p.A3005
- 725 Development and Validation of New and Expanded Measures of Quality in Outpatient Pediatric Asthma Care: The Q-METRIC Project**/T.C. Lewis, K. Stoermer-Grossman, G.L. Freed, B.W. Madden, J. McCormick, S.L. Reeves, C.A. Shevrin, K.J. Dombkowski, Ann Arbor, MI, p.A3006
- Chairing:** R. Bartz, MD, Chapel Hill, NC
T.D. Girard, MD, MSCI, Pittsburgh, PA
J.R. Beitler, MD, MPH, San Diego, CA
- 301 Physiological Effect of High-Flow Nasal Cannula on Respiratory Pattern and Work of Breathing in Severe COPD Patients**/M. Dziura, H. Chweich, N.S. Hill, Boston, MA, p.A3007
- 302 Empiric Use of Humidified High Flow Nasal Cannula Post-Extubation in the Intensive Care Unit**/M. Trump, K.D. Lamb, T. Oetting, J.A. Jackson, D. Blake, S.K. Spilman, S.M. Sahr, Des Moines, IA, p.A3008
- 303 Dyspnea in Patients Receiving Non Invasive Ventilation in the ICU: Prevalence, Risk Factors and Prognosis Impact**/A. Demoule, L. Dangers, C. Montlahuc, A. Kouatchet, S. Jaber, F. Meziani, S. Perbet, S. Chevrete, E. Azoulay, Paris, France, p.A3009
- 304 Comparison of High Inspiratory Pressure Versus Low Inspiratory Pressure Noninvasive Ventilation in Acute COPD Exacerbation**/B. Rahimi, F. Ghaemi, S. Peiman, Tehran, Iran, p.A3010
- 305 Enteral Feeding During Noninvasive Ventilation in a Randomized Clinical Trial of Helmet Ventilation in Acute Respiratory Distress Syndrome**/S. Pearson, B.K. Patel, K.S. Wolfe, A.S. Pohlman, J.B. Hall, J.P. Kress, Chicago, IL, p.A3011
- 306 Delirium and Sedative Requirements in a Trial of Helmet Versus Facemask Noninvasive Ventilation in Acute Hypoxic Respiratory Failure**/K.S. Wolfe, B.K. Patel, A.S. Pohlman, J.B. Hall, J.P. Kress, Chicago, IL, p.A3012
- 307 Helmet Interface Increases Lung Volumes at Equivalent Ventilator Pressures Compared to the Facemask Interface During Non-Invasive Ventilation**/K.C. Tatham, M. Ko, L. Palozzi, T. Slogan, J. Traill, V. Campbell, S. Lapinsky, E. Goligher, London, United Kingdom, p.A3013
- 308 Cormack-Lehane Grade of View and Successful First-Pass Intubation with Video V.s Direct Laryngoscopy**/J.D. Casey, M.W. Semler, D.R. Janz, D.W. Russell, A. Joffe, T.W. Rice, Nashville, TN, p.A3014
- 309 Individualized PEEP Based on Regional Lung Mechanics (Using EIT) Minimizes Driving Pressure in Patients with ARDS**/M.A.M. Nakamura, F.R.B.G. Galas, L.A. Hajjar, E.L.V. Costa, M.B.P. Amato, Sao Paulo, Brazil, p.A3015
- 310 Titration of Positive End Expiratory Pressure Restores Homogeneous Ventilation in Mechanically Ventilated Hypoxic Obese Patients**/M. Teggia Droghi, R.R.D.S. Santiago, J. Zhao, J. Fumagalli, A. Bagchi, A. Sonny, D. Fisher, M. Amato, R. Kacmarek, L. Berra, Boston, MA, p.A3016
- 311 Intra-Thoracic And Airway Pressure Changes Depend on PEEP Application During Cardio Pulmonary Resuscitation: A Thiel Cadaver Model**/E. Charbonney, S. Delisle, P. Ouellet, M. Rigollot, D. Savary, P. Gosselin, A. Drouet, A. Mercat, G. Bronchti, T. Yoshida, D.L. Grieco, L.J. Brochard, J.-C.M. Richard, Montreal, Canada, p.A3017
- 312 Silent Spaces from Electrical Impedance Tomography in the Bedside Assessment of Lung Recruitment: A Comparison with the Pressure Volume Curve**/S. Spadaro, G. Scaramuzzo, S.H. Bohm, C. Turrini, A. Waldmann, T. Mauri, C.A. Volta, Ferrara, Italy, p.A3018

POSTER DISCUSSION SESSION

B24 CRITICAL CARE: ACUTE RESPIRATORY FAILURE - MECHANICAL VENTILATION AND BEYOND

9:15 a.m. - 11:15 a.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Room 151 A (Middle Building, Street Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15



- 313 Regional Ventilation Distribution in Obese Patients with Normal Lungs: Effects of Individualized Positive End-Expiratory Pressure/P.** Simon, D. Petroff, S. Hammermuller, C. Nestler, A. Beda, A. Dietrich, A. Reske, H. Wrigge, Leipzig, Germany, p.A3019
- 314 Intraoperative Measurement of Transpulmonary Pressure Without an Esophageal Balloon Catheter/P.** Persson, S. Lundin, O. Stenqvist, Gothenburg, Sweden, p.A3020
- 315 Unpredictable Transpulmonary Pressure During Recruitment Maneuvers May Lead To Overdistension or Under-Recruitment/E.** Baedorf Kassis, S. Loring, R. Ritz, D. Talmor, Boston, MA, p.A3021
- 316 The Initial Distribution of Lung Aeration Determines the Speed of Deterioration in Lung Strain Distribution in the First 24h of Mechanical Ventilation/G.C.** Motta Ribeiro, S. Hashimoto, T. Winkler, K. Grogg, L.F.S.C. Paula, A. Santos, J. Brandao, M. Vidal Melo, Boston, MA, p.A3022
- 317 PEEP Titration in Severe Acute Respiratory Distress Syndrome: Different Physiological Consequences When Guided by Electrical Impedance Tomography Versus Esophageal Pressure/R.** Roldan, C. Lima, T. Yoshida, R.R.D.S. Santiago, S. Gomes, M.R. Tucci, M.A. Beraldo, E.L.V. Costa, V. Torsani, M.A.M. Nakamura, C.R.R. Carvalho, M.B.P. Amato, Sao Paulo, Brazil, p.A3023
- 318 Twitch Airway Pressure and Diaphragm Thickening Fraction Are Strong Predictors of Successful Liberation from Mechanical Ventilation/M.** Dres, E. Goligher, B.-P. Dube, J. Mayaux, T. Similowski, A. Demoule, Paris, France, p.A3024
- 319 Microorganisms Associated with Vibrating Mesh and Jet Nebulizers During Mechanical Ventilation in the Acute Care Setting: A Randomized Controlled Trial/M.N.** Dubosky, E. Lamorena, C. Jones, K. Roberts, Y. Kim, M.L. Flaws, D.L. Vines, Chicago, IL, p.A3025
- 320 Body Mass Index and Outcome in Patients with Acute Respiratory Distress Syndrome Ventilated by High Frequency Oscillatory Ventilation or Conventional Ventilation/H.** Tlayjeh, Y.M. Arabi, N. Ferguson, F. Lamontagne, A.C. Arroliga, V. Danesh, G. Dominguez-cherit, E. Jimenez, A. Mullaly, B. Staub, M.O. Meade, Riyadh, Saudi Arabia, p.A3026
- 321 Major Bleeding Events During Veno-Venous Extracorporeal Membrane Oxygenation; Comparing Two Different Heparin Infusion Strategies/A.** Bosak, S. Sultan, R. Raschke, Phoenix, AZ, p.A3027
- 322 Efficacy and Safety of Argatroban in Patients with Acute Respiratory Distress Syndrome (ARDS) and Extracorporeal Membrane Oxygenation (ECMO)/M.** Menk, P. Briem, A. Goldmann, M. Gassner, D. Schwaiberger, S. Weber-Carstens, Berlin, Germany, p.A3028
- 323 Sedation and Mobilization During Venovenous Extracorporeal Membrane Oxygenation for Acute Respiratory Failure: An International Survey/J.** Viau-Lapointe, J. DeBacker, J.D. Marhong, L. Munshi, L. Del Sorbo, L. Burry, E. Fan, S. Mehta, Toronto, Canada, p.A3029
- 324 Fluid Administration and Survival in Patients Receiving Veno-Venous ECMO for ARDS/B.** Blough, D. Bonadonna, M.A. Daneshmand, C.R. Rackley, Durham, NC, p.A3030

- 325 Comparison of Early Prone Positioning and Extracorporeal Membrane Oxygenation in Influenza-Related Acute Respiratory Distress Syndrome/K.-W.** Chang, L.-C. Chiu, H.-C. Hu, K.-C. Kao, Taoyuan, Taiwan, p.A3031

POSTER DISCUSSION SESSION

B25 ASTHMA EPIDEMIOLOGY: EXACERBATIONS, ADMISSIONS, READMISSIONS, AND ED VISITS

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 201 (South Building, Level 2)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: J.C. Celedon, MD, DrPH, Pittsburgh, PA
L. Avila, MD, San Jose, Costa Rica
S. Sharma, MD, MPH, Aurora, CO

- 501 Emergency Department Patients with Asthma Exacerbation Who Ran-Out of Their Inhaled Short-Acting β -Agonists: A Multicenter Study in Boston/K.** Hasegawa, T. Ferro, C. Rainville, S. Stoyanov, C. Gimenez-Zapiola, C. Camargo, Boston, MA, p.A3032
- 502 The Characteristics of Asthma Patients in ER Visit/S.** Ohta, K. Hirai, M. Jinno, T. Homma, H. Sato, A. Tanaka, T. Uno, A. Fujiwara, Y. Uchida, R. Manabe, N. Kuwahara, Y. Miyata, M. Yamaguchi, M. Yamamoto, T. Yokoe, T. Harada, Y. Tarumi, T. Saito, H. Sagara, Tokyo, Japan, p.A3033
- 503 The Risk of Exacerbation for Asthma from Questionnaire Survey in Japanese Population/H.** Ueno, T. Koya, K. Yoshizawa, A. Aoki, Y. Kimura, H. Takeuchi, M. Hayashi, T. Sakagami, T. Kikuchi, T. Hasegawa, E. Suzuki, Niigata, Japan, p.A3034
- 504 Characteristics of a Large Nationally Representative UK Primary Care Asthma Population and Their Incidence and Determinants of Asthma Exacerbations/C.** Bloom, F. Nissen, L. Smeeth, P. Cullinan, J. Quint, London, United Kingdom, p.A3035
- 505 The Clinical Characteristics of Recent Asthma Exacerbators in the TENOR II Cohort/S.J.** Szeffler, R.S. Zeiger, E.R. Bleecker, A.J. Foreman, T. Haselkorn, B. Paknis, B. Ortiz, F. Kianifard, B.E. Chipps, Aurora, CO, p.A3036
- 506 Reduction of Exacerbations by Baseline Indicators of Asthma Severity in Children Receiving Omalizumab/S.J.** Szeffler, T.B. Casale, K. Rosen, B.L. Trzaskoma, T. Haselkorn, B. Ortiz, W.W. Busse, Aurora, CO, p.A3037
- 507 Key Findings and Clinical Implications from Multicenter Retrospective Study of Admission Due to Asthma Exacerbation in China/J.** Lin, X. Bin, D. Yang, Beijing, China, p.A3038
- 508 Demographic Parameters Related to 30-Day Readmission of Patients with Asthma: Cohort Study of the Healthcare Cost and Utilization Project's Nationwide Inpatient Sample from 2009-2013/A.** Attaway, N. Solanki, J. McKell, Cleveland, OH, p.A3039
- 509 National Rates of 30-Day Hospital Readmissions for Adults with Asthma Exacerbation/A.** Goizueta, E. Cobbina, R. Cholankeril, L. Gonzalez, R. El-Bizri, Providence, RI, p.A3040



- 510 Incidence and Predictors of 30-Day Readmission in Patients Hospitalized for Asthma: A Nationwide Analysis/K.** Chatterjee, A. Goyal, K.S.S. Kakker, A.R.A. Tarawneh, A. Chada, C. Punjabi, Little Rock, AR, p.A3041
- 511 Lung Function Decline in the TENOR II Cohort/E.R.** Bleeker, R.S. Zeiger, B.E. Chipps, T. Haselkorn, A.J. Foreman, B. Paknis, F. Kianifard, B. Ortiz, S.J. Szefer, Winston-Salem, NC, p.A3042
- 512 Asthma Symptoms and Health Care Resource Utilization by Degree of Asthma Control in Patients Adherent to ICS/LABA Treatment/J.** Davis, F. Trudo, J. Siddall, T. Bostock, M. Small, Wilmington, DE, p.A3043
- 513 Long-Acting β 2-Agonists During Pregnancy and Risk of Hypertensive Disorders of Pregnancy/L.** Blais, F.-Z. Kettani, A. Forget, M.-F. Beauchesne, C. Lemiere, E. Rey, Montreal, Canada, p.A3044
- 514 Rates of Hospital Admission and Emergency Room Visits with Asthma, Chronic Obstructive Pulmonary Disease, and Respiratory Tract Infection Relative to Age and Season in Ontario, Canada/T.** Ho, S. Corriveau, N. Johnston, J. Greene, K. Killian, P.M. O'Byrne, Hamilton, Canada, p.A3045
- 515 Asthma, Chronic Obstructive Pulmonary Disease, Respiratory Tract Infections and Viruses: Admission Rates, Emergency Room Visits and Age/T.** Ho, S. Corriveau, N. Johnston, J. Greene, K. Killian, P.M. O'Byrne, Hamilton, Canada, p.A3046
- 516 Assessing the Geospatial Distribution of Asthma Exacerbations Using Electronic Health Record (EHR)-Derived Data/S.** Xie, R. Greenblatt, M. Levy, B.E. Himes, Philadelphia, PA, p.A3047
- 517 The Effect of HEPA Air Purification on Asthmatic Children Exposed to Traffic-Related Airborne Particles/C.** James, J. Cox, K. Isiugo, R. Indugula, C. Wolfe, R. Jandarov, D. Bernstein, P. Ryan, T. Reponen, Cincinnati, OH, p.A3048
- 518 Observed Reduction of Healthcare Utilization After Omalizumab Initiation Among Patients with Persistent Asthma Followed in Canadian Clinical Settings/J.-L.** Stril, W. Yang, R. Gagnon, E. Psaradellis, E. Rampakakis, S. Chehab, Dorval, Canada, p.A3049
- 519 The Effect of Dipeptidyl-Peptidase-4 Inhibitors on Asthma Control: An Administrative Database Study to Evaluate a Potential Pathophysiological Relationship/G.** Colice, D. Price, M. Gerhardsson De Verdier, K. Rabon-Stith, C. Ambrose, K. Ranade, K. Cappell, D. Irwin, P. Juneau, A. Vlahiotis, Gaithersburg, MD, p.A3050
- Chairing:** G.T. O'Connor, MD, MS, Boston, MA
C.P. Hersh, MD, MPH, Boston, MA
A.K. Bauer, PhD, Aurora, CO
- 201 Neighborhood Characteristics and Health Outcomes: Evaluating the Association Between Socioeconomic Status, Tobacco Store Density, and Mortality in Baltimore City/P.** Galiatsatos, R. Koehl, C. Kineza, E. Brigham, C.S. Rand, M.C. McCormack, N. Hansel, Bethesda, MD, p.A3051
- 202 The Ochsner Tobacco Study: A Health System Based Assessment of Smoking in Young Adults/S.P.** Kantrow, C. Leonardi, E. Price-Haywood, S.E. Jolley, H.-Y. Lin, R. Scribner, E. Trapido, New Orleans, LA, p.A3052
- 203 The Flight Attendant Lung Health Study: Assessing the Long-Term Impact of Intense Secondhand Smoke Exposure/F.** Diaz del Valle, J.K. Zakrajsek, R.W. Vandivier, Aurora, CO, p.A3053
- 204 Increased Arterial Stiffness in Chronic Swedish Snus Users/L.** Antoniewicz, M. Kabele, M. Lundback, J.A. Bosson, Stockholm, Sweden, p.A3054
- 205 Therapeutic Effects of Soluble Guanylate Cyclase (sGC) Stimulation on Pulmonary Hemodynamics and Emphysema Development in Guinea Pigs Chronically Exposed to Cigarette Smoke/T.** Paul, V.I. Peinado, E. Ferrer, O. Tura-Ceide, C. Bonjoch, I. Blanco, J.A. Barbera, Barcelona, Spain, p.A3055
- 206 Effect of Cigarette Smoking and Hot Water Extract from Agaricus Blazei Murill on Lipopolysaccharide (LPS)-Induced Lung Inflammation in Mice/M.** Takeuchi, A. Kawazoe, N. Miwa, M. Uno, C. Kanamori, Y. Tanaka, K.E. Pinkerton, Kyoto, Japan, p.A3056
- 207 Role of CCAAT/Enhancer Binding Protein- α (C/EBP γ) in Airway Epithelial Cells During Chronic Cigarette Smoke Exposure in Mice/K.** Uemasu, A. Sato, K. Tanimura, K. Hasegawa, Y. Hamakawa, S. Sato, S. Muro, Kyoto, Japan, p.A3057
- 208 Genetic Variance Associates with Susceptibility for Cigarette Smoke-Induced DAMP Release in Mice/S.D.** Pouwels, A. Faiz, L.E. Den Boef, R. Gras, M. van den Berge, H.M. Boezen, R. Korstanje, N.H.T. Ten Hacken, A.J.M. Van Oosterhout, I.H. Heijink, M. Nawijn, Groningen, Netherlands, p.A3058
- 209 Cigarette Smoke Induced Downregulation of the ABCA1 Cholesterol Efflux Transporter Exacerbates Pulmonary Inflammation: A Novel Therapeutic Target for LXR Agonists/J.** Sonett, A. Gerber, P. Sklepkiwicz, M. Goldklang, R. Xiao, J. Trischler, T. Zelonina, V. Lemaire, J.M. D'Armiento, New York, NY, p.A3059
- 210 Human Variability of Smoking-Induced Dysregulation of the Small Airway Epithelium Transcriptome Over 1 Year/Y.** Strulovici-Barel, J. Salit, S.A. Shenoy, J. Mezey, R.J. Kaner, M.R. Staudt, H. Bitter, S. Sridhar, S. Pillai, H. Hilton, G. Wolff, C. Stevenson, S. Visvanathan, J. Fine, R.G. Crystal, New York, NY, p.A3060
- 211 Effect of Cigarillo Smoke on Airway Epithelium and Mucosal Barrier/S.** Abdelwahab, B. Reidel, J. Carpenter, P. Haridass, A. Ghosh, R. Tarran, M. Kesimer, Chapel Hill, NC, p.A3061
- 212 Cigarette Smoke and Electronic Cigarettes Differentially Activate Bronchial Epithelial Cells/C.** Herr, K. Tsitouras, J. Niederstrasser, C. Backes, C. Beisswenger, A. Keller, R. Bals, Homburg, Germany, p.A3062

POSTER DISCUSSION SESSION

B26 CIGARETTES, E-CIGARETTES, MARIJUANA: EPIDEMIOLOGY AND MECHANISMS

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 150 B (Middle Building, Street Level)

Poster Viewing 9:15-10:00
Discussion 10:00-11:15



- 213** **Detection of Reactive Chemicals and Oxidants Using an Organotypic Human Airway Model with Nrf2 Reporter Activity: Application to Evaluation of Tobacco Products/P.** Hayden, G.R. Jackson, A. Hunter, S. Caughlin, O. O'Connell, J. Foisy, A. Maione, Ashland, MA, p.A3063
- 214** **Infection with Live-Attenuated Influenza Virus (LAIV) Causes Altered Immune Responses in the Nasal Mucosa of E-Cigarette Users/M.E.** Rebuli, E. Glista-Baker, E. Pawlak, A.M. Speen, P. Clapp, T. Noah, I. Jaspers, Chapel Hill, NC, p.A3064
- 215** **E-cigarette Flavors and Nicotine Independently Alter Airway Inflammation in a Murine Model of Allergic Airways Disease/D.G.** Chapman, J.L. Ather, D.T. Casey, N. Daphtary, X. Qian, A.C. Keim, Y. Janssen-Heininger, C.G. Irvin, Burlington, VT, p.A3065
- 216** **E-Cigarette Vapor Chronic Inhalation Modulates Pulmonary Physiology in Mice/J.** Shin, D. Mathew, L.E. Crotty Alexander, San Diego, CA, p.A3066
- 217** **Chronic E-Cigarette Vapor Inhalation Induces Hepatic Fibrosis in Mice/C.J.** Javier, A. Du, A. Tran, L.E. Crotty Alexander, San Diego, CA, p.A3067
- 218** **E-Cigarette Vaping Impairs Electrolyte Transport Over the Apical Nasal Mucosa/S.** Paredes Aller, C. Aguiar, A.C. Guerrero, G. Holt, M. Campos, M. Salathe, A. Schmid, Miami, FL, p.A3068
- 219** **Gene Expression Alterations in the Bronchial Epithelium of Electronic Cigarette Users/M.** Nitzberg, S. Corbett, E. Moses, T. Wang, E. Drizik, C. Perdomo, E. Kleerup, D. Brooks, G.T. O'Connor, S. Dubinett, P. Hayden, M. Lenburg, A. Spira, Boston, MA, p.A3069
- 220** **Altered Expression of Genes Involved in Inflammatory Response and Fibrosis by Human Bronchial Epithelial Cells Exposed to E-Cigarette Liquid: Relation to the Effect of Cigarette Smoke/S.** Altraja, M. Mitt, A. Altraja, Tartu, Estonia, p.A3070
- 221** **Effects of E-Liquids from Electronic Cigarettes in Human Cell Cultures/J.** Signes-Costa, P. Marques, A. Collado, M.C. Gonzalez, E. Servera, M.J. Sanz, Valencia, Spain, p.A3071
- 222** **Cannabis Use Among Adults with Alcohol Use Disorders in Colorado/J.T.** Hua, M. Afshar, E.J. Kovacs, E.L. Burnham, Aurora, CO, p.A3072
- 223** **Marijuana Smoking in the Middle-Aged and Elderly Population Is Associated with Exacerbation-Like Respiratory Events/W.C.** Tan, J. Bourbeau, F. Maltais, P. Hernandez, D. Marciniuk, D.E. O'Donnell, B.L. Walker, K.R. Chapman, J.M. Fitzgerald, J.D. Road, J.C. Hogg, S.D. Aaron, D.D. Sin, Vancouver, Canada, p.A3073
- 224** **Impact of Heavy Inhaled Cannabis Use on Lung Physiology and Bronchodilator Response/A.** Kaur, J. Biehl, J. Gaydos, A. McNally, E.L. Burnham, Aurora, CO, p.A3074

POSTER DISCUSSION SESSION

B27 HIV BENCH TO BEDSIDE: TUBERCULOSIS AND OTHER PULMONARY COMPLICATIONS

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 144 A-C (Middle Building, Street Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: P. Peyrani, MD, Louisville, KY
K.A. Crothers, MD, Seattle, WA
M. O'Donnell, MD, MPH, New York, NY

101 **Mitochondrial Function in Alveolar Macrophages Is Impaired in HIV-1 Transgenic Rats Via a PPAR- β -Dependent Pathway/B.S.** Staitieh, J.R. Grunwell, X. Fan, D.M. Guidot, S.M. Yeligar, Atlanta, GA, p.A3075

102 **The HIV-1 Trans-Activator of Transcription (Tat) Protein Significantly Impairs Antioxidant and Innate Immune Defenses in Alveolar Macrophages/A.T.** Kukoyi, B.S. Staitieh, X. Fan, D.M. Guidot, Atlanta, GA, p.A3076

103 **Burden of Pulmonary Diseases Among HIV-Infected Patients: A Review of Nationwide Readmission Database/V.K.** Singh, R. Rattan, A.M. Morris, Monroeville, PA, p.A3077

104 **HIV Infection and Smoking Correlate with Increased Levels of Urinary Prostaglandin E Metabolite/R.J.** Kaner, G.L. Milne, S.A. Shenoy, Y. Strulovici-Barel, W. Amin, R.G. Crystal, A. Dannenberg, New York, NY, p.A3078

105 **Association Between COPD and Mortality for HIV-Infected and Uninfected Veterans Hospitalized with Community-Acquired Pneumonia/E.F.** Attia, K.A. McGinnis, L.C. Feemster, M.A. Pisani, A.A. Butt, K.M. Akgun, L. Huang, C.L. Gibert, G.W. Soo Hoo, M.B. Goetz, D. Rimland, K. Crothers, Seattle, WA, p.A3079

106 **Biomarkers for Short-Term Mortality in HIV-Infected and HIV-Uninfected Ugandans with Pneumonia/R.J.-Y.** Wang, E. Chang, E. Musisi, A. Sessolo, M. Sommers, D. Moisi, W. Worodria, J.L. Davis, K.A. Crothers, Y. Huang, P. Hunt, M. Lederman, L. Huang, San Francisco, CA, p.A3080

107 **Telomere Length Is Not Associated with Short-Term Mortality in HIV-Infected and HIV-Uninfected Ugandans with Pneumonia/P.** Huang, P. Byanyima, E. Chang, J. Lin, S. Kaswabuli, I. Sanyu, A. Sessolo, A. Andama, W. Worodria, R. Opio, R.J.-Y. Wang, J.L. Davis, K. Crothers, P. Hunt, E.H. Blackburn, L. Huang, San Francisco, CA, p.A3081

108 **mHealth Monitoring Informs Respiratory Symptom Assessments Among HIV-Infected Individuals with COPD/A.** Lambert, G. Kirk, J. Astemborski, R.A. Wise, M.B. Drummond, Baltimore, MD, p.A3082

109 **Spirometric Lung Function Abnormalities in HIV-Infected Subjects Naive to Antiretroviral Therapy/E.W.** Pefura Yone, A.D. Balkissou, M.-C. Madjoumessi, C. Kuaban, Yaounde, Cameroon, p.A3083



- 110 Effect of Age and HIV Status on Pulmonary Dysfunction/** M. Hartman-Filson, S.M. Nouraie, C. Kessinger, V. Petraglia, N. Leo, M. Bertolet, R. Kerruish, K.A. Crothers, R. Greenblatt, L. Kingsley, L. Huang, A.M. Morris, San Francisco, CA, p.A3084
- 111 Prevalence of Low DLCO in HIV+ Nonsmokers and Smokers with Normal Spirometry/S.** Ruparell, Y. Strulovici-Barel, R.J. Kaner, R.G. Crystal, New York, NY, p.A3085
- 112 HIV Infection Is an Independent Risk Factor for Decreased 6-Minute Walk Test Distance/T.E.** Robertson, S.M. Nouraie, K.A. Crothers, C. Kessinger, N. Leo, D. McMahon, L. Kingsley, R. Greenblatt, L. Huang, A.M. Morris, Pittsburgh, PA, p.A3086
- 113 Mitochondrial Dynamics and HIV/Opioids Mediated Pulmonary Endothelial Dysfunction: Implications in HIV-Related Pulmonary Arterial Hypertension/H.** Sharma, A. O'Brien Ladner, N.K. Dhillon, Kansas City, KS, p.A3087
- 114 The Burden of Respiratory Viral Illness in HIV-Infected Patients/S.A.** Sellers, K. Dover, D. Wohl, M. Miller, D. Dittmer, W. Fischer, Chapel Hill, NC, p.A3088
- 115 Multiple Pneumonia Episodes Are Associated with Increased Lung Obstruction and Diffusion Abnormalities in HIV-Infected Patients/M.** McGing, E. Chang, M. Hartman-Filson, M.R. Sommers, S. Fong, S. Stone, E. Auld, L. Huang, San Francisco, CA, p.A3089
- 116 Bedaquiline and Linezolid for the Operational Treatment of Multidrug-Resistant and Extensively Drug-Resistant Tuberculosis in a High Burden HIV Setting (BLIX Study)/** N. Bionghi, N. Padayatchi, I. Master, K. Naidoo, M.R. O'Donnell, New York, NY, p.A3090
- 117 Association Between HIV-Associated Immune Suppression and Mixed Mycobacterium Tuberculosis Infections/S.S.** Shin, C. Modongo, P. Moonan, E. Click, J. Oeltmann, A. Finlay, R.M. Warren, N. Zetola, Los Angeles, CA, p.A3091
- 118 Effect of Earning Potential on the Outcome of Tuberculosis and HIV Co Infection Management in Nigeria/T.A.** Salami, Ekpoma, Nigeria, p.A3092
- 119 Elevated C-Reactive Protein and Risk of Mortality Among HIV-Positive Patients Undergoing TB Screening in Kampala, Uganda/L.H.** Chaisson, F. Semitala, E. Atuhumuza, L. Asege, S. Mwebe, J. Katende, M. Nakaye, A. Andama, M. Kamya, A. Cattamanchi, C. Yoon, Baltimore, MD, p.A3093
- 120 Impact of Xpert MTB/RIF Assay on Treatment Success Rates in Multi-Drug Resistant Tuberculosis Patients in Ugu District Kwazulu-Natal South Africa/T.C.** Mahwire, P. Naidoo, M. Zunza, Port Shepstone, South Africa, p.A3094
- 121 Impact of Xpert MTB/RIF on Outcome of HIV-Associated Tuberculosis in Nigeria/M.O.** Akanbi, C.J. Achenbach, A. Ani, O. Agbaji, B. Taiwo, P. Akande, R. Murphy, Chicago, IL, p.A3095
- 122 Predictors and Survival of Patients with Recurrent Pulmonary TB at a Referral Hospital in Uganda/N.** Kalema, D. Glidden, S.D.-J. Yoo, A. Andama, W. Katagira, P. Byanyima, E. Musisi, S. Kaswabuli, I. Sanyu, I. Ayakaka, C.K. Lindan, J.L. Davis, L. Huang, W. Worodria, A. Cattamanchi, San Francisco, CA, p.A3096

- 123 Three-Month Tuberculosis Incidence Is High Among HIV-Infected Adults Living in High Burden Settings but the Tools to Detect Them Are Insufficient/C.** Yoon, F. Semitala, E. Atuhumuza, L. Asege, S. Mwebe, J. Katende, M. Nakaye, A. Andama, M. Kamya, A. Cattamanchi, San Francisco, CA, p.A3097
- 124 HIV Is an Independent Predictor of Obstructive Lung Disease in Southwestern Uganda/C.M.** North, J.G. Allen, J. Vallarino, S. Okello, R. Sentongo, E.T. Ryan, D.R. Bangsberg, D.C. Christiani, M.J. Siedner, Boston, MA, p.A3098
- 125 Diagnosis of Pulmonary Tuberculosis in HIV-Infected and Uninfected Children Using Xpert MTB/Rif Ultra/H.J.** Zar, L. Workman, M. Nicol, Cape Town, South Africa, p.A7610

POSTER DISCUSSION SESSION

B28 LET'S GO CRAZY: EXERCISE RESPONSES AND PHYSIOLOGICAL ASSESSMENT IN PULMONARY VASCULAR DISEASE

9:15 a.m. - 11:15 a.m. **MARRIOTT MARQUIS WASHINGTON**

Marquis Ballroom 9-10 (Level M2)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: E. Brittain, MD, Nashville, TN
M.G. Risbano, MD, MA, Pittsburgh, PA
R. Naeije, MD, PhD, Brussels, Belgium

1001 The Role of Exercise Therapy in Pulmonary Arterial Hypertension/A. Mackenzie, J. Ford, G. Jayasekera, V. Pollok, T. Crowe, A. Peacock, C. Church, M. Johnson, Glasgow, United Kingdom, p.A3099

1002 Prognostic Significance of Pulse Pressure Response to Exercise in Patients with Pulmonary Arterial Hypertension/ W.-H. Wu, Q.-H. Zhao, L. Wang, S.-G. Gong, J. Rong, P. Yuan, J.-M. Liu, Shanghai, China, p.A3100

1003 Effect of Healthy Aging on the Pulmonary Vascular Response to Exercise and the Role of Pulmonary Vasodilators/K.E. Coffman, A.R. Carlson, B. Ziegler, T. Curry, N. Dietz, B. Johnson, Rochester, MN, p.A3101

1004 Functional Outcomes of Selexipag Versus Inhaled Treprostinil for the Treatment of Pulmonary Arterial Hypertension/V.A. Pallazola, S. Visovatti, V. McLaughlin, Ann Arbor, MI, p.A3102

1005 Evaluation of Criteria for Exercise-Induced Pulmonary Hypertension in Patients with Resting Pulmonary Hypertension/C.J. Mullin, S. Hsu, K. Amancherla, P.S. Rhodes, M. Mukherjee, R.L. Damico, T.M. Kolb, S. Mathai, D.A. Kass, P.M. Hassoun, R. Tedford, Baltimore, MD, p.A3103

1006 Resting Hemodynamics Predict Exercise-Induced Pulmonary Hypertension in Systemic Sclerosis/C.J. Mullin, S. Hsu, K. Amancherla, P.S. Rhodes, M. Mukherjee, R.L. Damico, T.M. Kolb, R. Tedford, D.A. Kass, P.M. Hassoun, S. Mathai, Baltimore, MD, p.A3104



- 1007 Lower DLco% Identifies Worse Exercise Pulmonary Hypertension and Reduced Recovery of Pulmonary Artery Pressures in a Mixed Population/M.G. Risbano, W.D. Wallace, Pittsburgh, PA, p.A3105**
- 1008 Thoracic Fluid Volumes and Extravascular Lung Water as Components of Pulmonary Congestion in Heart Failure/S.C. Chase, B.J. Taylor, T.J. Cross, K.E. Coffman, B. Ziegler, R. Wentz, B.D. Johnson, Rochester, MN, p.A3106**
- 1009 Pulmonary Vascular Volumes as Cause of Awake Periodic Breathing in HF?/S.C. Chase, L.J. Olson, B. Ziegler, B.D. Johnson, Rochester, MN, p.A3107**
- 1010 A Pilot Study Assessing the Change in Physical Activity in Response to Treatment in Pulmonary Hypertension/S. Sithamparanathan, S. Charman, G. Gorman, M. Trenell, D. Jakovljevic, P.A. Corris, Newcastle upon Tyne, United Kingdom, p.A3108**
- 1011 Pulmonary Vascular Response to Exercise and Hypoxia In Adult Survivors of Preterm Birth/A.G. Beshish, K. Haraldsdottir, G. Barton, L. Tetri, R.K. Braun, D. Pegelow, M. Palta, L. Lamers, K.N. Goss, M. Eldridge, Madison, WI, p.A3109**
- 1012 Fitbit Vs Six Minute Walk in PAH/S. Sehgal, A. Chowdhury, F. Rabih, A. Gadre, K.B. Highland, Cleveland, OH, p.A3110**
- 1013 Six Weeks of Treadmill Training with a High Intensity Interval or Mild Continuous Exercise Approach Increases Cardiac Output in a Sugen-Hypoxia Rat Model of Pulmonary Arterial Hypertension/M.B. Brown, A. Frump, G. Long, A.J. Fisher, R. Presson, T. Lahm, Indianapolis, IN, p.A3111**
- 1014 Hemodynamic and Exercise Effects of Different Types of Initial Oral Combination Therapy in Pulmonary Arterial Hypertension/A. Albini, F. Dardi, A. Rinaldi, E. Monti, N. Tanese, E. Gotti, M. Palazzini, A. Manes, N. Galie, Bologna, Italy, p.A3112**
- 1015 Cardiopulmonary Exercise Testing Characteristics in Acute Vasodilator Testing Positive Patients with Idiopathic Pulmonary Arterial Hypertension/C.-J. Luo, L. Wang, J.-M. Liu, Shanghai, China, p.A3113**
- 1016 Positional Changes in Pulmonary Vascular Pressures Among Overweight/Obese Subjects/A. Jawad, A.R. Tonelli, R.L. Chatburn, U. Hatipoglu, Cleveland, OH, p.A3114**
- 1017 Exercise Results in Abnormal Plasma Nucleotide Concentrations in Scleroderma-Associated Pulmonary Arterial Hypertension/S. Visovatti, V. McLaughlin, D. Khanna, P. Robichaud, N. Sutton, S. Goonewardena, Y. Kanthi, C.F. Burant, D.J. Pinsky, Ann Arbor, MI, p.A3115**
- 1018 Accuracy of Accelerometer (Fitbit® ChargeHR™) Measured Distance and Heart Rate in Patients with Pulmonary Arterial Hypertension/A. Chowdhury, S. Sehgal, F. Rabih, A. Gadre, K.B. Highland, Cleveland, OH, p.A3116**

RAPID: RAPID ABSTRACT POSTER DISCUSSION

B29 AUTOPHAGY: MECHANISMS AND THERAPEUTIC OPPORTUNITIES

9:15 a.m. - 11:15 a.m. MARIOTT MARQUIS WASHINGTON
Marquis Ballroom 3-4 (Level M2)

Abstract Summaries 9:15-9:45
Poster Viewing/Discussion 9:45-11:15

Chairing: N. Vij, PhD, Baltimore, MD
S.L. Brody, MD, St. Louis, MO
S.M. Cloonan, PhD, New York, NY

- 901 The Aryl Hydrocarbon Receptor (AhR) Suppresses Cigarette Smoke-Induced Emphysema in Association with Dysregulated Autophagy/N.M. Guerrina, K. Prasade, T.H. Thatcher, S. Pareek, L. Simon, J. Bourbeau, R.P. Phipps, P.J. Sime, A. Gomez, J. Matthews, P.Z. Li, D.H. Eidelman, Q. Hamid, B.M. Smith, C. Baglole, Montreal, Canada, p.A3117**
- 902 Autophagy Deficient Mesenchymal Stromal Cells Are More Susceptible to Oxidative Injury and Less Effective in a Murine Model of Sepsis/S. Ghanta, K. Tsoyi, C. Piantadosi, A.M.K. Choi, M. Perrella, Boston, MA, p.A3118**
- 903 15-Lipoxygenase 1 Pathway Regulates Autophagy in Human Airway Epithelial Cells (HAECs)/Y. Minami, E. Etling, H.-E. Claesson, J. Zhao, S.E. Wenzel, Pittsburgh, PA, p.A3119**
- 904 Fine Particulate Matters Enhanced Autophagy on Alveolar Epithelial Cells and Macrophages/Y. Li, X. Dang, D. Shang, X. Qu, W. Wang, Y. Chang, Xi'an, China, p.A3120**
- 905 Mechanisms of Nanoparticle Flow Across Alveolar Epithelial Cells/A. Sips, R.H. Chow, Z. Borok, K.-J. Kim, E.D. Crandall, Los Angeles, CA, p.A3121**
- 906 mTOR Suppresses Autophagy-Mediated Airway Epithelial Injury in Asthmatic Inflammation/Y.-F. Wu, W. Li, Y. Zhao, Z.-Y. Li, Y.-P. Wu, J.-S. Zhou, A.M.K. Choi, Z.-H. Chen, H.-H. Shen, Hangzhou, Zhejiang, China, p.A3122**
- 907 STUB1 Regulates TFEB-Induced Autophagy-Lysosome Pathway/L. Rao, Y. Sha, C. Settembre, A. Ballabio, N.T. Eissa, Houston, TX, p.A3123**
- 908 The Antiproliferative Effects of Hydroxycamptothecin Are Due to Apoptosis and Autophagy in A549 Cells and the Potential Role of Autophagy Inhibitors Combination with Hydroxycamptothecin/W. Tian, Y. Wei, X. Hao, H. Liu, Tangshan, China, p.A3124**
- 909 Silymarin Attenuates Cigarette Smoke Extract-Induced Inflammation Via Autophagy and ERK/p38 MAPK Pathway in Human Bronchial Epithelial Cells/D. Li, J. Hu, T. Wang, F. Wen, Chengdu, China, p.A3125**
- 910 In Vitro Study of Effects and Mechanisms of Azithromycin on Diffuse Panbronchiolitis Patients' T Lymphocytes by Inhibiting mTOR Signaling Pathway/Q. Wu, D. Weng, H. Li, Shanghai, China, p.A3126**



- 911 **Depletion of PTEN-Induced Kinase 1 Reduces Mitochondrial Respiration and Enhances Autophagy in Human Pulmonary Artery Smooth Muscle Cells/D.E. Green, T. Murphy, B. Bedi, C.M. Hart, Atlanta, GA, p.A3127**
- 912 **Decreased Autophagic Activity in Epithelial Cells Induces a Profibrotic Phenotype/D.M. Medina Perez, S. Cabrera, A. Pardo Cemo, M.E. Selman Lama, Mexico City, Mexico, p.A3128**
- 913 **Angiotensin-(1-7) Improves Cigarette Smoking-Related Pulmonary Fibrosis Via Attenuating the Impaired Autophagy Caused by NOX4-Dependent ROS/Y. Meng, Guangzhou, China, p.A3129**
- 914 **Master Autophagy Regulator Transcription Factor-EB (TFEB) Regulates Cigarette Smoke Induced Autophagy-Impairment and COPD-Emphysema Pathogenesis/M. Bodas, N. Patel, D. Silverberg, K. Walworth, N. Vij, Mt. Pleasant, MI, p.A3130**
- 915 **Augmentation of S-Nitrosoglutathione (GSNO) Controls Cigarette-Smoke Induced Inflammatory-Oxidative Stress and COPD-Emphysema Pathogenesis by Restoring CFTR Function/M. Bodas, D. Silverberg, K. Walworth, K. Brucia, N. Vij, Mt. Pleasant, MI, p.A3131**
- 916 **Lysosomal-Associated Membrane Protein 1 (LAMP-1) Is Upregulated in Small Airway Epithelium of Smokers and COPD: Potential Role in Autophagy/M.S. Eapen, E. Tan, C. Ward, E.H. Walters, S.S. Sohal, Hobart, Australia, p.A3132**
- 917 **Autophagy Regulates DUOX1-Mediated ROS in Airway Epithelial Cells During Chronic IL-13 Stimulation/J. Dickinson, J. Sweeter, M. Zimmerman, S.L. Brody, Omaha, NE, p.A3133**
- 918 **Cigarette Smoke Mediated Inhibition of X-Box Binding Protein 1 (XBP1) Splicing Leads to Heightened Cell Death of Alveolar Macrophages/A. Blumental-Perry, K. Vedagiri, D. Stolz, B. Gaston, C. Reynolds, N. Marozkina, Cleveland, OH, p.A3134**
- 919 **Metabolomic Profiling Identifies mTOR Dependent and Independent Pathway Activation in Lymphangioleiomyomatosis/S.R. Johnson, S. Miller, Nottingham, United Kingdom, p.A3135**
- 920 **Increased Autophagy Flux Is Associated with Resolution of Skeletal Muscle Wasting in Lung Injured Mice/A.C. Smith, C. Liu, O. Delbono, D.C. Files, Winston-Salem, NC, p.A3136**
- 921 **Altered Mitochondrial Dynamics Develop in the Lung Following Acute Kidney Injury/M. Hepokoski, L.E. Crotty Alexander, A. Malhotra, P. Singh, La Jolla, CA, p.A3137**
- 922 **The Cell Death Protein, Bik, Interacts with NF-kappaB and Regulates Inflammation/J.T. Jones, Y.A. Mebratu, D.D. Tassew, Y. Tesfagzi, Albuquerque, NM, p.A3138**
- 923 **The Mycobacterium Tuberculosis Transcriptional Network and Autophagy in Human Macrophages/A. Graustein, M. Davis, D. Horne, T. Rustad, G. Peterson, D.R. Sherman, T. Hawn, Seattle, WA, p.A3139**
- 924 **Role of Sphingosine-1-Phosphate (S1P) in Pulmonary Endothelial Cell Autophagy During Cigarette Smoke Exposure/E. Beatman, K. Koike, M.J. Justice, K.S. Schweitzer, I. Petrache, Denver, CO, p.A7611**

POSTER DISCUSSION SESSION

B30 MECHANISMS OF AIRWAY SMOOTH MUSCLE CONTRACTILITY AND RELAXATION: POTENTIAL THERAPEUTIC TARGETS

9:15 a.m. - 11:15 a.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 1-2 (Level M2)

Poster Viewing	9:15-10:00
Discussion	10:00-11:15

Chairing: B. Camoretti-Mercado, PhD, Tampa, FL
S.J. Gunst, PhD, Indianapolis, IN
D.A. Deshpande, PhD, Philadelphia, PA

- 801 **Signaling and Functional Consequences of E-Prostanoid (EP) Receptor Subtype Agonism on Human Airway Smooth Muscles/A. Gavrilu, T. Pera, A. Nayak, A. Ulichney, E. Farrell, T. Chan, R. Penn, Philadelphia, PA, p.A3140**
- 802 **AKAP-PKA Interactions Regulate Airway Smooth Muscle Contractility and Proliferation/B. Han, W.J. Poppinga, H. Meurs, H. Maarsingh, M. Schmidt, Groningen, Netherlands, p.A3141**
- 803 **The S100 Family Protein, S100A4, Regulates Tension Generation in Airway Smooth Muscle (ASM) in Response to Contractile Stimulation by Regulating the Polymerization of Non-Muscle (NM) Myosin/W. Zhang, S.J. Gunst, Indianapolis, IN, p.A3142**
- 804 **An Age Dependent Change in Airway Contractility and Ca²⁺ Signaling of Airway Smooth Muscle in Precision Cut Lung Slices from Mouse and Human/Y. Bai, X. Ai, Boston, MA, p.A3143**
- 805 **Non-Canonical Role of Caspase-7 in Airway Smooth Muscle Contraction During Hypercapnia/M. Shigemura, E. Lecuona, M. Angulo, J. Solway, E. Ceco, L.C. Welch, J.I. Sznajder, Chicago, IL, p.A3144**
- 806 **Effect of Estrogen Signaling on Intracellular Calcium Regulation in Asthmatic Human Airway Smooth Muscle Cells/J. Connell, S. Bhallamudi, M. Thompson, L.J. Manlove, C. Pabelick, Y.S. Prakash, V. Sathish, Rochester, MN, p.A3145**
- 807 **Identification of Endogenous, Disease Relevant Activators of TRPV4 in the Airways/S.J. Bonvini, M. Wortley, M.A. Birrell, M. Belvisi, London, United Kingdom, p.A3146**
- 808 **Airway Smooth Muscle-Derived WNT-5A Drives Allergic Airway Inflammation and Remodeling/T. Koopmans, M. Menzen, R. Smits, R. Gosens, Groningen, Netherlands, p.A3147**
- 809 **Altered Airway Smooth Muscle Mass and Contractile Responses in an Ovalbumin Murine Model of Asthma During the Inflammation Resolution Phase as Assessed by Precision Cut Lung Slices (PCLS) and Immunohistochemistry/C.J. Philp, C. Billington, M.R. Hill, A. Bullock, B. Liu, A.N. Habgood, S. Miller, R. O'Dea, A.L. Tatler, S.R. Johnson, B.S. Brook, Nottingham, United Kingdom, p.A3148**



- 810** **Characterization of 5-HT_{2B} Receptor Antagonists on Airway Function in Murine Precision Cut Lung Slices (PCLS)/A. Lofdahl, C. Wenglen, K. Rydell-Tormanen, G. Westergren-Thorsson, A.-K. Larsson-Callertfelt, Lund, Sweden, p.A3149**
- 811** **Gα12 Mediates Human Airway Smooth Muscle Cell Contraction Via a PI3K/ROCK Axis-Dependent Mechanism/E. Yoo, G. Cao, H. Lam, S. An, R. Panettieri, Jr., New Brunswick, NJ, p.A3150**
- 812** **A Peptide Fragment of Gelsolin Attenuates Acetylcholine-Induced Contraction and Inositol Triphosphate Synthesis in Airway Smooth Muscle/M. Mikami, Y. Zhang, C.W. Emala, New York, NY, p.A3151**
- 813** **Muscarinic Receptors Regulate Beta-2 Adrenoceptor (Beta-2AR) Signaling at Various Loci in Airway Smooth Muscle (ASM) Cells/T. Pera, T. Murphy, E. Farrell, E. Tompkins, R. Penn, Philadelphia, PA, p.A3152**
- 814** **Acute and Subacute Effects of Toll-like Receptor 7 Activation on Airway Sensory Nerves/M.G. Drake, B.J. Proskocil, A. Fryer, D.B. Jacoby, Portland, OR, p.A3153**
- 815** **Micro-Curvature Environment Is a Determinant of Airway Smooth Muscle Cell Orientation and Stiffness During Early Pattern Formation in Culture/L. Deng, Y. Jin, M. Luo, Changzhou, China, p.A3154**
- 816** **microRNA-363-3p Targets Inositol 1,4,5-Triphosphate-Mediated Signaling Pathways in Asthmatic Airway Smooth Muscle/J. Evasovic, M. Ba, S. Favela, C.A. Singer, Reno, NV, p.A3155**
- 817** **Selected Monoterpenes Derived from Essential Oils Relax Human Airway Smooth Muscle Cells Via Ca²⁺ Signaling/J. Huang, S. An, Baltimore, MD, p.A3156**
- 818** **GSTCD Knockout Mice Show a Decreased Contraction of Small Airways Following LPS Treatment/B. Liu, S. Azimi, A. Henry, S. Miller, C. Billington, J. Lee, M. Kotlikoff, I. Sayers, I.P. Hall, Nottingham, United Kingdom, p.A3157**
- 819** **Selective Targeting of Epac's Facilitates Airway Smooth Muscle Relaxation/M. Schmidt, B. Han, E. Kennedy Feitosa, C. Elzinga, H. Maarsingh, A. Oldenburger, Groningen, Netherlands, p.A3158**
- 820** **A Unique Floxed PKI Mouse Reveals Protein Kinase A Dependence of Bronchorelaxing Agents/J. Michael, A. Nayak, R. Yi, T. Chan, R. Penn, Philadelphia, PA, p.A3159**
- 821** **Chloroquine Inhibits Contractile Protein Accumulation in Human Airway Smooth Muscle Cells/J. Wang, Q. Du, J. Solway, B. Chen, Chicago, IL, p.A3160**
- 822** **Photo-Relaxation: Light Mediated Airway Smooth Muscle Relaxation/P.D. Yim, G. Gallos, D.B. Xu, D. Berkowitz, C.W. Emala, New York, NY, p.A3161**
- 823** **Soluble Guanylate Cyclase as an Alternative Target for Bronchodilator Therapy in Asthma/D. Stuehr, A. Ghosh, C. Koziol-White, K. Asosingh, M. Aronica, R.A. Panettieri, S. Erzurum, Cleveland, OH, p.A3162**
- 824** **Bronchodilatory Effect of Deep Inspiration in Freshly Isolated Sheep Lungs/L. Wang, W.D. Wong, P.D. Pare, C.Y. Seow, Vancouver, Canada, p.A3163**

THEMATIC POSTER SESSION

B31 PRE-CLINICAL AND TRANSLATIONAL STUDIES IN ASTHMA**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area K, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

- P981** **Dual AMCase/CHIT1 Inhibitor OAT-889 Reverses Pulmonary Inflammation and Airway Remodeling in Two Mice Models of Airway Inflammation/B. Dymek, M. Mlacki, A.M. Zdziarska, M. Mazurkiewicz, M. Salamon, R. Koralewski, A. Golebiowski, J. Golab, K. Dzwonek, P. Sklepiewicz, Warsaw, Poland, p.A3164**
- P982** **The Effect of Bronchoconstriction by Methacholine Inhalation in Murine Model of Asthma/Y. Miyata, S. Ohta, T. Uno, H. Satou, A. Fujiwara, Y. Uchida, R. Manabe, N. Kuwahara, K. Hirai, M. Jinno, M. Yamaguchi, T. Homma, M. Yamamoto, A. Tanaka, T. Yokoe, H. Sagara, Tokyo, Japan, p.A3165**
- P983** **Using Nocturnal Heart Rate to Assess Asthma Control/M. Huffaker, M. Carchia, B. Harris, D. Cornfield, Palo Alto, CA, p.A3166**
- P984** **Influenza A Virus Causes Chronic Inflammatory Airway Disease Linked Partially to IL-13 Expression/S.P. Keeler, M. Hinojosa, K. Wu, R. Tidwell, J.J. Atkinson, E. Agapov, M.J. Holtzman, St. Louis, MO, p.A3167**
- P985** **Inhibition of Allergic Airway Responses by Synthetic Analogs of Heparin-Derived Super-Sulfated Disaccharide: Critical Role of L-Ilduronic Acid/T. Ahmed, W. Abraham, Miami Beach, FL, p.A3168**
- P986** **Inhibition of Cysteinyl Leukotriene Production in Human Nasal Polyps by Specific LTC₄ Synthase Inhibitor/C. Hamblet, J. Vinblad, M. Rohman, B.-M. Wissing, L. Swedin, L. Hafsten, H. Bergquist, A. Davis, P. Glader, Molndal, Sweden, p.A3169**
- P987** **Club Cell Secretory Protein Deficiency Leads to Altered Lung Function in Naive Mice/J. Ledford, K.J. Addison, J. Rojas-Quintero, S. Guerra, C. Owen, F.D. Martinez, M. Kraft, Tucson, AZ, p.A3170**
- P988** **Short Peptides Derived from the Lectin Domain of Surfactant Protein A2 Attenuate IL-13 Induced Mucin Production in Asthma and Normal Subjects/J. Ledford, D. Francisco, K.J. Addison, A. Manne, D. Voelker, M. Kraft, Tucson, AZ, p.A3171**
- P989** **IL-13 Gene Expression in Endobronchial Biopsies: A Marker of Airway Smooth Muscle Hypercontractility in Severe Equine Asthma?/M. Bullone, R. Boivin, A. Vargas, J.-P. Lavoie, St-Hyacinthe, Canada, p.A3172**
- P990** **A New Inhalation Nanoparticle-Anti-IL-6 Therapy for Treatment of Asthma/M. Rincon, A. Clemments, C. Landy, D. Champagne, Burlington, VT, p.A3173**



- P991** **Differential White Blood Cell Changes During Human Rhinovirus (HRV) Induced Infection in Subjects with Asthma/** A.J. Mann, C. Poll, J. Efthimiou, London, United Kingdom, p.A3174
- P992** **IL-4 Dependent IL17Rb Gene Transcription Requires Coordinate Autocrine IL-25 Signaling in Monocytes and Alveolar Macrophages/**S. Kanth, Q. Gong, J. Tedrow, S.E. Wenzel, R. Mallampalli, N.M. Weathington, Pittsburgh, PA, p.A3175
- P993** **Exhaled Breath Condensate from Asthmatic Patients Deactivates AMPK and Increases Oxidized CaMKII in Human Bronchial Smooth Muscle Cells/**L. Kaphalia, J.L. McCracken, W.J. Calhoun, Galveston, TX, p.A3176
- P994** **Peripheral Blood Mononuclear Cells from Adult Asthmatics Exhibit Altered FcRI and PDL-1 Expression in Response to Human Rhinovirus 16/**C.M. Jungar, C. McCrae, P. Berntsson, L. Ekerljung, R. Mincheva, P. Gustavsson, H. Tornqvist, M.-A. Raneklint, M. Lindqvist, M. Radinger, J. Lotvall, Gothenburg, Sweden, p.A3178
- P995** **Impaired Induction of Slc26a4 Promotes Respiratory Acidosis and Severe, Steroid-Insensitive Asthma/**R.Y. Kim, J.W. Pinkerton, B. Rae, J.R. Mayall, A.C. Brown, M.K. Ali, B. Goggins, A.-T. Essilfie, M.R. Starkey, A. Bosco, J.C. Horvat, P.M. Hansbro, New Lambton Heights, Australia, p.A3179
- P996** **Assessment of Tissue Eosinophilia by Immunohistochemistry in Video-Assisted Thoracoscopic Surgery (VATS) Biopsies from Severe Asthma Patients with or Without Asthmatic Granulomatosis/**L. Neelakandan, H.T. Bittar, S.A. Yousem, D. Doberer, S.E. Wenzel, Pittsburgh, PA, p.A3180

THEMATIC POSTER SESSION

B32 THERAPEUTIC TRIALS IN ASTHMA

9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area K, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: G.E. Zabert, MD, Neuquen, Argentina

- P998** **Improvements in Asthma Symptom Control, Quality of Life, and Perception of Treatment Effectiveness After Omalizumab Initiation in Adolescents and Adults: Results from a 48-Week, Observational Study/**T.F. Carr, E. Gonzalez-Reyes, E. Antonova, B. Trzaskoma, A. Iqbal, S.L. Limb, N.M. Griffin, W. Lumry, Tucson, AZ, p.A3181
- P999** **Asthma Control Status During Pregnancy and Its Relationship with Vitamin D Level: An Observation from the Vitamin D Antenatal Asthma Reduction Trial (VDAART)/**H. Mirzakhani, G.T. O'Connor, L. Bacharier, R.S. Zeiger, M.X. Schatz, S. Weiss, A.A. Litonjua, Boston, MA, p.A3182
- P1000** **Effect of Tiotropium RespiMat® 2.5 µg Add-On to ICS or ICS+Controller Medications on Clinical Outcomes in Adults and Adolescents with Asthma Across Severities/**E.O. Meltzer, A. Shaikh, M. Engel, R. Sigmund, W. Berger, San Diego, CA, p.A3183
- P1001** **Failure to Respond to Systemic Corticosteroids Identifies Severe Asthma Patients with Increased Likelihood of a Longitudinal Decline in Airway Function in the Severe Asthma Research Program/**E. Israel, D. Mauger, R.L. Sorkness, J. Gaffin, F. Holguin, P.G. Woodruff, N. Ly, L. Bacharier, N.R. Bhakta, W.C. Moore, S.P. Peters, E. Bleecker, S.C. Erzurum, W. Phipatanakul, Boston, MA, p.A3184
- P1002** **Effect of Mepolizumab on Health Status, Lung Function and Asthma Control According to Baseline Blood Eosinophil Count in Patients with Severe Eosinophilic Asthma/**J.L. Trevor, F.C. Albers, L.M. Nelsen, D.J. Bratton, J. Wang-Jairaj, E. Bradford, Birmingham, AL, p.A3185
- P1003** **A Randomized, Placebo-Controlled, Double-Blinded, Crossover Trial of the PPAR-γ Agonist, Pioglitazone, for Severe Asthma/**M. Kaler, A.V. Barochia, N. Weir, R. Cuento, M. Stylianou, M. Roth, A. Filie, E. Vaughey, S.D. Nathan, S.J. Levine, Bethesda, MD, p.A3186
- P1004** **Real World Effectiveness and Safety of Anti-IL-5/Mepolizumab in an Academic Severe Asthma Clinic/**P. Zhang, C.A. Vitari, S.E. Wenzel, Pittsburgh, PA, p.A3187
- P1005** **Improvement in Patient-Reported Activity Impairment, Stress, and Tiredness in Patients with Severe, Uncontrolled Asthma with Eosinophilic Inflammation: Pooled Results from Two Phase III Trials of Benralizumab/**S. O'Quinn, X. Xu, I. Hirsch, G. Gopalan, Gaithersburg, MD, p.A3188
- P1006** **Tiotropium RespiMat®: Efficacy in Elderly Asthma Patients/**D.E. Doherty, E.R. Bleecker, P. Moroni-Zentgraf, M. Engel, A. Mueller, H.A.M. Kerstjens, Lexington, KY, p.A3189
- P1007** **Early Decreases in Blood Eosinophil Levels with Reslizumab/**P. Chanez, M. McDonald, M. Garin, K. Murphy, Marseille, France, p.A3190
- P1008** **Short Term Variability of FEV1, Reversibility and ACQ6 During Run-In of a CRD007 Asthma Study/**V. Backer, D. Dencheva, M. Necki, D. Singh, M.F. Flensburg, G. Tornling, Copenhagen, Denmark, p.A3191
- P1009** **Asthma Control in Patients with Severe Eosinophilic Asthma Treated with Mepolizumab/**J.-P. Llanos-Ackert, R.G. Price, M. Forshag, S. Yancey, M.C. Liu, Research Triangle Park, NC, p.A3192
- P1010** **Efficacy and Safety of Budesonide Delivered by Metered Dose Inhaler (MDI) Using a Novel Co-Suspension™ Delivery Technology in Adults with Mild-to-Moderate Persistent Asthma - A Phase IIb Dose-Ranging Study/**S.D. Miller, C. Orevillo, J. Nyberg, P. Dorinsky, C. Reisner, North Dartmouth, MA, p.A3193
- P1011** **Functionality, Reliability, and Performance of an Accessorized Pre-Filled Syringe with Home-Administered Subcutaneous Benralizumab for Adult Patients with Severe Asthma/**G.T. Ferguson, A.H. Mansur, J.S. Jacobs, J. Hebert, C. Clawson, W. Tao, Y. Wu, M. Goldman, Farmington Hills, MI, p.A3194
- P1012** **A Randomized, Double-Blind, Placebo-Controlled, Three-Way Crossover Incomplete Block Study to Assess the Dose Responsiveness of Exhaled Nitric Oxide to Advair® Diskus® in Asthmatic Subjects/**R. Allan, S. Haughie, E.M. Kerwin, J. Ward, Sandwich, United Kingdom, p.A3195



- P1013** **A Randomized Double-Blind Placebo and Active-Controlled Five-Way Crossover Study to Assess the Dose Responsiveness of Methacholine-Induced Bronchial Hyperreactivity to Single Inhaled Doses of Advair® Diskus® in Adult Asthmatics/R.** Allan, S. Haughie, R.C. Ahrens, J. Ward, Sandwich, United Kingdom, p.A3196
- P1014** **Treatment Response of Mepolizumab on Health Status and Asthma Control in Patients with Severe Eosinophilic Asthma/G.** Chupp, F.C. Albers, L.M. Nelsen, D.J. Bratton, J. Wang-Jairaj, E. Bradford, P.W. Jones, New Haven, CT, p.A3197
- P1015** **Comparison of the Clinical Effects Between Once-Daily Fluticasone Furoate/Vilanterole Combination and Twice-Daily Budesonide/Formoterol Combinations in Stable Asthma/K.** Furuhashi, T. Fujisawa, D. Hashimoto, Y. Kamiya, M. Niwa, M. Karayama, M. Kono, Y. Suzuki, H. Hozumi, N. Enomoto, Y. Nakamura, N. Inui, T. Suda, Hamamatsu, Japan, p.A3198
- P1016** **Tolerability of as-Needed Treatment with Budesonide and Formoterol Combination in Adult Patients with Mild Asthma/A.** Tanaka, S. Ohta, M. Yamamoto, M. Jinno, Y. Miyata, K. Hirai, M. Yamaguchi, T. Homma, S. Suzuki, T. Yokoe, H. Sagara, Tokyo, Japan, p.A3199
- P1017** **Response to Omalizumab According to Sensitized Allergens in Patients with Severe Asthma/Y.** Kanemitsu, H. Ichikawa, M. Nishio, T. Asano, K. Fukumitsu, N. Takeda, M. Takemura, T. Uemura, H. Ohkubo, O. Takakuwa, K. Maeno, Y. Ito, A. Nakamura, K. Yoshikawa, A. Niimi, Nagoya, Japan, p.A3200
- P1018** **Short-Term Effectiveness of Bronchial Thermoplasty on Quality of Life and Control in Japanese Patients with Asthma/J.** Hara, T. Sakai, K. Yamamura, S. Watanabe, M. Abo, N. Ohkura, K. Kasahara, F. Asano, Kanazawa, Japan, p.A3201
- P1019** **Fevipirant (QAW039) for Treatment of Patients with Uncontrolled Severe Asthma: Design of LUSTER1, a Phase III One-Year Exacerbation Study/C.E.** Brightling, S.E. Wenzel, C. Brindicci, F. Brockhaus, P. Cardenas, B. Holzhauer, B. Knorr, Leicester, United Kingdom, p.A3202
- P1020** **Two Years Follow Up After Injection Omalizumab Therapy: An Indian Study/D.** Bhattacharyya, S. Singh, T.A. Kumar, Y. Garg, New Delhi, India, p.A3203
- P1021** **Efficacy, Safety and Dose Response of Glycopyrrrolate Metered Dose Inhaler (GP MDI) Delivered Using Co-Suspension™ Delivery Technology in Patients with Intermittent or Mild-to-Moderate Persistent Asthma/E.M.** Kerwin, A. Wachtel, L. Sher, J. Nyberg, P. Darken, C. Orevillo, P. Dorinsky, C. Reisner, Medford, OR, p.A3204
- P1022** **Analysis of the Relationship Between Handheld and Clinic-Based Spirometry Measurements in a Randomized, Double-Blind, Placebo-Controlled Study of Beclomethasone Dipropionate Via Breath-Actuated Inhaler for Persistent Asthma/E.M.** Kerwin, G. Yiu, L. Hickey, C.J. Small, Medford, OR, p.A3205
- P1023** **The Relationship Between Baseline Clinical Characteristics and Efficacy of Omalizumab for 5 Years in Severe Asthma/A.** Watanabe, M. Houjyou, H. Nagase, H. Arai, M. Kuramochi, S. Ro, Y. Tanaka, M. Yamaguchi, K. Ohta, H. Sugiyama, Itabashi-ku, Tokyo, Japan, p.A3206

- P1024** **Assessment of Allergic Profile and Impact on Response to Omalizumab Therapy in Allergic-Asthmatics in a Real-Life Setting - REALITY Study/H.** Singh, San Antonio, TX, p.A3207
- P1025** **Clinical Characteristics of Responders Treated with Bronchial Thermoplasty in Severe Asthmatic Patients/M.** Iikura, S. Ishii, S. Izumi, Y. Yamauchi, M. Hojo, H. Sugiyama, Tokyo, Japan, p.A3208
- P1026** **Serious Asthma Outcomes with Mometasone Furoate Plus Formoterol Versus Mometasone Alone/C.L.J.** Weinstein, D. Gates, N. Ryan, W. Mok, S.J. Lane, I. Agache, R.A. Nathan, Kenilworth, NJ, p.A7612

THEMATIC POSTER SESSION

B33 TH2 ENDOTYPE IN ASTHMA

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area K, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

- P1028** **Immunoglobulin E (IgE) Levels, Allergen Sensitization and Obstruction Indices Define High Eosinophilic Cohorts (HEC, >200 uL) Vs. Low (LEC, <200 uL) in Inner City Severe Asthmatics/J.** Mantas, S. Aslam, M. Ahmad, A. Arslan, R. Dhingra, T. Thakur, N. Tambe, E.S. Schulman, Philadelphia, PA, p.A3209
- P1029** **Relative Allergen Content of Commercial Aspergillus Fumigatus Extracts Determined by Human Monoclonal IgE/M.A.** Wurth, D. Horvath, S.A. Smith, Nashville, TN, p.A3210
- P1030** **Analysis of Serum Allergen-Specific IgE of Patients with Allergic Diseases in Coastal and Inland China/W.** Luo, B. Sun, G. Zeng, Z. Wu, Guangzhou, China, p.A3211
- P1031** **Longitudinal Measures and Variability of Peripheral Blood Eosinophils in Patients in a Severe Asthma Clinic/E.M.** Rakowski, S. Zhao, S.B. Ahuja, M. Liu, K. Doo, N. Durmus, G. Schattner, S. Garofano, J. Reibman, New York, NY, p.A3212
- P1032** **Serum Periostin and Type 2 Helper Composite Score in Optimally Treated Asthmatics/S.** Loukides, E. Konstantellou, G. Papatheodorou, K. Kostikas, E. Papathanasiou, S. Papiris, N.G. Koulouris, P. Bakakos, Athens, Greece, p.A3213
- P1033** **Sputum Eosinophil Longitudinal Variability Effects on Lung Function in the NHLBI Severe Asthma Research Program (SARP) Cohort/A.** Hastie, D. Mauger, L.C. Denlinger, E. Israel, A. Coverstone, J.V. Fahy, B. Phillips, D.A. Meyers, E. Bleeker, Winston-Salem, NC, p.A3214
- P1034** **Anti-Influenza Immunity in Allergic Asthma May Be Regulated by Eosinophils/A.E.** Samarasinghe, K.S. LeMessurier, S. Duan, S. Liedmann, S. Surman, J. Hurwitz, P. Thomas, J. McCullers, Memphis, TN, p.A3215
- P1035** **Predictors and Outcome of Persistent Airway Eosinophilia in Adults with New-Onset Asthma/H.** Coumou, G.A. Westerhof, S.B. De Nijs, E. Bel, Amsterdam, Netherlands, p.A3216



- P1036 Expression Profile of Interleukin-33 (IL-33), Interleukin-1 Receptor Family Member (IL1RL1, ST2) and Thymic Stromal Lymphopoietin (TSLP) in Airway Epithelium from Asthmatic Subjects After Allergen Challenge/D. Al-Sajee, R. Sehmi, T.J. Hawke, A. El-Gammal, K. Howie, R.M. Watson, M. Londei, G.M. Gauvreau, P.M. O'Byrne, Hamilton, Canada, p.A3217**
- P1037 Severe Asthma Phenotypes and Target Therapy: How Eosinophilia May Orient Clinical Practice/M. Latorre, A. Pratico, M.A. Roggi, V. Seccia, S. Cianchetti, C. Cardini, M.L. Bartoli, E. Bacci, F.L. Dente, P. Paggiaro, Pisa, Italy, p.A3218**
- P1038 The Effects of Systemic Corticosteroids on Blood Eosinophil Counts in Patients with Asthma/C. Bell, M.-H. Lafeuille, M.S. Duh, G. Germain, D. Lejeune, B. Hahn, Durham, NC, p.A3219**
- P1039 Influence of Eosinophilic Component of Bronchial Inflammation in Asthmatics on the Development of Airway Response to Physical Load/J.M. Perelman, A.B. Pirogov, L.G. Nakhamchen, A.G. Prikhodko, S.V. Zinov'ev, E.Y. Afanaseva, V.P. Kolosov, A.V. Kolosov, Blagoveshchensk, Russian Federation, p.A3220**
- P497 Sputum RNA-seq Analysis Reveals Novel Asthma Endotypes Characterized by Cell-Type Specific Signatures/L. Ringel, M. Peters, R. Herrin, C. Rios, J.V. Fahy, M.A. Seibold, Denver, CO, p.A3227**
- P498 Transcriptome Analysis of Cigarette Smoking in the COPD Gene Study/M. Parker, R.P. Chase, A. Lamb, J.H. Yun, E.K. Silverman, C.P. Hersh, P.J. Castaldi, Boston, MA, p.A3228**
- P499 The Effect of PiZ Genotype and Augmentation Therapy on Bronchoalveolar Lavage (BAL) and Peripheral Blood Mononuclear Cell (PBMC) Transcriptomes in Alpha-1 Antitrypsin Deficiency/J.-H. Chu, M. Vukmirovic, X. Yan, W. Zang, G. Deluliis, T. Woolard, T. Adams, B. Hu, N. Aurelien, S.M. O'Neal, M. Becich, H. Hochheiser, K.F. Gibson, R.M. Senior, E.S. Chen, A.M. Morris, J.K. Leader, S.R. Wisniewski, Y. Zhang, F.C. Sciurba, R. Sandhaus, C.B. Strange, N. Kaminski, New Haven, CT, p.A3229**
- P500 Genetic Regulation of Expression of Leukotriene A4 Hydrolase/T. Szul, P.J. Castaldi, M.H. Cho, J.E. Blalock, A. Gaggar, Birmingham, AL, p.A3230**
- P501 Airway Levels of CX3CL1 Are Increased in Subjects with Asthma Compared to COPD and Normal Controls/T. Morimoto, J.P. Oliveria, S. Beaudin, A. Schlatman, K. Howie, C. Obminski, G. Nusca, R. Semih, G. Gauvreau, P. O'Byrne, Hirosaki, Japan, p.A3231**
- P502 Participation of CD204 Positive Macrophages in Lungs of Fatal Asthma/Y. Tokunaga, H. Imaoka, Y. Kaku, Y. Morimatsu, Y. Komohara, M. Matsuoka, Y. Sakazaki, T. Kawayama, M. Takeya, T. Hoshino, Fukuoka, Japan, p.A3232**
- P503 Mild Asthma Induces Persistent Mitogenomic Changes in Human Bronchial Epithelial Cells/R.J. Snyder, K. Verhein, A. Burkholder, S. Garantzotis, S. Kleeberger, Durham, NC, p.A3233**
- P504 TRPV2 Gene Polymorphisms Are Associated with Hypoosmotic Airway Hyperresponsiveness in Asthma/D.E. Naumov, O.O. Kotova, A.G. Prikhodko, J.M. Perelman, V.P. Kolosov, Blagoveshchensk, Russian Federation, p.A3234**
- P505 MiR-365-2 Is Involved in IL-17-Mediated Asthma in Mouse Model/Y. Chang, X. Dang, D. Shang, X. Qu, W. Wang, Y. Li, D. Xu, Q. Hamid, Xi'an, China, p.A3235**
- P506 Intranuclear Delivery of Fusion Proteins into the Airway Cells In Vivo/A.V. Fedulov, D. Gregory, C. McGuire, C.A. Owen, J. Quintero, Boston, MA, p.A3236**
- P507 A Genome-Wide Association Study of 58 Patients with Fibrosing Mediastinitis/B. Richmond, Y. Guo, C. Yu, P. Kendall, W.R. Mason, J. Cogan, J.E. Loyd, Nashville, TN, p.A3237**
- P508 Establishing a Primary Epithelial Cell Model to Investigate the Role of microRNAs in IL-13-Mediated Mucus Regulation Using CRISPR/S. Siddiqui, L.R. Bonser, W. Zhao, O. Le Tonqueze, K.D. Koh, L. Zlock, W. Finkbeiner, P.G. Woodruff, D.J. Erle, San Francisco, CA, p.A3238**
- P509 Transcriptome Analysis Revealed Interleukine-13 Signaling Pathway in Human Lung Fibroblasts/H. Takeshima, M. Horie, N. Miyashita, K. Makita, H. Matsuzaki, S. Noguchi, Y. Mikami, H. Urushiyama, A. Mitani, T. Nagase, Y. Yamauchi, Tokyo, Japan, p.A3239**

THEMATIC POSTER SESSION

B34 GENETICS AND GENOMICS OF LUNG DISEASE

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area E, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

- P491 Smoking-Induced Suppression of Airway Epithelial Expression of Histamine Methyltransferase/G. Wang, S.L. O'Beirne, J. Salit, Y. Strulovici-Barel, R.J. Kaner, R.G. Crystal, New York, NY, p.A3221**
- P492 The microRNA Signature of Ischemia Reperfusion Injury in Human Lungs/T.C. Crawford, L. Johnston, J.T. Magruder, J.C. Grimm, C.C. Talbot, R.S. Stephens, R.L. Damico, P.M. Hassoun, E.L. Bush, B.S. Kim, Baltimore, MD, p.A3222**
- P493 RNA-Seq Analysis of Human Neutrophil Transcriptomes Regulated by Nicotinamide Phosphoribosyltransferase with or Without LPS/D.P. Heruth, L.G. Bi, M. Xiong, L.Q. Zhang, S.Q. Ye, Kansas City, MO, p.A3223**
- P494 Local Ancestry Inference in Canary Islanders and Its Use in Admixture Mapping of Asthma/B. Guillen-Guio, A. Barreto-Luis, A. Corrales, M. Pino-Yanes, C. Flores, Santa Cruz de Tenerife, Spain, p.A3224**
- P495 Genetic Analysis of Allergen-Induced Secreted Mucins Identifies Bpifb1 as a Regulator of MUC5B in the Airway/S.N.P. Kelada, A. Livraghi-Butrico, L.J. Donoghue, K. McFadden, J.M. Thomas, G. Chen, W. O'Neal, R.C. Boucher, Chapel Hill, NC, p.A3225**
- P496 IL-13 Dramatically Alters Airway Epithelial Cell Gene Expression and Enhancer Activity Leading to Mucus Plugging in Asthma/L.R. Bonser, L. Liu, J. Pollack, W. Eckalbar, L. Zlock, W. Finkbeiner, S. Siddiqui, P.G. Woodruff, N. Ahituv, D.J. Erle, San Francisco, CA, p.A3226**



- P510** **Effect of Particulate Matter 2.5 on the Expression and DNA Methylation Pattern of Asthma-Related Genes in Bronchial Epithelial Cells/P.** Tripathi, F. Deng, A. Scruggs, Y. Chen, S.K. Huang, Ann Arbor, MI, p.A3240
- P511** **A STAT1 Network Is Associated with Recurrent Asthma Exacerbations Triggered by Respiratory Infections/M.P.** Diaz Soto, J.L. Gomez, Bogota, Colombia, p.A3241
- P512** **Dysregulation of Metabolic Pathways Underlies Development of Allergic Asthma/M.** Schedel, K. Quinn, Y. Nkrumah-Elie, A. Joetham, M. Armstrong, C. Cruickshank-Quinn, R. Reisdorph, E.W. Gelfand, N. Reisdorph, Denver, CO, p.A3242
- P513** **Asthma Genes and Pathways Associated with Infant RSV and RV Lower Respiratory Tract Infection/E.K.** Larkin, J.D. Mosley, C. Stone, K.N. Turi, K. Costello, J.D. Chappell, T. Hartert, Nashville, TN, p.A3243
- P514** **17q21 Gene Variance Increases the Risk of Exacerbations in Asthmatic Children Treated with Inhaled Corticosteroids: A Meta-Analysis in the PiCA Consortium/N.** Farzan, S. Vijverberg, N. Hernandez-Pacheco, V. Berce, E.G. Burchard, G. Canino, J.C. Celedon, M.M. Cloutier, E. Forno, B. Francis, D. Hawcutt, M. Kabisch, L. Karimi, E. Melen, S. Mukhopadhyay, S. Nilsson, C. Palmer, M. Pino-Yanes, M. Pirmohamed, U. Potocnik, J. Raaijmakers, K. Repnik, M. Schieck, R. Smyth, K. Tantisira, S. Turner, K. Verhamme, A.-H. Maitland-van Der Zee, Amsterdam, Netherlands, p.A3244
- P515** **Rare, Pathogenic CFTR Variants Are Associated with Lung Function in a Multi-Ethnic Population from the Severe Asthma Research Program (SARP)/C.R.** Barrios, V.E. Ortega, E.J. Ampleford, W.W. Busse, M. Castro, S.C. Erzurum, E. Israel, E.J. Pennington, S.E. Wenzel, G. Hawkins, E.R. Bleeker, D.A. Meyers, Winston-Salem, NC, p.A3245
- P516** **Infant Gut Microbiota, Pet Ownership and Infant Wheeze/A.** Kozyrskyj, M. Tun, H. Tun, T. Konya, D. Guttman, R. Chari, C. Field, A. Becker, P. Mandhane, S. Turvey, P. Subbarao, M. Sears, J. Scott, Edmonton, Canada, p.A3246
- P517** **The Role of Histone Arginine Methylation in Gene Expression of Airway Smooth Muscle Cells in Asthma/K.A.** Kaczmarek, R.L. Clifford, J.K. Patel, D. Shaw, J. Dowden, A.J. Knox, Nottingham, United Kingdom, p.A3247
- P518** **Identifying Stable and Dynamic CpG Sites Pre- and Post-Adolescence Transition Via a Longitudinal Genome-Scale Study/L.** Han, H. Zhang, S. Oggu, A. Kaushal, H. Arshad, W. Karmaus, J. Holloway, S. Ewart, Memphis, TN, p.A3248
- P519** **Effect of the CHI3L1 rs4950928 Polymorphism on IgE and Regular Treatment of Response in a Cohort Study/L.** Zhang, Allston, MA, p.A3249
- P520** **Increased Serum CX3CL1 (Fractalkine) Levels in Asthma Patients with Psychological Symptoms/M.** Zhu, Y. Ji, Chengdu, China, p.A3250
- P521** **Activation of Autophagy Pathway in Asthmatic Airways/K.** Hise, H. Wang, Q. Liu, D. Su, L. Gao, Baltimore, MD, p.A3251
- P522** **HLA Associations Differ in European Americans and African Americans with Idiopathic Inflammatory Myopathy Associated Interstitial Lung Disease/C.** Johnson, A. Schiftenbauer, L. Rider, T. O'Hanlon, F. Miller, S. Danoff, Baltimore, MD, p.A7613

- P523** **Integrative Analysis of Genomics and Transcriptomics Identifies Association of PSMA4 with Emphysema/P.** Sakornsakolpat, J.D. Morrow, P.J. Castaldi, C.P. Hersh, E.K. Silverman, A. Manichaikul, M.H. Cho, Boston, MA, p.A7614
- P524** **Genome-Wide Association Study of Asthma in Individuals of Mixed African Ancestry Reveals a Novel Association on Chromosome 2q14/M.** Daya, N.M. Rafaels, S. Chavan, M. Boorgula, H.R. Johnston, J. Wilson, L.K. Williams, C. Rotimi, C. Ober, D. Meyers, E. Bleeker, V.E. Ortega, J. Knight-Madden, N. Hansel, H. Watson, M.U. Faruque, G.M. Dunston, L. Caraballo, M.I. Araujo, E.G. Burchard, M. Taub, I. Ruczinski, T. Beaty, Z.S. Qin, R. Mathias, K.C. Barnes, Denver, CO, p.A7615

THEMATIC POSTER SESSION

B35 TRANSLATIONAL STUDIES IN LUNG TRANSPLANTATION

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area E, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

- P526** **Natural Killer Cell Maturation Is Associated with Acute Infection in Lung Transplant Recipients/D.R.** Calabrese, A. Wang, T. Chong, M. Gottschall, W. Karlon, J. Kukreja, L. Leard, M.E. Kleinhenz, R.J. Shah, J.P. Singer, J.A. Golden, S. Hays, J.R. Greenland, San Francisco, CA, p.A3252
- P527** **A Novel Strategy for Increasing the Pool of Donor Lungs Available for Transplant/Y.B.** Tan, B.O. Obiako, V.M. Pastukh, G.C. Capley, J.D. Simmons, M.N. Gillespie, Mobile, AL, p.A3253
- P528** **Lung Epithelial Chimerism After Allogeneic Hematopoietic Stem Cell Transplantation/H.** Salvator, A. Judet, C. Copie-Bergman, L. Zemoura, E. Longchamp, E. Rivaud, E. Catherinot, L.-J. Couderc, Suresnes, France, p.A3254
- P529** **Avian Lung Bioengineering/E.D.** Griswold, S.M. Wrenn, F.E. Uhl, A.L. Coffey, J.S. Dearborn, R.J. Hommel, B.A. Ahlers, B. Deng, Y.-W. Lam, D.E. Wagner, D.J. Weiss, Burlington, VT, p.A3255
- P530** **Stratification of Chronic Lung Allograft Dysfunction Phenotypes Using Proteomic Profiling Of Bronchoalveolar Lavage-Fluid/N.F.** Smirnova, H.B. Schiller, N. Kneidinger, J. Behr, M. Mann, O. Eickelberg, Munich, Germany, p.A3256
- P531** **Forkhead BOX F1 Is a Negative Regulator of Inflammatory Responses in Human Lung-Resident Mesenchymal Stem Cells/P.** Cao, N. Walker, Y. Aoki, V.N. Lama, Ann Arbor, MI, p.A3257
- P532** **Autotaxin as a Therapeutic Target for Bronchiolitis Obliterans After Lung Transplantation/P.** Cao, Y. Aoki, N. Walker, V.N. Lama, Ann Arbor, MI, p.A3258
- P533** **Role of Alpha 1-Antitrypsin and Human Neutrophil Elastase in BALf of Lung Transplant Recipients: Preliminary Data/F.** Meloni, I. Ferrarotti, D. Piloni, S. Viglio, M. Cagnoni, M. Gorrini, M. Di Venere, S. Magni, R. Salvini, A.M. Bardoni, P. Iadarola, Pavia, Italy, p.A3259



- P534** **PI3Kinase Dependent Regulation of Sin1 by Pro-Fibrotic Mediators in Lung-Resident Mesenchymal Cells/N.** Walker, D. Fingar, V.N. Lama, Ann Arbor, MI, p.A3260
- P535** **Endoscopically-Directed, Chemical (2% Polidocanol) Injury in the Ferret: A Model of Distal Airway Injury/A.M.** Swatek, A. Crooke, T.J. Lynch, B.H. Rosen, P.J. Anderson, L.A. Brooks, J.F. Engelhardt, K.R. Parekh, Iowa City, IA, p.A3261
- P536** **Identification of Distinct Resident Mesenchymal Cell Populations in Adult Lungs/R.R.** Braeuer, N. Walker, P. Cao, Y. Aoki, V.N. Lama, Ann Arbor, MI, p.A3262
- P537** **Complement Inhibition in Brain Dead Donors Mitigates Post-Lung Transplantation Inflammation and Injury in a Murine Model/K.** Patel, Q. Cheng, B. Liu, D.P. Allen, R. Finnegan, S.N. Nadig, C. Atkinson, Charleston, SC, p.A7616
- P538** **Use of a Novel Formyl Peptide Receptor Ligand and Noninvasive SPECT Imaging to Diagnose and Monitor Ischemia-Reperfusion Injury After Lung Transplantation/V.E.** Laubach, E.J. Charles, M.D. Chordia, A.K. Sharma, J.H. Mehaffey, Y. Zhang, D.K. Glover, I.L. Kron, D. Pan, Charlottesville, VA, p.A7617

THEMATIC POSTER SESSION

B36 MACROPHAGES: BASIC AND TRANSLATIONAL STUDIES**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area E, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

- P540** **Alveolar Macrophage Secretion of Suppressor of Cytokine Signaling 3 Is Dysregulated in a Mouse Model of Lung Cancer/J.M.** Speth, D.J. Schneider, V.G. Keshamouni, M. Peters-Golden, Ann Arbor, MI, p.A3263
- P541** **S. Aureus Blocks Efferocytosis of Neutrophils by Macrophages Through the Activity of Its Virulence Factor Alpha Toxin/O.** Jones-Nelson, T.S. Cohen, M. Hotz, L. Cheng, J. Suzich, C.K. Stover, B. Sellman, Gaithersburg, MD, p.A3264
- P542** **Alveolar Macrophages from Human Smokers and Heat-Killed Streptococcus Pneumoniae Together Polarize CD4+ T-Cells Towards a Treg Phenotype/M.R.** Kady, V.R. Stolberg, L. McCloskey, C.M. Freeman, J.L. Curtis, Ann Arbor, MI, p.A3265
- P543** **Human Mesenchymal Stromal Cells Enhance Phagocytosis and Phagosomal Reactive Oxygen Species Production in Macrophages Through Production of Lipoxin A4 and Prostaglandin E2/R.** Rabani, A. Volchuk, M. Jerkic, J. Laffey, K. Szaszi, G.F. Curley, Toronto, Canada, p.A3266
- P544** **Interferon Gamma Null Mice Lose Less Weight and Have More CD64+, Siglec-F+, Ly6C^{lo} Alveolar Macrophages During S. Pneumoniae Pneumonia than Wild Type Mice/O.** Giddings, J. Mock, J.C. Gomez, J.R. Martin, C.M. Doerschuk, Chapel Hill, NC, p.A3267

- P545** **Chronic Cigarette Smoke Exposure Increases the Number of Lung Tissue Macrophages with Greater Changes in the M1 than the M2 Phenotype in Both Humans and Mice/N.** Shetty, M. Aksoy, G. Calendo, M.R. Wolfson, S. Kelsen, Philadelphia, PA, p.A3268
- P546** **Distinct Functions of Toll-Interacting Protein (TOLLIP) Isoforms in Inflammatory Regulation/P.-C.** Hou, S.-F. Ma, R.-T. Huang, D. Wu, M. Krause, C. Flores, Y. Fang, I. Noth, Chicago, IL, p.A3269
- P547** **Apoptosis Signaling and Interaction of Toll-Interacting Protein (TOLLIP) Isoforms with Antioxidant N-Acetylcysteine (NAC)/P.-C.** Hou, S.-F. Ma, R.-T. Huang, D. Wu, M. Krause, C. Flores, Y. Fang, I. Noth, Chicago, IL, p.A3270
- P548** **S-Nitrosylation of Clopidogrel Inhibits LPS Induced Macrophage Activation Through NO/Soluble Guanylate Cyclase Pathways/C.** Guo, S. Kamat, X. Xu, A. Gow, Piscataway Township, NJ, p.A3271
- P549** **The Macrophage-Like Cell Lines THP-1 and U937 Are Differentially Inclined Towards M1 and M2 Phenotypes/A.** Dintakurti, N. Dauletbaev, R. Hamed, L.C. Lands, Montreal, Canada, p.A3272
- P550** **Azithromycin Decreases NALP3 Expression in THP-1 Cells/E.A.** Lendermon, T.A. Coon, J.S. Bednash, N.M. Weathington, J.F. McDyer, R.K. Mallampalli, Pittsburgh, PA, p.A3273
- P551** **Novel Role of Epidermal Growth Factor Receptor in Macrophages/A.M.** Mulenios, Y. Sun, A. Kalinowski, J.O. Joerns, M. Haslip, E. D'Amico, B. Clark, J.L. Koff, New Haven, CT, p.A3274
- P552** **TRIM72 Regulates Complement Phagocytosis in Alveolar Macrophage Via Facultative Inhibition of CRIg/N.** Nagre, X. Cong, C. Terrazas, J.M. Schreiber, A. Satoskar, X. Zhao, Norfolk, VA, p.A3275
- P553** **House Dust Mite-Derived Proteases Induce Apolipoprotein E Secretion from Asthmatic Alveolar Macrophages Via a ROS-Dependent Pathway/E.M.** Gordon, H. Xu, X. Yao, A.V. Barochia, M. Kaler, R. Cuento, S.J. Levine, Bethesda, MD, p.A3276
- P554** **Alveolar Macrophages Regulate the Susceptibility of Alveolar Epithelial Cells to Influenza Virus Infection/L.A.L.** Somerville, A. Cardani, T. Braciale, Charlottesville, VA, p.A3277
- P555** **The Receptor for Advanced Glycation End Products (RAGE) Influences Macrophage Polarization/A.** Badke, J. Lee, D. Woller, T. Huecksteadt, A. Sturrock, K. Sanders, R. Paine, M. Mir-Kasimov, Salt Lake City, UT, p.A3278

THEMATIC POSTER SESSION

B37 INNOVATIONS IN PROFESSIONAL EDUCATION**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area B, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators



Facilitator: J.A. Gold, MD, Portland, OR

- P75 Teaching Skills of Quality Improvement in a Subspecialty Fellowship: A Team Project in the Ambulatory Setting/S.** Chakupurakal, M. Mohanraj, J. Shapiro, M. O'Sullivan, New York, NY, p.A3279
- P76 Facilitating Quality Improvement (QI) Integration: The Chief Resident for Quality and Patient Safety (CRQS)/W.** Brown, M.E. Conroy, P. Formanek, C.M. Worsham, L. Swamy, H. Shanawani, Salt Lake City, UT, p.A3280
- P77 Resident Projects in Pulmonary Medicine Quality Improvement and Patient Safety: Review of Projects under the VA-CRQS Program/P.** Formanek, W. Brown, C.M. Worsham, M.E. Conroy, L. Swamy, H. Shanawani, Hines, IL, p.A3281
- P78 Five Year Evaluation of an Interactive Respiratory Therapy Curriculum in Pediatric Pulmonology Fellowship Training/N.** Villafranco, J. Lawrence, M. Jolly, L. Traplena, J. Rama, Houston, TX, p.A3282
- P79 Playing an End-of-Life Conversation Game Helps Chaplains-in-Training Become More Confident Initiating End-of-Life Conversations with Patients/T.** Bohr, E. Martin, B.H. Levi, M. Green, L.J. Van Scoy, Hershey, PA, p.A3283
- P80 Successful Use of a Simulation Laboratory as a Tool to Decrease Central Line Blood Stream Infections (CLABSI)/S.** Baez, W. Rodriguez-Cintron, A. Espaillat, C. Diaz, O. Cantres-Fonseca, San Juan, PR, p.A3284
- P81 Simulations Sessions Focusing on the Pragmatic Aspects of Running a Code Improve Resident Comfort During Real-Life Code Scenarios/S.J.** Cassady, K.T. Meinhof, N. Li, H. Poor, New York, NY, p.A3285
- P82 Creation and Implementation of a Multi-Institutional Simulation-Based Airway Management Course for Critical Care Attendings/J.** Mathew, K. Rose, A. Sotelo, S. Kurtz, L. Eisen, D. Fein, M. Duttuluri, P. Patrawalla, H. Poor, N. Elahi, P. Kischak, S. Mudiraj, D. D'Angelo, A. Nemes, D. Feldman, H. Khouli, New York, NY, p.A3286
- P83 Standardize the Pulmonary and Critical Care Medicine Fellowship Selection Process/B.A.** White, H.D. White, S. Ghamande, Temple, TX, p.A3287

Facilitator: B. Coruh, MD, Seattle, WA

- P84 Simulation Training Improves Intern Code Captain Readiness for Code Blue Execution/G.** Tsai-Nguyen, C. Columbus, A. Mora, Dallas, TX, p.A3288
- P85 Multidisciplinary Low-Fidelity Code Blue Simulation Training Improves House Staff Comfort with Code Blue Events at a Tertiary Medical Center/E.A.** Yu, M. Dhande, W. Gionfriddo, D. Harris, N.M. Pradhan, J. Fouad, K.E. Roberts, Boston, MA, p.A3289
- P86 Simulation Training Reveals Code Blue Execution Challenges in Tracheostomy Patients/A.** Mora, G. Tsai-Nguyen, A. Smith, C. Columbus, Dallas, TX, p.A3290
- P87 An Application of Malcolm Knowles' Principles of Andragogy to Learner-Centred Teaching in the Intensive Care Unit/P.-A.** Lepine, D.A. Hall, Toronto, Canada, p.A3291

- P88 Knowledge, Attitudes and Practices Among Critical Care Professionals Towards Patient-Ventilator Asynchrony: A Pilot Survey/M.L.A.** Sousa, M.I.Z. Feltrim, F. Diniz-Silva, F.K. Hayashi, C.R.R. Carvalho, J.C. Ferreira, Sao Paulo, Brazil, p.A3292
- P89 Critical Care Ultrasound Training Standardization: Southern California Experience/Z.** Anklesaria, R.Y. Cortes Lopez, C.-F. Chang, P. Kory, J. Williams, I. Barjaktarevic, Los Angeles, CA, p.A3293
- P90 Stress Evaluation During Endotracheal Intubation on a Simulation Model/E.** L'Her, N.S. Marjanovic, C. Teiten, Brest, France, p.A3294
- P91 Assessment of a Critical Care Ultrasound Fellowship Curriculum/D.** Pham, A. Trivedi, A. Anderson, St. Louis, MO, p.A3295
- P92 Graduating Fellows' Procedural Comfort Level with Pulmonary Critical Care Procedures/W.W.** Wong, D. Knox, Worcester, MA, p.A3296

Facilitator: J. Chiarchiaro, MD, MS, Pittsburgh, PA

- P93 Do Standardized Order Sets Adversely Affect Medical Education? A Performance Improvement Project Managing Diabetic Ketoacidosis Patients/J.** Bellardini, L.M. Jones, A. Bajwa, J. Cury, V. Seeram, A. Babbar, J. Ferreira, Jacksonville, FL, p.A3297
- P94 Evaluation of TEAM Dynamics Before and After Long Distance, Virtual Simulation Training Utilizing CERTAIN Platform/K.** Pennington, Y. Dong, B. Wang, H. Coville, O. Gajic, D. Kelm, Rochester, MN, p.A3298
- P95 To Tweet or Not to Tweet? Regularly Is the Answer: Lessons from the American Thoracic Society Assembly Twitter Accounts/C.L.** Carroll, A.S. Clay, B.E. Himes, A.C. Wu, B. Seay, M.P. George, V.S. Raju, W.G. Carlos, Hartford, CT, p.A3299
- P96 Where Are the Pediatricians? ATS International Meeting Pediatric Content Dissemination and Social Media: A Hashtag Analysis/S.S.** Barnes, C.L. Riley, S.R. Kudchadkar, Baltimore, MD, p.A3300
- P97 Success of Personalized Education in Improving Targeted Treatment in PAH/J.** Spyropoulos, C.C. Capparelli, M. Warters, D. Blevins, New York, NY, p.A3301
- P98 Management of PAH: Online CME Improves Knowledge and Confidence of Specialists/J.** Spyropoulos, K. Hanley, S. Hughes, New York, NY, p.A3302
- P99 Improving Clinical Decisions in PAH Management: Simulation in Continuing Education/J.** Spyropoulos, K. Hanley, M. Warters, D. Blevins, New York, NY, p.A3303
- P100 Implementation of a Multifaceted Faculty Development Program/J.M.** Sill, M.H. Hooper, H.L. Newton, A.C. Parks-Savage, Norfolk, VA, p.A3304
- P101 An Innovative Continuity Clinic Pilot Study Featuring the 'Fellow of the Day'/D.J.** Kelm, J. Skalski, K. Ramar, Rochester, MN, p.A3305



THEMATIC POSTER SESSION

B38 ASTHMA: A PANORAMIC VIEW**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area K, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** S. Pakhale, MD, MSCE, Ottawa, Canada

- P1041 A Standardized Electronic Medical Records Database Has Enabled Epidemiologic Studies and Revealed the Change in Asthma Therapy Among the Different Hospitals Which Have Incompatible Hospital Information Systems/C. Okada, S. Imai, H. Horiguchi, K. Fushimi, Tokyo, Japan, p.A3306**
- P1042 Medication Use and Lung Function Among Asthmatics Seen in an Outpatient Chest Clinic in Addis Ababa, Ethiopia: A Needs Assessment/T. Haile, D. Kebede, A. Binegdie, M. Getachew, M. O'Donnell, N.W. Schluger, C.B. Sherman, Addis Ababa, Ethiopia, p.A3307**
- P1043 The Burden of Asthma: Healthcare Utilization Patterns in Puerto Rico/L.M. Lewis, M. Lozier, J. Morales Gonzalez, C. Kennedy, J. Shriber, D. Stearns, M. Soto Santiago, J. Irizarry Ramos, B. Rivera-Garcia, B. Bolanos, Atlanta, GA, p.A3308**
- P1044 Assessing Disparities in Patient/Provider Asthma Care Communications- National Health Interview Survey/L.M. Lewis, M. Lozier, H. Zahran, Atlanta, GA, p.A3309**
- P1045 Problems in Elderly Asthma/B. Gemicioglu, B. Musellim, F. Ozgokce, I. Calik, O. Merzifonlu, Istanbul, Turkey, p.A3310**
- P1046 Real-World Evaluation of Asthma Control, Management and the Shifting Over Eight Years: Findings from China National Asthma Control Surveys/D. Yang, W. Wang, J. Lin, Shanghai, China, p.A3311**
- P1047 Disease Severity in Newly Diagnosed Asthma Patients and Initial Treatment Response Following 12 Weeks Treatment in China - an Interim Analysis of the INITIAL Study/J. Lin, H. Tang, H. Liu, M. Jin, P. Pan, C. Liu, X. Zhou, Y. He, W. Song, M. Zhang, Beijing, China, p.A3312**
- P1048 Poor Asthma Control Despite Medication Use in Patients with Severe Symptoms and Elevated Eosinophil Levels/C. Martin, J.C. White, L. Bengston, S.X. Sun, Eden Prairie, MN, p.A3313**
- P1049 Burden of Disease of Severe Uncontrolled Asthma: A European Study/A. Meyers, S.X. Sun, J. Nicolai, Y. Morimoto, M. DiBonaventura, New York, NY, p.A3314**
- Facilitator:** M.O. Clutter, PhD, Dallas, TX
- P1050 Evaluating the Burden of Asthma-Related Exacerbations: Findings from Patient and Physician Online Focus Groups/C.M. Averell, P.T. Johnson, B. Essoi, C.T. Bell, Durham, NC, p.A3315**

- P1051 Factors Associated with Level of GP Service Use in Asthma: Longitudinal Analysis of Data from 1921-26 and 1946-51 Cohorts of Australian Longitudinal Study on Women's Health (ALSWH)/P. Eftekhari, P. Forder, M. Harris, J. Byles, Callaghan, Australia, p.A3316**
- P1052 Does the Type, and Presence, of Primary Care in Edmonton Influence Asthma Control and Severity?/M. Dimitrov, S. Chandrarathne, S. Corrick, H. Hitchings, M. Smith, K. MacKay, J. Peters, C. Ross, A. Kaplan, R. Padwal, D. Cockcroft, D. Vethanayagam, Edmonton, Canada, p.A3317**
- P1053 Thirty Day Re-Hospitalization Rates of Asthmatic Patients in Community Based Hospitals in the US/C. Wood, M. Sandhu, S. Stiles, P. Varma, J. Alderson, H. Luong, L. Albrecht, B. Peppers, R. Hostoffer, Richmond Heights, OH, p.A3318**
- P1054 A Respiratory Care Enhancement Program: Integrating Advanced Practice Provider-Delivered Specialty Care into the Primary Care Setting/C. Leighton, S.E. Wenzel, L. Reid, J. Furnier, B. Reynolds, Pittsburgh, PA, p.A3319**
- P1055 Living with Asthma: Patients' Drawings of Their Perceptions and Experiences/M.M.Y. Cheung, B. Saini, L. Smith, Camperdown, Australia, p.A3320**
- P1056 Child Family Adversities, Parenting Support, and Child Asthma Morbidity Among Ethnically Diverse Families in North Texas/ M.O. Clutter, C. Sanders, J. Reingle-Gonzalez, K. Jetelina, S. Baidhya, R. Tsai, Dallas, TX, p.A3321**
- P1057 Using a Co-Design Approach to Develop an Appealing Goal-Setting and Self-Management App for Young People with Asthma/J.M. Foster, D. Peters, S. Davis, R. Calvo, S. Sawyer, L. Smith, Sydney, Australia, p.A3322**
- P1058 The Development, Usability and Acceptability of an Online Self-Management Intervention for Adolescents with Uncontrolled Asthma/J.-M. Bruzzese, E. Brown, J. McMillen, J. Thomas, M.R. George, D. Evans, K. Pifer, K. Kocher, New York, NY, p.A3323**
- Facilitators:** L.B. Gerald, MSPH, PhD, Tucson, AZ
I.K. Oguzulgen, MD, Ankara, Turkey
- P1059 Developing a Web-Based Educational Module for Teaching Inhaler Technique Using a Snowball Qualitative Focus Group Approach/M. Wu, N. Woodrick, V. Arora, J.M. Farnan, V.G. Press, Chicago, IL, p.A3324**
- P1060 What Do Patients with Asthma and COPD Prefer About Social Media? A Latin-American Multicenter Study/J.A. Cano, A. Cherrez, O.R. Lopez Jove, G.D. Ramon, B.M. Morfin-Maciel, E. Mattos, R. Hoyos, S. Cherrez, K. Plaza, J. Gutierrez, J.C. Calderon, I. Cherrez Ojeda, Samborondon, Ecuador, p.A3325**
- P1061 Digital Health Intervention for Asthma: Patient Perception of Usability and Value for Self-Management/R. Merchant, R. Inamdar, K. Henderson, M.A. Barrett, D. Van Sickle, Woodland, CA, p.A3326**
- P1062 Barriers and Facilitators to Self-Carry of Inhalers in School: A Qualitative Study of Children with Asthma/G. Sridharan, A. Spalding, V.G. Press, A. Volerman, Chicago, IL, p.A3327**
- P1063 Identifying Perceptions of Parents as Children Transition into Autonomous Inhaler Use/S.Z. Bosnic-Anticevich, P. Srou, E. Azzi, C.S. Rand, Glebe, Australia, p.A3328**



P1064 Overcoming Inhaler Misuse: Looking Outside the Healthcare Setting for Assessment and Education/A. Volerman, A. Hull, S. Ignoffo, V.G. Press, Chicago, IL, p.A3329

P1065 New Measures of Adherence to Inhaled Therapy in Patients with Asthma/C. Nguyen, J.M. Foster, H. Reddel, C. Thamrin, Sydney, Australia, p.A3330

P1066 Placebo Pressurized Metered Dose Inhalers (pMDIs): Understanding How to Maximize Our Use of These Valuable Training Aids/M.J. Sanders, Harlow, United Kingdom, p.A3331

P1067 Effects of a Refresher Seminar for Inhalation Therapy Instructors Provided as a Form of Practical Training/Y. Komase, C. Yoshimura, A. Shiraki, I. Higashimoto, T. Oguma, T. Horie, Yokohama, Japan, p.A3332

Facilitator: A. Volerman, MD, Chicago, IL

P1068 The Asthma Action Plan and the Air Quality Index: A Patient Centered Outcomes Pilot Survey Conducted at an Inner City Community Teaching Hospital/C. Jinadasa, A. Kwok, H. Bajwa, J. Loprete, K. Kodroff, R. Mukherji, N.A. Pasco, Brooklyn, NY, p.A3333

P1069 Respondent Understanding and User Experience with the Asthma Daily Symptom Diary (ADSD), a Novel Patient-Reported Outcome Measure/L.M. Nelsen, A. Gater, N. Bonner, R. Hall, H. Staunton, S. Eremenco, Collegeville, PA, p.A3334

P1070 Preliminary Psychometric Evaluation of the Asthma Daily Symptom Diary (ADSD)/L.M. Nelsen, A. Gater, C. Coon, N. Bonner, R. Hall, H. Staunton, S.J. Coons, Collegeville, PA, p.A3335

P1071 Applying the COM-B Model to Designing a Tailored Physical Activity Intervention for Sedentary African American Women with Asthma/S. Nyenhuis, J. Ma, L. Sharp, Chicago, IL, p.A3336

P1072 Community Health Worker Case-Detection of Asthma in a Resource-Poor Community in Nicaragua/M. Crocker, C.E. Loughlin, S. Becker-Dreps, Chapel Hill, NC, p.A3337

P1073 Adherence and Asthma Related Exacerbations Associated with Once Daily Fluticasone Furoate/Vilanterol and Twice Daily Budesonide/Formoterol/R.H. Stanford, E.D. Parker, A. Buikema, Research Triangle Park, NC, p.A7618

P1074 Preliminary Evaluation of an Adult Asthma Adherence Management Program/A. Weinstein, D. Gentile, A. Singh, D. Skoner, J. Maiolo, R. Sharara, K. Ma, T. Cheema, E. Butler, A. Kong, Rockland, DE, p.A7619

P1075 The Knowledge of Secondary School Teachers in Urban Schools in Lagos About Asthma/O.O. Adeyeye, Y.A. Kuyinu, R.T. Bamisile, Ikeja, Nigeria, p.A7620

Facilitator: A.H. Case, MD, Atlanta, GA

P103 Broncholithiasis in a Patient with Unexplained Necrotizing Granulomas/F. Zahiruddin, T. Majumdar, Houston, TX, p.A3338

P104 A Case of Intravenous and Subcutaneous Air in a Patient with Intractable Cough/L. Krveshi, T. Everett, D. Oelberg, Danbury, CT, p.A3339

P105 A Case of Pulmonary Lymphangiosis Carcinomatosa Owing to Colorectal Cancer Presenting Solely with Chronic Cough/M. Okayama, Y. Kanemitsu, T. Uemura, O. Takakuwa, H. Okubo, M. Takemura, K. Maeno, Y. Ito, T. Oguri, A. Nakamura, A. Niimi, Nagoya, Japan, p.A3340

P106 TB or Not TB: That Is the Question/V. Brady, J.D. Possick, A. Zinchuk, New Haven, CT, p.A3341

P107 Tracheocele: A Rare but Clinically Relevant Entity/R.A. Leonard, K. Hussain, Morgantown, WV, p.A3342

P108 Delayed Diagnosis of Fourth Brachial Cleft Cyst Presenting as Chronic Cough/A. Fasanya, F. Pedersen, V. Gandhi, R. Sharara, T. Cheema, Pittsburgh, PA, p.A3343

P109 An Unusual Cause of Chronic Productive Cough in an Immunocompetent Female/K. Spencer, O. Lewis, A. Thomas, Washington, DC, p.A3344

Facilitator: M. Seidelman, MD, Silver Spring, MD

P110 Chronic Cough of Unknown Primary/G.M. Molina-Pallete, C. Ray, Detroit, MI, p.A3345

P111 Chronic Cough: A Case of Obfuscation/S. Soman, N. Ramesh, M. Mercader, A. Adams, New York, NY, p.A3346

P112 Not All Coughs Are Due to Upper Airway Cough Syndrome: An Unusual Manifestation of Endobronchial Hamartoma/S. Ahmed, A. Arshad, M.J. Mador, Buffalo, NY, p.A3347

P113 Primary Endobronchial Leiomyoma: A Rare Benign Pulmonary Neoplasm/M. Nagaraja, R. Abdul Rahman, J. Faress, Cleveland, OH, p.A3348

P114 Pancreaticobiliary Adenocarcinoma Presenting as Chronic Cough/M.L. McCutcheon, N. Kamangar, Sylmar, CA, p.A3349

P115 High-Attenuation Mucoid Impaction/A. Agrawal, A. Palkar, H. Steinberg, New Hyde Park, NY, p.A3350

P116 A Case Report of Intercostal Hernia: A Rare Cough- Induced Spontaneous Lung Herniation/F. Alfakeri, E.A. Saunders, Huntington, WV, p.A3351

Facilitator: R.S. Irwin, MD, Worcester, MA

P117 Isolated Left Upper Lobe Trachobronchopatia Osteochondroplastica/A. Krvavac, J. Piao, D. Stoeckel, St. Louis, MO, p.A3352

P118 Solitary Bronchial Papilloma; A Rare Differential for Bronchial Obstruction with Malignant Potential/S. Hashim, Worcester, MA, p.A3353

P119 Drowning While Breathing/M.A. Farinacci Vilaro, M. Yunes, L. Gerena Montano, H.J. Maldonado-Quintana, K.X. Rivera Manzano, M. Cruz Caliz, A. Dones, M. Rivera, San Juan, PR, p.A3354

THEMATIC POSTER SESSION

B39 COUGH: RARE AND COMMON

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area B, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators



- P120** **A Persistent Cough that Won't Go Away: An Unusual Case of Tracheal Diverticulum/P.** Sharma, N. Niraula, Chattanooga, TN, p.A3355
- P121** **Cough Due to a Cyst: Congenital Abnormalities in Adults/J.** Paralkar, N. Ramesh, A. Miller, New York, NY, p.A3356
- P122** **A Case of Spontaneous Pneumothorax Managed Conservatively/G.** Al-Helou, J. Ahari, G. Gutierrez, R. Maximos, Washington, DC, p.A3357
- P123** **Traditional Japanese Herbal (Kampo) Medicines Can Control a Cough/N.** Miyamoto, Izumo, Japan, p.A3358

THEMATIC POSTER SESSION

B40 SARCOIDOSIS: ILLUSTRATIVE CASES AND CLINICAL SERIES

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Area B, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: W.P. Drake, MD, Nashville, TN

- P125** **Extrapulmonary Sarcoidosis Presenting with Diffuse Osteolytic Skeletal Lesions/C.M.** Kniese, B.A. Khan, Indianapolis, IN, p.A3359
- P126** **Fatal Macrophage Activation Syndrome Complicating Systemic Sarcoidosis/A.** Qasrawi, M. Abu Omar, M. Abu Ghanimeh, F. Khalafi, T. Asif, A. Qasem, Kansas City, MO, p.A3360
- P127** **Reconceptualizing Code Status as Legacy: A Case Report of Cardiac Sarcoidosis/P.** Martin, M. Vo, R. Sharma, Orlando, FL, p.A3361
- P128** **Co-Existent Sarcoidosis and Lymphoma: Biological Relationship or Fortuitous Occurrence?/E.** Solbes, R. Harper, Sacramento, CA, p.A3362
- P129** **Splenic Sarcoidosis: A Case of Spontaneous Disease Reactivation Limited to the Spleen/H.** Mezughi, I. Shahoub, F. Zeid, Huntington, WV, p.A3363
- P130** **Diabetes Insipidus Causing Severe Hyponatremia from Neurosarcoidosis/G.W.** Williams, D. Kadaria, A. Sodhi, Memphis, TN, p.A3364
- P131** **Sarcoidosis and Transverse Myelitis, What Is the Link? A Case Report and Review of the Literature/R.J.** Cho, F.D. Zamora, Minneapolis, MN, p.A3365
- P132** **Darrier-Roussy Syndrome Sarcoidosis Masquerading as Breast Masses/C.** Rincon-Prieto, A. Daya, R. Promisloff, Philadelphia, PA, p.A3366
- P133** **Coexisting Sarcoidosis and Multiple Myeloma Presenting as Acute Leg Weakness and Chest Pain/C.** Terry, M. Luthra, A. Esper, Atlanta, GA, p.A3367

- P134** **Systemic Sarcoidosis Secondary to Anti-TNF Therapy/S.** Sood, A.L. Anderson, St. Louis, MO, p.A3368
- P135** **A Rare Case of Secondary Pulmonary Alveolar Proteinaceous Disease in a Patient with Solid Organ Malignancy/K.** Bakhsh, J. Most, Philadelphia, PA, p.A3369
- P136** **Sarcoid-Like Pulmonary Reaction Due to Chronic Lymphocytic Leukaemia/A.M.** Kawassaki, B.G. Baldi, A.F. Amaral, D.A.S. Pereira, L.G.C.A. Lima, C.S.G. Freitas, C.R.R. Carvalho, R.A. Kairalla, Sao Paulo, Brazil, p.A3370
- P137** **Analysis of Sarcoidosis Cases Followed at University of Sao Paulo Medical School of Brazil/L.** Paez Vargas, R.R. Miranda, F.E. Arimura, A.F. Amaral, M.R. Oliveira, R.A. Kairalla, C.R.R. Carvalho, B.G. Baldi, Sao Paulo, Brazil, p.A3371

Facilitator: M.A. Judson, MD, Albany, NY

- P138** **A Case of Sarcoidosis Presenting with Foot Drop/A.** El-bakush, K. Parikh, B. Keleher, A. Ismail, R. Shaw, Greenville, NC, p.A3372
- P139** **Sarcoid Involvement of Breast Tissue/D.** Kay, A. Cho, A. Chen, A. Mehta, V. Jain, Washington, DC, p.A3373
- P140** **Severe Hypercalcemia as a Presenting Feature of Sarcoidosis in a Patient on Etanercept Therapy/R.** Samannan, V. Doshi, B. Saksouk, Oklahoma City, OK, p.A3374
- P141** **Bilateral Lung Masses Due to Necrotizing Sarcoid Granulomatosis/B.R.** Hay, K. Shilo, J. Englert, Columbus, OH, p.A3375
- P142** **A Case of Necrotizing Sarcoid Granulomatosis Successfully Treated with Surgery/M.** Asaji, K. Tobino, Y. Goto, K. Murakami, T. Sueyasu, S. Nishizawa, M. Munechika, K. Yoshimine, Y. Ko, Y. Yoshimatsu, H. Ide, K. Tsuruno, H. Miyajima, Y. Mukasa, N. Ebi, Iizuka, Japan, p.A3376
- P143** **Spontaneous Resolution of Sarcoidosis with Necrotizing Sarcoid Granulomatosis in a Young Man/L.K.** Torres, D. Jones, M.L. Turetz, New York, NY, p.A3377
- P144** **Paradoxical Adalimumab-Induced Sarcoidosis/L.K.** Torres, K. Aronson, M.L. Turetz, D. Zappetti, New York, NY, p.A3378
- P145** **Sarcoidosis: A Unique Case of Esophageal Perforation/D.** Kania, R. Shah, R. Malhotra, Richmond, VA, p.A3379
- P146** **Pulmonary Sarcoidosis Associated with Anti-PD-L1 Therapy/R.** Balestra, Cincinnati, OH, p.A3380
- P147** **Treatment of Cardiac Sarcoidosis with Once Monthly Intravenous Methylprednisolone Infusions/D.** Perlman, M. Bhargava, H. Roukoz, R. Cogswell, Minneapolis, MN, p.A3381
- P148** **Thrombotic Thrombocytopenic Purpura in a Patient with Sarcoidosis/M.** Holub, A. Berman, Newark, NJ, p.A3382
- P149** **An Unusual Presentation of Aortitis in a Patient with Pulmonary Sarcoidosis/A.** Rasheed, L. Gerolemou, V. Vasudevan, Z. Hashemi, M. Shahzadi, H. Upadhyay, F. Arjomand, Brooklyn, NY, p.A3383
- Facilitator:** M. Kreider, MD, Philadelphia, PA
- P150** **Lymphocytic Pleural Effusion in a Sarcoid Fibrosing Mediastinitis Patient Treated with Vasodilator Therapy for Pulmonary Hypertension/R.** Prakobkit, E. Spiekerkoetter, J.L. Hsu, Stanford, CA, p.A3384



- P151 Association of Sarcoidosis, Monoclonal Gammopathy of Undetermined Significance and Cardiac Amyloidosis: A Case Report/A.F. Amaral, M.R. Oliveira, F.E. Arimura, E.C.T. Nascimento, F.C. Bernardi, F. Fernandes, C.R.R. Carvalho, R.A. Kairalla, B.G. Baldi, Sao Paulo, Brazil, p.A3385**
- P152 Is It Sarcoidosis? A Curious Case of Low Immunoglobulins/E. Otoupalova, W.B. Fields, E. Schuiteman, Royal Oak, MI, p.A3386**
- P153 Sarcoidosis and Concomitant Pheochromocytoma - Case Report/R.A.B. De Athayde, J.R.B. Oliveira Filho, B.M. Piloto, R.S. Tartaglia, R.R. Miranda, A.N. Costa, F.E. Arimura, R. Kairalla, Sao Paulo, Brazil, p.A3387**
- P154 Multiorgan Disease After 28 Years of Remission of Hepatic Sarcoidosis/A. Yankovich, R. Shrestha, M.K. Zaman, Memphis, TN, p.A3388**
- P155 Ambiguity of the Interplay Between Carcinoid and Sarcoidosis/J.L. MacLeod, A. Goizueta, M. Stanchina, R. El-Bizri, Providence, RI, p.A3389**
- P156 Abdominal Pain in the Pulmonary Clinic: A Rare Case of Pancreatic Sarcoid/W. Warren, E.C. Osborn, J.H. Sherner, Bethesda, MD, p.A3390**
- P157 Hepatitis C: A New Baby on the Sarcoidosis Block?/L. Kallur, M. Al Shathir, J. Mehta, Johnson City, TN, p.A3391**
- P158 Idiopathic Thrombocytopenic Purpura in Sarcoidosis: A Case Report/M. Beg, H. Arif, J. Terrill, M. Naddour, K. Malik, Pittsburgh, PA, p.A3392**
- P159 Severe Immune Thrombocytopenic Purpura (ITP) as the Initial Presentation of Sarcoidosis/V.S. Koppurapu, K.S.S. Kakker, K. DeFore, Little Rock, AR, p.A3393**
- P160 Fever of Unknown Origin: Consider the Classic Tetrad/H. Gupta, N. Ramesh, J. Kuritzky, New York, NY, p.A3394**
- P161 A Case of Trastuzumab-Induced Sarcoidosis/P.T. Ngo, M. Elawaf, X. Sun, D. Greenberg, Neptune, NJ, p.A3395**
- P896 A Peculiar Case of Auto-Antibody Negative Anti-Synthetase Syndrome/M. Odeesh, M. Lee, A. Parhar, C. Jackson, J. Varghese, Memphis, TN, p.A3397**
- P897 A Unique Manifestation of Anti-Synthetase Syndrome in an Indian Male/M.S. Siddiqui, S. Williams, J. Tomashefski, Cleveland, OH, p.A3398**
- P898 A Mechanic's Hands: An Unusual Presentation of Anti-PL-7 Anti-Synthetase Syndrome Diagnosed with Chest X-Ray/S. Patel, S. Jagadeesh, Tallahassee, FL, p.A3399**
- P899 Amyopathic Dermatomyositis and Interstitial Lung Disease Associated with Anti-NXP2 Autoantibody/T.P. Reed, N. Gupta, Cincinnati, OH, p.A3400**
- P900 Atypical Presentation of Anti-Jo-1 Positive Interstitial Lung Disease/V. Gandhi, M. Hewston, A. Fasanya, R. Sharara, T. Cheema, Pittsburgh, PA, p.A3401**
- Facilitator:** H. Kamiya, MD, Brisbane, Australia
- P901 A Rare Case of Antisynthetase Syndrome Presented with Cardiogenic Shock as an Initial Presentation/M. Mahmoud, R. Awdish, K. Thavarajah, Detroit, MI, p.A3402**
- P902 With ChILD- A Case of Antisynthetase Syndrome in Pregnancy/H.P. Saikumar, D.J. Maselli, A.M. Nambiar, San Antonio, TX, p.A3403**
- P903 Bamboo Nodes Reveal Antisynthetase Syndrome as Cause of Interstitial Lung Disease/X. Wu, R.J. Kaner, New York, NY, p.A3404**
- P904 Severe Pulmonary Hypertension and Myocarditis in a Patient with Overlapping Sjogren and Antisynthetase Syndrome/E.J. Cano, M. Khaja, Bronx, NY, p.A3405**
- P905 Dermatomyositis and Associated Vasculopathy Causing Tracheal Necrosis and Spontaneous Pneumomediastinum/C.L. Oberg, R. Hiensch, S. Dua, New York, NY, p.A3406**
- P906 An Imitation of Interstitial Lung Disease/J. Ramos-Rossy, W. Rodriguez-Cintron, S. Baez, O. Cantres-Fonseca, San Juan, PR, p.A3407**

THEMATIC POSTER SESSION

B41 ANTISYNTHEASE SYNDROME AND AUTOIMMUNE MYOSITIS ASSOCIATED ILD: CASES FROM THE WARDS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area J, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: M. Acosta Lara, MD, Birmingham, AL

- P895 Treatment of Rapidly Progressive Interstitial Lung Disease with Positive Melanoma Differentiation Associated Gene 5 with Amyopathic Dermatomyositis Using Lung Rest Ventilation with Extracorporeal Membrane Oxygenation with Corticosteroids, Rituximab, and C/S. Sultan, A. Bosak, T. Ardiles, T. Whiting, R. Saggari, Phoenix, AZ, p.A3396**

THEMATIC POSTER SESSION

B42 INTERSTITIAL LUNG DISEASE: A POTPOURRI OF CASES

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area J, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: M. Padilla, MD, New York, NY

- P908 Serial Changes in Pulmonary Function Testing in a Patient with Tracheobronchial Amyloidosis: Relevance for Early Diagnosis/C.L. Benz, M.J. Geffre, E.P. Anderson, K.J. Johnson, T.M. Shady, C.M. Dyke, Grand Forks, ND, p.A3408**



- P909 A Case of Pulmonary Amyloidosis/K. Lemma, Z. AlShathri, J. Ahari, A. Alwassia, Washington, DC, p.A3409**
- P910 Angel Wings and Tracheal Traction/R. Zulfikar, B. Erdreich, J. Parker, Morgantown, WV, p.A3410**
- P911 Fatal Outcome in a Patient with Acute Interstitial Pneumonia Despite Immunosuppressive Therapy/D. Villafuerte, K. Koch, B. Amalakuhan, T. Simpson, San Antonio, TX, p.A3411**
- P912 A Rare Case of Diffuse Pulmonary Meningotheliomatosis/A. Siddiqui, M. Ahmad, Houston, TX, p.A3412**
- P913 Not Your Usual Interstitial Lung Disease (ILD)!!/K. Patel, M.L. Torres, A. Fasanya, R. Thirumala, Pittsburgh, PA, p.A3413**
- P914 An Unusual Case of Breathlessness and a Dry Cough/S. Iftikhar, N.J. Green, W. Perks, Shrewsbury, United Kingdom, p.A3414**
- P915 Hypersensitivity Pneumonitis (HP) with Normal High Resolution Computed Tomography (HRCT)/V. Trivedi, J. Ryu, D.R. Nelson, W.P. Holland, M. Baqir, Rochester, MN, p.A3415**
- P916 Therapeutic Dilemma in a Patient with a History of Recurrent Diffuse Alveolar Hemorrhage Due to Idiopathic Pulmonary Hemosiderosis Requiring Anticoagulation/K.J. Henry, R. Sagar, Phoenix, AZ, p.A3416**
- P917 A Case of DIPNECH Developing True Midgut Carcinoid with Disease Arrest After Resection of the Carcinoid and Institution of Long Term Azithromycin Treatment. A Ten Year Clinical and Radiological Follow-Up/S. Rustscheff, A.E.C. Wingerup, Varnamo, Sweden, p.A3417**
- P918 Not a Usual Smoker's Cough/E. Otoupalova, W.B. Fields, E. Schuiteman, Royal Oak, MI, p.A3418**

Facilitator: R. Vij, MD, Chicago, IL

- P919 Lung Activity of Crohn's Disease: A Case Report/R.A.B. De Athayde, A. Padilha De Toledo, J.R.B. De Oliveira Filho, R.S. Tartaglia, F.M. Da Costa, E.T. Nascimento, R.K.B. De Sales, A.N. Costa, Sao Paulo, Brazil, p.A3419**
- P920 Alveolar Proteinosis: A Case Report/M. Tobon, A. Canas, C.A. Celis, J.I. Lasso, Bogota, Colombia, p.A3420**
- P921 Successful Single Lung Transplantation for Hermansky-Pudlak Syndrome with Pulmonary Fibrosis/T. Diaz De Teran, D. Iturbe-Fernandez, B. Abascal-Bolado, L. Sanchez-Moreno, A. Ortega-Gonzalez, J. Gomez-Roman, Santander, Spain, p.A3421**
- P922 Acute Respiratory Failure in a Patient with IPF Following Nebulized and Intravenous Stem Cell Therapy/J. Raynor, K.L. Cervellione, P. Desai, C. Thurm, Jamaica, NY, p.A3422**
- P923 18F Fluorodeoxyglucose (FDG) Positron Emission Tomography (PET) in Exogenous Lipoid Pneumonia (ELP) Emulating Metastatic Pancreatic Cancer to Lungs/F. Celestin, F. Farooq, J. Unterborn, Boston, MA, p.A3423**
- P924 Lung Transplantation for a Chinese Young Man with Idiopathic Pleuroparenchymal Fibroelastosis/H. Huang, R. Feng, B. Wu, K. Xu, J. Chen, Z. Xu, Beijing, China, p.A3424**
- P925 Diffuse Pulmonary Meningotheliomatosis: A Scary, Yet Benign Picture/V. Jayaschandran, S. Gjorgova-Gjeorgjievski, H. Siddique, Royal Oak, MI, p.A3425**

- P926 A Rare Case of Interstitial Lung Disease/A. Talat, M. Elahee, C. Youssef, R. Kartan, Youngstown, OH, p.A3426**
- P927 Pulmonary Erdheim-Chester Disease; a Long-Term Success of Treatment with Oral and Inhaled Corticosteroid/K. Nishino, K.Y. Nagahama, T. Hayashi, S. Kunimine, H. Tsuchihashi, T. Nagaoka, R. Kanemaru, S. Togo, T. Kumasaka, T. Uekusa, S. Ikeda, K. Seyama, K. Takahashi, Tokyo, Japan, p.A3427**
- P928 Subacute Hypersensitivity Pneumonitis: A Case Report/M. Elahee, A. Talat, N.P. Kalra, R. Kartan, Youngstown, OH, p.A3428**
- P929 A Case of Pulmonary Capillary Hemangiomatosis Presented as Recurrent Pneumothorax/T.W. Choi, J.E. Park, M.A. Park, J.H. Lee, S.Y. Park, S.H. Lee, M.J. Park, C.W. Choi, J.-H. Yoo, H.M. Kang, Seoul, Korea, Republic of, p.A3429**

Facilitator: S. Donnelly, MD, Dublin, Ireland

- P930 Interstitial Lung Disease in a Chronic Smoker/A. Karki, C. Thurm, U. Kulsum, Jamaica, NY, p.A3430**
- P931 Pleuroparenchymal Fibroelastosis with Primary Effusion Lymphoma Like Lymphoma in an Autopsy Case/T. Takeshige, M. Kato, S. Sasaki, K. Nakamura, N. Arano, M. Komura, D. Hayakawa, S. Yagishita, S. Kuriyama, K. Muraki, F. Makino, O. Nagashima, K. Takahashi, Chiba, Japan, p.A3431**
- P932 Acute Exacerbation of Pulmonary Fibrosis in Hermansky-Pudlak Syndrome/G. Thompson, H. Sekiguchi, J.H. Ryu, Rochester, MN, p.A3432**
- P933 Bronchocentric Granulomatosis in a Previously Healthy Woman/S. Kronborg-White, E. Bendstrup, Aarhus, Denmark, p.A3433**
- P934 Pneumotosis Intestinalis in Patient Taking Nintedanib for Idiopathic Pulmonary Fibrosis/A.D. Poor, M. Schwartzman, S.S. Braman, New York, NY, p.A3434**
- P935 Cavitary Lung Disease Following Transbronchial Biopsy Using Cryoadhesion in a Patient with Diffuse Parenchymal Lung Disease/V. Pathak, L. Fiske, Raleigh, NC, p.A3435**
- P936 Metastatic Prostate Cancer Masquerading as Interstitial Lung Disease/M. Botros, C.M. Risaliti, S. Konstantin, J. Allen, Columbus, OH, p.A3436**
- P937 Constrictive Bronchiolitis Presenting with a Miliary Pattern in a Patient with Hypersensitivity Pneumonitis/W.A. Neveu, K.A. Van Nostrand, A. Velasquez, Atlanta, GA, p.A3437**
- P938 Pulmonary Alveolar Microlithiasis Caused By Two Homozygous Mutations/A. Alastal, H. Yamin, Jerusalem, Palestinian Territory, Occupied, p.A3438**
- P939 A Caucasian Woman with PAM Due to a Rare Mutation/S. Castillo, M. Hamblin, Kansas City, KS, p.A3439**
- P940 Diffuse Pulmonary Ossification/S. Menon, M.I. Ahmad, F. Khan, A. Malik, Winston-Salem, NC, p.A3440**
- P941 Spontaneous Improvement of Pulmonary Alveolar Proteinosis in a High Altitude Resident After Descent to Sea Level/P.M. Carcamo, R.A. Calderon, G.E. Gianella, Lima, Peru, p.A3441**
- P942 Acute on Chronic Respiratory Failure as a Result of Pulmonary Alveolar Proteinosis/G.W. Williams, M.L. Rogers, I. Romero-Legro, Memphis, TN, p.A3442**



- P943 Pulmonary Alveolar Proteinosis Diagnosed Via Cryobiopsy: A Case Report/D.R. DiNuoscio, L. Bernard, K. Cao, Tampa, FL, p.A3443**
- P944 Steroid Dependent Chronic Eosinophilic Pneumonia Treated Successfully with Azathioprine; a Novel Therapy Reported on Two Patients/G. Sathiyamoorthy, C. Lau, M. Latifi, J.G. Parambil, Cleveland, OH, p.A3444**
- P945 Acute Eosinophilic Pneumonia and Tracheitis Following Recent Smoking/S.J. Park, S.Y. Park, Y.H. Choe, S.R. Kim, H.B. Lee, Y.C. Lee, Jeonju, Korea, Republic of, p.A3445**
- P946 Acute Eosinophilic Pneumonia in a Patient with Influenza Infection - a Coincidence or an Association?/S. Velani, C. Myers, S. Manvar, J. Faress, E. Van Lunteren, Cleveland, OH, p.A3446**
- P947 Cryptogenic Organizing Pneumonia After a Motor Vehicle Accident/A.E. Reyes Esteves, L.A. Soto, H. Bhatti, Orlando, FL, p.A3447**
- P948 A Rare Fulminant and Fatal Case of Cryptogenic Organizing Pneumonia/V. Ravi, L. Srinivasan, J.K. Rosman, M.E. Iliescu, J. Villegas Garcia, A. Copur, A. Fulambarker, North Chicago, IL, p.A3448**
- P949 Organizing Pneumonia Secondary to Hiatal Hernia/R. Yeliseti, A.A. Awad, A. Kaji, Trenton, NJ, p.A3449**

THEMATIC POSTER SESSION

B43 ILD: CLINICAL STUDIES, REGISTRIES AND MORE

9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area J, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: C.J. Ryerson, MD, Vancouver, Canada
K. Kamio, MD, Tokyo, Japan

- P951 Characteristic Features of Acute Exacerbation in Combined Pulmonary Fibrosis and Emphysema/M. Toyoshima, K. Tsuchiya, T. Suda, Hamamatsu, Japan, p.A3450**
- P952 Transbronchial Cryobiopsy for Diagnosing Interstitial Lung Disease with a Two-Scope Technique/J. Cooley, R. Balestra, A. Aragaki, S. Benzaquen, Cincinnati, OH, p.A3451**
- P953 The Impact of CT-Detected Usual Interstitial Pneumonia Pattern as the Decision-Making Factor for Treatment of Lung Cancer/A. Ando, N. Hashimoto, K. Sakamoto, Y. Hasegawa, Nagoya, Japan, p.A3452**
- P954 The Test-Retest Reliability and Validity of 4-Metre Gait Speed in Patients with Interstitial Lung Disease/K. Nemoto, S. Oh-ishi, M. Nonaka, H. Goto, N. Arai, Y. Sasatani, R. Shigemasa, H. Ishikawa, K. Yazaki, K. Hyodo, Y. Miura, T. Takaku, K. Hayashihara, T. Saito, Ibaraki, Japan, p.A3453**
- P955 Exertional Hypoxemia Is More Severe in Fibrotic Interstitial Lung Disease than Chronic Obstructive Pulmonary Disease/J.P. Du Plessis, S. Fernandes, R. Jamal, P.G. Camp, K.A. Johansson, M.R. Schaeffer, P.G. Wilcox, J.A. Guenette, C.J. Ryerson, Vancouver, Canada, p.A3454**

- P956 Introduction of Cryobiopsies in The Diagnostics of Interstitial Lung Diseases- Experiences in a Referral Center/S. Kronborg-White, B. Folkersen, T.R. Rasmussen, N. Voldby, L.B. Madsen, F. Rasmussen, V. Poletti, E. Bendstrup, Aarhus, Denmark, p.A3455**
- P957 Should "Fibrosing Variant of Organizing Pneumonia" Stay as in Unclassifiable Idiopathic Interstitial Pneumonias? (Workshop Summary of a Japanese Multicenter Study)/Y. Inoue, M. Akira, T. Kasai, T. Johkoh, K.S. Lee, M.P. Chung, D.M. Rassl, T. Arai, C. Sugimoto, Y. Kawabata, T. Takemura, M. Hirose, A. Matsumuro, T. Keisuke, H. Tomioka, Y. Yamada, N. Hamada, M. Noyama, S. Akagawa, T. Sato, T. Kubo, R. Egashira, O. Okuma, H. Sumikawa, M. Kitani, K. Hatanaka, T. Kido, H. Kitamura, M. Kitaichi, Osaka, Japan, p.A3456**
- P958 Clinical Characteristics of Patients with Advanced Idiopathic Pulmonary Fibrosis/J.A. De Andrade, T. Whelan, T. Luckhardt, L. Lancaster, V. Gamerman, T. Kulkarni, M.L. Neely, E. Yow, E. O'Brien, C.S. Conoscenti, Birmingham, AL, p.A3457**
- P959 Usefulness of Surgical Lung Biopsy in the Diagnosis of Idiopathic Interstitial Pneumonias Under Multidisciplinary Discussion/Y. Matsumoto, K. Sugino, K. Gocho, Y. Nakamura, K. Matsumoto, A. Iyoda, K. Shibuya, T. Uekusa, S. Homma, Tokyo, Japan, p.A3458**
- P960 High Throughput 16SrRNA Gene Sequencing Reveals the Correlation Between Propionibacterium Acnes and Sarcoidosis/M. Zhao, D. Weng, H. Li, Shanghai, China, p.A3459**

Facilitator: N. Patel, MD, New York, NY

- P961 Prevalence of the Interstitial Lung Disease (ILD) in CT in Patients Over 60 Years Old in a University Hospital/F. Felder, S.D. Leiva Aguero, J.I. Enghelmayer, Buenos Aires, Argentina, p.A3460**
- P962 Low Predictive Value of High-Resolution Computed Tomography (HRCT) Patterns Other than Usual Interstitial Pneumonia (UIP) Highlight the Continued Need for a Surgical Lung Biopsy to Make an Accurate Diagnosis of Interstitial Lung Diseases/A. Frogameni, A. Brueder, D.W. Kamp, R. Agrawal, N. Parekh, H. Savas, M.M. DeCamp, K. Raparia, R. Raj, Chicago, IL, p.A3461**
- P963 Prevalence of Pulmonary Hypertension in Idiopathic NSIP and Effect of Pulmonary Vasodilator Therapy on Outcomes/M. Libre, C. King, A. Brown, D. Franco-Palacios, O. Shlobin, N. Weir, S.D. Nathan, Rockville, MD, p.A3462**
- P964 A Concordant Usual Interstitial Pneumonia (UIP) Diagnosis from Surgical Lung Biopsies (SLBs) Remains a Challenge for Patients with Interstitial Lung Disease (ILD)/T. Colby, J. Meyers, S. Groshong, P. Bianchi, U. Imtiaz, G.C. Kennedy, Scottsdale, AZ, p.A3463**
- P965 Cohort Comparison Between Transbronchial Cryobiopsy and Surgical Lung Biopsy (SLB) in Patients Undergoing a Workup for Interstitial Lung Disease (ILD) from A Multi-Center, Prospective Trial/M.P. Steele, S. Benzaquen, J.L. Myers, S. Groshong, D. Wilson, T. Wiese, K. Calero, M. Rumbak, P. Bianchi, U. Imtiaz, T. Colby, Charlotte, NC, p.A3464**



- P966** **Prevalence and Characteristics of Lung Cancer Among Patients with Interstitial Lung Disease and Idiopathic Pulmonary Fibrosis/J.H. Yoon, S.M. Nouraie, X. Chen, J. Chiarchiaro, K.L. Veraldi, K.O. Lindell, K.F. Gibson, D.J. Kass, Pittsburgh, PA, p.A3465**
- P967** **Utility of Transthoracic Lung Ultrasound in Assessing Pulmonary Sarcoidosis/A. Dubaniewicz, W. Kosiak, M. Skotarczak, M. Kryger, J.M. Slominski, Gdansk, Poland, p.A3466**
- P968** **Pirfenidone-Induced Hyponatremia/L.L. Silhan, J. Corwin, S.K. Danoff, Baltimore, MD, p.A3467**
- P969** **Helicobacter Pylori as a Risk Factor for Acute Exacerbation in Idiopathic Pulmonary Fibrosis/S. Ohshimo, H. Nishi, Y. Horimasu, H. Iwamoto, H. Hamada, N. Hattori, N. Kohno, F. Bonella, J. Guzman, U. Costabel, N. Shime, Hiroshima, Japan, p.A3468**
- P970** **Outcomes of Newly Proposed Classification of Acute Respiratory Deterioration in Idiopathic Pulmonary Fibrosis/Y. Kondoh, H. Taniguchi, R. Teramachi, T. Kimura, T. Yokoyama, T. Johkoh, J. Fukuoka, Seto, Japan, p.A3469**
- Facilitator:** T.J. Corte, MBBS, BSc(Med), PhD, Sydney, Australia
- P971** **Benefits from a Program for “Early Interstitial Lung Diseases” in Primary Care Centers/P. Rivera-Ortega, P. Luburich, F. Ferrer, A. Conejero, J.M. Bantula, L. Planas, V. Vicens Zygmunt, I. Escobar, R. Llatjos, A. Bachs, J. Dorca, M. Molina-Molina, Barcelona, Spain, p.A3470**
- P972** **Association of the Thoracic Adiposity Measured by Computed Tomography with Lung Function/Y.S. Yoon, W.G. Kwack, Y.J. Jeong, H.S. Kwon, J.Y. Oh, Goyang, Korea, Republic of, p.A3471**
- P973** **Nitrogen Washout Test in the Evaluation of Small Airways in Patients with Idiopathic Pulmonary Fibrosis and Combined Pulmonary Fibrosis and Emphysema/F.M. Anselmo, R. Rufino, M.C. Lopes, B. Rangel, A. Lopes, C. Costa, Rio de Janeiro, Brazil, p.A3472**
- P974** **Clinical Characterization of Interstitial Lung Disease Patients: Report from a Single Center Longitudinal Database/C.A. Ford-Sahibzada, K.A. Johannson, G.C. Goobie, C.D. Fell, Calgary, Canada, p.A3473**
- P975** **Design and Rationale of the Japanese Idiopathic Interstitial Pneumonias Registry (JIPS Registry)/R. Okuda, Y. Ishii, Y. Kondoh, H. Tomioka, T. Suda, K. Watanabe, N. Hamada, H. Chiba, T. Jokoh, T. Iwasawa, K. Kobayashi, T. Nukiwa, T. Ogura, Yokohama, Japan, p.A3474**
- P976** **Clinical and Radiographic Features of Interstitial Lung Disease Among South Asians Living in the United States/S.J. Parker, M. Kreider, K.C. Patterson, R.J. Shah, J.D. Christie, M.F. Beers, N. Patel, C. D’Errico, M. Rossman, L. D’Errico, J. Lederer, M. Chadwick, W. Geftter, E. Barbosa, C. Deshpande, L. Litzky, W. Miller, M. Porteous, Philadelphia, PA, p.A3475**
- P977** **Improved Systemic Bioavailability of Cromolyn Sodium Using Inhaled PA101 Delivered via eFlow® Nebulizer/T. Mensinga, Z. Diamant, J.N.G. Oude-Elberink, A. Tutuncu, Groningen, Netherlands, p.A3476**

- P978** **Characteristics of Age at Onset in Adult-Onset Hereditary Interstitial Pneumonia (HIP)/Y. Setoguchi, J. Kawagoe, S. Kotagawa, Tokyo, Japan, p.A3477**
- P979** **Foreign Body Granulomatosis Presenting as Centrilobular Nodules/K. Lam, V. Mohindra, Palo Alto, CA, p.A3478**

THEMATIC POSTER SESSION

B44 PLEURAL DISEASE: CASE REPORTS I

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area O, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J. Cicenja, MD, Cleveland, OH

- P1545** **Dasatinib Induced Chylothorax/P.C. Trivedi, S. Hapangama, E. Perez-Batista, A. Iftikhar, R. Gumpeni, A. Smith, Flushing, NY, p.A3479**
- P1546** **A Case of Recurrent Chylothorax in Renal Cell Carcinoma/M. Beg, H. Arif, M. Young, S. Alhassan, E. Bihler, Pittsburgh, PA, p.A3480**
- P1547** **Chylothorax as the Initial Presentation of Behcet’s Disease/S. Kermelly, F. Maltais, M.-E. Boucher, F. Cote, Quebec, Canada, p.A3481**
- P1548** **Pattern Recognition Pitfall: A Case of Bilateral Chylothoraces/P.W. Kicker, Bethesda, MD, p.A3482**
- P1549** **A Case of Idiopathic Chylothorax/A. Shahmohammadi, D. Urbine, Gainesville, FL, p.A3483**
- P1550** **Chylothorax: Where Is the Obstruction?/J. Albers, J. Martinez-Gonzalez, J. Lugo-Rodriguez, W. Rodriguez-Cintrón, O. Cantres-Fonseca, San Juan, PR, p.A3484**
- P1551** **Chylothorax in the Setting of Cirrhosis- An Unusual Association/S.A. Suliman, A. Ramirez, D.R. Nunley, Louisville, KY, p.A3485**
- P1552** **A Case of Chylothorax Resulting from Necrotizing Pancreatitis/F. Farooq, F. Celestin, K. Hendra, Boston, MA, p.A3486**
- P1553** **Skim Milk Chylothorax/I.A.P. Noriega Aldave, J.W.J. Leslie, Roanoke, VA, p.A3487**
- P1554** **Chylopericardium with Chylothorax: First Recorded Case from Obstructive Hodgkin’s Lymphoma/N. Raya, J.B. Kramer, R. Tandon, Chicago, IL, p.A3488**
- P1555** **Markedly Delayed Occurrence of Chylothorax Following Thoracic Surgery/K. Doo, R. Pillai, C. Liu, M.B. Lesko, A. Lubinsky, R. Smith, New York, NY, p.A3489**
- P1556** **Chylothorax Caused by Cirrhosis: A Common Cause of Transudative Chylothorax/M. Dziura, K. Ismail, Boston, MA, p.A3490**
- P1557** **Gorham-Stout Syndrome: A Rare Cause of Bilateral Chylothorax. Case Report/L. Fernandez, A.M. Morales, J.D. Yara, L.F. Sua, F. Sanabria, W. Martinez, M. Velasquez, L. Gutierrez, Cali, Colombia, p.A3491**



Facilitator: W. Tillis, MD, Peoria, IL

- P1558 Use of an Alpha-1 Adrenoreceptor Agonist in the Management of Recurrent Refractory Idiopathic Chylothorax/P.** Sivakumar, L. Ahmed, London, United Kingdom, p.A3492
- P1559 An Unusual Case of Bilateral Pleural Effusion/T.** Njebuome, A.F. Monegro, D. Chairman, Columbia, MO, p.A3493
- P1560 Urinothorax: A Case of a Right-Sided Pleural Effusion with a Contralateral Left-Sided Ureteral Stricture/R.-J.R.** Ronquillo-Guarin, S. Yadav, R. Salonga, P.M. Rozul, J.E. Tamayo, Las Pinas Metro, Manila, Philippines, p.A3494
- P1561 Massive Spontaneous Hemothorax Secondary to Metastatic Angiosarcoma/S.** Baez, W. Rodriguez-Cintron, J. Torres-Palacios, San Juan, PR, p.A3495
- P1562 Recurrent Unexplained Pleural Effusion in Young Female? Think Outside the Box/M.** Rachid, E. Mekhaie, Oak Lawn, IL, p.A3496
- P1563 Ovarian Hyper Stimulation Syndrome an Uncommon Cause of Pleural Effusion/U.** Kulsum, A. Shah, A. Shalov, Jamaica, NY, p.A3497
- P1564 A Rare Cause of Pleural Effusion/A.** Gallo De Moraes, U. Durani, J. Beachey, S. Robinson, D.R. Nelson, N. Anavekar, Rochester, MN, p.A3498
- P1565 Atypical presentation of symptomatic bilateral rheumatoid pleural effusions/G.S.** Gunasekara, L. Dada, A. Elliott, C. Halleman, W. Connelly, J. Flanagan, Largo, FL, p.A3499
- P1566 An Uncanny Connection! Bilothorax/H.A.M.** Faki, S. Daouk, A. Shychuk, G. Lowther, A. Ataya, Gainesville, FL, p.A3500
- P1567 A Rare Case of Primary Effusion Lymphoma Post Cardiac Transplant with HIV Negative and HHV8 Positive Serology/I.R.** Kugasia, A. Kumar, O. Epelbaum, Valhalla, NY, p.A3501
- P1568 An Unusual Cause of a Right Pleural Effusion/D.K.** Anderson, F. Foley, D.R. Nelson, R.M. Kern, Rochester, MN, p.A3502
- P1569 A Rare Case of Pleural Angiosarcoma Presenting with Massive Hemothorax/S.** Basnyat, Y.R. Sedhai, A. Kushwah, T. Dar, J. Alukal, S. Kaur, L. Chen, Kathmandu, Nepal, p.A3503

Facilitator: L.F. Angel, MD, San Antonio, TX

- P1570 A Novel Effusion: A Case of Thoracolithiasis Associated Recurrent Pleural Effusion/B.J.** Garber, S. Oh, Los Angeles, CA, p.A3504
- P1571 "Chemothorax": A Rare Complication of Central Venous Catheter Placement/M.** Wallace, S. Gupta, T. Kukkadapu, J. Keshavamurthy, C. Forseen, T. Dillard, Augusta, GA, p.A3505
- P1572 Demons-Meigs Syndrome: A Rare Cause of Pleural Effusion/V.** Pathak, C. Quinn, Raleigh, NC, p.A3506
- P1573 Cerebrospinal Fluid Induced Pleural Effusion: Delayed Complication of a Ventriculopleural Shunt/B.** Seth, N. Bosch, F. Schembri, H.W. Farber, Boston, MA, p.A3507
- P1574 Pleural Effusion from Peripheral Inserted Central Catheter/B.W.** Tullos, K. Bridges, K. Harkins, A. Wilhelm, Jackson, MS, p.A3508

- P1575 A Rare Case of Recurrent Contralateral Pleural Effusions with Intra-Abdominal Ventriculoperitoneal Shunt Repositioning/H.A.** Cheema, R.C. Brammer, K. Vipul, York, PA, p.A3509
- P1576 Hyperreactio Luteinalis: A Rare Case of Isolated Refractory Pleural Effusion in Pregnancy/B.** Alkinj, K. Gopalratnam, J. Ayala, A. Wolff, Bridgeport, CT, p.A3510
- P1577 Air Hunger- A Case Report of Spontaneous Asymptomatic Pneumothorax and Pneumomediastinum in Male with Severe Anorexia/J.** Harewood, O. Akhter, E. Perez-Batista, Flushing, NY, p.A3511
- P1578 Non Catamenial Endometriosis Related Pneumothorax/J.G.P.** Oliveira, G. Nobre, M. Kalichstein, G. Gattas, A. Nassar, S. Romano, A. Barbosa, Rio de Janeiro, Brazil, p.A3512
- P1579 Azygous Lobe Contributing to Recurrent Pneumothorax Refractory to Pleurodesis/C.** Zambrano, K. Zakharov, G. Brevetti, M. Genovesi, Brooklyn, NY, p.A3513
- P1580 A Case of Recurrent Pneumothorax/S.** Baig, E. Len, J. Singh, N. Nagella, New Brunswick, NJ, p.A3514
- P1581 The Wrong Way Down - A Case Report of Pneumothorax Following Nasogastric Tube Insertion/K.S.** Tee, A.Y. Lim, J.A. Abisheganaden, A. Verma, Singapore, Singapore, p.A3515

Facilitator: R. Semaan, MD, Pittsburgh, PA

- P1582 Don't Tase Me Bro: A Case of Pneumothorax Caused by Electrochock Weapon/Y.** Samra, C. Harden, J. Chung, M. Barnes, H. Alnuaimat, A. Ataya, Gainesville, FL, p.A3516
- P1583 Thoracic Endometriosis Presenting as Catamenial Hemopneumothorax/S.R.** Merriman, N. Gupta, Cincinnati, OH, p.A3517
- P1584 Poland Syndrome and Spontaneous Pneumothorax - a Thought-Provoking Association/M.I.M.** Afonso, J. Cemlyn-Jones, C. Robalo Cordeiro, Coimbra, Portugal, p.A3518
- P1585 Pneumothorax, Pneumomediastinum and Pneumorrhachis/I.** Akkad, M. Amith Shenoy, P. Irukulla, W. Pascal, K. Chawla, R. Simon, Brooklyn, NY, p.A3519
- P1586 Persistent Spontaneous Pneumothorax in Severe Anorexia Nervosa/V.** Keenan, N. Tyagi, D. Osahan, J.S. Ilowitz, N. Pletukhina, M. Weinstein, Mineola, NY, p.A3520
- P1587 Spontaneous Pneumomediastinum - a Case Report and Literature Review/M.** Ghosh, A. Sinha Ray, N. Foray, S. Ghosh, M. Song, New York, NY, p.A3521
- P1588 COPD Exacerbation-Should We Anticipate Spontaneous Tension Pneumothorax?/D.** Salhan, P. Verma, O. Abdulfattah, S. Kandel, A. Lixon, J. Quist, D. Enriquez, M.F. Schmidt, Brooklyn, NY, p.A3522
- P1589 Bilateral Pneumothorax Secondary to Septic Pulmonary Embolism/A.** Karki, A. Shalov, U. Kulsum, A. Shah, Jamaica, NY, p.A3523
- P1590 Pneumopericardium, Pneumomediastinum, Pneumoperitoneum and Pneumothorax in Bronchial Asthma Exacerbation After Mechanical Intubation and Bronchoscopy: A Case Report/S.** Kandel, S. Pandey, O. Abdulfattah, A. Lixon, D. Salhan, J. Quist, D. Enriquez, M.F. Schmidt, Brooklyn, NY, p.A3524



- P1591** **An Atypical Tension Pneumothorax/D.** Terrington, S. Murugan-Sukumar, Z. Babar, A. Connolly, A. Arya, Norwich, United Kingdom, p.A3525
- P1592** **An Uncommon Cause of Hemopneumothorax in a Young Female: A Case Report/A.** Tiwari, H. Sharma, H. Simo, M.S. Khan, Toledo, OH, p.A3526
- P1593** **Vomiting Induced Spontaneous Pneumomediastinum Should Be Differentiated from Boerhaave's Syndrome: A Case Report/H.** Sharma, A. Tiwari, M.S. Khan, B. Saha, Toledo, OH, p.A3527

THEMATIC POSTER SESSION

B45 PLEURAL DISEASE: CLINICAL STUDIES**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area O, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** N. Marchetti, DO, Philadelphia, PA

- P1595** **Utility of Prognostic Tools in Unselected Patients with Malignant Pleural Mesothelioma/A.R.** Teagle, R. Wollerton, J. Goodliffe, M.G. Slade, Cheltenham, United Kingdom, p.A3528
- P1596** **Comparison of Pleurodesis Using Talc or Picibanil for Malignant Pleural Effusion/K.** Ishii, A. Kitamura, R. Imai, R. Tsugitomi, T. Tanigawa, H. Nakaoka, K. Okafuji, Y. Tomishima, T. Jinta, N. Nishimura, T. Tamura, Tokyo, Japan, p.A3529
- P1597** **Two Consecutive Intrapleural Injection of Cisplatin for Complicated Malignant Pleural Effusion/Y.H.** Kim, Chungcheongnam-do, Korea, Republic of, p.A3530
- P1598** **Glycogen Synthase Kinase-3 β Inhibition Attenuates S. Pneumoniae Mediated Pleural Remodeling/T.A.** Tucker, A. Jeffers, S. Owens, A. Fergis, W. Qin, G. Shryock, K. Koenig, S. Idell, Tyler, TX, p.A3531
- P1599** **Evaluation of the Management of Empyema/E.** Chan, P. Dennison, S. Gunatilake, Southampton, United Kingdom, p.A3532
- P1600** **Contemporary Practice Patterns in the Management of Empyema in the United States/P.M.** Rodgers-Fischl, A.J. Dugan, S.P. Saha, Lexington, KY, p.A3533
- P1601** **Trapped Lung and Pleural Effusion in the Post Orthotopic Liver Transplant Patient/K.H.** Melamed, N. Cuk, R. Salah, S. Vangala, W.D. Miller, S. Swanson, D. Dai, Z. Antongiorgi, A. Zarrinpar, R. Follett, S. Hu, C.B. Cooper, T.S. Wang, J. Yanagawa, I. Barjaktarevic, Los Angeles, CA, p.A3534
- P1602** **A Tertiary Care Center's Experience with Management of Pleural Infections/M.** Frohlich, C. Robitaille, A. Hirsch, P. Ernst, L. Sakr, Montreal, Canada, p.A3535

- P1603** **Pleural Fluid Lactate Dehydrogenase/Adenosine Deaminase Ratio for the Differentiation of Tuberculous and Parapneumonic Effusions in Pathological Confirmed Patients/J.** Wang, X. Xie, Y. Zeng, Guangzhou, China, p.A3536

Facilitator: G. Krishna, MD, Mountain View, CA

- P1604** **Pitfalls of a Non-Algorithm Based Pleural Effusion Workup in a Large Community Teaching Hospital/K.** Juenger, C. McElyea, E. Gullapalli, N. Mohan, B. Abejje, J. Vempilly, Fresno, CA, p.A3537
- P1605** **Management of Spontaneous Pneumothorax and Safety of Air Travel in Birt-Hogg-Dube Syndrome/N.** Gupta, E.J. Kopras, E. Henske, L.E. James, S. El-Chemaly, S. Veeraraghavan, M.G. Drake, F.X. McCormack, Cincinnati, OH, p.A3538
- P1606** **Impact of the Standardized Use of Intrapleural Tissue-Plasminogen Activator and Dornase Alfa for Complicated Pleural Effusion/E.C.** Pyles, P. Louzon-Lynch, M. Betancourt-Ramirez, S. Aldarondo, Orlando, FL, p.A3539
- P1607** **Surgical Outcome After Video Assisted Thoracoscopic Resection of Thoracic Endometriosis and Total Visceral Covering Technique in Patients of Refractory Catamenial Pneumothorax/T.** Mizobuchi, M. Kurihara, S. Yamanaka, H. Ebana, H. Kataoka, Tokyo, Japan, p.A3540
- P1608** **Change in Practice of Insertion and Management of Intercostal Drains Over Seven Years in a UK District General Hospital/P.** Russell, S. Clarke, E. Denny, M. Anwar, U. Ekeowa, S. Naik, R. Ragatha, Harlow, United Kingdom, p.A3541
- P1609** **Clinical Relevance of Pleural Effusion in Patients with Pulmonary Embolism/S.-I.** Cha, S.H. Choi, J. Lee, C.-H. Kim, Daegu, Korea, Republic of, p.A3542
- P1610** **Therapeutic Strategy for Refractory Secondary Spontaneous Pneumothorax/S.** Okamoto, M. Kurihara, H. Ebana, H. Yoshikawa, M. Komura, Y. Sekimoto, Y. Koinuma, K. Nishino, J. Ito, T. Mizobuchi, K. Seyama, K. Takahashi, Kawaguchi, Saitama, Japan, p.A3543
- P1611** **Clinical Features and Management of Hepatic Hydrothorax/J.** Im, C.L. Oberg, L. DiFabrizio, G.B. Chun, New York, NY, p.A3544
- P1612** **Characteristics of Lung Entrapment/H.** Wu, R. Maximos, C. Kistler, R. Khosla, Washington, DC, p.A3545
- Facilitator:** D. Chandra, MD, MSc, Pittsburgh, PA
- P1613** **Outcomes of Talc Pleurodesis Beyond Six Months in Patients Treated for Malignant Pleural Effusion/P.** Sivakumar, J. Morton, L. Ahmed, London, United Kingdom, p.A3546
- P1614** **Postoperative Atrial Fibrillation in Patients with Mesothelioma Undergoing Thoracic Surgery with Intraoperative Heated Chemotherapy/J.W.** Schurr, G. Hacopian, Boston, MA, p.A3547
- P1615** **Amount of Negative Pressure Generated with Manual Suction Vs. Negative Pressure Bottle During Thoracentesis/P.** Tunsupon, A.H. Alraiyes, Buffalo, NY, p.A3548
- P1616** **Pleural Interventions in Post Orthotopic Liver Transplant Patients/R.** Salah, K.H. Melamed, N. Cuk, D. Dai, S. Swanson, W.D. Miller, Z. Antongiorgi, A. Zarrinpar, S. Vangala, R. Follett, S. Hu, C.B. Cooper, T.S. Wang, J. Yanagawa, I. Barjaktarevic, Los Angeles, CA, p.A3549



- P1617** **Diagnostic Accuracy of Tumor Markers for Malignant Pleural Effusion: A Derivation and Validation Study**/W. Wang, X.B. Pei, K. Zhai, J.Y. Liu, Q. Zhou, Beijing, China, p.A3550
- P1618** **Diagnostic Accuracy of Interleukin 27 for Tuberculous Pleural Effusion: A Derivation and Validation Study with A Meta-Analysis**/W. Wang, Q. Zhou, K. Zhai, Y. Wang, J.Y. Liu, X.-J. Wang, Z. Wang, J.-C. Zhang, Z.-H. Tong, Beijing, China, p.A3551
- P1619** **Risk Factors for Complications Following Thoracentesis and Chest Tube Insertion for Pleural Effusion or Pneumothorax**/A. Otsuki, S. Noma, T. Ebisudani, A. Tokumoto, M. Nemoto, R. Tsuzuki, K. Nakashima, M. Misawa, M. Aoshima, Chiba, Japan, p.A3552
- P1620** **Intrapleural Instillation of tPA and DNase for Symptomatic Loculated Malignant Pleural Effusion**/E. Rivera-Flores, F. Kheir, S. Fernandez Bussy, M. Parikh, A. Majid, Boston, MA, p.A3553
- P1621** **Port-a-Cath for the Management of Symptomatic Recurrent Pleural Effusions: A Case Series**/E. Rivera-Flores, S. Fernandez Bussy, A. Paton, J. Cardenas-Garcia, A. Majid, Boston, MA, p.A3554

Facilitator: D.J. Feller-Kopman, MD, Baltimore, MD

- P1622** **An Investigation of Pleural Effusions in Hospitalized Patients in a Tertiary Teaching Hospital in Australia**/A. Rose, D. Cramer, K. Nandwani, W. Mallik, M. Ly, Bedford Park, Australia, p.A3555
- P1623** **The Use of Medical Thoracoscopy in the Management of Pleural Infection: A Systematic Review**/A. Shujaat, Buffalo, NY, p.A3556
- P1624** **Pleural Fluid pH: Comparing Analytical Methods and the Impact on Clinical Decision Making**/C. Everett, M. Valdes, A. Aleman, N. Soni, J. Peters, San Antonio, TX, p.A3557
- P1625** **Tunneled Pleural Catheter Following Pleuroscopy with Parietal Pleural Biopsy, an Effective Diagnostic and Therapeutic Tool in the Management of Recurrent Pleural Effusion**/S.M. Conner, J. Chang, D. Teodoro, J.L. Bessich, G.C. Michaud, Greenwich, CT, p.A3558
- P1626** **Case Series of Intrapleural 5mg tPA and 5mg of DNase for 72 Hours for Non-Surgical Therapy of Empyema - Lower Dose with Same Results?**/H. Avella, S.R. Mummadi, Hillsboro, OR, p.A3559
- P1627** **The Incidence and Risk Factors of Asymptomatic Spontaneous Pneumothorax (ASP) Detected During Health Check-Ups**/A. Mitani, Y. Hakamata, M. Hosoi, M. Horie, Y. Murano, A. Saito, S. Yanagimoto, S. Tsuji, K. Yamamoto, T. Nagase, Tokyo, Japan, p.A3560
- P1628** **Incidence of Iatrogenic Complications Following Thoracentesis in an Academic Medical Center**/S. Touray, R.N. Sood, J. Holdorf, P.J. Oliveira, S.E. Kopec, Worcester, MA, p.A3561
- P1629** **Oxidized Regenerated Cellulose Induces Pleural Thickening in Patients with Pneumothorax: Possible Involvement of Mesothelial Mesenchymal Transition**/H. Ebana, T. Mizobuchi, K. Mitani, E. Kobayashi, T. Kumasaka, M. Kurihara, F. Takahashi, K. Takahashi, K. Seyama, Tokyo, Japan, p.A3562

THEMATIC POSTER SESSION

B46 TRANSPLANTATION: CASE REPORTS AND CLINICAL STUDIES

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area O, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: M. Porteous, MD, Philadelphia, PA

- P1631** **Ulcerative Tracheobronchial Aspergillosis in a Lung Transplant Recipient: A Case Report**/M. Reid, W.M. Tsuang, H. Choi, Cleveland, OH, p.A3563
- P1632** **Moldy Mediastinitis in an Orthotopic Heart Transplant Recipient**/A.S. Shah, A. Singh, Z. Min, N. Bhanot, Pittsburgh, PA, p.A3564
- P1633** **Cerebral Toxoplasmosis in a Solid Organ Transplant Recipient; the Flip Side of Prolonged Immune Suppression**/A. Tirmizi, Shelbyville, IN, p.A3565
- P1634** **A Case of Mistaken Identity: Ecthyma Gangrenosum Imitating Acute Invasive Fungal Rhinosinusitis in a Lung Transplant Recipient**/C. Cook, G. Satyanarayana, C. Shaver, Nashville, TN, p.A3566
- P1635** **A Unique Case of Gradual Visual Loss Post Lung Transplant Secondary to Post Transplant Lymphoproliferative Disease**/K.D. Scatliffe, A. Adeboye, A. Arjuna, J. Lee, N. Holder, H. Seethamraju, Newark, NJ, p.A3567
- P1636** **Closure of Bronchopleural Fistula with Endobronchial Valves in a Single Lung Transplant Recipient**/S. Yau, A. Goodarzi, T. Kaleekal, N. Sinha, J. Youssef, Houston, TX, p.A3568
- P1637** **Not Your Usual Colitis: A Complicated Case of Resistant Cytomegalovirus Colitis Post Lung Transplantation**/S. Yau, T. Kaleekal, N. Sinha, E. Lee, J. Youssef, A. Goodarzi, Houston, TX, p.A3569
- P1638** **A Rare Presentation of Post-Transplant Lymphoproliferative Disorder as Isolated Splenomegaly in a Lung Transplant Recipient**/S.A. Razvi, M. Ali, J.P. Corrales, Detroit, MI, p.A3570

Facilitator: A. Iacono, MD, Baltimore, MD

- P1639** **Acute Fibrinous and Organizing Pneumonia in a Lung Transplant Patient Managed Without Calcineurin Inhibitors**/M.G. Patel, S. Qudus, Maywood, IL, p.A3571
- P1640** **Bone Marrow Failure Secondary to Short Telomere Syndrome After Lung Transplantation**/S.C. Guo, P. La Porte, D.M. Sayah, Los Angeles, CA, p.A3572
- P1641** **A Complex Complication Involving the Native Lung in Single-Lung Transplantation, the Challenge in Treatment: A Case Report**/L. Fernandez, J.F. Henao, V. Zuniga, W. Martinez, M. Velasquez, Cali, Colombia, p.A3573



- P1642** **Silicone Y-Stent Placement in Post-Transplant Anastomotic Stenosis: A New Norm?**/S. Pandey, A.P. Maskey, Lexington, KY, p.A3574
- P1643** **Tacrolimus-Induced Thrombotic Microangiopathy (TMA) in Orthotopic Lung Transplant Patients: A Case Series**/J. Whitson, C.A. Hage, Indianapolis, IN, p.A3575
- P1644** **Successful Lung Transplantation in Recipients with Positive Flow Cytometric Crossmatch Treated with Immediate Post-Operative Intravenous Immunglobulin (IVIg)**/R.J. Hadley, M. Strueber, R.E. Girgis, Grand Rapids, MI, p.A3576
- P1645** **Omalizumab and Eosinophilic CLAD-a Case Report**/C. Bergeron, R. Nador, J. Jangalee, A. Jones, J. Swiston, J. Yee, R.D. Levy, Vancouver, Canada, p.A3577
- P1646** **Clinical Characteristics of Japanese Candidates for Lung Transplant Due to Interstitial Lung Disease and Risk Factors for Early Death While on the Waiting List**/H. Higo, E. Ichihara, T. Kurosaki, K. Miyoshi, T. Kubo, S. Otani, S. Sugimoto, M. Yamane, N. Miyahara, K. Kiura, T. Oto, Okayama City, Japan, p.A3578
- Facilitator:** S. Nathan, MD, Falls Church, VA
- P1647** **Improvement in Health-Related Quality of Life After Lung Transplant Is Not Significantly Impacted by Emergent Referral**/N.A. Kolaitis, D. Huang, A. Soong, P. Shrestha, J.A. Golden, L. Leard, R.J. Shah, M.E. Kleinhenz, J.R. Greenland, P.P. Katz, P.D. Blanc, S. Hays, J. Kukreja, J.P. Singer, San Francisco, CA, p.A3579
- P1648** **Outcomes of Unplanned Versus Planned Extracorporeal Membrane Oxygenation in Patients Undergoing Lung Transplantation**/S. Krishnan, G. Ruppel, T. Wozniak, Z. Hashmi, I.-W. Wang, D. Roe, C.A. Hage, Indianapolis, IN, p.A3580
- P1649** **Traits Associated with Successful Double Lung and Heart-Lung Transplantation in Patients Bridged with Extracorporeal Membrane Oxygenation**/N.A. Braus, S. Peters, G.J. Scheers, J.P. Scott, R.C. Daly, M.E. Wylam, C.C. Kennedy, Rochester, MN, p.A3581
- P1650** **The Use of Planned Perioperative Extracorporeal Membrane Oxygenation (ECMO) in Lung Transplant of Patients with Idiopathic Pulmonary Fibrosis (IPF)**/G. Ruppel, J. Whitson, Z. Hashmi, I.-W. Wang, T. Wozniak, D. Roe, M. Duncan, D. Gutteridge, J. Salgado, C.A. Hage, Indianapolis, IN, p.A3582
- P1651** **Outpatient Transitioning from Injectable Prostacyclins to Inhaled Treprostinil in Pulmonary Hypertension**/L. Kimmig, S. Coslet, L. Palen, R. Bag, Chicago, IL, p.A3583
- P1652** **Chronic Pulmonary Silicone Embolism Is Not a Common Finding in Explanted Lungs from Women with Prior Breast Augmentation**/J. Singh, H. Inaty, S. Mukhopadhyay, A.C. Mehta, Cleveland, OH, p.A3584
- P1653** **Incidence, Features and Clinical Significance of Abnormal Chest Imaging During the First 100 Days Following Hematopoietic Cell Transplantation**/A.I. Geyer, A.J. Plodkowski, M. Fingerhood, C. Cho, S. Devlin, Y. Taur, M. Ginsberg, M. Perales, S. Giralt, E. Pamer, D. Stover, B. Harris, New York, NY, p.A3585

THEMATIC POSTER SESSION

B47 **LONG ACTING BRONCHODILATOR THERAPY IN COPD I**9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area D, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** A. Anzueto, MD, San Antonio, TX

- P353** **Improvement in Trough FEV₁ with Indacaterol/Glycopyrrolate in Patients with Moderate-to-Severe COPD: A Pooled Subgroup Analysis of the FLIGHT1 and FLIGHT2 Studies**/G.T. Ferguson, E.M. Kerwin, S. Fucile, A. Yadao, S. Maitra, T. Ayers, R. Fogel, F. Patalano, D. Banerji, Farmington Hills, MI, p.A3586
- P354** **Long-Term Safety of Tiotropium/Olodaterol Respimat® in Elderly Patients with Moderate to Very Severe COPD in the TONADOA® Studies**/G.T. Ferguson, F. Maltais, J. Karpel, U. Bothner, L. Loaiza, M. Trampisch, R. Buhl, Farmington Hills, MI, p.A3587
- P355** **Long-Term Safety of SUN-101/eFlow® in Moderate-to-Very-Severe COPD: Results from the Glycopyrrolate for Obstructive Lung Disease Via Electronic Nebulizer (GOLDEN) 5 Study**/G.T. Ferguson, T. Goodin, R. Tosiello, A. Wheeler, E.M. Kerwin, Farmington Hills, MI, p.A3588
- P356** **Indacaterol/Glycopyrrolate Reduces Night-Time Symptoms in Patients With Moderate-to-Severe COPD: Pooled Analysis of the FLIGHT1 and FLIGHT2 Studies**/D.A. Mahler, G.T. Ferguson, S. Fucile, A. Yadao, C. Thach, A. Fowler Taylor, R. Fogel, F. Patalano, D. Banerji, Lebanon, NH, p.A3589
- P357** **Long-Term Safety of Tiotropium/Olodaterol Respimat® in Patients with Moderate to Very Severe COPD and Renal Impairment in the TONADO® Studies**/C. LaForce, E. Derom, U. Bothner, L. Loaiza, M. Trampisch, R. Buhl, Raleigh, NC, p.A3590
- P358** **Dose Selection for SUN-101/eFlow® Phase 3 Clinical Studies: Results from GOLDEN (Glycopyrrolate for Obstructive Lung Disease Via Electronic Nebulizer) Phase 2 Dose-Finding Studies**/J.F. Donohue, T. Goodin, R. Tosiello, A. Wheeler, Chapel Hill, NC, p.A3591

Facilitator: M.B. Drummond, MD, Chapel Hill, NC

- P359** **Improvement in Lung Function and Health Status with Indacaterol/Glycopyrronium Versus Salmeterol/Fluticasone in a Subgroup of Patients with ≥2 Exacerbations in the Previous Year: Results from the FLAME Study**/K.R. Chapman, J.A. Wedzicha, N. Roche, S. Fucile, A. Yadao, T. Ayers, C. Thach, A. Fowler Taylor, R. Fogel, F. Patalano, D. Banerji, Toronto, Canada, p.A3592
- P360** **Effect of Acclidinium/Formoterol on Lung Hyperinflation, Exercise Capacity and Physical Activity in Patients with COPD: Results from ACTIVATE, a Phase IV Study**/H. Watz, T. Troosters, K.M. Beeh, J. Garcia Aymerich, P. Paggiaro, E. Molins, M. Notari, D. Jarreta, E. Garcia Gil, Grosshansdorf, Germany, p.A3593



- P361** **LAMA/LABA Glycopyrrolate/Formoterol Fixed-Dose Combination, Delivered Using a Novel MDI Co-Suspension™ Delivery Technology Reduces Risk of Clinically Important Deteriorations in COPD Versus Placebo and Monocomponent MDIs/K.F. Rabe, F.J. Martinez, R. Rodriguez-Roisin, L.M. Fabbri, G.T. Ferguson, C. Orevillo, P. Darken, A. Maes, U.J. Martin, C. Reisner, Grosshansdorf/ Kiel, Germany, p.A3594**
- P362** **A Comparison of the Patient Population in the Salford Lung Study (SLS COPD) of Clinical Effectiveness Versus Six Typical Large Efficacy/Safety Studies in COPD/D.A. Leather, J. Vestbo, N.D. Bakerly, I. Boucot, S. Collier, A. Woodcock, S. Blaikie, J.P. New, S. Hargreaves, Brentford, United Kingdom, p.A3595**
- P363** **Evaluation of the Effects of Bronchodilators on Lung Volumes and Diffusion Capacity for Carbon Monoxide/M.R. Addis, R. Hamlin, K. Pignatella, E. Rubio, Roanoke, VA, p.A3596**
- P364** **A Comprehensive Assessment of the Safety Profile of Olodaterol in the RespiMat® Device Versus Formoterol for Maintenance Treatment of COPD/M.R. Maleki-Yazdi, H. Watz, U. Bothner, K. Tetzlaff, M. Trampisch, L. McGarvey, Toronto, Canada, p.A3597**

Facilitator: G.T. Ferguson, MD, Farmington Hills, MI

- P365** **Safety and Tolerability of Revefenacin, a Novel Once-Daily Nebulized Long-Acting Muscarinic Antagonist: Results of Two 12-Week, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Phase 3 Trials in Participants with Moderate to Very Severe Chronic Obstructive Pulmonary Disease/G. Feldman, C.N. Barnes, E.J. Moran, B. Haumann, S. Pendyala, G.D. Crater, Spartanburg, SC, p.A3598**
- P366** **Time-to-Event Analysis of a Composite Endpoint for Chronic Obstructive Pulmonary Disease: Post Hoc Analysis of the UPLIFT Study/D. Halpin, M.K. Han, F. Martinez, K.F. Rabe, D. Singh, L. Groenke, F. Voss, M. Miravittles, Exeter, United Kingdom, p.A3599**
- P367** **Rapid Benefits of Budesonide/Formoterol Pressurized Metered-Dose Inhaler Treatment in Lung Volumes, Breathing Pattern, and Oxygen Consumption in COPD Patients with Resting Hyperinflation/M. Divo, M. DePietro, J. Horton, B.R. Celli, Boston, MA, p.A3600**
- P368** **Treatment Modification and Costs in Patients with Chronic Obstructive Pulmonary Disease Initiating Long-Acting Bronchodilator Monotherapy/M. DePietro, L. Bengtson, J. McPheeters, K. Fox, J. Davis, Wilmington, DE, p.A3601**
- P369** **The Effect of Acclidinium Bromide 400 µg on the Relief of Daily Symptoms Associated with Chronic Obstructive Pulmonary Disease, Including Cough/J.A. Smith, L. McGarvey, A.H. Morice, S.S. Birring, J.A. Wedzicha, M. Notari, R. Segarra, B. Seoane, D. Jarreta, Manchester, United Kingdom, p.A3602**
- P370** **Impact of Nebulized Long-Acting Beta Agonists on Daily Symptoms of COPD Patients/R. Marron, N. Gaeckle, A. Criner, B. Smith, G.J. Criner, Philadelphia, PA, p.A3603**

Facilitator: J.F. Donohue, MD, Chapel Hill, NC

- P371** **A Five-Way Crossover Study to Compare Systemic Absorption and Bronchodilator Effect of Glycopyrrolate After a Single Dose Delivered by Nebulizer (SUN-101) or a Dry Powder Inhaler (Seebri) and in Patients with COPD (GOLDEN-7)/F.Y. Ali, B.R. Leaker, G.C. Nicholson, D. Singh, P.J. Barnes, London, United Kingdom, p.A3604**

- P372** **Improved Lung Function by 24-Hour Serial Spirometric Assessment with Single Inhaler Triple Therapy Versus Dual Therapy in Patients with Advanced Chronic Obstructive Pulmonary Disease (COPD): Subgroup Analysis of the Global, Randomized, Phase III FULFIL Study/D.A. Lipson, H. Barnacle, R. Birk, N. Brealey, C.-Q. Zhu, S. Pascoe, King of Prussia and Philadelphia, PA, p.A3605**
- P373** **Interpretation of Safety Findings in Clinical Effectiveness Trials: Insights from the Salford Lung Study (SLS COPD)/S.D. Collier, C. Harvey, N.D. Bakerly, J.P. New, A. Woodcock, J. Vestbo, J.M. Gibson, G. Cardwell, H.F. Elkhenini, C. Williams, D.A. Leather, Uxbridge, United Kingdom, p.A3606**
- P374** **Dose Ranging of Batefenterol Dual-Pharmacology in Patients with COPD/C.C. Crim, E.D. Bateman, I. Schenkenberger, E.M. Kerwin, G. Feldman, M.L. Watkins, S. Ho, C. Crawford, C. Baidoo, R. Castro-Santamaria, Research Triangle Park, NC, p.A3607**
- P375** **Prevention of Early Worsening of COPD with Umeclidinium Open Triple Therapy Compared with Inhaled Corticosteroid/Long-Acting β2-Agonist Alone: A Pooled Post Hoc Analysis/I.P. Naya, D.A. Lipson, C. Compton, Middlesex, United Kingdom, p.A3608**
- P376** **Proportion of Patients with Superior Improvement in Health Status with Indacaterol/Glycopyrrolate Versus Placebo in Patients with Moderate-to-Severe COPD: A Pooled Analysis of FLIGHT1 and FLIGHT2 Studies/E.M. Kerwin, J. Donohue, S. Fucile, A. Yadao, C. Thach, A. Fowler Taylor, R. Fogel, F. Patalano, D. Banerji, Medford, OR, p.A3609**

THEMATIC POSTER SESSION

B48 COPD AND COMORBIDITIES

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area D, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: R.G. Barr, MD, DrPH, New York, NY

- P378** **Significance of Prolonged QT_c in Acute Exacerbations of COPD Requiring Hospitalization/K. Vermeersch, O. Van Oekelen, R. Willems, W. Janssens, Louvain, Belgium, p.A3610**
- P379** **Effect of Beta-Blockers on Outcomes in the SUMMIT Study/M. Dransfield, J.A. Anderson, R.D. Brook, P.M.A. Calverley, B.R. Celli, C. Crim, N. Gallot, F.J. Martinez, D.A. McAllister, P.D. Scanlon, J. Yates, J. Vestbo, D.E. Newby, Birmingham, AL, p.A3611**
- P380** **Cardiovascular Function in Patients Admitted to Hospital for an Acute Exacerbation of Chronic Obstructive Pulmonary Disease/D. Fuhr, C. Lee, W. Michaelchuk, A. Brotto, I. Andersson, B. Byers, B. Rowe, R. Leigh, R. Damant, M. Bhutani, M. Stickland, Edmonton, Canada, p.A3612**



- P381 Acute Pain and Strong Opioid Prescription in Chronic Obstructive Pulmonary Disease/M.** Maignan, D. Viglino, R. Daoust, C. Faivre-Perret, S. Bailly, M. Roustit, J. Paquet, S. Blachon, J.L. Pepin, G. Debaty, J.M. Chauny, Grenoble, France, p.A3614
- P382 Serum Creatinine Levels Referenced by Cystatin C Are Associated with Disease Severity in Patients with COPD/K.** Nishiki, S. Mizuno, M. Nojiri, T. Oikawa, K. Nakagawa, K. Osanai, T. Ishizaki, H. Toga, Ishikawa, Japan, p.A3615
- P383 Co-Morbidities in Non-Smokers with Airflow Limitation/J.H.** Park, H.J. Kim, W.Y. Chung, S.S. Sheen, K.S. Lee, Y.-J. Jung, K.J. Park, S.C. Hwang, J.H. Kim, Suwon, Korea, Republic of, p.A3616
- P384 Non-Alcoholic Fatty Liver Disease in Chronic Obstructive Pulmonary Disease/D.** Viglino, I. Jullian-Desayes, M. Minoves, J. Aron-Wisnewsky, V. Leroy, J.P. Zarski, R. Tamisier, M. Joyeux-Faure, J.L. Pepin, Grenoble, France, p.A3617
- P385 Research of Anxiety, Depression State and Change of Inflammatory Factors in AECOPD Patients/H.** Li, P. Wang, Beijing, China, p.A3618
- P386 Effects of Respiratory Function, Life Quality, Anxiety and Depression on Exacerbation Count in Cases with Chronic Obstructive Pulmonary Disease/L.** Cevirme, G. Altıay, N. Sut, O. Caliyurt, Bursa, Turkey, p.A3619
- P387 A Retrospective Analysis of Pulmonary Function Tests in Patients with COPD and Studying Their Association with COPD-Associated Pulmonary Hypertension/S.P.** Pandey, V. Singh, S. Krishnan, S. Rehman, S. Gupta, Pittsburgh, PA, p.A3620
- P388 Evaluating the Role of Echocardiography in Detecting Severe Pulmonary Hypertension in COPD Patients/S.P.** Pandey, V. Singh, S. Krishnan, S. Rehman, S. Gupta, Pittsburgh, PA, p.A3621
- P389 Evaluating the Validity of PCWP in Predicting LVEDP in Patients with COPD Listed for Lung Transplant/S.P.** Pandey, V. Singh, S. Krishnan, S. Rehman, S. Gupta, Pittsburgh, PA, p.A3622
- Facilitator:** J.M. Wells, MD, Birmingham, AL
- P390 Exploring Beyond the Horizons: A Prediction Model for Severe Pulmonary Hypertension in COPD Patients/S.P.** Pandey, S. Rehman, S. Krishnan, V. Singh, S. Gupta, Pittsburgh, PA, p.A3623
- P391 Impact of Chronic Systemic Inflammatory COPD Phenotype on Cardiovascular Disease/E.T.** Tudorache, O. Fira Mladinescu, D. Manolescu, B. Timar, C. Oancea, V. Tudorache, Timisoara, Romania, p.A3624
- P392 Sarcopenia in Korean Men with COPD Based on Korean National Health and Nutrition Examination Survey 2008-2011/J.Y.** Jung, P. Moo Suk, J.E. Park, E.H. Lee, L. Jung Mo, Seoul, Korea, Republic of, p.A3625
- P393 Adjudicating Cardiovascular Events in a Respiratory Trial - Learnings from SUMMIT/R.A.** Wise, P. Amarenco, J.A. Anderson, R.D. Brook, P.M.A. Calverley, B. Celli, C.C. Crim, M. Denvir, C.R. Gomez, M. Jones, S. Magder, F.J. Martinez, D.E. Newby, J.C. Yates, J. Vestbo, D.E. Niewoehner, Baltimore, MD, p.A3626
- P394 Plasminogen Activator Inhibitor-1 Is Elevated in Patients with COPD Independently of Metabolic and Cardiovascular Function/** S. Janciauskiene, H. Watz, O. Holz, H. Magnussen, B. Olejnicka, T. Welte, K.F. Rabe, B. Waschki, Hannover, Germany, p.A3627
- P395 Use of Serum Bovine Immunoglobulin to Improve Cachexia Associated with Advanced Chronic Obstructive Pulmonary Disease/L.** Paoletti, C.B. Strange, Charleston, SC, p.A3628
- P396 Impact of Cardiovascular Co-Morbidities in COPD Patients: A Retrospective Study Within a Large UK Single Primary Care Cohort/M.P.** Singh, Rugeley, United Kingdom, p.A3629
- P397 Features of Heart Failure Within a Large Single-Practice Primary Care COPD Cohort in the UK/M.P.** Singh, Rugeley, United Kingdom, p.A3630
- P398 Early Life Origins and Transgenerational Heritability of Adult Chronic Airway Diseases and Multimorbidity/R.** Faner, G. Noell, J. Brugada, A. Agusti, Barcelona, Spain, p.A3631
- P399 Correlation Between Lung Function and Carotid Intima Media Thickness in Indian Patients of Stable Chronic Obstructive Pulmonary Disease/D.P.** Bhadoria, K. Goyal, S.G. Nithin, G.S. Pradhan, P. Bhadoria, New Delhi, India, p.A3632
- P400 Novel Vascular Manifestations of Chronic Obstructive Pulmonary Disease (NoVasC) Study: Results from Multimodal Cerebral Magnetic Resonance Imaging of Non-Hypoxaemic Stable Chronic Obstructive Pulmonary Disease (COPD) Vs. Smoker Controls Without COPD/C.A.** Spilling, M.-P.K. Bajaj, D.R. Burrage, S. Ruickbie, E.H. Baker, P.W. Jones, T.R. Barrick, J.W. Dodd, London, United Kingdom, p.A3633
- Facilitator:** V. Kim, MD, Philadelphia, PA
- P401 Increased Parasympathetic Cardiac Modulation in Patients with Acute Exacerbation of Chronic Obstructive Pulmonary Disease: How Should We Interpret It?/A.G.** Agnoletto, E.Z. Kabbach, A.M. Bonanca, J.F. Barbosa, N.R.F. Dias, R. Cabiddu, V.A.P. Di Lorenzo, A. Borghi-Silva, R.G. Mendes, Sao Carlos, Brazil, p.A3634
- P402 Chronotropic Incompetence and Its Relation to Exercise Intolerance in Chronic Obstructive Pulmonary Disease/J.-M.** Liu, H. Liu, J. Guo, W. Yang, Q. Zhao, L. Wang, S. Gong, Shanghai, China, p.A3635
- P403 Sarcopenia and Frailty, Two New Domains in Chronic Obstructive Pulmonary Disease Prognosis: A Systematic Review/C.A.** Celis Preciado, M. Borda, S. Castelblanco, A. Peralta, J. Mancera, M. Diaz, R. Heredia, M.J. Fernandez Sanchez, M. Perez-Cepeda, Bogota, Colombia, p.A3636
- P404 Does Vertebral Deformity Contribute to Pain in Chronic Obstructive Pulmonary Disease (COPD)?/Y.-W.** Chen, H.O. Coxson, S. Lam, W.D. Reid, Vancouver, Canada, p.A3637
- P405 Prevalence and Pattern of Metabolic Syndrome in Patients of Chronic Obstructive Pulmonary Disease (COPD) and Its Correlation with the Severity of COPD/P.** Nayyar, V.K. Jain, M. Mishra, Jaipur, India, p.A3638
- P406 Risk of Fall in Patients with Chronic Obstructive Pulmonary Disease/A.** Hakamy, C.E. Bolton, J. Gibson, T. McKeever, Nottingham, United Kingdom, p.A3639
- P407 Atherosclerotic Calcification in Major Vessel Beds in COPD: The Rotterdam Study/L.** Lahousse, D. Bos, O.H. Franco, M.A. Ikram, B.H. Stricker, M.W. Vernooij, A. Van Der Lugt, G.G. Brusselle, Gent, Belgium, p.A3640



- P408 A New Prognostic Score for Pulmonary Embolism Among Patients with COPD: A Cross Sectional Study/J. Maritano** Furcada, H.M. Castro, F. Angriman, F.J. Vazquez, D.H. Giunta, G.D. Waisman, G. Svetliza, B.L. Ferreyro, Buenos Aires, Argentina, p.A3641
- P409 The Association Between Obesity and Chronic Obstructive Pulmonary Disease (COPD) in a Hospital in the North East/M. Hanna, F. Ponce, M.B. Naranjo, Z. Ghazarian, Z. Syed, R. Sekhon, T. Pandya, M. Ismail, Paterson, NJ, p.A3642**
- P410 Association of COPD with Cardiovascular Events in Adults with Atrial Fibrillation: Insights from the ORBIT-AF Registry/M.T. Durheim, D.N. Simon, L. Allen, J.E. Ansell, P.S. Chan, J.V. Freeman, G.C. Fonarow, A.S. Go, E.M. Hylek, K. Mahaffey, S.D. Pokorney, J.A. Reiffel, D.E. Singer, E.D. Peterson, J.P. Piccini, Durham, NC, p.A3643**
- P411 Comorbidities and Mortality of Patients with Severe Emphysema Evaluated for Bronchoscopic Lung Volume Reduction/E. Tanriverdi, D. Turan, M. Cortuk, E.G. Ugur Chousein, Z.B. Yildirim, B. Demirkol, M.A. Ozgul, E. Cetinkaya, Istanbul, Turkey, p.A3644**
- Facilitator:** D.D. Sin, MD, Vancouver, Canada
- P412 Association of Sputum Symptoms with Gastro-Esophageal Reflux Disease in the General Population: The Nagahama Study/C. Morimoto, H. Matsumoto, Y. Izuhara, T. Nagasaki, Y. Kanemitsu, Y. Ishiyama, H. Sunadome, T. Oguma, I. Ito, Y. Tabara, F. Matsuda, A. Niimi, S. Muro, M. Mishima, Kyoto, Japan, p.A3645**
- P413 Trends in the Incidence of Stroke, by Subtype, in People with Chronic Obstructive Pulmonary Disease (COPD)/A.D. Morgan, K. Rothnie, L. Smeeth, J. Quint, London, United Kingdom, p.A3646**
- P414 COPD and BMI Among Low- and Middle-Income Countries/M. Grigsby, T. Siddharthan, B. Morgan, W. Checkley, Baltimore, MD, p.A3647**
- P415 COPD and Periodontitis - Shared Pathophysiology or Shared Risk?/S. Hobbins, S. Parmar, S. Crichard, I. Chapple, E. Sapey, R.A. Stockley, Birmingham, United Kingdom, p.A3648**
- P416 Risk of Chronic Obstructive Pulmonary Disease in Women of Reproductive Age with Pelvic Inflammatory Disease: A Nationwide Population-Based Cohort Study/T.-C. Shen, C.-H. Li, C.-Y. Tu, T.-C. Hsia, Taichung, Taiwan, p.A3649**
- P417 Prevalence and Determinants of Chronic Obstructive Pulmonary Disease in Patients with Stable Heart Failure in Douala General Hospital, Cameroon/B.H. Mbatchou Ngahane, F. Kamdem, V. Che, A. Dzudie, M. Nganda, H.R. Ngote, S. Mandengue, Douala, Cameroon, p.A3650**
- P418 Geriatric Conditions, Disability and Functional Limitations in Smokers: An Analysis of the COPDGene Cohort/C. Martinez, A.A. Diaz, W.W. Labaki, C. Meldrum, J. Curtis, S. Murray, G. Kinney, J. Hokanson, N. Putcha, R. Bowler, N. Hansel, G. Washko, B.J. Make, M. Divo, F.J. Martinez, C.P. Hersh, C.T. Cigolle, E. Regan, M.K. Han, Ann Arbor, MI, p.A3651**
- P419 The Relationship Between COPD and Cognitive Performance in the Third National Health and Nutrition Examination Survey (NHANES III)/S. Kumbhare, C.B. Strange, Charleston, SC, p.A3652**

- P420 Impact of Obesity in Chronic Obstructive Pulmonary Disease (COPD). Observational Study in Mexican Population in the General Hospital of Mexico "Dr. Eduardo Liceaga"/Y. Mares, M. Diaz, R.R. Hernandez, Mexico City, Mexico, p.A3653**
- P421 Chronic Bronchitis, but Not Emphysema, Related to Gastroesophageal Reflux Disease Is Associated with Biomass Exposure in a High Altitude Rural Setting/J.L. Avilez, L.M. Lopez, O. Llanos, S. Matayoshi, R.A. Accinelli, Lima, Peru, p.A3654**
- P422 The Degree of Atherosclerosis Is an Independent Predictor of Six-Minute-Walk Distance in Patients with Chronic Obstructive Pulmonary Disease - Data from COPDGene Study/D. Li, R. Casaburi, C. Tan, J.D. Crapo, G.R. Washko, B.J. Make, D.A. Lynch, J. Hokanson, M.J. Budoff, Los Angeles, CA, p.A3655**

THEMATIC POSTER SESSION

B49 COPD: SYMPTOM AND CLINICAL ASSESSMENT

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area D, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: R.D. Yusen, MD, MPH, St. Louis, MO
M. To, MD, PhD, Koshigaya-City, Japan

- P424 Correlations Between Airway Inflammation and Symptom Variability in Stable COPD/A. Pauletti, M. Marchi, I. Marchi, L. Morandi, F. Bellini, G. Forini, G. Caramori, A. Papi, M. Contoli, Ferrara, Italy, p.A3656**
- P425 Short Term Reliability of Assessment of Symptoms in Smokers with Preserved Spirometry/S. Patel, W.H. Anderson, R.G. Barr, I. Barjaktarevic, E. Bleeker, R. Bowler, E.E. Carretta, S.A. Christenson, C.B. Cooper, A.P. Comellas, D. Couper, G.J. Criner, J. Curtis, M. Dransfield, N. Hansel, M.K. Han, E.A. Hoffman, R.E. Kanner, J.A. Krishnan, S.C. Lazarus, F.J. Martinez, R. Paine, P.G. Woodruff, San Francisco, CA, p.A3657**
- P426 Quantifying Symptom Variability in COPD: Exploratory Analyses Utilizing Evaluating Respiratory Symptoms (E-RS) in SPIROMICS/K.M. Ancy, C. Oromendia, K.V. Ballman, N. Leidy, W.H. Anderson, R.G. Barr, E. Bleeker, R. Bowler, E.E. Carretta, C.B. Cooper, D. Couper, C.M. Doerschuk, M. Dransfield, N. Hansel, E.A. Hoffman, R.E. Kanner, K.G. Malley, W. O'Neal, R. Paine, S.P. Peters, M.B. Scholand, P.G. Woodruff, M.K. Han, F.J. Martinez, New York, NY, p.A3658**
- P427 COPD Patients with Increasing COPD Assessment Test (CAT) Score During 3 Years/H. Irie, S. Chubachi, A. Tsutsumi, N. Kameyama, I. Nakachi, A. Umeda, N. Miyao, H. Nakamura, K. Asano, T. Betsuyaku, Tokyo, Japan, p.A3659**



- P428** **Greater Number of Teeth in COPD Patients with Poor Dental Health Correlates with Worse Daily Respiratory Symptoms/** B. Heyman, N. Gaeckle, A. Criner, G.J. Criner, Philadelphia, PA, p.A3660
- P429** **A Summary of the Development and Validation of the Early Morning Symptoms of COPD Instrument (EMSCI)/**E. Garcia Gil, E. Zaiser, A. Hareendran, B.J. Make, Barcelona, Spain, p.A3661
- P430** **Clinically Important Deterioration Events in Chronic Obstructive Pulmonary Disease: A Post Hoc Analysis of the Relative Timing of Component Deterioration in the UPLIFT Study/**F. Martinez, D. Halpin, M.K. Han, M. Miravittles, K.F. Rabe, L. Groenke, F. Voss, D. Singh, New York, NY, p.A3662
- P431** **Respiratory Symptoms and Other Respiratory Illnesses in Severe COPD Cases from Korea, Poland, and United States/**W.J. Kim, J.-J. Yim, D.K. Kim, M.G. Lee, R. Rosiello, A. Fuhlbrigge, P. Sliwinski, I. Hawrylkiewicz, E.S. Wan, M.H. Cho, E.K. Silverman, Chuncheon-si, Korea, Republic of, p.A3663
- Facilitator:** N. Hansel, MD, MPH, Baltimore, MD
- P432** **QA Project: Accuracy of Case Definition Used for COPD Epidemiologic Studies/**C.Y. Pu, R. Nunez Lopez, K. Aryal, N. Quesada, A. Tulaimat, Chicago, IL, p.A3664
- P433** **Undiagnosed Chronic Obstructive Pulmonary Disease Leads to a Significant Symptom Burden, with Important Differences Between Men and Women/**J. Wald, W.C. Tan, P.Z. Li, S.D. Aaron, A. Benedetti, K.R. Chapman, B.L. Walker, P. Hernandez, F. Maltais, D. Marciniuk, D.E. O'Donnell, D.D. Sin, J. Bourbeau, Montreal, Canada, p.A3665
- P434** **Air Pollution Exposures Are Associated with Worse Dyspnea in the SPIROMICS Cohort/**L.M. Paulin, A. Gassett, S. Hwang, R. Peng, N.E. Alexis, E. Bleecker, M.K. Han, C.S. Pirozzi, C.B. Cooper, P.G. Woodruff, R.G. Barr, P. Breyse, J.D. Kaufman, N. Hansel, Baltimore, MD, p.A3666
- P435** **Validity of GOLD and ICPRG's COPD Screening Questionnaires and Their Application in Southern Vietnam/**V. Tran Thien Quan, L. Thi Tuyet Lan, Ho Chi Minh City, Viet Nam, p.A3667
- P436** **Prevalence of COPD and High Risk for COPD in a Four State Health Survey/**R. Pleasants, K. Heidari, J. Ohar, C.B. Strange, D.M. Mannino, N. Lugogo, S. Kanotra, W. Liao, M. Kraft, J. Donohue, Durham, NC, p.A3668
- P437** **Time of Day of Chronic Obstructive Pulmonary Disease Symptoms and Their Association with Work Productivity and Health Care Resource Utilization/**A. Munoz, M. Small, R. Wood, A. Ribera, J. Nuevo, Barcelona, Spain, p.A3669
- P438** **Respiratory Outcomes in Eight US Population-Based Cohorts: The NHLBI Pooled Cohorts Study/**P.P. Balte, P. Cassano, D. Couper, P. Enright, A. Folsom, J. Hankinson, D. Jacobs, R. Kalhan, R. Kaplan, R. Kronmal, L. Lange, L. Loehr, S. London, R.G. Barr, A. Navas-Acien, A. Newman, G. O'Connor, J. Schwartz, L. Smith, W. White, F. Yeh, S. Yende, E. Oelsner, New York, NY, p.A3670
- P439** **Association of Disease Knowledge Level and Quality of Life in Patients with Chronic Obstructive Pulmonary Disease/**K.U. Kim, H.J. Na, S.H. Lee, H.K. Park, Y.S. Kim, J. Mok, M. Kim, K. Lee, J. Eom, M.K. Lee, Busan, Korea, Republic of, p.A3671

Facilitator: D.A. Mahler, MD, Lebanon, NH

- P440** **Corellation Between Emphysema and Pneumonia Risk in Patients with Chronic Obstructive Pulmonary Disease/**A. Sadigov, F. Abdullayev, Baku, Azerbaijan, p.A3672
- P441** **A Comparison of Symptoms in Individuals with Chronic Obstructive Pulmonary Disease/**Y.-W. Chen, J.D. Road, P.G. Camp, W.D. Reid, Vancouver, Canada, p.A3673
- P442** **COPD Assessment Test (CAT) Correlates with Depression in COPD/**J. Ohar, M. Hayat-Syed, T. Lovings, S.P. Peters, W. Qureshi, M.U. Khayyam-Sayyed, Winston-Salem, NC, p.A3674
- P443** **Daily Respiratory Symptoms Based on Degree of Airflow Obstruction in Patients with COPD/**R. Marron, N. Gaeckle, A. Criner, B. Smith, G.J. Criner, Philadelphia, PA, p.A3675
- P444** **Reliability and Validity of Modified Pulmonary Functional Status and Dyspnea Questionnaire in Chinese Patients with Chronic Obstructive Pulmonary Disease/**P. Wang, M.H. Li, Beijing, China, p.A3676
- P445** **The Use of Oral Urease Activity as an Assessment of COPD Symptoms in Current and Former Smokers/**N. Gaeckle, M. Diamond, A. Criner, G.J. Criner, Philadelphia, PA, p.A3677
- P446** **The St. Georges Respiratory Questionnaire Definition of Chronic Bronchitis Is a Better Predictor of Exacerbations than the Classic Definition in Long-Term Follow-Up in COPD Patients/**V. Kim, H. Zhao, G.J. Criner, P.W. Jones, E. Regan, E.K. Silverman, B.J. Make, J. Curtis, J.D. Crapo, Philadelphia, PA, p.A3678
- P447** **Prospective Assessment of Global Initiative for Chronic Obstructive Lung Disease (GOLD) 2017 Categories and Chronic Obstructive Pulmonary Disease (COPD) Phenotypes: Evolution During Two Years/**V. Koblizek, J. Svancara, K. Hejduk, M. Svoboda, M. Plutinsky, K. Brat, J. Zatloukal, E. Volakova, P. Popelkova, F. Salajka, L. Heribanova, P. Safranek, O. Sobotik, M. Fecaninova, P. Vanik, P. Musilova, J. Lnenicka, T. Dvorak, V. Rihak, K. Neumannova, B. Novotna, E. Kocova, M. Kopecky, M. Sipkova, J. Jarkovsky, Hradec Kralove, Czech Republic, p.A7712

THEMATIC POSTER SESSION

B50 CRITICAL CARE: BEYOND THE VENTILATOR - NON-INVASIVE VENTILATION, HIGH FLOW OXYGEN, AND NON-CONVENTIONAL VENTILATION

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area M, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: N.S. Hill, MD, Boston, MA
B.K. Patel, MD, Chicago, IL

- P1279** **Analysis of Use of High-Flow Nasal Cannula Therapy Among Do-Not-Intubate Patients/**T. Jinta, H. Nakaoka, R. Tsugitomi, T. Tanigawa, K. Okahuji, A. Kitamura, Y. Tomishima, N. Nishimura, T. Tamura, N. Chohnabayashi, Tokyo, Japan, p.A3679



- P1280 Nasal Highflow (NHF) in Combination with an Aerosol Delivery Device Improves Lung Function/J. Braunlich, H. Wirtz, Leipzig, Germany, p.A3680**
- P1281 The Role of High Flow Nasal Oxygen in Patients with Acute Respiratory Distress Syndrome/L. Miyakawa, A. Love, L.L. Seijo, J. Deseda, S. Acquah, P. Patrawalla, D. Steiger, New York, NY, p.A3681**
- P1282 Increased Use of High Flow Within an MICU Population Over Three Years/M.A. Zulqarnain, A. Kelly, E.P. Cassity, P.E. Morris, Lexington, KY, p.A3682**
- P1283 Deposition of Aerosol Via High Flow Nasal Cannula Is Impacted by Gas Flow and Heated Humidity In Vivo and In Vitro/L. Alcoforado, A. Ari, J. De Melo Barcelar, S.C.S. Brandao, J.B. Fink, A. Dornelas De Andrade, Recife, Brazil, p.A3683**
- P1284 Can High-Flow Nasal Cannula Reduce Endotracheal Intubation in Adult Patients with Acute Respiratory Failure? A Meta-Analysis/Y. Ni, J. Luo, B. Liang, Z. Liang, Chengdu, China, p.A3684**
- P1285 Evaluation of Weaning Conditions of High Flow Nasal Oxygen Therapy/R. Tsugitomi, T. Jinta, R. Imai, K. Hiroaki, K. Ishii, T. Tanigawa, H. Nakaoka, K. Okafuji, A. Kitamura, Y. Tomishima, N. Nishimura, T. Tamura, Tokyo, Japan, p.A3685**
- Facilitators:** M.A. Matthay, MD, San Francisco, CA
E. Vail, MD, New York, NY
- P1286 Outcomes of Patients Requiring High Humidity High Flow Nasal Oxygen Cannula in a Tertiary Care Hospital/L. Alhalabi, A.H. Cho, C. King, S. Garofalo, O. Shlobin, J.P. Lamberti, S.D. Nathan, A.W. Brown, Falls Church, VA, p.A3686**
- P1287 Changes in Surface Ventilation Following Mechanical Insufflation:Exsufflation Therapy in Patients with Duchenne's Muscular Dystrophy/N. Shah, C. Greenfield, E. Lhuillier, M. Patout, G. Arbane, N. Hart, P. Murphy, London, United Kingdom, p.A3687**
- P1288 Impact of Sedation and/or Analgesia During Noninvasive Positive Pressure Ventilation in the Patients of Acute Exacerbation of Chronic Obstructive Pulmonary Disease After Extubation/Y. Ni, T. Wang, B. Liang, Z. Liang, Chengdu, China, p.A3688**
- P1289 Role of CPAP in the Management of Acute Respiratory Failure Due to Community Acquired Pneumonia in ARDS/N.T. Awad, Mumbai, India, p.A3689**
- P1290 Effectiveness of Non-Invasive Ventilation in Patients with Bronchiectasis/F. Ciftci, S. Erol, A. Ciledag, A. Kaya, Ankara, Turkey, p.A3690**
- P1291 Non Invasive Ventilation in the Weaning of Patients with Acute Guillain Barre Syndrome Requiring Invasive Ventilation/V.J. Craig, V. Ford, B. Chakrabarti, R. Parker, N. Duffy, K. Ward, H. Ashcroft, J. Doyle, J. Cheney, R.M. Angus, Liverpool, United Kingdom, p.A3691**
- P1292 Outcomes Associated with Non-Invasive Management of Pneumonia-Related Acute Hypoxemic Respiratory Failure/A.L. Sharpe, K.S. Mathews, S. Ranginwala, L. Richman, New York, NY, p.A3692**
- Facilitators:** R.C. Hyzy, MD, Ann Arbor, MI
S. Pannu, MD, MSc, Columbus, OH
- P1293 An Evaluation of Various Inspiratory Times and Inflation Pressures During Airway Pressure Release Ventilation: A Pilot Study/T.W. Gilmore, R.E. Walter, Shreveport, LA, p.A3693**
- P1294 Bi- Level Positive Airway Pressure: A Dual Edged Sword?/R. Bansal, A. Berson, A. Surana, C. Struby, M. Domond, R. Potdar, S. Ahmad, G. Wendell, Upland, PA, p.A3694**
- P1295 Fiberoptic Bronchoscopy for ARDS Patients in the Prone Position: Feasibility, Safety, and Diagnostic and Therapeutic Utility/O. Kalchiem-Dekel, Y.S. Sangwan, C.B. Shanholtz, A. Sachdeva, E.M. Pickering, Baltimore, MD, p.A3695**
- P1296 Evaluation of Inhaled and Exhaled Aerosolized Combivent and Acetylcysteine Delivered to Mechanically Ventilated Patients - Ex Vivo Study/C.-M. Lo, H.-L. Lin, G.-H. Wan, T.-P. Fang, Y.-H. Tsai, Chiayi, Taiwan, p.A3696**
- P1297 Urine Levels as Index of Lung Deposition and Systemic Bioavailability Associated with the Use of Different Inhalation Method with and Without Humidification in Mechanically Ventilated Asthmatic Patients/M.E.A. Abdelrahim, I.O. Farrag, M. Al Hallag, Giza, Egypt, p.A3697**
- P1298 Modeling of Pulmonary Delivery of Nebulized Fibrinolytics by Mechanical Ventilation: Effects of Humidifier and Oxygen on Yield and Specific Activity/G. Florova, S. Hengsawas Surasarang, M. Chamiso, R. Idell, R. Girard, P. Enkhbaatar, R.O. Williams, M.R. Wolfson, T.H. Shaffer, S. Idell, A. Komissarov, Tyler, TX, p.A3698**
- P1299 A Respiratory Bridge Adaptor (RBA) for Optimizing Inhaled Media Delivery/M.R. Wolfson, P. Enkhbaatar, S. Idell, T.H. Shaffer, Philadelphia, PA, p.A3699**
- P1300 Time Course of Neuro-Mechanical Efficiency During a 20-Seconds End-Expiratory Occlusion/Z.-H. Shi, X. He, X.-Y. Luo, G.-Q. Chen, M. Xu, Y.-L. Yang, X.-M. Sun, J.-X. Zhou, Beijing, China, p.A3700**
- Facilitators:** M.B. Amato, MD, PhD, Sao Paulo, Brazil
A. Trammell, MD, Atlanta, GA
- P1301 Oesophageal and Directly Measured Pleural Pressure: A Validation Study on Thiel Cadavers/D.L. Grieco, J.-C.M. Richard, S. Delisle, E. Charbonney, P. Ouellet, M. Rigollot, G. Bronchti, A. Drouet, D. Savary, T. Yoshida, B.P. Kavanagh, M.B.P. Amato, A. Mercat, L.J. Brochard, Rome, Italy, p.A3701**
- P1302 Diaphragm Echogenicity in Mechanically Ventilated Patients: Measurement Precision and Preliminary Findings/S. Riegler, M. Lee, S. Vorona, M. Dres, L. Viera, W.D. Reid, L.J. Brochard, N. Ferguson, E. Goligher, Toronto, Canada, p.A3702**
- P1303 Exploring the Relationship Between Mean Arterial Pressure and Airway pH in Mechanically Ventilated Adults/A. Montpetit, K. Wickliff, M.D. Davis, W. Anderson, J. Hunt, Richmond, VA, p.A3703**
- P1304 Comparison of Central Venous Pressure and Esophageal Pressure for Measurement of Work of Breathing, Effort and Lung Mechanics in Spontaneously Breathing Patients/P. Biselli, R.S. Nobrega, Sao Paulo, Brazil, p.A3704**



- P1305 Alveolar Pressure During Assisted Mechanical Ventilation: An In-Vitro Study on the Effects of Effort, Resistance and Compliance/T.** Mauri, M. Lazzeri, E. Carlesso, A. Zanella, T. Langer, G. Grasselli, G. Bellani, A. Pesenti, Milan, Italy, p.A3705
- P1306 Methylprednisolone Infusion Associated with Improved Compliance in Acute Respiratory Distress Syndrome (ARDS) Patients on Veno-Venous Extracorporeal Membrane Oxygenation (VV ECMO)/A.** Tabatabai, E. Stene, J. Menaker, J. Kufera, R. Rabinowitz, Z. Kon, D. Herr, T. Scalea, Baltimore, MD, p.A3706
- P1307 Duration of Extracorporeal Membrane Oxygenation Support Does Not Correlate with Survival/N.** Dobrilovic, M. Ilbawi, R. March, B. Mohamedali, L. Michalak, O. Lateef, R. Balk, M. Delibasic, R. Dimitrov, J. Raman, Chicago, IL, p.A3707
- P1308 Anticoagulation For Veno-Venous Extracorporeal Membrane Oxygenation: An Analysis of Thrombosis, Hemorrhage, and Survival/J.C.** Fain, N.S. Sharma, V.G. Valentine, S.C. Bellot, C.R. Baker, V. Rusanov, G. Belopolsky, C. Hoopes, K.M. Wille, Birmingham, AL, p.A3708

THEMATIC POSTER SESSION

B51 CRITICAL CARE: MANAGING AN ICU - WHO COMES IN AND PREVENTING COMPLICATIONS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area M, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: G.B. Allen, MD, Burlington, VT
S. Ahmed, MD, Albuquerque, NM

- P1310 Early Implementation of Protective Ventilation Strategy May Be Associated with Decreased Mortality of Influenza Pneumonia with Acute Respiratory Distress Syndrome/H.-C.** Liang, W.-C. Chao, M.-C. Chan, C.H. Tseng, C.-L. Wu, Taichung, Taiwan, p.A3709
- P1311 Medical Intensive Care Unit Bed Rationing for Internal Medicine Patients Admitted to the University District Hospital/J.** Rivera, A. Deya, A. Santiago, B. Ramos, E. Rodriguez, San Juan, PR, p.A3710
- P1312 Diagnostic Radiation in the ICCU: The Daily and Cumulative Exposures to Patients/J.** McEvoy, S. Bihari, A. Hooker, D.L. Dixon, Bedford Park, Australia, p.A3711
- P1313 Time from Admission to Potentially Preventable VTE Versus Non-Preventable VTE/M.** Ayad, S. Patil, S. Kaushal, B. Patel, Houston, TX, p.A3712
- P1314 Is There a Correlation Between Endotracheal Tube Size and the Incidence of Ventilator-Associated Pneumonia?/A.** Kubbara, W. Barnett, R. Nakity, W. Alamoudi, S. Almaziad, R. Altook, T. Altarazi, F. Safi, R. Assaly, Toledo, OH, p.A3713
- P1315 Reducing Ventilator Associated Pneumonia by 50% in Intensive Care: Impact of Implementing Bundle Care/S.** Jain, Y.P. Singh, A. Mitra, A. Jain, Delhi, India, p.A3714

- P1316 The Risk of Postoperative Pulmonary Complications in Patients with Respiratory Diseases Who Pre-Operatively Consulted with Pulmonologists/S.** Hirotsako, K. Nakamura, K. Akaike, H. Okabayashi, S. Sakata, S. Hamada, Y. Horio, Y. Migiyama, K. Saruwatari, Y. Tomita, C. Yoshida, S. Saeki, S. Okamoto, H. Ichiyasu, K. Fujii, H. Kohrog, Kumamoto, Japan, p.A3715
- P1317 Comparison Between Ventilator-Associated Events and Conventional Ventilator Associated Pneumonia Surveillance in Japan/M.** Sato, Y. Tanabe, M. Uchiyama, A. Sakagami, C. Tsubata, H. Cho, N. Aoki, H. Moro, H. Endoh, T. Kikuchi, A. Saitoh, Niigata, Japan, p.A3716
- P1318 Environmental Contamination and Its Correlation with Ventilator Associated Pneumonia/Hospital Acquired Pneumonia Occurrence in ICU: A Prospective Study/G.C.** Khilnani, S. Mittal, S. Sood, A. Kapil, V. Hadda, K. Madan, A. Mohan, R. Guleria, R.M. Pandey, New Delhi, India, p.A3717

Facilitators: B.T. Thompson, MD, Boston, MA
N.E. Brummel, MD, Nashville, TN

- P1319 Prevalence of Oral Care Application Difficulty in Mechanically Ventilated Adults/C.M.** Dale, L. Burry, O. Smith, L. Rose, Toronto, Canada, p.A3718
- P1320 Patient-Identified Oral Care Needs During Mechanical Ventilation/C.M.** Dale, A.M. Lara Gonzalez, K. Nguyen, S. Carbone, L. Rose, Toronto, Canada, p.A3719
- P1321 Outcomes of the Implementation of a Daily ICU Checklist During Rounds in a Resource Poor ICU Setting/O.A.** Davies, M. Baldisseri, Pittsburgh, PA, p.A3720
- P1322 Significant Number of Patients Suffer Major Adverse Events After Continuous-Flow Left Ventricular Assist Device Implantation: A Meta-Analysis/M.** Chizinga, Waterbury, CT, p.A3721
- P1323 Low Blood Pressure Is an Independent Predictor of Thrombocytopenia Induced by Intra Aortic Balloon Pumping Counter Pulsation in the Cardiac Care Unit/A.** Takano, H. Iwata, A. Kimura, S. Kuroda, S. Ohsawa, I. Okai, H. Tamura, K. Isoda, S. Okazaki, K. Inoue, Y. Fujiwara, K. Miyauchi, M. Sumiyoshi, A. Amano, H. Daida, Tokyo, Japan, p.A3722
- P1324 Characteristics, Outcomes, and Cost Patterns of High-Cost Patients in the Intensive Care Unit/K.** Kyremanteng, P. Reardon, P. Tanuseputro, K. Thavorn, R.A. Devlin, B. Vanderspank, C. Klinger, D. Kobewka, Ottawa, Canada, p.A3723
- P1325 A Comparison of Outcomes in a Medical Step Down Unit Using a Non-Physician Provider Model/S.** Amin, O. Koukoularis, J. Aliotta, Providence, RI, p.A3724
- P1326 Data Utilization by Medical Intensive Care Providers for Initial Assessment of Direct Admissions: A Multi-Institutional Survey Based Study/K.** Pennington, O. Gajic, J. O'Horo, Rochester, MN, p.A7621
- P1327 The Quality of Interprofessional Rounds Is Not Associated with Compliance with Evidence-Based Practices/A.** Amaral, R. Pinto, G. Pichutti, S. Rossato, A. Iqbal, E. Wilcox, E. Fan, Toronto, Canada, p.A7622



- P1328 Improving the Quality of Interprofessional Rounds Using Audit and Feedback and Mobile Electronic Progress Notes/A. Amaral, R. Pinto, P. Perez D'Empaire, G. Pichutti, S. Rossato, A. Iqbal, Toronto, Canada, p.A7623**

THEMATIC POSTER SESSION

B52 CRITICAL CARE: CARDIAC ARREST OUTCOMES

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area M, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: W.J. Ehlenbach, MD, MSc, Madison, WI
K.M. Berg, MD, Boston, MA

- P1330 Analysis of Potentially Avoidable Cardiac Arrest Under Rapid Response System/Y.Y. Choi, J.Y. Cho, D.S. Lee, H.J. Min, M.A. Yun, Y.J. Lee, Bundang-gu, Seongnam-si, Korea, Republic of, p.A3725**

- P1331 Deja Vu: Repeat Cardiac Arrests on Multiple Admissions/K. Eng, R. Sell, San Diego, CA, p.A3726**

- P1332 Racial Disparities in Code Sepsis Activation/B. Taylor, C. Karvetski, J. Curtiss, S. Taylor, Charlotte, NC, p.A3727**

- P1333 In-Hospital Cardiac Arrest Among Patients with Malignancy/S. Rosen, K. Eng, J. Yang, S. Tyagi, M.F. Odish, R. Sell, J.R. Beitler, San Diego, CA, p.A3728**

- P1334 Code Status in the Operating Room/E. Sonntag, S. Pedram, J. Levenson, Richmond, VA, p.A3729**

Facilitator: A. Montgomery-Yates, MD, Lexington, KY

- P1335 Improving Rapid Response and Cardiac Arrest Outcomes by Resident Simulation Training/N. Durairajan, C. Inman, S. Lee, Detroit, MI, p.A3730**

- P1336 Heterogeneity of MICU Early Death Causality to Guide Resuscitation and Staffing Strategies/A. Kalema, A. Kelly, A. Montgomery-Yates, P. Eaton, S. Dhar, E.P. Cassity, P.E. Morris, Lexington, KY, p.A3731**

- P1337 Classifying Non-Shockable Cardiac Arrest for Improved Prognostication/S. Tyagi, S. Rosen, K. Eng, J. Yang, M.F. Odish, J.R. Beitler, R. Sell, San Diego, CA, p.A3732**

- P1338 Delay in Initiation of Hypothermia and High Rate of Hyperthermia After Completion of Targeted Temperature Management in Patients with Cardiac Arrest in a Tertiary Hospital ICU/U. Tariq, T. Mahramus, C. Hunley, T. Jones, J. Sadowsky, R.A. Khan, Orlando, FL, p.A3733**

- P1339 Defibrillating Non-Shockable Rhythms During In-Hospital Arrest/J. Yang, S. Tyagi, S. Rosen, K. Eng, M.F. Odish, R. Sell, J.R. Beitler, San Diego, CA, p.A3734**

Facilitators: P.R. Menon, MD, PhD, Burlington, VT
A. Sapru, MD, Los Angeles, CA

- P1340 Acute Respiratory Distress Syndrome After Cardiac Arrest/E. Sacks, J. Elmer, C. Callaway, Pittsburgh, PA, p.A3735**

- P1341 Evaluation of Long Term Acute Care Hospital's Code Blue Outcomes and Immediate Post Code Survival/S. Farooqi, M. Nagel, A. Mora, Dallas, TX, p.A3736**

- P1342 Predictors of In-Hospital Mortality After Rapid Response Team Calls in a 274 Hospital Nationwide Sample/C. Shappell, A.M. Snyder, D. Edelson, M.M. Churpek, Chicago, IL, p.A3737**

- P1343 Predictors of Mortality in Adults with Cardiac Arrest Undergoing Coronary Angiogram/G. Thippeswamy, C. Loeb, P.B. Parikh, J. Patel, Stony Brook, NY, p.A3738**

- P1344 Survival After Cardiopulmonary Arrest in Patients with Septic Shock on High Dose Vasopressor Therapy/I. Khalid, R. Qutob, F.N. Yamani, T.J. Khalid, A. Salman, Jeddah, Saudi Arabia, p.A3739**

THEMATIC POSTER SESSION

B53 CRITICAL CARE: IMAGING IN THE ICU

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area M, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: G.A. Schmidt, MD, Iowa City, IA
A. Patrawalla, MD, Newark, NJ

- P1346 Utility of Lung Ultrasound for Identifying Patients with a More ARDS-Specific Prognosis/A.T. Asuni, S.R. Wachtel, J. Levitt, A. Rogers, Stanford, CA, p.A3740**

- P1347 Accuracy of Bedside Ultrasound by Internal Medicine Residents to Evaluate Central Venous Catheter Placement/C. Ghattas, M. Hundal, F. Farooq, F. Celestin, P. LaCamera, J.L. Breeze, S. Rafeq, Boston, MA, p.A3741**

- P1348 Impact of Point of Care Ultrasound in an Academic Medical Intensive Care Unit/A. Anderson, W. Isakow, St. Louis, MO, p.A3742**

- P1349 Optimizing Ultrasound Settings for B-Lines on Lung Ultrasound - an In-Vitro Pilot Study/C.N. Schmickl, A.A. Menon, F. Schembri, Boston, MA, p.A3743**

- P1350 Can Transthoracic Echocardiography Replace a Pulmonary Artery Catheter? Not Yet/P.P. Olivieri, S.H. Fatima, S.M. Galvagno, Jr, D.J. Haase, B. Taylor, D. Herr, D.A. Bruno, S.B. Murthi, Baltimore, MD, p.A3744**

- P1351 Intraosseous Needle Placement Confirmation by Doppler Ultrasonography/K. Singh, A. Palkar, Z. Hasan, Y. Greenstein, P. Mayo, New Hyde Park, NY, p.A3745**

- P1352 Bilateral Internal Jugular Vein Ultrasound Scanning Prior to CVC Placement (BIUS Study)/R.W. Story, M.E. Pugh, T.W. Rice, Nashville, TN, p.A3746**



- P1353** **Ultrasound-Guided Axillary Artery Catheter Placement for Hemodynamic Monitoring in Critically Ill Patients/N.N. Htet, J. Vaughn, S. Adigopula, F. Mihm, Stanford, CA, p.A3747**
- P1354** **Utility of Neuroimaging Studies and EEG in Diagnosis, Treatment and Prognosis of Patients with Anoxic Brain Injury (ABI)/A. Rasheed, K. Nangrani, V. Vasudevan, L. Gerolemou, M. Shahzadi, Z. Hashemi, H. Upadhyay, F. Arjomand, Brooklyn, NY, p.A3748**

THEMATIC POSTER SESSION

B54 CRITICAL CARE: GOLDOLOCKS SYNDROME - GETTING THE PRESSURE AND VENT "JUST RIGHT" IN ARDS AND ACUTE RESPIRATORY FAILURE

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area M, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: L.J. Brochard, MD, Toronto, Canada
T. Mauri, MD, Milan, Italy

- P1356** **Parametric Response Maps to Measure the Effects of Prone Position in Pigs with Experimental Lung Injury/Y. Xin, M. Cereda, H. Hamedani, S. Siddiqui, M. Pourfathi, M. Itkin-Ofer, S. Turner, N. Meeder, S. Kadlecsek, J. Clapp, L. Hughes, A. Roberts, Q. Bey, A. Rodriguez, N. Drachman, I. Duncan, H. Profka, N. Tustison, J. Gee, B.P. Kavanagh, R.R. Rizi, Philadelphia, PA, p.A3749**
- P1357** **Parametric Response Mapping Detects Distribution of Abnormal Lung Inflation in Pneumonia and Acid Aspiration/Y. Xin, M. Cereda, H. Hamedani, S. Siddiqui, M. Pourfathi, M. Itkin-Ofer, S. Turner, N. Meeder, S. Kadlecsek, J. Clapp, L. Hughes, A. Roberts, Q. Bey, A. Rodriguez, I. Duncan, N. Drachman, H. Profka, N. Tustison, J. Gee, B.P. Kavanagh, R.R. Rizi, Philadelphia, PA, p.A3750**
- P1358** **Redistribution of Regional Lung Perfusion During Mechanical Ventilation with an Open Lung Approach Impacts Pulmonary Vascular Mechanics/J.B. Borges, A. Santos, L. Lucchetta, G. Hedenstierna, A. Larsson, F. Suarez-Sipmann, Uppsala, Sweden, p.A3751**
- P1359** **Protective Effects of Positive End-Expiratory Pressure in Short-Term Positive-Pressure Ventilation in a Mouse Model of Ventilator-Induced Acute Lung Injury/L. Cagle, L. Franzi, A. Linderholm, J. Last, N. Kenyon, Davis, CA, p.A3752**
- P1360** **PEEP Targeted at Positive Regional Transpulmonary Pressure Reduces Lung Inflammation in an Experimental Model of Severe ARDS in Pigs/M. Herzog, T. Bluth, T. Kiss, A. Braune, R. Huhle, J. Herold, P. Herzog, A. Denz, L. Vivona, J. Kotzerke, M. Gama De Abreu, Dresden, Germany, p.A3753**
- P1361** **Stepwise Tidal Volume Increase Versus Maximal Lung Recruitment During General Anesthesia in Pigs: A Comparison of the PROVHILO and iPROVE Recruitment Maneuvers/R. Huhle, J. Herold, T. Bluth, M. Herzog, T. Kiss, L. Vivona, G. Servillo, M. Gama De Abreu, Dresden, Germany, p.A3754**
- P1362** **Positive End-Expiratory Pressure (PEEP) Titration Using Electrical Impedance Tomography (EIT) in Laparoscopic Surgery: Before or During Pneumoperitoneum?/S.M. Pereira, M.R. Tucci, B.F.F. Tonelotto, C.M. Simoes, C.C.A. Moraes, M.S. Pompeo, F.U. Kay, C.R.R. Carvalho, J.E. Vieira, M.B.P. Amato, Sao Paulo, Brazil, p.A3755**
- P1363** **The P/FP Ratio (PaO₂/Fio₂ X PEEP) X 10: A Pilot Approach to Calculate the Severity of Oxygenation/ARDS with PEEP/P. Sunitha, Singapore, Singapore, p.A3756**
- P1364** **Electrical Impedance Tomography at Clinical Practice: Case Series/K.T. Timenetsky, D. Carnieli-Cazati, C.S.A. Azevedo, M. Beraldo, R.A.C. Eid, Sao Paulo, Brazil, p.A3757**
- Facilitators:** E.C. Goligher, MD, PhD, Toronto, Canada
R.D. Hite, MD, Cleveland, OH
- P1365** **Early Prone Position at the Emergency Room in Acute Respiratory Distress Syndrome: A Pilot Study/L. Vieira, L. Figueiredo, J.D.T. Castro, T. Gontijo, M.A. Silva, A. Princhak, M. Guedes, D. Barros, M. Borges, Brasilia, Brazil, p.A3758**
- P1366** **Effects of Prone Position on Regional Respiratory Mechanics Before and After a Recruitment Maneuver/G. Grasselli, T. Mauri, M. Lazzeri, E. Carlesso, A. Zanella, T. Langer, N. Eronia, E. Maffezzini, A. Bronco, C. Abbruzzese, N. Rossi, G. Foti, G. Bellani, A. Pesenti, Milan, Italy, p.A3759**
- P1367** **Clinical and Hospital-Level Variables Associated with Initial Non-Adherence to Low Tidal Volume Ventilation at a Tertiary Care Center/B. Short, M.R. Baldwin, J. Licci, W.C. Gonzalez, J. Li, D. Brodie, N. Yip, New York, NY, p.A3760**
- P1368** **Factors Associated with Use of Low Tidal Volume Ventilation Strategy in Patients with Acute Respiratory Distress Syndrome/G.S. Schneider, M. Lauzon, G. Loo, S. Ranginwala, K.S. Mathews, New York, NY, p.A3761**
- P1369** **Driving Pressure Is the Most Predictive Respiratory Mechanic Parameter in ARDS (2016 Influenza A H1N1, Mexico City)/J.L. Sandoval Gutierrez, R. Garcia Torrentera, C. Guadarrama Perez, C. Castro Lopez, Mexico City, Mexico, p.A3762**
- P1370** **Driving Pressure Greater than 14cmH₂O Is Associated with Increased Mortality When Tidal Volume Less Than 8 ml/kg in Septic Patients with Acute Respiratory Distress Syndrome/M.-C. Chan, C.-L. Wu, Taichung, Taiwan, p.A3763**
- P1371** **A Dynamic Protocol Based, Multi Disciplinary Ventilator Management Strategy: A Pilot Study/A. Fadda, S. Uppalapu, N. Nikhanj, S. Ross, J. Vanloo, J. Brewer, R. Saggarr, Phoenix, AZ, p.A3764**
- P1372** **Development of a Practical Monitor of Patient-Ventilator Asynchrony/A.M. Casey, T. Copeland, S. Nizambad, C.E. Roberts, A. Thorpe, J. Zara, G. Gutierrez, Washington, DC, p.A3765**
- P1373** **Closed-Loop Adjustment of Oxygen Flowrate with FreeO₂ in Patients with Acute Coronary Syndrome: Comparison of Automated Titration with FreeO₂ (Set at Two SpO₂ Target) and of Manual Titration. A Randomized Controlled Study/M.T. Huynh Ky, P.-A. Bouchard, J. Morin, E. L'Her, J.-F. Sarrazin, F. Lellouche, Quebec, Canada, p.A3766**



THEMATIC POSTER SESSION

B55 CRITICAL CARE CASE REPORTS: DRUG OVERDOSES

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area M, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: J. Siner, MD, New Haven, CT
S. Pasha, MD, Lexington, KY

- P1375 Cocaine Induced Bronchospasm Mimicking Acute Asthma Exacerbation/V. Pathak, M. Ricker, Raleigh, NC, p.A3767**
- P1376 Beware of Acute Right Heart Failure/N. Tipirneni, M. Vora, A. Weinacker, Palo Alto, CA, p.A3768**
- P1377 Bupropion Overdose; A Recipe for Cardiotoxicity and Seizures/K.M. Patel, O. Chaudhary, A. Desai, Syracuse, NY, p.A3769**
- P1378 MDMA and Life-Threatening Multiorgan Failure/L. Alsharhan, M. Campos, Miami, FL, p.A3770**
- P1379 An Antiparasitic in MY Cocaine? A Rare Cause of Vasculitis and Acute Renal Failure/N.A. Smith, M. Sehring, J. Chambers, B. Aulakh, Peoria, IL, p.A3771**
- P1380 Epidemic of Heroin: Purulent Pericardial Effusion and Septic Emboli in an Intravenous Drug User with Right Sided Endocarditis/A. Shah, C. Basman, Y. Patel, A. Shalunov, Z. Lasic, A. Mangla, Jamaica, NY, p.A3772**
- P1381 Out of Hospital Cardiac Arrest Triggered by LSD in a Patient with Suspected Brugada Syndrome/C. Nepal, S. Patel, N. Ahmad, B. Mirrer, R. Cohen, New York, NY, p.A3773**

THEMATIC POSTER SESSION

B56 CRITICAL CARE CASE REPORTS: ICU TOXICOLOGY

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area M, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: R. Matthay, MD, New Haven, CT
M.E. Wilson, MD, Rochester, MN

- P1383 Medications Matter: A Case of Metformin-Associated Lactic Acidosis/B. Wolk, K. Cao, Tampa, FL, p.A3774**
- P1384 Cardiac Arrest Due to Severe Metformin-Associated Lactic Acidosis/G.F. Shaughnessy, D.R. Nelson, Rochester, MN, p.A3775**

- P1385 Metformin Associated Lactic Acidosis/T. Umeda, T. Minami, E. Summerhill, K. Bartolomei, Minneapolis, MN, p.A3776**
- P1386 Unintended Consequences of Lipid Emulsion Therapy in Severe Bupropion Overdose/J. Miller, K. Chapla, Madison, WI, p.A3777**
- P1387 Rapid Development of Propofol Infusion Syndrome in an Alcoholic Patient/P.S. Minhas, U. Sarwar, J.K. Virdi, R.R. Patel, Abington, PA, p.A3778**
- P1388 A Case of Propofol Infusion Syndrome in the Intensive Care Setting/N. Miller, A. Garbarino, J. Jennings, Detroit, MI, p.A3779**
- P1389 OTC Psychosis: A Case of Tianeptine Withdrawal/O. Ishikawa, R. Barry, I. Wagner, New York, NY, p.A3780**
- P1390 Canagliflozin Use Leading to Hypovolemic Shock/S. Sharma, S. Patel, B. Mina, New York, NY, p.A3781**
- P1391 Fluoroquinolone Toxicity Mimicking Septic Shock in an Elderly Male/J.L. Barlow, G.J. Mitchon, Seattle, WA, p.A3782**
- P1392 Linezolid Induced Thrombocytopenia, Lactic Acidosis, Hypoglycemia and Warfarin Toxicity/R. Mishra, B. Goel, T. Vakde, Bronx, NY, p.A3783**
- P1393 Blurred Lines: A Precarious Case of Thrombocytopenia/P.M. Castelino, S. Ennala, N. Patel, E. Ramasara, Harrisburg, PA, p.A3784**

Facilitators: C. Cross, MD, Oklahoma City, OK
D. Saha, MD, Pittsburgh, PA

- P1394 Dexmedetomidine Resulting in Anaphylactic Shock; a Seldom Reported Complication/J.M. Chowdhury, K. Reddy, A.A. Hameed, S. Manns, D.J. Valentino, Darby, PA, p.A3785**
- P1395 Dexmedetomidine-Induced Drug Fever/K. Sakata, L. Baddour, Rochester, MN, p.A3786**
- P1396 Extreme Agitation in the ICU, Obscure Causes/I.M. Ibrahim, M.R. Badawy, E.A. Saleh, Y. Alsayed, M.M. Abdallah, Jeddah, Saudi Arabia, p.A3787**
- P1397 Palliation in Patients with Chronic Opioid and Benzodiazepine Use: Challenges in the Process of Withdrawal of Life Support/I. Kourouni, S. Levy, G. Narayanswami, J. Shapiro, New York, NY, p.A3788**
- P1398 Hypoxemia Caused by Clevidipine Complicating Cardiac Surgery/I. Kourouni, S. Levy, J. Chikwe, K. Omidvari, New York, NY, p.A3789**
- P1399 Neuroleptic Malignant Syndrome: A Cold Case/A.J. Losier, S. Gautam, D. Srinivasan, C.J. Britto-Leon, New Haven, CT, p.A3790**
- P1400 Neuroleptic Malignant Syndrome Overlapping with Catatonia in a Pregnant Patient with Bipolar Disorder/R.C. Cerrud-Rodriguez, R. Loganathan, L. Troneci, Bronx, NY, p.A3791**
- P1401 tPA Administration with ACE-Inhibitor Use Leading to Orolingual Edema: A Commonly Forgotten Association/A. Sharma, E. Nadler, J. Goralnik, Farmington, CT, p.A3792**
- P1402 Cyclical Fevers, Not an Infection; Herbal Tea Induced Liver Injury/N. Ishak Gabra, A. Matloob, V. Tolia, R.E. Jean, New York, NY, p.A3793**



- P1403 Management of Life Threatening Post-Partum Hemorrhage with HBOC-201 (Hemopure®) in a Jehovah's Witness/** A.K. Mytinger, E. Sheehan, N. Blue, K. Crookston, A.I. Saeed, Albuquerque, NM, p.A3794
- P1404 An Unusual Cause of Cardiac Arrest in a Paraplegic Patient/R.** Strykowski, K. Gillmeyer, E.S. Klings, Boston, MA, p.A3795
- Facilitators:** T. Watkins, MD, Seattle, WA
K. Smith, MD, Lexington, KY
- P1405 Hypokalemic Paralysis Secondary to Tenofovir Induced Fanconi Syndrome/M.M. Howsare, F. Harden, K. El-Kersh,** Louisville, KY, p.A3796
- P1406 Theophylline: An Alternative for Critically-Ill Patients with Bradycardia and Asystole Triggered by Vasovagal Maneuvers/O.L. Llanos, M.I. Pino, H. Paydak, N. Meena, Little Rock, AR, p.A3797**
- P1407 A Case of a Critically Ill, Acetaminophen/Diphenhydramine Overdose Requiring Prolonged N-Acetylcysteine Infusion Due to a Delayed Rise in Liver Injury Markers/T. Hongo, R. Sunderkrishnan, B. Awsare, Philadelphia, PA, p.A3798**
- P1408 Silent Danger: Lithium Toxicity and Associated Neurologic Sequelae/M.J. Hellmann, N. Gupta, Cincinnati, OH, p.A3799**
- P1409 Cardiogenic Shock Causing Death After Initiation of Clozapine During a Gastroenteritis Outbreak/T. Nguyen, P. Fritz, C. Marboe, A.M. Szema, South Setauket, NY, p.A3800**
- P1410 Therapeutic Drug Monitoring in a Critically Ill Patient with Augmented Renal Clearance/G. Lowther, J. Cope, K. Klinker, A. Shychuk, H.A.M. Fakih, S. Hadigal, A. Ataya, H. Alnuaimat, Gainesville, FL, p.A3801**
- P1411 Angioedema Following tPA Administration: What Intensivists Should Know/E.R. Rashed, D. Convissar, K. Guevarra, Newark, NJ, p.A3802**
- P1412 Massive Heparin-Induced Thrombocytopenia-Related Thrombosis Despite Two Negative Platelet Factor 4 Immunoassays/K. Isaac, T. Plush, L. Greenspon, C. Kuntz, Wynnewood, PA, p.A3803**
- P1413 Is Rigidity Required for Diagnosis of Neuroleptic Malignant Syndrome?/N. Mesiha, N. Jafar, H. Sadrzadeh, S. Yelamanchili, M. Gugnani, D. Goldsmith, Trenton, NJ, p.A3804**
- P1414 A Tale of Two Rare Conditions: Calciphylaxis and Sodium Thiosulfate Toxicity/A.E. Foderaro, D. Banerjee, Providence, RI, p.A3805**
- P1415 Plamapheresis in HIT: The Savior!/S. Nepal, R. Mantilla, S. Umar, Roanoke, VA, p.A3806**
- Facilitators:** G. Netzer, MD, Baltimore, MD
A. Dheyab, MBChB, Worcester, MA
- P1416 Vanishing Clot, an Atypical Case of Heparin-Induced Thrombocytopenia/E. Sadic, K. Cao, Tampa, FL, p.A3807**
- P1417 Shock, Dyspareunia, Cardiac Arrest After Essure® Implantation Due to Titanium Gel-Coombs Type IV Reaction/M.A.K. Tupper, G. Smith, A.M. Szema, South Setauket, NY, p.A3808**

- P1418 Dark Urine After the Barium Enema Study. What Was the Culprit?/D. Salhan, T.W. Naing, P. Verma, E.U. Rehman, A. Lixon, S. Kandel, J. Quist, D. Enriquez, M.F. Schmidt, Brooklyn, NY, p.A3809**
- P1419 A Case of Serpentine Envenomation and Ischemic Bowel/C.** Cardenas, M. Weinrich, J. Hutto, C. Chen, Dallas, TX, p.A3810
- P1420 Severe Adult Respiratory Distress Syndrome with Multiorgan Failure Following Desomorphine (Krokodil) Use/J. Petty, G. Pierson, C. Shapiro, Pueblo, CO, p.A3811**
- P1421 A Baltic Scourge Comes to Brooklyn: Haff's Disease as a Cause of Rhabdomyolysis in the ICU/F. Rafatnia, M. Dhand, R. Rajmane, Brooklyn, NY, p.A3812**
- P1422 Fresh Frozen Plasma (FFP) in Angiotensin Converting Enzyme (ACE) Inhibitor Induced Angioedema/C. Jacob, T. Sheppard, Rochester, NY, p.A3813**
- P1423 A Rare Case of Methemoglobinemia Associated with Brugada Pattern on EKG/H.A. Cheema, J.A. Lodenkemper, S. Katepalli, K. Vipul, York, PA, p.A3814**
- P1424 The Red Inmate/S. Gezahegne, R. Hart, R. Awdish, Detroit, MI, p.A3815**
- P1425 Zany with Ziconotide/S. Patel, S. Sharma, B. Husta, New York, NY, p.A3816**
- P1426 A Rare Case of Acute Coronary Syndrome Induced by Oral Capecitabine/D. Sedhom, R. Sedhom, W. Khan, New Brunswick, NJ, p.A3817**

THEMATIC POSTER SESSION

B57 CRITICAL CARE CASE REPORTS: ACID-BASE, ELECTROLYTE, AND ENDOCRINE ABNORMALITIES**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area M, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitators:** A. Bhardwaj, MD, Philadelphia, PA
C. Polito, MD, MSc, Atlanta, GA

- P1428 Thyroid Storm Is Not the Only Emergency in Graves Disease/M. Yasin, N. Khan, K.D. Khan, A. Abraham, Louisville, KY, p.A3818**
- P1429 A Deadly Storm: Catastrophic Thyroid Storm with DIC and Cardiomyopathy/K. Ahmad, U. Nazir, M. Rachid, T. Yasmeen, Oak Lawn, IL, p.A3819**
- P1430 Can We Block the Storm?/B. Enkhtaivan, R. Mathew, A.-E.S. Sagar, Houston, TX, p.A3820**
- P1431 A Case of Thyroid Storm After Starting Herbal Dietary Supplements/T. Murphy, C.P. Bulathsinghala, S. Zanolis, S. Surani, Corpus Christi, TX, p.A3821**



- P1432 Positive Isopropanol Does Not Mean She Took It - a Case of Severe Alcoholic Ketoacidosis with Elevated Isopropanol/A.** Minami, I. Shah, R. Qureshi, T. Minami, Pawtucket, MA, p.A3822
- P1433 Diabetic Ketoacidosis-Induced Severe Hypertriglyceridemia with Acute Pancreatitis in a 20-Year-Old Man: Review of Therapeutic Options/P.** Saikali, A. Coccaro, A. Khosla, J. Sarmiento, R. Scatena, N. Rennert, Norwalk, CT, p.A3823
- P1434 Gaps in Osmolal Gap: A Case of Mistaken Osmolal Gap in a Patient with Diabetic Ketoacidosis/W.** Al-Darzi, S. Chaaban, S. Tirgari, J. Uduaman, Detroit, MI, p.A3824
- P1435 "Euglycemic" Diabetic Ketoacidosis in the Perioperative Period: Why Gliflozins May Not Be so Sweet After All/S.** Lane, S. Mohammed, D. Paskar, A. Goffi, Toronto, Canada, p.A3825
- P1436 Rapid Resolution of Severe Acidosis Secondary to Diabetic Ketoacidosis: A Case Report/C.** Mock, C.P. Bulathsinghala, S. Surani, Corpus Christi, TX, p.A3826
- P1437 A Case of Intractable Hyperchloremic Non-Anion Gap Metabolic Acidosis in a Patient with Diabetic Ketoacidosis/G.S.** Thind, Y. Agrawal, R. Roach, Kalamazoo, MI, p.A3827
- P1438 It's Too Sweet to Be Good !!!!/P.** Chandar, I. Malhotra, M. Amith Shenoy, S. Kulandaisamy, Y. Kupfer, P. Irukulla, W. Pascal, Brooklyn, NY, p.A3828
- P1439 All that is white is not Milk!!!/P.** Chandar, H. Desoky, S. Shankar, S. Kulandaisamy, Y. Kupfer, C. Seneviratne, T. Yoon, Brooklyn, NY, p.A3829
- P1440 Battle Between Insulin and Glucose/A.** Arjuna, P. Patel, K.D. Scatliffe, Newark, NJ, p.A3830
- Facilitators:** G. Frendl, MD, PhD, Boston, MA
A.B. Mehta, MD, Denver, CO
- P1441 Use of Immune Checkpoint Inhibitors Induces an Immune Mediated Hypophysitis/S.** Mansoor, R. Hall, A. Mihalek, Charlottesville, VA, p.A3831
- P1442 Spontaneous Ovarian Hyperstimulation Syndrome, a Rare Association with Profound Hypothyroidism/D.** Green, B.J. Arthurs, B. Jones, Portland, OR, p.A3832
- P1443 A Rare Case of Calciophylaxis in a 48 Year Old Female with Normal Kidney Function/E.** Leung, S. Singh, S.I. Hawatmeh, A. Uprety, K. Gandhi, T. Tanoli, T. Pohlman, St. Louis, MO, p.A3833
- P1444 Emergent Hemodialysis for Severe Hyperammonemia of Uncertain Etiology/B.** Bixby, S. Chaudhary, Y. Raz, Tucson, AZ, p.A3834
- P1445 Safe, Efficacious and Aggressive Treatment of Life-Threatening Hypophosphatemia During Recovery from Acute Fulminant Hepatic Failure/B.D.** Bissell, A.H. Flannery, J.E. Davis, D.A. Adkins, M.L. Thompson Bastin, Lexington, KY, p.A3835
- P1446 Hypokalemia Induced Paralysis in the ICU/E.** Chakfeh, A.H. Bonetti, A. Chakfeh, M.J. Kioka, Las Vegas, NV, p.A3836
- P1447 Fatal, Refractory Cardiogenic Shock Secondary to Undiagnosed Hypokalemic Periodic Paralysis/A.** Nayfeh, V. Mehta, O. Diab, N. Addasi, M. Mays, K. Bhatia, L. Morrow, Omaha, NE, p.A3837

- P1448 The Importance of Serum Electrolytes: A Case of Hypokalemic Periodic Paralysis/S.** Verga, R. George, R. Sedhom, W. Khan, New Brunswick, NJ, p.A3838
- P1449 A Bizarre Case of SIADH: Anti-NMDA Receptor Encephalitis/Y.C.** Yeh, K. Dinh, S. Cherian, Houston, TX, p.A3839
- P1450 Critical Iatrogenic Hyponatremia from Infusions in ICU: Case Series/M.** Yaseen, S. Farooq, E. Pender, A. Gohar, Cincinnati, OH, p.A3840
- P1451 Life-Threatening Acute Metabolic Alkalosis Treated with Hydrochloric Acid/M.** Ray, S.I. Amjad, Spokane, WA, p.A3841
- P1452 ACTH-ing a Fool: A Case of Cushing's Induced Psychosis Treated with an Etomidate Infusion/S.** Ghosh, J. Mock, E. Harris, Chapel Hill, NC, p.A3842

THEMATIC POSTER SESSION

B58 OCCUPATIONAL LUNG DISEASE: CASE STUDIES, EPIDEMIOLOGY, AND MECHANISMS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area A, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: P.K. Henneberger, MPH, ScD, Morgantown, WV

- P1 Reactive Airway Dysfunction Syndrome (RADS) in a Surgeon After Exposure to Duraseal Fume in the Operating Room/A.** Riehani, T. Raza, D. Young, East Lansing, MI, p.A3843
- P2 Fatal Chlorine Gas Exposure at a Metal Recycling Facility/R.** Harvey, R. Boylstein, J. McCullough, M.A. Duncan, A. Shumate, K. Yeoman, R. Bailey, K.J. Cummings, Morgantown, WV, p.A3844
- P3 Longitudinal Evaluation of Respiratory Health and Exposure Indices Among Workers at an Indium-Tin Oxide (ITO) Production Facility, 2012-2014/R.** Harvey, M.A. Virji, B. Hawley, B.C. Trapnell, B. Carey, T. Healey, K.J. Cummings, Morgantown, WV, p.A3845
- P4 Misclassification of Occupational Lung Disease in a U.S. Organ Transplant Registry/D.J.** Blackley, C.N. Halldin, R.A. Cohen, K.J. Cummings, E. Storey, A.S. Laney, Morgantown, WV, p.A3846
- P5 Occupational Exposure and the Risk of Chronic Obstructive Lung Disease and Mortality - A Swiss Large-Scale Cohort Study/M.A.** Puhon, A. Strassmann, M. Bopp, A.J. Turk, H. Dressel, Zurich, Switzerland, p.A3847
- P6 Aluminum Pneumoconiosis in Welders: An Unusual Exposure Rather than an Uncommon Disease?/A.** Mayer, C. Rose, J.L. Abraham, Denver, CO, p.A3848
- P7 A Rare Occupational Lung Disease: Welder's Lung/N.** Pletukhina, K. Daley, V. Keenan, S. Chawla, M. Wilkenfeld, Mineola, NY, p.A3849



P8 Black Lungs and Big Nodes: The Effects of Anthracosis on the Airway/S.R. Devarajan, P. Alapat, Houston, TX, p.A3850

P9 "Money Is the Root of All Evil" - A Case of Constrictive Bronchiolitis Secondary to Money Exposure/C. Caesar Williams, B. Fouty, K. Fagan, Mobile, AL, p.A3851

Facilitator: J. Hoppin, ScD, Raleigh, NC

P10 Compensated Work-Related Asthma (WRA) and the Ontario Asthma Surveillance Information System (OASIS): Optimizing WRA Surveillance/M.D. Loughheed, Y. DeWit, G.M. Liss, T. To, S.M. Tarlo, Kingston, Canada, p.A3852

P11 Bronchial Anthracofibrosis in an East Indian Immigrant Living in Northwest Ohio/A. Flora, H. Alim, A. Stein, V. Andandan, J. Willey, Toledo, OH, p.A3853

P12 Effects of Engineered Silver Nanoparticle Size in Pulmonary Inflammation, Cytokine/Chemokine Release and Macrophage Phenotype Expression Over Time/J.J. Zhang, T.N. Kadir, R.M. Silva, A.K. Pham, T.C. Mar, S. Kelty, O. Kar Kurt, Z.Z. Zhang, L.S. Van Winkle, K.E. Pinkerton, Chengdu, China, p.A3854

P13 Sarcoidosis in Iron-Steel Industry: Mini Series of Cases/B. Uzmezoglu, C. Simsek, Ankara, Turkey, p.A3855

P14 Burden of Respiratory Abnormalities in Popcorn and Flavoring Manufacturing Workers Identified through the National Institute for Occupational Safety and Health's Health Hazard Evaluation Program/E.D. Fechter-Leggett, S.K. White, K.B. Fedan, J.M. Cox-Ganser, K.J. Cummings, Morgantown, WV, p.A3856

P15 Respiratory Symptoms in Hospital Cleaning Staff Exposed to a Product Containing Hydrogen Peroxide, Peracetic Acid, and Acetic Acid/B. Hawley, M. Casey, M.A. Virji, K.J. Cummings, J.M. Cox-Ganser, Morgantown, WV, p.A3857

P16 Lung Cancer and Arsenic Exposure in the Agricultural Workplace: Results of the Agrican Cohort/M. Boulanger, S. Tual, C. Lemarchand, A.-V. Guizard, M. Velten, E. Marcotullio, I. Baldi, B. Clin, P. Lebailly, Caen, France, p.A3858

P17 Diacetyl-Induced IL-8 Production Is Mediated by EGFR and ERK 1/2 Activation in Pulmonary Epithelial Cells/F.L. Kelly, K.E. Weinberg, A.E. Nagler, D.M. Brass, S.M. Palmer, Durham, NC, p.A3859

P18 DA Vapor Exposure to Pulmonary Epithelium Results in an EGFR Specific Response/F.L. Kelly, K.E. Weinberg, A.E. Nagler, D.M. Brass, S.M. Palmer, Durham, NC, p.A3860

Facilitator: M.L. McCaskill, MPH, PhD, New Orleans, LA

P19 Potential Respiratory Effects from 3-D Printing/F. Chan, N. Rajaram, R. House, I. Kudla, J. Lipszyc, S.M. Tarlo, Toronto, Canada, p.A3861

P20 A Study of UK Firefighter Applicants Referred for Assessment of Declared Asthma: Physiological Characteristics and Outcome/J.B. Szram, S.J. Schofield, B. Fitzgerald, P. Cullinan, London, United Kingdom, p.A3862

P21 Mesothelioma with No Evidence of Commercial Amphibole Asbestos Exposure — 35 Cases with Chrysotile, Non-Commercial Amphibole or Asbestiform Talc by Lung Fiber Burden Analysis/S. Sanyal, J.L. Abraham, J.A. Crawford, B. Burnett, Syracuse, NY, p.A3863

P22 Effects of Di-Butyl Phthalate (DBP) and Inflammatory Stimuli Co-Exposure on Human Peripheral Whole Blood and Airway Epithelial Cells/D. Maestre-Battle, E. Gunawan, A.K. Bolling, O.M. Pena, C. Carlsten, Vancouver, Canada, p.A3864

P23 Workers Exposed to Styrene Who Died from Respiratory Diseases Suspicious for Possible Obliterative Bronchiolitis/R.J. Nett, N.T. Edwards, A.M. Ruder, I.M. Keumala, J.M. Cox-Ganser, K.J. Cummings, Morgantown, WV, p.A3865

P24 The Bronchopulmonary System Damages in the Clean-Up Workers of the Chornobyl NPP Accident (1988-2016)/V.A. Sushko, Kyiv, Ukraine, p.A3866

P25 Sensitization to Occupational Allergen Is More Associated to Asthma, Rhinitis and Skin Symptoms than Sensitization to Common Allergens/E.O. Vianna, C.S. Simoneti, E. Ferraz, L.K. Arruda, E. Bagatin, J.B. Martinez, M.C. Borges, Ribeirao Preto, Brazil, p.A3867

P26 NIOSH Health Hazard Evaluation Program as a Sentinel Surveillance System for Novel Occupational Lung Diseases/S.E. Tomasi, E.D. Fechter-Leggett, K.J. Cummings, R. Bailey, R.J. Nett, Atlanta, GA, p.A3868

Facilitator: D.J. Blackley, DrPH, Morgantown, WV

P27 Prediction of Post-Broncho Dilator Airflow Limitation in Two Large Prospective Occupational Cohorts/V. Soyseth, P.K. Henneberger, B. Bakke, G. Einvik, J.S. Kongerud, Lorenskog, Norway, p.A3869

P28 Persistently False PET Positive Lymphadenopathy secondary to Coal Workers Pneumoconiosis in High Risk Oral Squamous Cell Cancer Patient/A. Mittal, R. Sangani, D. Green, C. Hodder, Morgantown, WV, p.A3870

P29 Greater Odds for Cardiovascular Diseases in Uranium Miners than Non-uranium Miners in New Mexico/V.J.M. Al Rashida, T. Wilson-Boyce, O. Myers, E. Kocher, K. Evans, L. Cook, A. Sood, Albuquerque, NM, p.A3871

P30 Incidence Rate of Anti-Neutrophil Cytoplasmic Antibody (ANCA)-Related Vasculitis in Pneumoconiosis and Asbestosis Patients in Japan - a Retrospective Study of 34 Rosai Hospital Group Admission Records/Y. Ohtsuka, I. Usami, K. Mizuhashi, T. Kishimoto, K. Sakamoto, K. Miyamoto, K. Kimura, N. Fujimoto, M. Kato, T. Yokoyama, C. Oota, Iwamizawa, Japan, p.A3872

P31 EGFR Ligands Increase MEK-Dependent Hyaluronan Synthesis in Naïve Rat Lung Fibroblasts/A.E. Nagler, F.L. Kelly, K.E. Weinberg, S.M. Palmer, D.M. Brass, Durham, NC, p.A3873

P32 Laboratory Animal Allergy in the Contemporary World/J. Feary, S. Schofield, B. Fitzgerald, J. Canizales, M. Jones, P. Cullinan, London, United Kingdom, p.A3874

P33 Laboratory Animal Workers' Exposure to Mouse Allergen in Animal Research Facilities/J. Feary, J. Canizales, S. Schofield, S. Semple, M. Jones, P. Cullinan, London, United Kingdom, p.A3875

P34 Eosinophilic Inflammation and Abnormal Serum IgE Concentrations in Deployers Returning from Iraq and Afghanistan/S.D. Krefft, E.B. Gottschall, J.J. Smith, C. Rose, Denver, CO, p.A7624



THEMATIC POSTER SESSION

B59 CHEMICAL EXPOSURES9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER****Area A, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** L.A. Veress, MD, Aurora, CO

- P36** **Bronchiolitis Obliterans in a Civilian Survivor of a Chemical Warfare Attack/S.** Shimizu-Saito, P. Diaz, Columbus, OH, p.A3876
- P37** **Respiratory-Related Hospitalizations Before and After the Graniteville Chlorine Disaster/E.R.** Svendsen, D. Karzic-Medjunjanin, J. Vena, L. Annang-Ingram, S. Wilson, B. Cai, W. Karmaus, A. Lawson, L. Mohr, A. Brock-Martin, A. Fulcher, L. Wright-Sanders, Charleston, SC, p.A3877
- P38** **SPIROLA-Assisted Longitudinal Analysis of Spirometry in Gulf War I Service Members Exposed to Depleted Uranium; 1999-2015/B.A.** Weiler-Lisowski, A. Barnes, M. Oliver, P. Gucer, M. McDiarmid, S.E. Hines, Baltimore, MD, p.A3878
- P39** **RuX Largely Restores Lungs in Iraq PM-Exposed Mice, Up-Regulating Regulatory T-Cells (Tregs)/A.M.** Szema, D. Lin, J.C. Li, R. Razi, N. Qamar, L. Levine, T. Zimmerman, S.A. Hamidi, M. Schmidt, M.G. Golightly, T. Rueb, A. Harrington, M. Garnett, E.J. Miller, F. Antonawich, Manhasset, NY, p.A3879
- P40** **Respiratory Symptoms and Lung Function Among Residents Exposed to Forest Fire in Riau, Sumatra, Indonesia 2015/J.Z.** Rozali, A.D. Susanto, E. Samoedro, F.F. Taufik, Jakarta, Indonesia, p.A3880
- P41** **Establishment of a Web-Based Inquiry System for Elemental Analysis of Lung Tissue of Occupational Lung Diseases/H.** Moriyama, M. Kobayashi, A. Aoki, K. Asakawa, T. Sakagami, T. Koya, T. Ohdaira, T. Takada, T. Kikuchi, Niigata, Japan, p.A3881

Facilitator: T.A. Wyatt, PhD, Omaha, NE

- P42** **Lung Epithelial Injury and Aberrant Repair After Sulfur Mustard Inhalation in Rats/M.D.** McGraw, J.S. Rouix, R. Garlick, L. Murphy, R.C. Rancourt, C.W. White, L.A. Veress, Aurora, CO, p.A3882
- P43** **Sub-Chronic Mouse Model of Chemical-Induced Asthma/J.** Vanorbeek, L. Pollaris, S. Van Den Broucke, S. Seys, B. Nemery, P. Hoet, Leuven, Belgium, p.A3883
- P44** **Prevalence of Patients Exposed to Sensitizing Agents Causing Occupational Asthma/L.V.T.D.** Reis, V.P. Bastos, M.C.S.D. Castro, P.R. Chauvet, T.P. Bartholo, A.J. Lopes, B.M. Pinto, L.F. Faria, R.V.D. Silva, R.L. Rufino, C.H. Costa, Rio de Janeiro, Brazil, p.A3884
- P45** **Deployment-Related Small Airways Disease Is Associated with Abnormal Ventilatory Parameters on Cardiopulmonary Exercise Testing/S.D.** Krefft, E.B. Gottschall, M. Strand, C. Rose, Denver, CO, p.A3885
- P46** **Airway Reactance Is an Independent Predictor of Exercise Capacity in Dyspneic Patients/M.** Falvo, D.A. Helmer, O. Osinubi, J.C. Klein, D.S. Ndirangu, N.J. Zhang, N. Eager, A.M. Sotolongo, East Orange, NJ, p.A3886

THEMATIC POSTER SESSION

B60 ENVIRONMENTAL DUST AND PARTICULATES IN AIRWAY DISEASE9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER****Area A, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** D.J. Romberger, MD, Omaha, NE

- P48** **Continuous Exposure to Swine Production Facilities Leads to Inflammation and Oxidative Stress Signatures in Lungs and Blood: A Porcine Model/K.P.** Locke, M. Harper, M.L. Johnson, R. Ranabhat, P.I. McIntosh, D. Conklin, J.T. Waterman, Greensboro, NC, p.A3887
- P49** **Housing Type Modulates Oxidant Levels and Antioxidant Defenses in Swine Airway Epithelial Tissue/R.** Ranabhat, C.J. McClendon, J.T. Waterman, Greensboro, NC, p.A3888
- P50** **Agricultural Organic Dusts Promote Human Lung-Resident Mesenchymal Stem/Stromal Cell Activation/T.M.** Nordgren, K.L. Bailey, A.J. Heires, D.M. Katafiasz, D.J. Romberger, Omaha, NE, p.A3889
- P51** **Agricultural Dust Exposure Induces IL-10 Production in Tissue Macrophages Which May Have a Role in Airway Inflammation and Repair/D.** Chandra, M. Sapkota, J.M. DeVasure, J. Poole, T.A. Wyatt, Omaha, NE, p.A3890
- P52** **MyD88 Regulates Airway Mucin Secretion in the Context of Agricultural Organic Dust Injury/J.** Dickinson, J. Sweeter, A. Nelson, J. Poole, Omaha, NE, p.A3891
- P53** **Epistatic Effect of TLR -1, -6 and -10 Polymorphisms on Organic Dust-Mediated Cytokine Response/T.D.** LeVan, L.M. Smith, L.A. Weissenburger-Moser, A.J. Heires, K. Bailey, D.J. Romberger, Omaha, NE, p.A3892
- P54** **Indoor Airborne Dust/Particulate Matter Causes Occupational Respiratory Disease: Novel Lipidocentric Mechanism of Airway Inflammation/S.J.** Campbell, P. Kauffman, N. Parinandi, S. Kotha, T. Gurney, S. Varikuti, A. Satoskar, Columbus, OH, p.A3893
- P55** **Swine Production Environment Modulates Kinome Signaling in Porcine Tracheobronchial Epithelial Tissues/J.T.** Waterman, C.J. McClendon, R. Ranabhat, T.S. Gilbert, L. Herring, L.M. Graves, Greensboro, NC, p.A3894
- P56** **The ProS Peptide of Porcine Cathelicidins Is an Active Component of Swine Concentrated Animal Feeding Operations (CAFOs) Dust and a Novel Activator of EGF Receptor Signaling/M.L.** Toews, N.A. Schulte, P.R. Dodmane, G. Tian, P.S. Ciborowski, R.G. Bennett, F.G. Hamel, A.J. Heires, T.M. Nordgren, D.J. Romberger, Omaha, NE, p.A3895

Facilitator: S. Kirychuk, PhD, Saskatoon, Canada

- P57** **Associations Between Radon and PM_{2.5} Exposures and Risk of Lung Cancer Incidence in US Women/T.** VoPham, F. Laden, J.E. Hart, Boston, MA, p.A3896



- P58 Preliminary Results of the Impact of Fine Particulate Matter from Household Emissions on Selected Respiratory and Cardiovascular Diseases/A.J. Badyda, A. Chcialowski, P. Dabrowiecki, P.O. Czechowski, A. Stanczyk, A. Gayer, D. Mucha, L. Adamkiewicz, Warsaw, Poland, p.A3897**
- P59 Ambient Air Pollution and Emergency Department Visits for Asthma in Erie County, New York 2007-2012/J. Castner, Y. Yin, S. Nandi, L. Guo, T. Singh, Grand Island, NY, p.A3898**
- P60 The Relationship Between Physical Activity and Lung Function Is Influenced by Black Carbon Pollutant Exposure/S. Lovinsky-Desir, K.H. Jung, A.G. Rundle, B. Yan, S.N. Chillrud, F.P. Perera, M. Perzanowski, R.L. Miller, New York, NY, p.A3899**
- P61 Living Adjacent to a Granite Quarry Does Not Associate with an Increase of Respiratory Symptoms/L.M. Lopez, J.-D. Ju, C.M. Zhang, M.C. Mauricio, C. Kochi, S. Choi, R.A. Accinelli, Lima, Peru, p.A3900**
- P62 Utilizing the HapMap Lymphoblastoid Biorepository as an In-Vitro Model for Diesel Exhaust Toxicity/W. Gladwell, O. Yost, J. Li, X. Wang, D. Bell, I. Gilmour, J. Ciencewicki, S. Kleeberger, Research Triangle Park, NC, p.A3901**
- P63 Differential California and China Fine Particulate Matter Effects on Allergic Sensitization to House Dust Mite in BALB/c Mice/J.J. Zhang, T.C. Mar, X.L. Sun, W. Li, L.L. Cui, C.C. Fulgar, A.R. Castaneda, D.E. Young, Q. Zhang, K.J. Bein, Z.Z. Zhang, K.E. Pinkerton, Chengdu, China, p.A3902**
- P64 Comparison of Time Lag Effects of Wintertime California and China PM in Healthy Young Mice/X.L. Sun, W. Li, D.E. Young, H.Y. Wei, L.L. Cui, K.J. Bein, Q. Zhang, J.J. Zhang, A. Magana-Mendez, K.E. Pinkerton, Jinan, China, p.A3903**
- P65 Metabolic Fingerprints of Protection from World Trade Center-Lung Injury: A Pilot Study/G. Crowley, S. Kwon, S.H. Haider, L. Zhang, R. Lam, R. Zeig-Owens, M.P. Webber, T. Schwartz, D. Prezant, M. Liu, A. Nolan, New York, NY, p.A3904**
- Facilitator:** N. Suganuma, MD, PhD, Kochi, Japan
- P66 Sleep Disordered Breathing Characteristics in Patients in the World Trade Center Program for Community Members/S.B. Ahuja, Z. Zhu, Y. Shao, J. Reibman, K.I. Berger, R.M. Goldring, C.E. Caplan-Shaw, A. Kazeros, O. Ahmed, New York, NY, p.A3905**
- P67 Outdoor Mold Spore Levels and Drug Consumption for Drug Treated Seasonal Allergic Rhino-Conjunctivitis: A 6-Year Study in France/D.M. Caillaud, M. Cheriaux, S. Martin, C. Segala, N. Dupuy, M. Thibaudon, Clermont-Ferrand, France, p.A3906**
- P68 Where Are They? The Occurrence of Legionella Pneumophila and Mycobacterium Avium at Residential and Office Buildings/M. Donohue, Cincinnati, OH, p.A3907**
- P69 A Novel Land Use Regression Model to Assess Air Pollution Exposure for Tuberculosis Research in Mexico City Using Finer Spatial and Temporal Input Parameters/Y. Son, A.R. Osornio-Vargas, M. O'Neill, J.L. Texcalac-Sangrador, P.A. Ohman-Strickland, Q. Meng, M. Torres, S. Schwander, Piscataway, NJ, p.A3908**

- P70 Identification of a Novel Peripheral Blood T Lymphocyte Population that Is Persistently Modulated Following Wildfire Smoke Exposure/J.A. Bassein, M.G. Dela Pena-Ponce, C. Black, L.A. Miller, Davis, CA, p.A3909**
- P71 Effect Modification of Exposure to PM2.5 on Airway Inflammation and Lung Function by the Presence of Protein PAI-1 in a Cohort of Obese Adolescents in Mexico City/A. Barraza-Villarreal, J.C. Cruz, H. Moreno-Macias, F. Huang, L. Hernandez-Cadena, Cuernavaca, Morelos, Mexico, p.A3910**
- P72 World Trade Center Particulates and Lysophosphatidic Acid: Co-Exposure Induces Inflammatory Mediators/L. Zhang, S.H. Haider, G. Crowley, R. Lam, S. Kwon, L.-C. Chen, A.M. Schmidt, D.J. Prezant, A. Nolan, Beijing, China, p.A3911**
- P73 Air Pollution from Livestock Farms and Acute Effects on Lung Function: A Panel Study in Patients with COPD/L.A.M. Smit, T. Van Dijk, M. Oldenwening, B. Aalders, L.D. Bloemsma, F. Borlée, D. Heederik, Utrecht, Netherlands, p.A7625**

THEMATIC POSTER SESSION

B61 BACTERIAL RESPIRATORY INFECTIONS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area L, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: M. Prickett, MD, MPH, Chicago, IL

- P1077 The Revised Oral Assessment Guide for the Prediction of Aspiration Risk in Pneumonia with Elderly People/S. Noguchi, T. Kato, Y. Chojin, N. Furuta, K. Akata, T. Kawanami, C. Yoshii, K. Yatera, H. Mukae, Kitakyushu City, Japan, p.A3912**
- P1078 Effects of Gastroesophageal Reflux on the Airway Microbiome in Subjects with Respiratory Symptoms and Airway Abnormalities/A. Basavaraj, B. Steiger, P. Malecha, J. Wang, Y. Li, A.S. Scott, D. Addrizzo-Harris, D. Kamelhar, L.N. Segal, New York, NY, p.A3913**
- P1079 Characterization of Pharmacokinetic/Pharmacodynamic Profiles of Telavancin in an Animal Model of Mechanical Ventilation/G. Li Bassi, E. Aguilera, A. Motos, C. Travieso, C. Chiurazzi, T. Senussi, F.A. Iodone, R. Amaro, Q. Bobi, O.T. Ranzani, R. Abbate, P. Pelosi, M. Antonelli, A. Torres, Barcelona, Spain, p.A3914**
- P1080 Characterization of the Pharmacokinetic/Pharmacodynamic Profile of Ceftolozane in an Animal Model of Severe P. Aeruginosa Pneumonia/G. Li Bassi, D. Nicolau, T. Senussi, A. Motos, C. Sutherland, F.A. Iodone, Y. Hua, R. Martinez Alejos, Q. Bobi, O.T. Ranzani, P. Pelosi, M. Antonelli, A. Torres, Barcelona, Spain, p.A3915**



- P1081 Bactericidal Efficacy of Nebulized Amikacin/Fosfomycin and Intravenous Meropenem for Amikacin-Resistant/Meropenem-Susceptible Severe Pseudomonas Aeruginosa Pneumonia/G.** Li Bassi, E. Aguilera, C. Chiurazzi, T. Senussi, F.A. Iodone, C. Travieso, M. Carbonara, R. Amaro, A. Motos, M. Rigol, Q. Bobi, F. De Rosa, T. Comaru, Y. Hua, J.-D. Marti, M. Rinaudo, O. Comino, O.T. Ranzani, P. Pelosi, M. Antonelli, F. Blasi, A. Torres, Barcelona, Spain, p.A3916
- P1082 Bactericidal Efficacy of Ceftolozane/Tazobactam in Comparison with Piperacillin/Tazobactam in a Model of Severe Pseudomonas Aeruginosa Pneumonia/G.** Li Bassi, E. Aguilera, T. Senussi, A. Motos, F.A. Iodone, Y. Hua, R. Martinez Alejos, J. Bobi, R. Amaro, L. Fernandez Barat, O.T. Ranzani, D. Nicolau, C. Sutherland, P. Pelosi, M. Antonelli, A. Torres, Barcelona, Spain, p.A3917
- P1083 Serum Pharmacokinetics and Pharmacodynamics of MEDI3902 in Mechanically Ventilated Pigs Infected with Pseudomonas Aeruginosa/A.E.** Keller, X.-Q. Yu, G. LiBassi, E. Aguilera, A. Motos, C. Travieso, C. Chiurazzi, T. Senussi, F.A. Iodone, A. Torres, C.K. Stover, A. DiGiandomenico, Gaithersburg, MD, p.A3918
- P1084 Pulmonary Concentrations of the Aminomethylcycline Antibiotic Omadacycline/M.H.** Gotfried, K. Rodvold, K. Horn, S. Chitra, A. Manley, S.K. Tanaka, E. Tzanis, Downers Grove, IL, p.A3919
- P1085 Time to Blood Culture Positivity as a Predictor of Clinical Outcomes and Severity in Adults with Bacteremic Pneumococcal Pneumonia/C.** Cilloniz, A. Ceccato, C. De La Calle, A. Gabarrus, C. Garcia-Vidal, A. Salazar, M. Almela, A. Soriano, J.A. Martinez, F. Marco, A. Torres, Barcelona, Spain, p.A3920
- Facilitators:** A. Torres, MD, Barcelona, Spain
Y. Shindo, MD, PhD, Nagoya, Japan
- P1086 Enhanced Antibiotic De-Escalation for Patients with Respiratory Failure/T.** Trupka, K. Fisher, P. Juang, S. Micek, M.H. Kollef, St. Louis, MO, p.A3921
- P1087 Novel Use of Point-of-Care DNA Sequencing to Identify a Respiratory Pathogen/K.** Pendleton, J. Erb-Downward, D. Newton, G. Huffnagle, R.P. Dickson, Ann Arbor, MI, p.A3922
- P1088 Use of Multiplex PCR Diagnostic Kit to Identify Viral Respiratory Tract Infection(RTI) Pathogens in Hospitalized Patients Led to Reduced Antibiotic Usage and Mechanical Ventilator Days/Z.** Esber, S. Jacobson, K.A. Bryant, J. Sadowsky, E. Albaddawi, R.A. Khan, Orlando, FL, p.A3923
- P1089 Clinico-Radiological Correlation of Bacterial Pneumonia/R.** Tsuzuki, S. Noma, T. Ebisudani, A. Tokumoto, A. Ohtsuki, K. Nakashima, M. Misawa, M. Aoshima, Kamogawa City, Japan, p.A3924
- P1090 Pneumococcal Pneumonia in Buenos Aires, Comparing Two Different Periods of Time: A Case-Control Study/L.** Pulido, A. Casey, D. Burgos, S.D. Leiva Agüero, A. Grosso, E. Membriani, A. Famiglietti, C. Vay, S. Garcia, C.M. Luna, Buenos Aires, Argentina, p.A3925
- P1091 Is Pneumonia Different in Healthy Patients Younger than 65 Years-Old? Analysis of the Community-Acquired Pneumonia Organization (CAPO) Database/A.J.** Videla, I. Palma, M. Fernandez Acquier, M. Labato, T. Wiemken, S. Furmanek, P. Peyrani, J.A. Ramirez, C.M. Luna, Pilar, Argentina, p.A3926
- P1092 Direct Costs Related to the Admissions of Adults with Community Acquired Pneumonia in Mainland Portugal During the 2000-2009 Period/F.** Froes, A. Diniz, P. Barbosa, V. Durao, F. Teixeira Lopes, A. Cysneiros, A. Dias, M. Serrado, C. Barbara, A. Escoval, Lisboa, Portugal, p.A3927
- P1093 Acute Respiratory Distress Syndrome in Patients with Severe Pneumococcal Pneumonia/A.** Ceccato, C. Cilloniz, M. Ferrer, A. Gabarrus, G. Li Bassi, O. Ranzani, C. Garcia Vidal, J. Puig De La Bellacasa, A. Torres, Palomar, Argentina, p.A3928
- P1094 Can You Tell What It Is Yet? An Investigation into Identification of Consolidation of Chest X-Rays in Patients Diagnosed with Community Acquired Pneumonia/A.** Jackson, A. Bridgman, B. Black, A. Youzguin, Southport, United Kingdom, p.A3929
- Facilitator:** A. Sayiner, MD, PhD, Izmir, Turkey
- P1095 Predictors for Antimicrobial De-Escalation Among Hospitalized Patients with Culture-Positive Pneumonia/Z.** Zhang, N. Ariyoshi, L. Majewski, H. Chung, J. Dworkin, G. Devendra, Honolulu, HI, p.A3930
- P1096 Bacteriological Etiology in Pneumonia Patients with Pulmonary Emphysema Using the Clone Library Analysis of 16S rRNA Gene in BALF/K.** Naito, K. Yamasaki, K. Yatera, T. Kawanami, K. Akata, S. Noguchi, T. Kido, H. Mukae, Fukuoka, Japan, p.A3931
- P1097 The Role of Cold Air in the Deposition of Ultrafine Infectious Bioaerosols in the Respiratory Tract/A.N.** Ishmatov, Tomsk, Russian Federation, p.A3932
- P1098 Initial Appropriate Empiric Therapy Plays More Important Role in Infection Control Compared with Adjusting Treatment Based on Microbiological Susceptibility Test Afterwards/W.** Du, H. Chen, W. Tang, G. Shi, Shanghai, China, p.A3933
- P1099 Clinical Factors and Pneumococcal Serotypes Associated in Japanese Pneumococcal Pneumonia Patients Who Had Pneumococcal Polysaccharide Vaccine (PPSV) 23 Between 2011 and 2015/K.** Akata, B. Chang, T. Kawanami, K. Naito, S. Noguchi, T. Kido, H. Mukae, K. Yatera, Kitakyushu City, Japan, p.A3934
- P1100 Focus on Characteristics of the Lower Respiratory Tract Microbiome in Pseudomonas Aeruginosa Ventilator-Associated Pneumonia Patients/X.** Qi, D. Yang, L. Zhou, Y.-W. He, J. Liu, Shanghai, China, p.A3935
- P1101 Clinical Features and Outcome of Bacteremic Pneumococcal Pneumonia/A.** Gonzalez, M. Heres, A. Ceccato, L. Cristaldo, J. Burgos, P. Idoyaga, M. Toranzo, V. Prado, F. Avila, C. Guzman, A. Fernandez, M. Fielli, Buenos Aires, Argentina, p.A3936
- P1102 Experience with ceftaroline for treatment of MRSA pneumonia in a community hospital/A.** Karki, K. Sherani, C. Thurm, N.L. Oo, V. Patel, K. Cerviollene, Jamaica, NY, p.A3937



P1103 Upper Airways Carriage of Streptococcus Pneumoniae in Over 60 Year Olds: A Systematic Review of Prevalence and Individual Participant Data Meta-Analysis of Risk Factors/E.L. Smith, I. Wheeler, H. Adler, D. Ferreira, O. Abdullahi, I. Adetifa, R. Sa-Leao, S. Becker-Dreps, S. Esposito, H. Farida, R. Kandasamy, L.L. Hammitt, L. Grant, K. O'Brien, G.A. Mackenzie, P. Nuorti, S. Nzenze, S. Mahdi, O. Ortega, F. Schaumburg, D. Safari, E.A.M. Sanders, A.J. Van Hoek, A. Roca, E. Usuf, J. Rylance, Liverpool, United Kingdom, p.A3938

Facilitator: E. Mortensen, MD, MSc, Simsbury, CT

P1104 Evaluate the Global Susceptibility Trends of Pseudomonas Aeruginosa from Respiratory Isolations in Patients with Chronic Obstructive Pulmonary Disease/E.J. Soto Hurtado, M.J. Gutierrez Fernandez, J. Castro Rodriguez, L. Garcia Aranguena, P. Gutierrez Castano, Malaga, Spain, p.A3939

P1105 Lower Respiratory Tract Infections and Espectrum Betalactamase Resistant Microorganisms/E.J. Soto Hurtado, M.J. Gutierrez Fernandez, J. Castro Rodriguez, L. Garcia Aranguena, G.E. Gonzalez Angulo, Malaga, Spain, p.A3940

P1106 Identifying Methicillin-Resistant Staphylococcus Aureus (MRSA) Pneumonia Risk Factors/T. Rahman, R. Cavallazzi, J.D. Price, R.Y.H. Kim, Y. Kothari, A. Bhatt, N. Maniar, R. Pearce, Louisville, KY, p.A3941

P1107 Cardiac Troponin I as a Severity Predictor in Hospitalized Patients with Community Acquired Pneumonia/S. Peiman, S.F. Allameh, N. Abbasi, A. Charejoo, A. Abdollahi, Tehran, Iran, p.A3942

P1108 Clinical Characteristics of Healthcare-Associated Pneumonia Among Hospitalized Patients in a Korean Tertiary Teaching Hospital/J.H. Ahn, H.J. Kim, E.Y. Choi, Namgu, Daegu, Korea, Republic of, p.A3943

P1109 Risk Factors for Drug-Resistant Community-Acquired Pneumonia/A. Sayiner, H. Erbey, Y. Kaptan, S. Aydemir, A. Tunger, Izmir, Turkey, p.A3944

P1110 Healthcare-Associated Pneumonia (HCAP) and Hospital-Acquired Pneumonia (HAP) - Bacterial Etiology, Antibiotic Resistance and Mortality/S. Kumar, R.A. Jan, B.A. Fomda, R. Rasool, P. Koul, S. Shah, U. Hafeez, M. Qadri, S.R. Masoodi, S. Mantoo, M. Muzamil, Srinagar, India, p.A3945

P1111 Resistance to Antibiotics in Streptococcus pneumoniae/E. Uzaslan, C. Ozakin, K. Efe, A.G. Dilektasli, N. Ozturk, M. Karadag, Bursa, Turkey, p.A3946

P1112 Proposed Prediction Tool for Multidrug-Resistant Pathogens in Patients Admitted with Hemodialysis-Associated Pneumonia/J. Lee, H. Jwa, G.M. Seong, J.-U. Song, H.K. Park, Jeju, Korea, Republic of, p.A3947

Facilitator: M.I. Restrepo, MD, MSc, San Antonio, TX

P1113 Prevalence and Predictors of Pneumothorax in Patients with Septic Pulmonary Embolism/C.D. Gibson, P. Shah, R.A. Jean, R.E. Jean, Bronx, NY, p.A3948

P1114 Antibiotic Therapy for Patients with Community-Acquired Pneumonia Associated with Advanced Chronic Obstructive Pulmonary Disease: Would Be Special Concerns for Patients Admitted to the Intensive Care Unit/A. Sadigov, F. Abdullayev, K. Agayeva, Baku, Azerbaijan, p.A3949

P1115 Developing Metagenomic Methods for Legionella Sequencing/M.J. Cox, S. Carney, W. Cookson, V.J. Chalker, M. Moffatt, London, United Kingdom, p.A3950

P1116 Prognostic Significance of Nutritional Risk in the Elderly Patients with Community Acquired Pneumonia/W.H. Cho, K.S. Byun, L.H. Kang, D. Jeon, Y.S. Kim, Yangsan-si, Korea, Republic of, p.A3951

P1117 Predictive Performance of Quick Sepsis-Related Organ Failure Assessment for Mortality and Intensive Care Unit Admission Among Patients with Community-Acquired Pneumonia/F. Tokioka, H. Okamoto, Y. Washio, A. Yamazaki, A. Ito, T. Ishida, Okayama, Japan, p.A3952

P1118 Changing Trends in Antimicrobial Resistance and Serotype Distribution of Streptococcus Pneumoniae Isolates in China from 2005 to 2014/C. Zhao, F. Zhang, Y. Chu, B. Cao, H. Sun, Y. Yu, K. Liao, L. Zhang, Z. Sun, B. Hu, J. Lei, Z. Hu, X. Zhang, H. Wang, Beijing, China, p.A3953

P1119 Bacterial Colonization During Stent Trial in Excessive Central Airway Collapse/D. Alape, F. Kheir, S. Fernandez Bussy, M. Parikh, A. Majid, Boston, MA, p.A3954

P1120 Comparison of 3 Prognostic Scores in Patients with Sepsis Secondary to Community-Acquired Pneumonia Attended at the Emergency Department/C. Hincapie, J. Ascutar, F. Jaimes, Medellin, Colombia, p.A3955

P1121 Incidence and Utility of Blood Cultures in Patients Admitted with Pneumonia Classified by Severity and Healthcare Exposure/D. Zhang, A. Makam, Dallas, TX, p.A3956

P1122 Early Use of Automated Polymerase Chain Reaction to Detect Methicillin-resistant Staphylococcus Aureus in Bronchoalveolar Lavage: A Randomized Controlled Trial/J.R. Paonessa, R. Shah, C.I. Ononye, B.D. Lizza, H.K. Donnelly, M. Breganio, C. Qi, R.G. Wunderink, Chicago, IL, p.A7626

P1123 A Sputum Volatile Organic Compound Pattern Associated with Bacteraemic Pneumococcal Community Acquired Pneumonia/D. Wootton, G. Airey, L. Keogan, O. Eneje, L. Macfarlane, J. Court, S. Wilks, M. Woodhead, S. Gordon, C. Probert, Liverpool, United Kingdom, p.A7627

P1124 Pneumonia Pathogen Identification Improves with Bedside Plating of Bronchoalveolar Lavage Fluid/J. Forbes, G. Kallungal, A. Krones, C. Atluri, C. Doern, A.A. Syed, richmond, VA, p.A7628

THEMATIC POSTER SESSION

B62 NON-TUBERCULOUS MYCOBACTERIA: CLINICAL ASPECTS AND CASES

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area L, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators



Facilitator: S.H. Kasperbauer, MD, Denver, CO

- P1162 Virulence Mycobacterial Determinants Represent Useful Antigens for the Serological Diagnostic of NTM Infection in Cystic Fibrosis Patients/V.** Le Moigne, J.-L. Gaillard, J.-L. Herrmann, A.-L. Roux, Montigny-le Bretonneux, France, p.A3957
- P1163 Mycobacterium Abscessus Complex (MABSC) in Gastrostomy Fed Patients with Cystic Fibrosis/H.** Al-momani, A. Perry, R. Jones, S. Bourke, S. Doe, J. Perry, A. Anderson, T. Forrest, I. Forrest, M. Griffin, M. Brodie, J. Pearson, C. Ward, Newcastle, United Kingdom, p.A3958
- P1164 Prevalence of Nontuberculous Mycobacterial Pulmonary Disease in Japan: Analysis of National Database of Medical Insurance Claim/K.** Morimoto, K. Izumi, K. Uchimura, N. Hasegawa, H. Namkoong, Y. Hoshino, A. Kurashima, M. Ato, S. Mitarai, Kiyose, Japan, p.A3959
- P1165 Mycobacterium Avium Intracellulare Infection Complicated by Allergic Bronchopulmonary Aspergillosis in a Non-Asthmatic Nonagenarian/G.** Malhotra, A. Copur, C. Anez, North Chicago, IL, p.A3960
- P1166 Mac Pleural Effusion in an Immunocompetent Host/A.H.** Cho, G. Gutierrez, Washington, DC, p.A3961
- P1167 It Is Not Always About Lady Windermere: Cavitating Lung Disease Due to Mycobacterium Avium Complex/S.K.** Avasara, A. Hejab, M. Lazar, Detroit, MI, p.A3962
- P1168 Mycobacterium Abscessus in a Patient with Scleroderma/E.** Cochard, M.D. Williams, Indianapolis, IN, p.A3963
- P1169 Mycobacterium Szulgai Infection in a Interstitial Lung Disease Patient/M.V.F.** Garcia, J.V.K. Schubsky, F.E. Arimura, B.G. Baldi, A.N. Costa, R.K.B. Sales, Sao Paulo, Brazil, p.A3964

Facilitator: T.R. Aksamit, MD, Rochester, MN

- P1170 Subject and Site Recruitment from the Global Phase III Study of Liposomal Amikacin for Inhalation (LAI) in Adult Patients with Lung Infections Caused by Mycobacterium Avium Complex (MAC) Who Have Not Improved with Previous Treatments (CONVERT Study)/D.E.** Griffith, K.L. Winthrop, K. Morimoto, N. Hasegawa, L. Codecasa, W. Hoefsloot, A. Burke, J.-J. Yim, D. Yuen, D. Nowicke, L. Mooney, A. Dudek, G. Eagle, Austin, TX, p.A3965
- P1171 Diagnosis and Clinical Course of Patients Referred with Chest X-Ray Abnormalities and Suspected of Nontuberculous Mycobacterial Lung Disease/A.** Sato, H. Matsui, S. Kono, H. Shimizu, S. Nakamura, R. Sato, M. Kawashima, K. Masuda, H. Nagai, K. Ota, Kiyose, Tokyo, Japan, p.A3966
- P1172 Retrospective Study of Treatment Intervention for Mycobacterium Avium Complex Lung Infection/T.** Nishizawa, N. Fukuda, S. Kuriwa, T. Oba, R. Kawabe, S. Satoh, K. Akasaka, D. Kurai, M. Amano, H. Matsushima, Saitama, Japan, p.A3967
- P1173 Stuck to the Surface: Pleural Mycobacterium Chelonae Infection/J.M.** Kagihara, C.-F. Chang, U. Chaddha, Los Angeles, CA, p.A3968
- P1174 A Case of Masquerade: Nontuberculous Mycobacterium Mimicking Lung Metastases in a Patient with Esophageal Cancer/S.S.** Patrawala, P.J. Sime, P.J. Levy, C.-L. Petronaci, Rochester, NY, p.A3969

- P1175 Rapidly Progressive Cavitory Lung Disease Due to Concurrent Mycobacterium Avium Infection and Eosinophilic Pneumonia/M.H.** Adelman, A. Basavaraj, A.L. Moreira, D. Addrizzo-Harris, New York, NY, p.A3970
- P1176 A Rare Case of Empyema Secondary to Mycobacterium Fortuitum/K.** Yashi, J. Virk, D. Gill, D.F. Lehmann, Syracuse, NY, p.A3971
- P1177 We're Not in Kansas Anymore: A Case of Asymptomatic, Rapidly Growing Destructive M. Kansasii/J.** Yang, R. Sell, San Diego, CA, p.A3972

Facilitator: K.N. Olivier, MD, MPH, Bethesda, MD

- P1178 Associations of Influenza Vaccination with Nontuberculous Mycobacterium and All-Cause Mortality in Elderly Taiwanese Patients: A Nationwide Population-Based Cohort Study/W.-J.** Su, Y.-F. Yen, P.-H. Chuang, S.-W. Pan, V.Y.-F. Su, J.-Y. Feng, Taipei, Taiwan, p.A3973
- P1179 Recent Trends in Nontuberculous Mycobacteria Isolates and Lung Disease from Single Referral Hospital, South Korea, 2009-2015/K.B.** Chung, S.M. Choi, J. Lee, Y.S. Park, C.-H. Lee, S.-M. Lee, C.-G. Yoo, H.S. Hee Soon Chung, Y.W. Kim, S.K. Han, J.-J. Yim, Seoul, Korea, Republic of, p.A3974
- P1180 Clinical Features of Nontuberculous Mycobacterial Pleurisy: A Review of 12 Cases/M.** Naito, T. Maekura, Y. Kurahara, M. Tahara, N. Ikegami, Y. Kimura, S. Sonobe, T. Kobayashi, S. Minomo, T. Tsuji, Y. Matsuda, T. Arai, Y. Inoue, K. Tsuyuguchi, S. Hayashi, K. Suzuki, Sakai City, Osaka, Japan, p.A3975
- P1181 The Triple Hit: A Case of Massive Hemoptysis Due to Sequential Infection with Mycobacterium Tuberculosis, Mycobacterium Avium Complex and Aspergillus Fumigatus/C.-P.** Wu, J. Ataucuri-Vargas, E. Pinelis, Bronx, NY, p.A3976
- P1182 MAC Vs Paradoxical Reaction: A Treatment Dilemma in an Immune-Competent Patient Being Treated for Tuberculosis/A.** Shah, U. Kulsum, M. Babury, Jamaica, NY, p.A3977
- P1183 Quantiferon Testing and Nontuberculous Pulmonary Mycobacterial Infection/L.E.** Carrasco, V. Terla, G. Pesola, New York, NY, p.A3978
- P1184 Unusual Cause of Upper Lobe Lung Mass/S.** Marupudi, M.I. Ahmad, S. Menon, F. Khan, A. Malik, Winston-Salem, NC, p.A3979
- P1185 Brain Abscess Caused by Mycobacterium Avium-Intracellulare: A Case Report/Z.** Muzaffar, H. Singh, A. Magh, M. Cheema, A. Iftikhar, Hicksville, NY, p.A3980

THEMATIC POSTER SESSION

B63 LATENT TUBERCULOSIS INFECTION AND EPIDEMIOLOGY OF TUBERCULOSIS DISEASE

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Area L, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators



Facilitator: K.A. Cohen, MD, Boston, MA

- P1187 Predicting Tuberculosis Risk in the Foreign-Born Population of British Columbia, Canada: Retrospective Population-Based Cohort Study/L.** Ronald, J. Campbell, R. Balshaw, D. Roth, K. Romanowski, F. Marra, V. Cook, J. Johnston, Vancouver, Canada, p.A3981
- P1188 Low Transmission Among House-Hold Contacts with Smear Positive TB Patient Living in a Dormitory, in Indonesia/D.H.** Sudiro, R. Satya, Jakarta Timur, Indonesia, p.A3982
- P1189 Does Indoor Air Pollution Enhance the Risk of Tuberculosis Infection?/M.D.** Schweitzer, V. Patel, M. Mirsaeidi, A. Foster, N. Kumar, Miami, FL, p.A3983
- P1190 Complex Dynamics Between Indoor Air Pollution, Pneumonia and Pediatric Tuberculosis; An Explorative Study from Developing Country/N.K.** Bhatta, R.R. Singh, Dharan, Nepal, p.A3984
- P1191 Depicting Recent Transmissions of Multi-Drug Resistant Tuberculosis in Shanghai, China: A Population-Based Genotypic and Geospatial Study/X.** Wei, D. Li, E. Ge, C. Yang, S. Tsui, X. Shen, Q. Gao, Toronto, Canada, p.A3985
- P1192 Determining the Transmission Dynamics of Tuberculosis in the Greater Banjul Area of the Gambia/T.I.** Faal-Jawara, F.S. Mendy, A. Ayorinde, J. Otu, J. Sutherland, B. De Jong, F. Gehre, Banjul, Gambia, p.A3986
- P1193 Factors Affecting TB Transmission from Adult to Children Within Households in the Gambia/A.** Mendy, L.D. Tientcheu, A. Ayorinde, E. Coker, U. Egere, B. Kampmann, Banjul, Gambia, p.A3987
- P1194 The Cost to Implement a 12-Dose Weekly Isoniazid and Rifapentine (3HP) Regimen for Latent Tuberculosis Infection (LTBI)/S.M.** Marks, A. Sandul, N. Shah, N. Nwana, L. Mukasa, T. Bertsch, C. Ho, Atlanta, GA, p.A3988

Facilitator: D. Horne, MD, MPH, Seattle, WA

- P1195 Latent Tuberculosis Infection Screening in Health Care Workers in Community Lung Health Center in Bandung, Indonesia/R.** Ratnawati, E. Burhan, C.N. Intani, DKI Jakarta, Indonesia, p.A3989
- P1196 Quantitating the Change in Interferon-Gamma Release Assay (IGRA) Response with Serial Testing of Recent Tuberculosis (TB) Contacts May Help Identify Recently Acquired Mycobacterium Tuberculosis Infection/M.** Fernandes, H. Patel, J. Lee, G. Woltmann, R. Verma, P. Halder, Leicester, United Kingdom, p.A3990
- P1197 Improving Mass TB Screening Using Cost-Sensitive Machine Learning Classification/A.A.** Septiandri, A. Aditiawarman, R. Tjong, E. Burhan, A. Shankar, Jakarta, Indonesia, p.A3991
- P1198 Prevalence of Latent Tuberculosis Among Exposed Population of Medical Students as Compared with Unexposed Population of Non-Medical Students and Its Relation with Duration of Exposure/D.** Chaudhry, N. Jain, S. Singh, B. Prajapat, A. Agarwal, Rohtak, India, p.A3992

- P1199 TB Incidence in HIV-Infected Indian Adolescents/I.** Marbaniang, S. Nimkar, D. Kadam, S. Khadse, C. Valvi, R. Kulkarni, R. Suman, A. Gupta, V. Mave, Pune, India, p.A3993
- P1200 A Human Lung-Orientated Approach to Correlates of Risk in Tuberculosis/M.** Davids, A.S. Pooran, R. Meldau, F. Thompson, P. Gina, K.U.J. Dheda, Cape Town, South Africa, p.A3994
- P1201 The Correlation of Serum Adenosine Deaminase and Tuberculin Test for Diagnosis of Latent Tuberculosis in Close Contact Persons/W.** Phuenpathom, Hadyai, Songkhla, Thailand, p.A3995
- P1202 Prevalence of Pulmonary and Extrapulmonary Tuberculosis in Patients with Systemic Rheumatic Diseases in Korea: A National Health Insurance Database Study/D.W.** Park, J.-Y. Moon, T.S. Park, G.W. Koo, T.-H. Kim, J.W. Sohn, H.J. Yoon, D.H. Shin, S.-H. Kim, Seoul, Korea, Republic of, p.A3996
- P1203 Drug Resistant Tuberculosis at an University Hospital in Brazil: Clinical and Microbiological Profile/A.P.** Santos, J.M. Leung, S. Riva, A.C. Carvalho, M.A. Vieira, A. Kritski, F. Mello, Rio de Janeiro, Brazil, p.A3997

Facilitator: C. Yoon, MD, MPH, San Francisco, CA/

- P1204 Tuberculin Skin Test Variability and Impact of Tuberculin Skin Test on Subsequent QuantiFERON®-TB Gold In-Tube Test Results/W.C.** Whitworth, E. Ilieva-Hughes, G. Mazurek, Atlanta, GA, p.A3998
- P1205 Indeterminate Result of Interferon-Gamma Release Assays in Patients with Diabetes Mellitus: Propensity Score Matching Analysis/H.-J.** Shin, T.-O. Kim, C.-K. Park, Y.-S. Kwon, Gwangju, Korea, Republic of, p.A3999
- P1206 Clinical Comparison Study of T-SPOT, QFT-Gold and QFT-Plus in the Detection of Active Pulmonary TB in Japan/K.** Fukushima, Y. Kaneko, N. Ehara, R. Nakano, T. Matsutake, T. Kubo, N. Sakamoto, Y. Obase, H. Mukae, Isahaya, Japan, p.A4000
- P1207 The Analysis of QuantiFERON-TB Gold Plus (4th Generation QFT) in Comparison with TSPOT in Rheumatoid Arthritis for Latent Tuberculosis Infection/H.** Igari, S. Ishikawa, M. Tsuyuzaki, K. Suzuki, R. Matsumura, Chiba, Japan, p.A4001
- P1208 The Last-Long Potency of Interferon-γ Release Responses to Mycobacterium Tuberculosis Antigens in the QuantiFERON®-TB Gold In-Tube/S.** Minezaki, T. Miyashita, T. Yamaguchi, T. Hirama, M. Kanazawa, H. Nakamura, M. Nagata, Saitama, Japan, p.A4002
- P1209 Comparison of Tuberculin Skin Test with Interferon Gamma Release Assay (QuantiFERON®) for Detection of Latent Tuberculosis Infection in Cancer Patients/J.L.** Galindo Pedraza, A.M. Callejas Gutierrez, D.A. Suarez Zamora, A.M. Baldino Elorza, D.M. Palacios Ortiz, C. Hanabergh, M.P. Caicedo Verastegui, Bogota, Colombia, p.A4003
- P1210 Utilization of Interferon Gamma Release Assays (IGRAs) for the Detection of Latent Tuberculosis Infection (LTBI) at a Tertiary Care Hospital/G.M.** Molina-Pallete, J. Kansagra, I. Brar, Detroit, MI, p.A4004
- P1211 Reliability of T-SPOT.TB for Screening Mycobacterium Tuberculosis Infection in Japan/N.** Kobayashi, A. Aoki, H. Koizumi, K. Takahashi, M. Yamamoto, T. Sato, M. Shinkai, M. Kudo, T. Kaneko, Yokohama, Japan, p.A4005



Facilitator: J.J. Saukkonen, MD, West Roxbury, MA

- P1212 Clinical Features Affecting the Sensitivity of TSPOT.TB in Newly Diagnosed Smear-Positive Pulmonary Tuberculosis/M.** Ikeda, M. Yamamoto, H. Nagakura, K. Nakashima, H. Watanabe, K. Nagai, R. Ushio, Y. Shibata, K. Tashiro, N. Horita, T. Sato, N. Kobayashi, M. Kudo, M. Shinkai, T. Kaneko, Yokohama, Japan, p.A4006
- P1213 Burden of Tuberculosis in Adult Patients with Diabetes Mellitus/A.** Mohan, P. Sumanth Reddy, B.S. Kumar, A. Sachan, D.P. Kumar, K.V.S. Sarma, Tirupati, India, p.A4007
- P1214 Severe Form of Tuberculosis Disease in Childhood Continuing Risk of Life Threatening Conditions/M.** Gharibzadeh Hizal, G. Dilsa Tugcu, S. Esref, N. Emiraliloglu, E. Yalcin, D. Dogru Ersoz, U. Ozcelik, N. Kiper, Ankara, Turkey, p.A4008
- P1215 Pediatric and Adolescent Tuberculosis After the Chernobyl Disaster/L.** Gorbach, Minsk, Belarus, p.A4009
- P1216 Active Tuberculosis Incidence in Patients Treated with Tumor Necrosis Factor Antagonists According to Latent Tuberculosis Infection/E.H.** Lee, J.E. Park, L. Jung Mo, S.H. Lee, Y.A. Kang, J.Y. Jung, P. Moo Suk, C.M. Ahn, S.Y. Kim, Seoul, Korea, Republic of, p.A4010
- P1217 Community Health Literacy to Enhance Community Empowerment in People with Tuberculosis/R.** Machmud, H. Delyuzar, M. Mukhtar, M. Thompson, F. Purba, A. Camellia, Padang, Indonesia, p.A4011
- P1218 Knowledge, Attitudes and Practices About Multidrug-Resistant Tuberculosis (MDR-TB) and Preventive Therapy Among Adult and Adolescent Household Contacts of MDR-TB Index Cases/N.** Suryavanshi, M. Murrill, A. Gupta, A. Hesseling, L. Naini, L. Jones, M. Hughes, S. Kim, B. Smith, N. Gupte, R. Dawson, V. Mave, A. Mendoza, P. Gonzales, N. Kumarasamy, K. Comins, F. Conradie, J. Shenje, S. Nerette Fontain, A. Garcia-Prats, A. Asemelash, S. Nedswan, D. Peters, U. Laloo, A.C. Garcia Ferreira, E. Okeyo, S. Swindells, G. Churchyard, N.S. Shah, Pune, India, p.A4012
- P1219 Cough Aerosol Cultures of Mycobacterium Tuberculosis Predict Quantitative IGRA Readouts in Household Contacts of Pulmonary TB Patients in Brazil/C.** Acuna-Villaorduna, L. Schmidt-Castellani, L. White, K. Fennelly, P. Marques-Rodrigues, M. Palaci, M. Gaeddert, J. Ellner, R. Dietze, E. Jones-Lopez, Boston, MA, p.A7629

THEMATIC POSTER SESSION

B64 FUNGAL INFECTIONS AND INFECTIONS IN NON-HIV IMMUNOCOMPROMISED HOSTS

9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area L, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: A.H. Limper, MD, Rochester, MN

- P1221 Yield of FilmArray Respiratory Panel in Nasopharyngeal Swab and Bronchoalveolar Lavage Samples in the Immunocompromised Host/N.** Azadeh, K. Sakata, A.I. Saeed, J.J. Mullan, A.H. Limper, M.J. Binnicker, Rochester, MN, p.A4013
- P1222 Utility of Aspergillus Galactomannan Assay in Diagnosis of Pulmonary Fungal Disease from Bronchoalveolar Lavage Fluid in Outpatient Hematopoietic Stem Cell Transplant Patients/J.** Wong, P.G. Arndt, Minneapolis, MN, p.A4014
- P1223 Emerging Pulmonary Fungal Isolates from Patients with Hematologic Malignancies/J.** Wong, P. Ballal, P.G. Arndt, Minneapolis, MN, p.A4015
- P1224 Progression of Radiologic Infiltrates After Parainfluenza Infection Predicts Mortality in Patients with Hematologic Malignancies/A.** Sheshadri, D. Shah, M. Godoy, J. Erasmus, J. Song, L. Li, S.E. Evans, R. Chemaly, B. Dickey, D.E. Ost, Houston, TX, p.A4016
- P1225 Liquid-Based Cytopathology Test as a Novel Method to Identify Aspergillus in Patients with Invasive Pulmonary Aspergillosis/Y.** Shen, C. Wan, L. Chen, Y. Jiang, F. Wen, Chengdu, China, p.A4017
- P1226 A Review of Human Metapneumovirus Infection in Hematopoietic Stem Cell Transplant Recipients/P.** Ballal, P.G. Arndt, Minneapolis, MN, p.A4018
- P1227 Comprehensive Real-Time PCR of Bronchoalveolar Lavage Fluid in Antibiotic-Nonresponsive Pneumonia with Hematological Disorders/S.** Hanada, Y. Takahashi, K. Ogawa, K. Murase, S. Mochizuki, H. Uruga, H. Takaya, A. Miyamoto, N. Uchida, N. Morokawa, S. Taniguchi, K. Kishi, Tokyo, Japan, p.A4019
- P1228 Mortality Rate of Aspergillus Infection Following Thoracic Transplant: Retrospective Study Using UNOS (United Network for Organ Sharing) Database/V.** Gupta, S. Kukrety, M.A. Narayana, R. Walters, R. Vivekanadan, Omaha, NE, p.A4020

Facilitator: S.E. Evans, MD, Houston, TX

- P1229 Role of Galactomannan (GM) and (1-3) β -D-Glucan in the Diagnosis of Invasive Fungal Infection in Critically Ill Chest Patients/M.K.** Ghanem, A.Z. Mohamed, A.M. Moharam, H.A. Makhlof, E. Elgezawy, S. Farghaly, Assiut, Egypt, p.A4021
- P1230 Blastomycosis: Clinical Presentation, Diagnosis, Treatment, and Prognosis in a Large Public Hospital in Chicago/W.** Kowacz, J. Sethi, R. Lenhardt, Chicago, IL, p.A4022
- P1231 Comparison of Clinical Features of Chronic Pulmonary Aspergillosis Between Patients with and Without Eosinophilia/Y.** Kamii, J. Suzuki, H. Matsui, M. Matsuki, S. Nagoshi, M. Ohgiya, E. Inoue, M. Kawashima, N. Ohshima, A. Yamane, K. Ohta, Tokyo, Japan, p.A4023
- P1232 Underlying Conditions in Chronic Progressive Pulmonary Aspergillosis -Focus on Smoking Related Lung Diseases. Experience in Japan/K.** Yoshida, M. Nonaka, Y. Sasatani, R. Shigemasa, S. Nishima, N. Hida, K. Yazaki, K. Hyodo, K. Nemoto, Y. Miura, T. Takaku, S. Oh-ishi, K. Hayashihara, T. Saito, Ibarakiken, Japan, p.A4024



- P1233 Effects of Adjuvant Corticosteroids on Pneumocystis Jirovecii Pneumonia in Non-HIV Adults/P.M. Wieruszewski, J.N. Barreto, E. Frazee, C.E. Daniels, P.K. Tosh, R.A. Dierkhising, K.C. Mara, A.H. Limper, Rochester, MN, p.A4025**
- P1234 Pneumocystis Pneumonia with Discordant PCR Results from Induced Sputum and BAL Samples: A Mayo Clinic Experience/K. Pennington, J. Wilson, P. Escalante, Rochester, MN, p.A4026**
- P1235 Benefit of Routine Pan-Aspergillus Polymerase Chain Reaction Testing of Bronchoalveolar Lavage Samples from Lung Transplant Recipients/A. Unterman, S. Izhakian, Y. Geffen, D. Rosengarten, O. Shtraichman, M.R. Kramer, Petach Tikva, Israel, p.A4027**

THEMATIC POSTER SESSION

B65 HOST-PATHOGEN INTERACTIONS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area L, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: S.K. Cribbs, MD, MSc, Atlanta, GA

- P1237 NLRP3 Inflammasome Is Expressed in Human B Lymphocytes and Essential for Both Humoral and Innate Functions/M.F. Ali, H. Dasari, E.M. Carmona, Rochester, MN, p.A4028**
- P1238 NADPH Oxidase Subunit gp91 Modulates Senescence Status of Pseudomonas Aeruginosa-Infected Macrophages/H. Li, H.-R. Cai, C.-M. Xie, Nanjing, China, p.A4029**
- P1239 Impaired Host Defense Against Klebsiella Pneumonia in Diet-Induced Obese Mice Is Associated with Reduced CD64+, CD11c+ Macrophages, CD64+, CD 11c+ Dendritic Cells, and Neutrophil Counts in the Alveolar Space In Vivo and Diminished Neutrophil Bactericidal Function/P. Mancuso, J.L. Curtis, C.M. Freeman, C. Griffin, K. Singer, Ann Arbor, MI, p.A4030**
- P1240 Activation of $\alpha 7$ nAChR Promotes IL-4-Induced Macrophages M2 Polarization Under Influenza A Virus Infection/X. Su, Z. Gao, Y. Huang, Shanghai, China, p.A4031**
- P1241 Respiratory Syncytial Virus Induces a Signaling Cascade During Entry, Resulting in Recruitment of Its Receptor, Nucleolin, to the Cell Surface/C. Griffiths, L. Bilawchuk, K. Jamieson, L. Jensen, D. Proud, D. Marchant, Edmonton, Canada, p.A4032**
- P1242 Lung Epithelial Cell-Derived Exosomes Facilitate the Propagation of Inflammatory/D. Zhang, H. Lee, Y. Jin, Boston, MA, p.A4033**
- P1243 The Lung Epithelial Unfolded Protein Response Plays a Critical Role in H1N1 Influenza Infection/N.L. Chamberlain, B. Mihavics, E.M. Nakada, J.M. Siddesha, D.G. Chapman, S.M. Hoffman, B.T. Suratt, V. Anathy, Burlington, VT, p.A4034**

Facilitator: J.P. Mizgerd, ScD, Boston, MA

- P1244 Myddosome-Activated Epithelial TRAF6 Is Required for Synergistic TLR-Induced Resistance to Pneumonia/V.V. Kulkarni, Y. Wang, J. Pantaleon-Garcia, M. Leiva, S.R. Bhupapadu Sunkesula, S. Wali, S. Batres, S.E. Evans, Houston, TX, p.A4035**
- P1245 Activation of Lung Epithelial NF κ B and STAT3 Signaling Pathways Is Required for Inducible Resistance to Pseudomonas Infection/Y. Wang, V.V. Kulkarni, J. Pantaleon-Garcia, M.M. Leiva-Juarez, S.E. Evans, Houston, TX, p.A4036**
- P1246 Cyclic di-AMP Produced by Streptococcus Pneumoniae Dictates NF- κ B Activation and Necroptosis in Macrophages/A.K. Wooten, F.T. Coleman, M.R. Jones, L.J. Quinton, S.I. Pelton, G. Bai, J.P. Mizgerd, Boston, MA, p.A4037**
- P1247 Importance of the Type III Secretion System Toxin ExoY in the Severity of Pseudomonas Aeruginosa Pneumonia in Mechanically Ventilated Intensive Care Unit Patients/N. Anjum, B.M. Wagener, C.J. Morgan, S. Christiaans, M.E. Banks, T. Stevens, J.F. Pittet, Birmingham, AL, p.A4038**
- P1248 Serum Level of Lymphatic Vessel Endothelial Hyaluronan Receptor-1 (LYVE1) During Acute Lower Respiratory Infection/H. Nakano, Y. Shibata, S. Inoue, A. Igarashi, Y. Tokairin, K. Yamauchi, T. Kimura, M. Nishiwaki, T. Nemoto, M. Sato, K. Sato, S. Yan, K. Furuyama, Y. Minegishi, I. Kubota, Yamagata, Japan, p.A4039**
- P1249 Anti-Viral and Inflammatory Host Response to Rhinovirus Is Induced in Vital Ex Vivo Human Lung Tissue and Reduced by Anti-Viral Treatments/H. Obernolte, P. Braubach, D. Jonigk, M. Kruger, G. Warnecke, O. Pfennig, H.-G. Fieguth, A. Braun, K. Sewald, S. Wronski, Hannover, Germany, p.A4040**
- P1250 Effect of B Lymphocyte Depletion on Lymphoid Neogenesis Induced by Persistent Staphylococcus Aureus Bronchopulmonary Infection in Mice/L. Regard, C. Martin, B. Milcent, I. Fajac, J.-L. Teillaud, S. Siberil, P.-R. Burgel, Paris, France, p.A4041**

Facilitator: S.T. Qureshi, MD, Montreal, Canada

- P1251 Role of Mitogen Activated Protein Kinase Kinase Three (MKKK3) in Influenza A Infection/J.O. Joerns, P.J. Lee, P. Mannam, A. Srivastava, J.L. Koff, Y. Sun, M. Haslip, A.M. Mullenos, New Haven, CT, p.A4042**
- P1252 Obesity Is Associated with Increased Neutrophil Recruitment to and Impaired Neutrophil Clearance from the Airspace During H1N1 Influenza Infection/M. Rincon, M. Porto, L. Hoyt, S. Ventrone, N. Ubags, M.C. Antkowiak, B.T. Suratt, Burlington, VT, p.A4043**
- P1253 Mitochondrial Reactive Oxygen Species in Lung Epithelial Cells Are Induced by Oligodeoxynucleotides in a MyD88 and TRAF6-Independent Matter/M.M. Leiva-Juarez, V.V. Kulkarni, X. Wang, S.S. Bupapanapadu, S. Batres, S.E. Evans, Houston, TX, p.A4044**



- P1254 Regulation of Proinflammatory Cytokine by Vitamin B2 in Influenza A/H5N1 Virus Infected Human Alveolar Epithelial Cells and Macrophages/M.C.W. Chan, R.W.Y. Chan, M.M.T. Ng, R.H.H. Ching, J.S.M. Peiris, Hong Kong, Hong Kong Prc, p.A4045**
- P1255 Chitotriosidase Regulates Bacterial Dissemination and Inflammation in Klebsiella Pneumoniae Lung Infection/L. Sharma, W. Liu, C.R. Marion, S.W. Lee, C.J. Britto-Leon, J. Elias, C.S. Dela Cruz, New Haven, CT, p.A4046**
- P1256 Mechanisms of Defense After Pneumonia Resolution: Heterotypic Humoral Immunity/K. Barker, N.M.S. Smith, G.A. Wasserman, E.A. Lipsitz, M.R. Jones, L.J. Quinton, J.P. Mizgerd, Boston, MA, p.A4047**
- P1257 Separate Trafficking Pathways for MR1 Dependent Antigen Presentation of Intracellular Infection Versus Exogenous Antigen/E. Karamouz, M. Harriif, G. Narayanan, A. Worley, D.M. Lewinsohn, Portland, OR, p.A4048**
- P1258 Extracellular Matrix Protects Host From MRSA-Induced Respiratory Infection/Y.P. Di, C. Chen, Q. Lin, C.-H. Liu, N. Remlinger, T. Gilbert, Pittsburgh, PA, p.A7630**

THEMATIC POSTER SESSION

B66 CASE REPORTS: BACTERIAL INFECTIONS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area L, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: M.S. Niederman, MD, New York, NY

- P1126 Septic Thrombophlebitis of Internal Jugular Vein and Septic Lung Emboli as Rare Complication of Acute Tonsillitis/M. Gupta, R. Annam, M. Eng, Long Branch, NJ, p.A4049**
- P1127 The Forgotten Disease: The Case of a Young Man with Lemierre's Syndrome/L.L. Seijo, J. Kileci, P. Walker, New York, NY, p.A4050**
- P1128 Aspirated Corn Kernel Masquerading as an Endo-Bronchial Mass and Causing Recurrent Post-Obstructive Pneumonias/K. Bhatia, S. Kukrety, J.D. Parekh, V. Mehta, A.S. Jhand, I.G. Berim, Omaha, NE, p.A4051**
- P1129 Bronchopleurocutaneous Fistula: Rare Late Sequale of Necrotizing Pneumonia/K. Malik, M.G. Al-Janabi, V. Maddipati, Greenville, NC, p.A4052**
- P1130 Common Infection Mimics a Tumor: Legionella Pneumonia Presenting as a Pulmonary Mass/F. Kukhon, D. Silva-Cantillo, S. Aladwan, K. Alhourani, T. Minami, Pawtucket, RI, p.A4053**
- P1131 Two Cases of Fulminant Community-Acquired Pneumonia Caused by Acinetobacter Baumannii Complex/N. Nishiyama, T. Kinjo, D. Nabeya, S. Haranaga, H. Mikamo, J. Fujita, Nishihara, Okinawa, Japan, p.A4054**
- P1132 A Rare Case of Empyema Thoracis Caused by Listeria Monocytogenes/N. Klinngam, N. Kongploptom, Bangkok, Thailand, p.A4055**
- Facilitator:** R.F. Grossman, MD, Mississauga, Canada
- P1133 Cavitary Pneumonia Due to Salmonella Enteritidis/R. Pillai, K. Doo, J.S. Mendelson, A. Lubinsky, New York, NY, p.A4056**
- P1134 A Unique Presentation to Austrian Syndrome (Meningitis, Pneumonia, and Endocarditis Secondary to Streptococcal Pneumoniae) in a Patient Without Risk Factors/D. Patadia, A. John, D. Johari, Brooklyn, NY, p.A4057**
- P1135 Legionella Pneumonia: A Rare Cause of Rhabdomyolysis/M. Hasan, J. Alukal, R. Mundada, Y.R. Sedhai, Darby, PA, p.A4058**
- P1136 Rothia Mucilaginosa Pneumonia in an Immunocompetent Patient Diagnosed by Bronchoscopy and Fine Needle Aspiration/A. El-bakush, M.Z. Rizwan, B. Kabchi, M. Bowling, Greenville, NC, p.A4059**
- P1137 Lactobacillus, Not so Benign/R. Zulfikar, P. Jain, Clarksburg, WV, p.A4060**
- P1138 Pneumonia Caused by Chryseobacterium Indologenes As a Cause of Prolonged Respiratory Failure After Heart Surgery/B. Hirsh, B. Dolan, K. Parametmani, S.A. Gregory, Wynnewood, PA, p.A4061**
- P1139 Pulmonary Hemorrhage by Leptospirosis/M.M. Perin, S.D. Leiva Aguero, A. Putruele, C.M. Luna, Buenos Aires, Argentina, p.A4062**
- Facilitator:** N.C. Dean, MD, Murray, UT
- P1140 Uncommon Presentation of Acquired Hemophagocytic Lymphohistiocytosis Associated with Legionnaire's Disease/H.-I. Liao, O. Adarkwah, R. Maini, Z. Thet, J. Lanza, Brooklyn, NY, p.A4063**
- P1141 Severe Streptococcus Necrotizing Pneumonia/G. Graves, A. Ataya, H. Alnuaimat, J. Cope, V. Patel, Gainesville, FL, p.A4064**
- P1142 Peptostreptococcus Superinfection as Initial Presentation of Squamous Cell Carcinoma/J. Alderson, S. Velani, C.V. Teba, M.C. Yang, J. Kazakov, Richmond Heights, OH, p.A4065**
- P1143 Multi Drug Resistant Acinetobacter Junii Pneumonia Is a Ventilator Dependent Patient: A Rare Organism in Critically Sick Adults/P. Bansal, V. Kaul, S. Easaw, T. McGarry, Elmhurst, NY, p.A4066**
- P1144 Nocardia Pneumonia, A Diagnosis Conundrum/P. Srivastav, K. Sitaraman, Syracuse, NY, p.A4067**
- P1145 Linezolid Use in Acute Respiratory Distress Syndrome(ARDS) Due to Pulmonary Nocardiosis/J. Virk, K. Yashi, D. Gill, M.P. Paul, Syracuse, NY, p.A4068**
- Facilitator:** C. Feldman, MD, PhD, Johannesburg, South Africa
- P1146 Actinomycosis and Nocardiosis - A Case Series of Rare Infections/R.A.B. De Athayde, R.S. Tartaglia, J.R.B. Oliveira Filho, B.M. Piloto, F.M. Da Costa, R.K.B. Sales, A.N. Costa, Sao Paulo, Brazil, p.A4069**
- P1147 A Rare Case of Empyema Necessitans Caused by Actinomyces Myeri/R. Kumar, A. Desai, Syracuse, NY, p.A4070**



- P1148 Nocardia Pneumonia: A Rare Presentation in the Immunocompromised/K.** Akhtar, B. White, M. Polhemus, Syracuse, NY, p.A4071
- P1149 Actinomycosis in a Patient with Intermittent Hemoptysis and Left Upper Lobe Nodular Opacity/M.** Rondinel Robles, V. Chung, D. Maggiore, Bronx, NY, p.A4072
- P1150 A Rare Case of Pulmonary Nocardia Farcinica in a Patient with AIDS/C.** Onaiwu, L. Sarsam, M. Velagapudi, L. Utley, R. Vivekanandan, Omaha, NE, p.A4073
- P1151 Lurking in the Shadows: Disseminated Nocardia Beijingensis in an Immunocompetent Host/D.** Sese, M. AboHassan, M. Passero, Akron, OH, p.A4074
- P1152 Nocardiosis Mimicking Lung Cancer in a Renal Transplant Recipient/S.** Hameed, A.T. Chua, A. Sadoughi, D.G. Fein, Bronx, NY, p.A4075
- P1153 A Case of Pulmonary Actinomyces Meyeri in a Young Immunocompetent Firefighter/A.** Rajani, R.S. Halabi, E. Libre, Falls Church, VA, p.A4076

Facilitator: M. Vazquez Guillamet, MD, Albuquerque, NM

- P1154 Endobronchial Actinomycosis Plug/A.H.** Alraiyes, P. Tunsupon, K. Harris, Zion, IL, p.A4077
- P1155 Pulmonary Nocardiosis in an Immunocompetent Patient/J.** Martinez-Gonzalez, J. Albors, W. Rodriguez-Cintron, San Juan, PR, p.A4078
- P1156 Non-Resolving Pneumonia: A Case of Nocardia Cyriacigeorgica/A.P.** Noriega Aldave, R. Mantilla, M. Cossio, Roanoke, VA, p.A4079
- P1157 Actinomyces Viscosus Causing Disseminated Disease in a Patient on Methotrexate/A.H.** Siddiqui, S. Habib, A. Saqib, S. Wiesel, M. Chalhoub, Staten Island, NY, p.A4080
- P1158 Disseminated Actinomycosis Masquerading as Metastatic Lung Cancer with Cerebral Metastases/Y.H.** Tan, W. Sim, K.H. Yap, S.K. Goh, Singapore, Singapore, p.A4081
- P1159 Nocardia Niwae: Novel and Deadly/D.** Padmanabhan Menon, J.E. Moss, Jacksonville, FL, p.A4082
- P1160 Adrenocortical Carcinoma Associated Hypercortisolism and Secondary Nocardiosis Presenting with Pulmonary Nodules/M.F.** Siddiqi, L.L. Seijo, Y. Lee, New York, NY, p.A4083

THEMATIC POSTER SESSION

B67 INTERESTING AND UNUSUAL PEDIATRIC CASE REPORTS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area F, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: F. Ogunlesi, MD, Washington, DC

- P633 Rare and Rarer: Pediatric Post-Obstructive Pneumonia from Primary Pulmonary Ewing Sarcoma/S.M.M.** Hawkins, K. Faulk, C.A. Browning, D.R. Liptzin, J.E. Hoppe, A. Treece, J.P. Weinman, T.P. Garrington, P.C. Stillwell, Aurora, CO, p.A4084
- P634 Pulmonary Alveolar Proteinosis: A Rarely Suspected Etiology of Respiratory Distress in an Adolescent Patient with Hematologic Malignancy/G.** Koltsida, J. Piccione, I. Tapia, P. Phinzy, Philadelphia, PA, p.A4085
- P635 Novel Approach to Inflammatory Myofibroblastic Bronchial Tumor: A Case Report/G.** Koltsida, J. Piccione, I. Tapia, P. Phinzy, Philadelphia, PA, p.A4086
- P636 Lymphangiography as Treatment for Pulmonary Lymphangiectasia in a Patient with Noonan Syndrome/T.** Bui, D. Ezmigna, M. Abu-Hasan, S. Delgado, Gainesville, FL, p.A4087
- P637 Right Ventricle to Pulmonary Artery Conduit Change with Nuss Operation for Relieving the Compression of the Extracardiac Conduit and the Coronary Arteries/S.** Kim, P.J. Choi, E.-J. Kang, Y.-S. Lee, Busan, Korea, Republic of, p.A4088

Facilitator: H. Jalou, MD, Indianapolis, IN

- P638 The Novel Use of SpyGlass Guided Cryotherapy in an Infant with Plastic Bronchitis/E.** LaFond, S.W. Bullick, K. Nandalike, N. Stollenwerk, S. Urayama, S. Mateev, K. Yoneda, Sacramento, CA, p.A4089
- P639 Unilateral Recurrent Pneumothoraces in a Teenager with Pleurodesis/D.E.** De Angel Sola, R. Gill, New Haven, CT, p.A4090
- P640 Recurrent Left-Sided Lung Consolidation and Pneumonia/S.** Kilaikode, A. Jichlinski, A.C. Koumbourlis, Washington, DC, p.A4091
- P641 A Teenager with Chronic Cough and Multiple Cavitary Lung Lesions/F.** Neemuchwala, A.P. Popova, Ann Arbor, MI, p.A4092
- P642 A Case Report of a 10-Year-Old Boy with Pulmonary Paraganglioma/L.** De Keyzer, S. Gammons, J. Wang, G. Shah, S. Nair, Dallas, TX, p.A4093

Facilitator: E. Belteton, MD, Las Victorias, Guatemala

- P643 Inflammatory Myofibroblastic Tumor of the Lung Presenting as an Incidental Pulmonary Nodule in a Wheezy Infant/H.** Hamdan, P. Schochet, Dallas, TX, p.A4094
- P644 High Flow Nasal Cannula and Aerosolized Morphine to Treat Symptomatic Dyspnea During End-of-Life Care/S.E.** Morgan, S. Mosakowski, K. Valentino, K. King, M. Brown, G.M. Mutlu, W.F. Parker, Chicago, IL, p.A4095
- P645 Respiratory Distress and Hypoxemia in an Asthma Patient? Tracheal Mass Patient Report/S.M.** Restrepo-Gualteros, I. Molina-Ramirez, A. Parra, M. Villamil-Osorio, Bogota, Colombia, p.A4096
- P646 Use of Autologous Blood Patch for Prolonged Air Leak in Spontaneous Pneumothoraces in the Pediatric Population/V.** Pathak, C. Quinn, Raleigh, NC, p.A4097



- P647 Uremic Pleuritis: An Unusual Case of Recurrent Pleural Effusions in a Renal Transplant Adolescent/M.D. McGraw, C. Galambos, J.W. Goebel, D.A. Partrick, P.C. Stillwell, Aurora, CO, p.A4098**
- P648 Hypothermia and Acute Heart Failure in an Infant: Pseudo-Cyanide Syndrome?/J.S. Baird, New York, NY, p.A4099**
- P649 Just Say No to Aspirating Styrofoam: A Collaborative Approach to Removal of a Difficult Foreign Body/K.E. Powers, E. Rodriguez, D. Mener, N.M. Dalesio, P. Zeitlin, Baltimore, MD, p.A4100**
- P650 Down Syndrome and Subclavian Aberrant Artery: A Case Report/J. Caceres, S.M. Restrepo, Bogota, Colombia, p.A4101**
- P651 Congenital Lobar Emphysema Intervention Decision in Infant with Complex Congenital Heart Disease/B.S. Haughey, R.I. Kylat, Tucson, AZ, p.A4102**
- P652 Congenital Heart Disease Associated Trisomy 21 with Complete Tracheal Rings/B.S. Haughey, R.I. Kylat, Tucson, AZ, p.A4103**
- P653 Persistent Cough and Post Obstructive Bronchitis Due to a Paratracheal Bronchogenic Cyst/C. Arevalo-Marcno, S. Arevalo, D. Brito-Guzman, Philadelphia, PA, p.A4104**

THEMATIC POSTER SESSION

B68 CARDIOVASCULAR DISEASE IN THE PICU

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area F, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: E. Carter, MD, Mesa, AZ

- P655 The Use and Outcomes of Long-Term Non-Invasive Ventilation in Infants/P.K. Bedi, K. Dehaan, M. Castro-Codeal, J.E. MacLean, Edmonton, Canada, p.A4105**
- P656 Validating Biomarker Phenotyping for Triage of Sepsis to the Pediatric Intensive Care Unit in Children Age 1 Month to 17 Years/B. Mickiewicz, G. Thompson, J. Blackwood, C.N. Jenne, B. Winston, H.J. Vogel, A.R. Joffe, Calgary, Canada, p.A4106**
- P657 Heart Rate Variability of Extremely Preterm Infants Receiving Continuous Positive Airway Pressure and High Flow Nasal Cannula Immediately After Extubation/S. Latremouille, L. Kanbar, P. Lamer, S. Rao, W. Shalish, R. Kearney, G. Sant'Anna, Montreal, Canada, p.A4107**
- P658 Influence of Endothelin Receptor Antagonist for the Development of Thyroid Dysfunction in Patients with Childhood-onset Pulmonary Arterial Hypertension/T. Nakayama, S. Takatsuki, M. Satoh, K. Aso, S. Ikehara, H. Matsuura, T. Saji, Tokyo, Japan, p.A4108**

- P659 Physical Activity and Cardiorespiratory Fitness in Subjects After Corrective Surgery for Tetralogy of Fallot/A. Frassanito, R. Nenna, A. Favoriti, C. Lambiase, V. Rizzo, L. Petrarca, F. Midulla, G. Tancredi, Rome, Italy, p.A4109**

Facilitator: C. Towe, MD, Cincinnati, OH

- P660 Usefulness of Non-Invasive Cardiac Monitoring Guide in Management Fluid Refractory Pediatric Septic Shock/S. Hantragool, C. Thongnual, J. Deerojanawong, S. Sritippayawan, N. Prapphal, R. Samransamruajkit, Bangkok, Thailand, p.A4110**
- P661 Lung Biopsy Findings in Children with Severe Pulmonary Hypertension Which Is Associated with but Unexplained by Coexisting Congenital Systemic to Pulmonary Shunt: Implications into the Role of Acute Vasodilator Testing in Operability/H. Sawada, H. Ohashi, S. Otsuki, N. Yodoya, H. Hayakawa, T. Konuma, H. Shimpo, K. Maruyama, Y. Mitani, M. Hirayama, Mie, Japan, p.A4111**
- P662 A Feasibility Study of Continuous Neurally Adjusted Non-Invasive Ventilation (NeuroPAP) in Preterm Newborns/M.-E. Rochon, G. Lodygensky, S. Essouri, C. Sinderby, J. Beck, G. Emeriaud, Montreal, Canada, p.A4112**
- P663 Respiratory Morbidity 6 Months After Life - Threatening Respiratory Syncytial Virus Lower Respiratory Tract Infection/E. Vrijlandt, D. Wolthuis, W. Stalman, M. Van Smaalen, M.C.J. Kneyber, Groningen, Netherlands, p.A4113**
- P664 Esophageal Balloon Inflation Volume Significantly Affects Transpulmonary Pressure Measurements in Children/J. Hotz, C. Sodehani, J. VanSteenbergen, R.G. Khemani, C.J.L. Newth, Los Angeles, CA, p.A4114**
- P665 Chloral Hydrate Enteral Infusion for Sedation in Ventilated Children: The CHOSEN Pilot Study/A.R. Joffe, J. Hogan, C. Sheppard, G. Tawfik, J. Duff, G. Garcia Guerra, Edmonton, Canada, p.A4115**

Facilitator: P. Sammut, MD, Omaha, NE

- P666 Bronchoscopic Management of Central Airway Obstruction in Children Underwent Congenital Heart Surgery/L. Dalar, Y. Abul, E. Egilmez Morkoc, A.V. Ozturk, Z. Tuncel, A.R. Karaci, E. Pektok, Istanbul, Turkey, p.A4116**
- P667 Endoscopic Management of Pediatric Laryngotracheal Stenosis Using Coblation/G. Nayak, R.S. Virk, Chandigarh, India, p.A4117**
- P668 The Role of Flexible Bronchoscopy with Bronchoalveolar Lavage in Pre-Operative Evaluation for Laryngotracheal Reconstruction in Children/G. Vazquez Garcia, T. Giordano, K. Moran, I.N. Jacobs, J. Piccione, Philadelphia, PA, p.A4118**
- P669 Physician Use of Steroids in Pediatric Shock: Comparison of Data Obtained from a Survey Versus a Retrospective Chart Review/A. Liu, K. Menon, Ottawa, Canada, p.A4119**
- P670 Cardiac Disease Independently Associated with Increased Mortality After Pediatric Tracheostomy/A.R. Strang, J. Briddell, P. Barth, U. Shah, A. Chidekel, Wilmington, DE, p.A4120**



THEMATIC POSTER SESSION

B69 WHEN KIDS CANNOT SLEEP (OR BREATHE)**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area F, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** I. Sami-Zakhari, MD, Washington, DC**P672 Effect of a Combination of Dexmedetomidine and Ketamine Anesthesia on the Upper Airway Caliber in Normal Children/G.** Mylavarapu, R. Fleck, R. Subramanyam, M. Frimpong-Manso, R. Amin, M.A. Mahmoud, Cincinnati, OH, p.A4121**P673 Alteration of Heart Rate Variability in Boys with Duchenne Muscular Dystrophy/J.** Pascoe, K. McConnell, M. Hossain, G. Huang, H. Sawanani, T. Dye, R. Amin, N. Simakajornboon, Cincinnati, OH, p.A4122**P674 Use of pneuRIP™: A Novel Respiratory Inductance Plethysmography Monitor in Assessing Lung Function in Children with Neuromuscular Disease/A.R.** Strang, S. Balasubramaniam, R. Heinle, T. Rahman, T.H. Shaffer, Wilmington, DE, p.A4123**P675 Inspiratory-Expiratory Differences in Respiratory System Reactance and Resistance as Measured by Forced Oscillometry in Children with Cystic Fibrosis and Asthma/S.** Krishnan, A.J. Dozor, Valhalla, NY, p.A4124**P676 Correlation Between Volume- and Flow-Related Pulmonary Function Outcomes in Patients with DMD/O.** Mayer, E. Henricson, M. Leinonen, J. Karafilidis, C. McDonald, G. Buyse, Philadelphia, PA, p.A4125**P677 Prognostic Value of Cardiopulmonary Exercise Testing in Pediatric Pulmonary Arterial Hypertension/H.** Zhang, L.-T. Wang, A. Jiang, S.-J. Zhang, T.-Y. Lian, Z.-C. Lv, Y. Wu, X.-Y. Yang, Z.-C. Jing, Shanghai, China, p.A4126**Facilitator:** S. Konstantinopoulou, MD, Abu Dhabi, United Arab Emirates**P678 Are Home Sleep Studies Useful in Diagnosing Obstructive Sleep Apnea in Children with Down Syndrome?/N.** Bas Ikizoglu, E. Kiyan, B. Polat, B. Karadag, R. Ersu, Istanbul, Turkey, p.A4127**P679 Peak Cough Flow Measurements in Children with Neuromuscular Disorders, 5 Years of Experience at Large Tertiary Children Hospital/N.** Kotwal, G. Nino, G. Perez, Washington, DC, p.A4128**P680 Ancestry-Weighted Pulmonary Reference Equations for Puerto Rican Children/J.R.** Rodriguez-Santana, J. Witonsky, C.R. Gignoux, R. Kumar, M. Pino-Yanes, M.A. Seibold, S.S. Oh, E.G. Burchard, J. Galanter, S. Sen, San Juan, PR, p.A4129**P681 Pulmonary Reference Equations for Puerto Rican Children/J.R.** Rodriguez-Santana, E. Forno, J. Liang, J. Witonsky, A. Zeiger, R. Kumar, M. Pino-Yanes, S.S. Oh, C.R. Gignoux, M.M. Cloutier, E. Acosta-Perez, A. Colon-Semidey, M. Alvarez, Y.-Y. Han, G. Canino, E.G. Burchard, J. Galanter, J.C. Celedon, S. Sen, San Juan, PR, p.A4130**P682 Body Mass Index and Sleep in Nigerian Children/A.O.** Fagbohun, A.E. Orimadegun, J.O. Yaria, Ibadan, Nigeria, p.A4131**P683 Effectiveness of Supraglottoplasty for Correction of Neonatal Sleep Apnea Due to Laryngomalacia/A.** Bandyopadhyay, J.E. Slaven, H. Muston, B.H. Matt, A. Daftary, Indianapolis, IN, p.A4132**P684 Sleep Disorders in Children with Down Syndrome at 2,640 Meters Above Sea Level/N.** Isaza, A.M. Posada, O.P. Panqueva, M.A. Rondon-Sepulveda, P. Hidalgo, Bogota, Colombia, p.A4133**Facilitator:** S. Bhargava, MD, Palo Alto, CA**P685 Transcatheter Potts Shunt Creation in Children: Technical Data and Mid Term Results/S.G.** Malekzadeh Milani, F. Sitefane, A. Sizarov, C. Mirabile, I. Szezepanski, M. Lenoir, D. Khraiche, M. Levy, D. Bonnet, Y. Boudjemline, Paris, France, p.A4134**P686 Auto-Adjustable Positive Airway Pressure Versus Polysomnographic Titration in Childhood Obstructive Sleep Apnea/R.** Opasatian, A. Preutthipan, Bangkok, Thailand, p.A4135**P687 Neck Circumference Percentile as a Predictor of Obstructive Sleep Apnea in Children/P.** Vora, S. Bhati, A. Minhas, S. Melin, M. Kalra, Dayton, OH, p.A4136**P688 Peri-Operative Outcomes of Congenital Central Hypoventilation Syndrome Patients Undergoing General Anesthesia/G.Y.** Chang, A. Karnwal, T. Salazar, S.S. Kun, J. Ellashek, C. Shin, J.G. McComb, T.G. Keens, I. Perez, Los Angeles, CA, p.A4137**P689 Prevalence of Obstructive Sleep Apnea in Preschool Children with Recurrent Wheeze/N.** Rivera, J.A. Castro-Rodriguez, S. Caussade, M. Morales, R. Donaire, A. Moya, P. Brockmann, C. Flores, Santiago, Chile, p.A4138**P690 Obstructive Sleep Apnea in Obese Children and Adolescents with and Without History of Snoring/E.** Concepcion, P. Gummalla, H. Lee, New York, NY, p.A4139**P691 Sleep Problems in Children with Neurodevelopmental Disorders/M.** Ramagopal, T. Mathews, S. Pattanaik, M. Rajan, New Brunswick, NJ, p.A4140**Facilitator:** H. Bandla, MD, Milwaukee, WI**P692 Very Severe Obstructive Sleep Apnea in Otherwise Healthy Children: Demographics, the Effect of Adenotonsillectomy and Risk Factors for Persistence/H.** Hamdan, A. Isaiah, R. Johnson, K. Naqvi, R. Mitchell, Dallas, TX, p.A4141**P693 National Project to Evaluate the Awareness, Diagnosis and Treatment of Sleep Disordered Breathing in Children in Italy Organized Within the Italian Society of Paediatric Pulmonology (SIMRI)/L.M.** Nasetti, M.G. Paglietti, L. Brunetti, L. Masini, L. Nespoli, A.C. Niespolo, R. Cutrera, Varese, Italy, p.A4142**P694 Pulmonary Function Testing Via Forced Deflation Flow-Volume Curve Machine in Expired Swine/T.** Salvador, L. Leatherbury, K. Cleary, P.J. Shukla, I. Sami-Zakhari, R. Greffe, G. Crowder, A. Bangoura, A.C. Koumbourlis, Washington, DC, p.A4143**P695 Validation of GLI-2012 Spirometry Reference Values in Italian Preschool Children/E.** Lombardi, G. Giannini, M. Bacciarini, C. Calogero, Florence, Italy, p.A4144



- P696 Outcomes Following Adenotonsillectomy in Children with Moderate to Severe Obstructive Sleep Apnea/M.V. Bautista, A. Wise, Washington, DC, p.A4145**
- P697 Polysomnographic Findings and Predictors of Central Apnea Event in Patients with Apparent Life-Threatening Event (Alte)/Brief Resolved Unexplained Events in Infants (Brue) in at 8,660 Feet Above Sea Level/S.M. Restrepo-Gualteros, T. Patino-Patino, C. Rodriguez-Martinez, E. Osuna, G.R. Nino, Bogota, Colombia, p.A4146**
- P698 Exercise Capacity Among Survivors of High-Risk Neuroblastoma/A. Stone, D. Friedman, S. Worgall, B. Kushner, S. Wolden, S. Modak, M. LaQuaglia, X. Wu, N.-K. Cheung, C.A. Sklar, New York, NY, p.A4147**
- P699 The Physiological Profile of Rett Syndrome: Linear and Nonlinear Measures of Heart Rate Variability from In-Home Ambulatory Recordings Are Dependent on Genotype Functional Classes/M.S. Carroll, D.E. Weese-Mayer, Chicago, IL, p.A4148**

Facilitator: E.B. Gauda, MD, Baltimore, MD

- P700 Polysomnography Provides Useful Clinical Information in the Liberation from Respiratory Technology/A. Bashir, J. Henningfeld, N. Thompson, L. D'Andrea, Milwaukee, WI, p.A4149**
- P701 Critical Alarm Safety in the Pediatric Inpatient Setting: Increasing Appropriate Utilization of Respiratory Monitoring/M. Mathew, L. Quintos, K. McKillop, H. Schulman, M. Pirzada, Mineola, NY, p.A4150**
- P702 Pulmonary Function Associated with Changes in Body Mass Index in a Cohort of Adolescents in Mexico City. Definitive Results Along 7 Years/L. Hernandez Cadena, J.C. Cruz, A. Barraza-Villarreal, H. Moreno-Macias, M.C. Escamilla Nunez, B. Del Rio Navarro, Cuernavaca, Morelos, Mexico, p.A4151**
- P703 A Snapshot of Safe Infant Sleep Practices in the Pediatric Acute Care Setting/A. Chidekel, E. Marriner, H. Chidekel, J. Marriner, Wilmington, DE, p.A4152**
- P704 Critical Evaluation of Scientific Content in Pediatric Respiratory Guidelines in China/M. Jiang, X. Zhou, F. Deng, L. Liao, W. Guan, Guangzhou, China, p.A4153**
- P705 Pediatric Pulmonology Education in Italian Residency Programs/M.E. Di Cicco, V. Caldarelli, S. Tagliati, D. Vecchio, R. Raschetti, R. Cutrera, Pisa, Italy, p.A4154**

THEMATIC POSTER SESSION

B70 MY NAME IS ... PULMONARY VASCULAR DISEASE CASE REPORTS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Area G, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
 12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: K.A. Fagan, MD, Mobile, AL

- P715 A Case of Refractory Hypoxemia/S. Hossain, S. Baig, O. Pistun, New Brunswick, NJ, p.A4155**
- P716 Rapid Development of Pulmonary Hypertension and Right Ventricular Failure Due to Large Vessel Intravascular Talcosis in an Intravenous Drug User/J. Cumplido, T. Amass, B. Aswad, C.E. Ventetulo, J. Klinger, M. Whittenhall, Providence, RI, p.A4156**
- P717 The Successful Transition from Oral to Intravenous Prostacyclin Therapy in a Functional Class IV WHO Group 1 Pulmonary Arterial Hypertension Patient/A.M. Gibbs, H. Poonyagariyagorn, Portland, OR, p.A4157**
- P718 Catheter-Directed Thrombolytic Therapy for Rapid Improvement of Right Ventricular Function in the Setting of Blood Loss Anemia Due to Malignancy/A.A. Rudkovskaia, E. Nargileci, G. Lancaster, E.R. Tuohy, Bridgeport, CT, p.A4158**
- P719 Pulmonary Arteriovenous Malformation-Associated Pulmonary Hypertension in a Patient with Hereditary Hemorrhagic Telangiectasia: Therapeutic Considerations/V.A. Eyvazian, J.E. Prasso, R. Saggar, Los Angeles, CA, p.A4159**
- P720 A Unique Case of a Pulmonary Embolism that Occured After Endothermal Heat-Induced Thrombosis After Endovenous Laser Ablation/A. Pelinescu, S. Yadam, K. Hu, N. Sacca, Pittsburgh, PA, p.A4160**
- P721 Extensive Pulmonary Embolism with Patent Foramen Ovale: Unique Presentation Highlights Importance of Multidisciplinary Management Strategies/A. Desmett, R. Richard, A. Kadl, Charlottesville, VA, p.A4161**
- P722 Pulmonary Hypertension Due to Partial Anomalous Pulmonary Venous Return/V.K. Patel, N.L. Ko Ko, H. Bhatti, S.K. Ali, Orlando, FL, p.A4162**
- P723 Pulmonary Hypertension in the Setting of ANCA Associated Vasculitides: A Cautionary Tale/R.A. Gersten, E. Yogiaveetil, A. Vinayak, Washington, DC, p.A4163**

Facilitator: K. Chin, MD, Dallas, TX

- P724 Hepatopulmonary Syndrome and Telomerase (TERT) Mutation: A Rare Association/T. Kukkadapu, S. Gupta, J. Gossage, Augusta, GA, p.A4164**
- P725 A Rare Cause of Pulmonary Hypertension/J. Ramos-Rossy, E. Gonzalez, W. Rodriguez-Cintron, E. Adorno-Fontanez, San Juan, PR, p.A4165**
- P726 A Sticky Situation: Pulmonary Embolism with Mobile Right Atrial Thrombus/M.J. Hellmann, E. Palmer, J. Elwing, Cincinnati, OH, p.A4166**
- P727 Air in the Wrong Places: Massive Embolism/R. Mantilla, A.P. Noriega Aldave, S. Nepal, E. Rubio, F. Siddiqui, Roanoke, VA, p.A4167**
- P728 33 Year Old Man with Hemoptysis: A Deeper Look into Unilateral Atresia of Pulmonary Artery/C. Riskey, F.M. West, N. Narula, A. Sanders, New York, NY, p.A4168**



- P729** **Cardiogenic Shock Reversal in Severe Pulmonary Hypertension After Arteriovenous Fistula Ligation**/M. Ayache, M. Matta, R. Schilz, Cleveland, OH, p.A4169
- P730** **Pulmonary Hemorrhage Following Percutaneous Edge to Edge Mitral Valve Repair**/M. Ayache, M. Mayuga, J. Kazakov, Cleveland, OH, p.A4170
- P731** **Thrombolytic Therapy in Patients with Atrial Thrombus and Submassive Pulmonary Embolism**/A. Patel, G. Pierson, J. Gordon, Pueblo, CO, p.A4171
- P732** **Transfusion Related Circulatory Overload (TACO): Case Report and Review of Literature**/P. Shrestha, K. Bath, R. Ayinla, New York, NY, p.A4172

Facilitator: J.R. Klinger, MD, Providence, RI

- P733** **Pulmonary Vein Thrombosis Due to IVIG Use in Guillain-Barre Syndrome**/Y. Kavar, D. Starosta, Detroit, MI, p.A4173
- P734** **Which Came First, the PAH or the VSD?**/N.M. Pradhan, R. Esteite, K.E. Roberts, Boston, MA, p.A4174
- P735** **An Unusual Mimic of Chronic Thromboembolic Pulmonary Hypertension**/K. Gill, K. Kerr, V. Balasubramanian, Fresno, CA, p.A4175
- P736** **Pulmonary Arterial Hypertension and Acute Cervical Myelopathy - Nightmare Scenario with Fairytale Ending**/K. Gill, V. Balasubramanian, Fresno, CA, p.A4176
- P737** **Thrombus in Transit Complicating Pulmonary Embolism**/N. Tyagi, D. Osahan, A. Desai, S. Desouza, Mineola, NY, p.A4177
- P738** **A Novel Cause of Platypnea Orthodeoxia Syndrome**/C. Cann, A. Cords, M. Gordon, Philadelphia, PA, p.A4178
- P739** **Challenges in Clinical Decision Making: A Patient with Type B Aortic Dissection Presenting with Pulmonary Embolism**/O. Bhatti, A.S. Jhand, N. Alkhafaji, A. Mooss, Omaha, NE, p.A4179
- P740** **Cardiac Tamponed Masking as Decompensated RV Failure in a PH Patient**/J.C. Onyenekwe, R. Awdish, Detroit, MI, p.A4180

Facilitator: A.J. Bryant, MD, Gainesville, FL

- P741** **The PE that Never Was: A Rare Case of Combined PVOD and Pulmonary Vein Thrombosis**/K. Albujoq, R. Awdish, S. Hegab, Detroit, MI, p.A4181
- P742** **A Case Report of Swyer-James-Macleod Syndrome with Unusual Radiological Findings**/V. Terla, F. Hafeez, J. McClain, G.R. Pesola, New York, NY, p.A4182
- P743** **Right Heart Catheterization: An Alternative Route in a Diagnostic Dilemma**/S.A. Suliman, M.M. Howsare, K. El-Kersh, M.P. Flaherty, J.S. Smith, Louisville, KY, p.A4183
- P744** **May-Thurner Syndrome: An Anatomical Cause of Recurrent Venous Thromboembolism**/K. Bhatia, A.S. Jhand, V. Mehta, S. Windish, J.D. Parekh, S. Kukrety, I.G. Berim, Omaha, NE, p.A4184
- P745** **Chronic Massive Thromboembolic Pulmonary Embolism Secondary to Unidentifiable Thrombophilia**/A.H. Alraiyes, Y. Fu, Zion, IL, p.A4185

- P746** **Pulmonary Hypertension Associated with Swyer-James MacLeod Syndrome: A Case Report**/C.M.P. De Moura, R.P. Rodrigues, K.S. Nunes, J.V.T. Rech, N.M. Matsumoto, V.D.P. Urbano, Florianopolis, Brazil, p.A4186
- P747** **Therapeutic Challenges of Severe Pulmonary Hypertension in the Setting of Pulmonary Artery Stenosis**/I.S. Bazan, K. Toosy, J. Asnes, W.H. Fares, New Haven, CT, p.A4187
- P748** **Right Ventricular Tumor Thrombus Extending from Caudate Lobe of the Liver**/S. Toom, P. Singh, V. Shetty, Brooklyn, NY, p.A4188

THEMATIC POSTER SESSION

B71 PULMONARY HYPERTENSION LIFE: ANIMAL MODELS AND EX VIVO STUDIES IN PULMONARY HYPERTENSION

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area G, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: P.M. Hassoun, MD, Baltimore, MD

- P783** **Perinatal Hypoxia Causes Differential Expression of Potassium Channels that Is Gender-Specific**/P.P. Jain, J. Novotna, V. Hampl, J. Herget, Prague, Czech Republic, p.A4189
- P784** **Gender Differences in the Life-Long Effects of Maternal Diabetes on Offspring Pulmonary Circulation**/P.P. Jain, O. Vajnerova, J. Herget, V. Hampl, Prague, Czech Republic, p.A4190
- P785** **Development of a Mouse Model of Secondary Pulmonary Hypertension: Novel Application of a Model of Ischemic Heart Failure**/J.L. Philip, D.M. Tabima, T.A. Hacker, N.C. Chesler, Madison, WI, p.A4191
- P786** **Inhibition of Fatty Acid Amide Hydrolase (FAAH) Prevents Pulmonary Hypertension Via Activation of CB2 Receptors**/D. Wenzel, M. Matthey, E. Silantjeva, L. Wohn, B.K. Fleischmann, Bonn, Germany, p.A4192
- P787** **KAR5585, a First-in-Class Oral Tryptophan Hydroxylase 1 (TPH1) Inhibitor as a Novel Candidate for the Treatment of Pulmonary Arterial Hypertension**/V. Paralkar, P. Pearson, J.W. Mason, S.-X. Li, S. Curry, R. Aiello, P.U. Feig, New Haven, CT, p.A4193
- P788** **Western Diet Induces the Development of Pulmonary Hypertension in LDL-Receptor Deficient Mice: A Therapeutic Role of ApoA-I Mimetic Peptide 4F**/S. Umar, C.M. Cunningham, S. Moazeni, G. Ruffenach, C. Eshraghi, M. Vaillancourt, S. Mottahedan, A. Centala, S. Reddy, M. Navab, M. Eghbali, Los Angeles, CA, p.A4194



- P789 New Potential Pathways of Pulmonary Arterial Hypertension (PAH) in Rodent Models: Survivin Pathway/I.** Blanco, E. Ferrer, T. Paul, O. Tura-Ceide, V.I. Peinado, J.A. Barbera, Barcelona, Spain, p.A4195
- P790 Mitomycin Induces Pulmonary Hypertension and Pulmonary Vascular Remodeling in Rabbits/R.** Quarck, A. Wagenaar, B. Tielemans, A. Hautefort, C. Belge, D. Montani, M. Delcroix, F. Antigny, F. Perros, Leuven, Belgium, p.A4196
- P791 Tadalafil Mitigates Inhaled Oxidant-Induced Pulmonary and Systemic Hypertension, Fetal Growth Restriction, and Death in Pregnant Mice/J.A.** Lambert, M. Carlisle, L. Dell'Italia, D. Ford, R. Patel, W. Bradley, T. Jilling, S. Matalon, Birmingham, AL, p.A4197
- P792 Dual ETA/ETB, But Not ETA-Selective Endothelin Receptor Inhibition Attenuates α -Naphthylthiourea - Induced Vascular Leakage and Pulmonary Hypertension/S.P.** Tofovic, R. Zhang, O. Rafikova, M. Iglarz, J. Hu, Pittsburgh, PA, p.A4198
- P793 Effects of Fructose and Sucrose on the Development of Pulmonary Hypertension in Rats/J.** Yates, H. Austin, L. Papazian, L. Villegas, M. Le, Aurora, CO, p.A4199
- P794 Pharmacokinetic (PK) Comparison Between Nebulized and Dry Powder INS1009 in Rats/Z.** Li, R. Chapman, V. Malinin, M. Corboz, H. Gauani, C. Laurent, H. Yin, D. Salvail, W. Perkins, A. Plaunt, Bridgewater, NJ, p.A4200
- P795 Pulmonary Hypertension Is Associated with White Matter and Microvascular Changes in the Brain/S.** Sarji, N. Khanlou, G. Ruffenach, S. Moazeni, A. Said, S. Umar, M. Eghbali, Los Angeles, CA, p.A4201
- P796 RP5063 Mitigates the Development and Severity of Sugen-Hypoxia-Induced Pulmonary Arterial Hypertension in Rats/L.** Bhat, M. Cantillon, A. Bouchard, D. Salvail, Santa Clara, CA, p.A4202
- P797 Chronic Treatment of Nintedanib Ameliorates the Development of Pulmonary Hypertension in Rat Model/T.** Takeo, T. Nagaoka, Y. Suzuki, T. Yoshida, E. Kuwasaki, S. Kuriyama, Y. Morio, K. Takahashi, Tokyo, Japan, p.A4203
- Facilitator:** S. Bonnet, PhD, Quebec, Canada
- P798 Cardiac Magnetic Resonance Imaging in the SU-5416/Hypoxia/Normoxia Rat Model of Pulmonary Arterial Hypertension/A.J.** Mazer, S.A. Anderson, S. Gairhe, J. Holden, M.A. Solomon, R.L. Danner, J.M. Elinoff, Bethesda, MD, p.A4204
- P799 Neutralization of CXCL12 Reverses Established Pulmonary Hypertension in the Sugen-Hypoxia Rat Model/J.** Bordenave, R. Thuillet, L. Tu, C. Phan, G. Simonneau, A. Huertas, M. Hibert, D. Bonnet, M. Humbert, N. Frossard, C. Guignabert, Le Plessis-Robinson, France, p.A4205
- P800 Characterizing Mid-Level Pulmonary Arteries During the Progression of MCT-Induced PAH/D.** Valdez-Jasso, E.R. Pursell, D. Velez-Rendon, Chicago, IL, p.A4206
- P801 Studies on the Functional Status of the Hypertensive Pulmonary Circulation: Insights Gained Through Retroperfusion/T.** Stevens, I.F. McMurtry, C. Zhou, Mobile, AL, p.A4207
- P802 Heart Failure-Induced Diaphragmatic Weakness Is Prevented with Central Acting Therapeutics that Alleviate PERK Upregulation and EIF2 α Phosphorylation/A.** Foster, M.J. Platt, A. Eadie, N. Romanova, C. Murrant, K. Brunt, J.A. Simpson, Guelph, Canada, p.A4208
- P803 Pulmonary Hypertension and Vascular Remodeling in Mice Exposed to Crystalline Silica/I.N.** Zelko, J.X. Zhu, J.D. Ritzenthaler, J. Roman, Louisville, KY, p.A4209
- P804 Sirt1 Activity Is Required for the Protective Effects of the Female Sex in the Response to Chronic Hypoxia/M.** Taha, Y. Deng, M.W. McBurney, D.J. Stewart, Ottawa, Canada, p.A4210
- P805 A New Model of Pulmonary Hypertension Induced by Dietary Oxidized Lipids in Wild Type Mice/G.** Ruffenach, S. Umar, C.M. Cunningham, S. Moazeni, V. Grijalva, E.I. O'Connor, A. Ardehali, A. Mahajan, S. Reddy, M. Eghbali, Los Angeles, CA, p.A4211
- P806 Inflammatory and Metabolic Defects Associated with the Expression of Human Cav1 Mutation in Mice/A.** Rathinasabapathy, C. Copeland, C. Moore, S. Shay, S. Gladson, E. Austin, A. Ken Worthy, J.E. Loyd, J.D. West, Nashville, TN, p.A4212
- P807 INS1009, an Inhaled Prodrug Hexadecyl-Treprostinil, Demonstrates Local Pulmonary Vasodilation Activity in Dogs/V.** Malinin, A. Plaunt, Z. Li, H. Gauani, M. Corboz, C. Dziak, W. Perkins, R. Chapman, Bridgewater, NJ, p.A4213
- P808 Immunophenotyping of the Caveolin-1 Knockout Murine Model of Pulmonary Hypertension/S.** Gairhe, C.S. Curran, D.A. Springer, S.A. Anderson, J.M. Elinoff, P. Torabi-Parizi, Bethesda, MD, p.A4214
- P809 Specific O-GlcNAc Modification at Ser-615 Modulates Ser-1177 Phosphorylation of eNOS and Leads to Vascular Dysfunction in Pulmonary Arterial Hypertension/K.** Aulak, J. Barnes, L. Tian, N.E. Mellor, S.A. Comhair, B. Willard, R. Dweik, Cleveland, OH, p.A4215
- P810 Development of a Severe Rat Model of Metabolic Syndrome, Pulmonary Hypertension, and Heart Failure with Preserved Ejection Fraction (PH-HFpEF)/A.R.** Levine, J. Hu, T. Bachman, A.L. Mora, M.T. Gladwin, Y.-C. Lai, Pittsburgh, PA, p.A4216
- P811 MicroRNA-410 Is Downregulated by Hypoxia and VEGF Inhibits Proliferation of Pulmonary Artery Smooth Muscle Cells and Pulmonary Artery Endothelial Cells Via Regulation of Nicotinamide Phosphoribosyl Transferase/H.** Gao, J. Chen, T. Chen, S. Zhao, R.F. Machado, Chicago, IL, p.A4217
- Facilitator:** M. Brown, PhD, PT, Indianapolis, IN
- P812 Tissue Transglutaminase 2 in Pulmonary Arterial Hypertension Vascular Remodeling/N.E.** Mellor, R. Dweik, J. Barnes, Cleveland, OH, p.A4218
- P813 Differential Notch Ligand Signaling Drives the Pulmonary Hypertensive Phenotype/Y.** Zhang, J.R. Gower, P.A. Thistlethwaite, La Jolla, CA, p.A4219
- P814 Sodium Tanshinone IIA Sulfonate Regulates Cytosolic [Ca²⁺] in the Development and Progression of Pulmonary Hypotension/Z.** Wang, Q. Jiang, H. Tang, A. Makino, J.X.J. Yuan, J. Wang, Tucson, AZ, p.A4220



- P815** **The Novel and Selective Prostacyclin Receptor Agonist Selexipag Vasodilates Human Pulmonary Arteries in an Endothelium-Independent Manner and Ameliorates Pulmonary Arterial Hypertension in Rat Models/K.** Kuramoto, C. Fuchikami, K. Kosugi, Y. Honda, M. Oka, K. Kuwamo, Kyoto, Japan, p.A4221
- P816** **Idiopathic Pulmonary Arterial Hypertension Lungs Possess Distinct Inflammatory Profiles/L.M.** Marsh, K. Jandl, M. Bashir, B. Ghanim, W. Klepetko, V. Foris, H. Olschewski, A. Olschewski, G. Kwapiszewska, Graz, Austria, p.A4222
- P817** **Fasudil in Combination with DETA NONOate, Both Formulated in CAR-Modified Inhaled Liposomes, Slows PAH Progression/F.** Ahsan, S. Raut, K. Nahar, Amarillo, TX, p.A4223
- P818** **Inhibition of IL-33 Signaling Prevents Pulmonary Vascular Disease Induced by Respiratory Syncytial Virus/D.** Kimura, J. Saravia, S. Jalgama, R.B. Panday, R. Sullivan, Y. Dahui, S.A. Cormier, Memphis, TN, p.A4224
- P819** **Rho-Kinase Inhibitors Targeted to the Pulmonary Vasculature for Treatment of Pulmonary Hypertension/D.T.** Moretta, S. Hanson, M. Terry, A. Blood, S. Wilson, P. Giri, Loma Linda, CA, p.A4225
- P820** **Small Extracellular Vesicles Are Reduced in Rats with Severe Pulmonary Hypertension/D.** Lachant, A. Light, D. Haight, R.J. White, Rochester, NY, p.A4226
- P821** **Genetic Background (Mouse Strain) as Determinant of the Role of Resistin Like Molecule in the Response to Pulmonary Exposure with Antigen and Urban Fine Dust/G.** Grunig, S.-H. Park, N. Durmus, Tuxedo, NY, p.A4227
- P822** **Enzastaurin Reverses Pulmonary Arterial Hypertension by Targeting the Novel BMPR2 Modifier FHIT/S.** Dannewitz Prosseda, D. Suheendra, X. Tian, J. Kuang, M. Boehm, K. Kuramoto, D. Solow-Cordero, J. Saldivar, E. Austin, J.E. Loyd, K. Huebner, P. Khatri, E. Spiekerkoetter, Stanford, CA, p.A4228
- P823** **Activation on Nuclear Receptor Nur77 Decreases Experimental Pulmonary Hypertension/K.B.** Kurakula, X. Sun, C. Happe, C. De Vries, H.J. Bogaard, M.J.T.H. Goumans, Leiden, Netherlands, p.A4229
- P824** **Elevated Baseline Concentrations of CXCL-9 and -10 Are Associated with Irreversible Vascular Remodeling of the Pulmonary Circulation in Portopulmonary Hypertension/R.H.** Huynh, R. Saggar, N. Li, V. Palchevskiy, N. Patel, Y.Y. Xue, R. Kern, J.P. Lynch 3rd, D.J. Ross, R. Elashoff, S. Weigt, J.A. Belperio, Los Angeles, CA, p.A4230
- P825** **ASK-1 Inhibition Reverses Established Disease in a SUGEN/Hypoxic Rat Model of Pulmonary Hypertension/K.S.** Wilson, H. Buist, G. Jayasekera, J. Liles, G.R. Budas, S. Fairfax, C. Hughes, M. Nilsen, C. Church, M. MacLean, A. Peacock, D. Welsh, Glasgow, United Kingdom, p.A4231

THEMATIC POSTER SESSION

B72 **OTHERS HERE WITH US: CLINICAL FEATURES OF PULMONARY VASCULAR DISEASE I****9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area G, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** S. Mathai, MD, MHS, Baltimore, MD

- P750** **Minority Patients with Pulmonary Arterial Hypertension Present with More Severe Disease at the Time of Diagnosis/A.** Usmani, T. Vergis, A. Ostrower, R.F. Machado, Chicago, IL, p.A4232
- P751** **Discordance Between Pulmonary Capillary Wedge Pressure (PCWP) and Left Ventricular End- Diastolic Pressure (LVEDP): A Challenge in Diagnosing Pulmonary Artery Hypertension (PAH)/A.K.** Chen, I. Ismail-Sayed, S. Penupolu, D. Bandyopadhyay, Danville, PA, p.A4233
- P752** **yEaRNA-RV: Pilot Study to Evaluate the Utility of Equilibrium Radionuclide Angiography in Pulmonary Arterial Hypertension/A.** Light, M. Mackin, R. Schwartz, R.J. White, Rochester, NY, p.A4234
- P753** **Hormonal and Reproductive History in Female Patients with Pulmonary Arterial Hypertension (PAH) Group 1 and Pulmonary Hypertension (PH) Group 2 Disease/Y.** Kate, I.R. Preston, N.S. Hill, K.E. Roberts, Boston, MA, p.A4235
- P754** **SHAPE Submaximal Exercise Testing in Pulmonary Arterial Versus Pulmonary Venous Hypertension/E.** Batchelor, A. Ortegon, F. Torres, K. Chin, S. Bartolome, Dallas, TX, p.A4236
- P755** **Blood Pressure Response to the 6-Minute Walk Test (6MWT) in Group 1 and Group 2 Pulmonary Hypertension/D.** Narayanan, Y. Kate, I.R. Preston, N.S. Hill, K.E. Roberts, Boston, MA, p.A4237
- P756** **Relationship Between Global Longitudinal Strain, Maximal Oxygen and Inspiratory Muscle Training Load in Heart Failure/F.** Pinheiro, S.L. Campos, J.C. Leite, M.F. Pessoa, L. Alcoforado, R. Maia, M.I. Remigio, D.C. Brandao, A. Dornelas De Andrade, Recife, Brazil, p.A4238
- P757** **Clinical Characteristics and Outcomes of Patients with Stage 5 Chronic Kidney Disease Undergoing Renal Transplant Evaluation Who Had Pulmonary Hypertension Documented by Echocardiography/F.A.** Haque, J.G. Ripoll, J.L. Diaz-Gomez, I. Mira-Avendano, C. Landolfo, C.D. Burger, Jacksonville, FL, p.A4239
- P758** **A Prospective Echocardiographic Evaluation of Pulmonary Hypertension in End Stage Renal Disease on Hemodialysis in Argentina: Prevalence and Clinical Significance/J.A.** Mazzei, M.J. Melero, D.J. Pineiro, O. Grosso, S. De Bartolis, M.E. Mazzei, V. Volberg, M. Nadal, J. Bourbotte, F. Canteros, M. Castro, Buenos Aires, Argentina, p.A4240



P759 Correlation Between Estimated Right Atrial Pressure and BNP in Pulmonary Hypertension (CRAB-PH)/S. Samant, B.P. DeBoisblanc, L. Saketkoo, S. Shigeki, F. Helmcke, M.R. Lammi, New Orleans, LA, p.A4241

P760 Pulmonary Arteriovenous Malformations in Hereditary Hemorrhagic Telangiectasia: Cross Sectional Study of 398 Patients from Argentina/E.J. Wainstein, V. Peuchot, M.S. Barrientos, L. Vijande Diaz, G. Olmedo, M. Serra, Buenos Aires, Argentina, p.A4242

Facilitator: M.M. Chakinala, MD, St. Louis, MO

P761 Association Between Treatment of Obstructive Sleep Apnea (OSA) and Improvement in Pulmonary Hypertension (PH)/D.J. De La Zerda, M.K. Godbee, A. Abreu, E. Mendes, Miami, FL, p.A4243

P762 Prognostic Value of Electrocardiogram in Patients with Idiopathic/Hereditary Pulmonary Arterial Hypertension/F. Dardi, N. Tanese, M. Palazzini, E. Gotti, A. Rinaldi, E. Monti, A. Albin, A. Manes, N. Galie, Bologna, Italy, p.A4244

P763 Comparative Outcome of Incident Patients with Pulmonary Hypertension Due to Lung Disease According with the Haemodynamic Classification of the 2015 ESC-ERS Pulmonary Hypertension Guidelines/A. Rinaldi, E. Gotti, F. Dardi, M. Palazzini, E. Monti, A. Albin, N. Tanese, A. Manes, N. Galie, Bologna, Italy, p.A4245

P764 Pulmonary Artery Manifestations in Takayasu Arteritis: A Retrospective Study of China/J. Gong, Y. Yang, R. Miao, K. Huang, Beijing, China, p.A4246

P765 Development of Administrative-Claims Based Algorithms to Identify Patients with Pulmonary Arterial Hypertension/R. Papani, G. Sharma, W. Chan, Y.-F. Kuo, A. Agarwal, A. Duarte, Galveston, TX, p.A4247

P766 Examination of the Interventricular Septum to Discriminate Group 2 from Non-Group 2 Pulmonary Hypertension/J. Fowlkes, A. Hoang, T. Kazecki, G.J. Joseph, F. Helmcke, B.P. DeBoisblanc, L. Saketkoo, S. Saito, A. Vaidya, M.R. Lammi, New Orleans, LA, p.A4248

P767 Insulin Resistance Is Uncommon in Chinese Patients with Idiopathic Pulmonary Arterial Hypertension/Q.-H. Zhao, J.-M. Liu, W.H. Wu, L. Wang, R. Zhang, J. Rong, S. Gong, Shanghai, China, p.A4249

P768 Clinical and Hemodynamic Features of Pulmonary Hypertension Associated with Chronic Myeloproliferative Disorders: A Retrospective Study of Nine Cases/Q.-H. Zhao, L. Wang, J. Rong, S. Gong, J. He, J.-M. Liu, Shanghai, China, p.A4250

P769 Pulmonary Hypertension in Veterans Has a High One-Year Mortality and the REVEAL Equation Overestimates Survival in this Patient Population/M. Jankowich, R. Hebel, J. Jantz, S. Abbasi, G. Choudary, Providence, RI, p.A4251

P770 Hepatopulmonary Syndrome and Portopulmonary Hypertension. Diagnosis and Monitoring in a Outpatient Vascular Disorders Unit/A. Garcia-Ortega, E. Zaldivar Olmeda, A. Torrents Vilar, M. Prado Barragan, R. Lopez-Reyes, Valencia, Spain, p.A4252

P771 Primary Pulmonary Artery Angiosarcoma, Case Report, ROL and CT, TEE, MRI, PET Combo. Can We Improve Diagnostic Yield, so Improve Survival?/S. Rehman, T.P. Vacek, N.S. Khan, A. Ali, M. Taleb, H. Badi, A. Kubbara, D.-A. Hernandez, D.E. Olson, Toledo, OH, p.A4253

Facilitator: A.E. Frost, MD, Houston, TX

P772 Effects of Remifentanyl on Hemodynamic Parameters of Parturients and Neonates' Apgar Scores in Elective Cesarean Section Under General Anesthesia/M. Fathi, M. Khalili, F. Hosseini, Tehran, Iran, p.A4254

P773 Characterization of Hispanics with Pulmonary Hypertension in the US: The Pulmonary Hypertension Association Registry/V. De Jesus Perez, D. Badesch, R.T. Zamanian, J. Fineman, J.R. Klinger, J. Ford, J.W. McConnell, J. Sager, J. Feldman, O. Shlobin, D. Grinnan, T.M. Bull, E. Rosenzweig, L. Santos, T. DeMarco, Stanford, CA, p.A4255

P774 Clinical Characteristics and Echocardiographic Findings of Pulmonary Arteriovenous Malformations/H. Kang, S.H. Lee, Y.J. Lee, Y.-J. Cho, H.I. Yoon, J.H. Lee, C.-T. Lee, J.S. Park, Seoul, Korea, Republic of, p.A4256

P775 Change in Distribution of Pulmonary Blood During Whole Lung Lavage in Patients with Autoimmune Pulmonary Alveolar Proteinosis: A Simulation-Based Study/H. Tsuyuzaki, K. Uchida, Y. Tamai, K. Akasaka, T. Ichiwata, K. Nakata, Y. Inoue, Y. Yamada, Bunkyo-ku, Tokyo, Japan, p.A4257

P776 The Association of Brain Natriuretic Peptide with Various Hemodynamic and Functional Parameters in Patients with Group 1 Pulmonary Arterial Hypertension/S.A. Helgeson, J.S. Imam, C.D. Burger, Jacksonville, FL, p.A4258

P777 Exome Sequencing Reveals a Novel SNP in UCHL1 in Pulmonary Arterial Hypertension/A. Gupta, H.D. Lynn, V. Nair, G. Gupta, A. Cordery, K. Patel, A. Kadakia, K.S. Knox, B.T. Larsen, J. Duarte, F. Rischard, J.G.N. Garcia, J.X.J. Yuan, A.A. Desai, Tucson, AZ, p.A4259

P778 Accuracy of Estimated Pulmonary Artery Pressures on Trans-Thoracic Echocardiogram in Comparison with Pressures Measured on Right Heart Catheterization in a Community Hospital/J.E. Hines, A. Suneja, Z. Sahul, S. Gilani, S. Avula, Ypsilanti, MI, p.A4260

P779 Accuracy of Pulmonary Artery Occlusion Pressure Compared to Left Ventricular End Diastolic Pressure in Initial Pulmonary Hypertension Evaluation/A. Chakravarti, R. Sulica, F. Cefali, J. Fox, D. Misra, New York, NY, p.A4261

P780 Clinical Features and Outcomes of Patients with Sarcoidosis Associated Pulmonary Hypertension at a Tertiary Care Center, Using Pulmonary Vasodilator Medications/T. Dahhan, K. Parikh, N.F. Ruopp, V. Poon, G.-M. Pomann, T. Fortin, V.F. Tapson, S. Rajagopal, Durham, NC, p.A4262

P781 Association of Obesity with Markers of Endothelial Dysfunction and Inflammation in Pulmonary Arterial Hypertension/M.C. Antkowiak, Y. Rao, B.T. Suratt, Burlington, VT, p.A4263



THEMATIC POSTER SESSION

B73 PULMONARY REHABILITATION IN COPD**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area D, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** R. ZuWallack, MD, Hartford, CT

- P448 Health Coaching Reduces COPD Hospitalizations: A Qualitative Study of a Randomized Trial/R. Benzo, C. McEvoy, Rochester, MN, p.A4264**
- P449 COPD Management and Role of the Nurse Coach: Increasing Referrals and Participation in Pulmonary Rehabilitation/C. Hoover, C. Upcraft, J. Plamann, J. Oman, St. Joseph, MN, p.A4265**
- P450 Innovating Pulmonary Rehabilitation to Bring It Closer to Patients: A Community-Based Program/A. Marques, A. Machado, J. Cruz, T. Pinho, A. Oliveira, S. Miranda, H. Melro, L. Andrade, C. Jacome, Aveiro, Portugal, p.A4266**
- P451 Portable Positive Pressure Device to Relieve Dyspnea After Exercise in COPD Patients: A Pilot Study/W. Hardy, A. Cropp, D. Laman, J. Jasko, P. Nisha, Murrysville, PA, p.A4267**
- P452 Feasibility of Home-Based Pulmonary Rehabilitation in Patients with COPD/J.P. Hoult, K.M. Kramer, S. Seifert, R. Benzo, Rochester, MN, p.A4268**
- Facilitator:** F. Cortopassi, PT, RPFT, MBA, New Haven, CT
- P453 Physical Activity, Systemic Inflammation, and Cardiovascular Disease in COPD-OSA/R. Goldstein, C. Fitzgibbons, D.J. Gottlieb, M.L. Moy, Boston, MA, p.A4269**
- P454 Active for Life with COPD: Preliminary Study/J.L. Larson, M.K. Han, E. McAuley, Ann Arbor, MI, p.A4270**
- P455 Do the Cardiac Neuroautonomic Adjustments Reflect Limitation in Activities of Daily Living in Patients with Chronic Obstructive Pulmonary Disease?/A.G. Agnoletto, E.Z. Kabbach, C.I. Monteiro, R. Cabiddu, J.F. Barbosa, A. Borghi-Silva, R.G. Mendes, Sao Carlos, Brazil, p.A4271**
- P456 Management of COPD Via a Clinical Guidance System: 15th Year of a Continuous Improvement Model/B. Tiep, M. Barnett, R. Carter, Monrovia, CA, p.A4272**

Facilitator: E.N. Schachter, MD, New York, NY

- P457 Determinants of Exercise-Induced Quadriceps Fatigue in Patients with COPD/G.F. Sferazza Papa, D. Radovanovic, E.G. Collins, C. Jelinek, A. Kirkpatrick, M. Tobin, F. Laghi, Maywood, IL, p.A4273**
- P458 Can the Results of a Pre-Rehabilitation Cardiopulmonary Exercise Test Predict the Outcomes of a Pulmonary Rehabilitation Program in Chronic Obstructive Pulmonary Disease?/D. Nieri, G. Corona, G. De Cusatis, R. Vargiu, M.A. Roggi, S. Antonelli, S. Santerini, M. Pedreschi, B. Vagaggini, P. Paggiaro, Pisa, Italy, p.A4274**

- P459 The Effect of Body Composition in Patients with COPD and Pulmonary Rehabilitation Outcomes/P. Tunsupon, M.J. Mador, Buffalo, NY, p.A4275**
- P460 Indacaterol Maleate/Glycopyrronium Bromide and Exercise Tolerance in COPD Patients/P.A. Postolache, Iasi, Romania, p.A4276**
- P461 The Use of High Frequency Airway Oscillations in Chronic Obstructive Pulmonary Disease- A Pilot Study/E. Daynes, T.C. Harvey-Dunstan, L. Houchen-Wolloff, S.J. Singh, Leicester, United Kingdom, p.A4277**

THEMATIC POSTER SESSION

B74 PULMONARY REHABILITATION FOR NON-COPD DIAGNOSES**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area B, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** D. Brooks, PhD, Toronto, Canada

- P163 The Relation of Functional Mobility to Pulmonary Function, Respiratory Muscle Strength, Functional Exercise Capacity, Quality of Life and Disease Severity in Patients with Chronic Heart Failure/B. Naci, R. Demir, Z. Yigit, H.N. Gurses, Istanbul, Turkey, p.A4278**
- P164 Different Effects of Pulmonary Rehabilitation in Anxious Vs. Non-Anxious Patients with Idiopathic Pulmonary Fibrosis - a Pilot Study/I. Jarosch, T. Schneeberger, R. Gloeckl, M. Kreuter, J. Benstz, M. Frankenberger, C. Neurohr, A. Prasse, J. Behr, K. Kenn, Schoenau am Koenigssee, Germany, p.A4279**
- P165 Long-Term Effect of Pulmonary Rehabilitation Under Nintedanib Treatment in Idiopathic Pulmonary Fibrosis: Methodology of the FITNESS Study/Y. Kondoh, H. Taniguchi, K. Kataoka, S. Arizono, T. Ogawa, F. Watanabe, R. Kozu, K. Nishimura, O. Nishiyama, T. Ogura, H. Saka, Seto, Japan, p.A4280**
- P166 Preoperative Exercise Training for Patients with Non-Small Cell Lung Cancer: A Cochrane Systematic Review/C.L. Granger, V. Cavalheri, Parkville, Australia, p.A4281**
- P167 Oxygen Requirements and Relationship to Exercise Capacity and Aerobic Training in Advanced Interstitial Lung Disease/L. Wickerson, D. Brooks, D. Reid, J. Granton, L.G. Singer, S. Mathur, Toronto, Canada, p.A4282**
- P168 A Study to Find Exercise Limiting Factors on CardioPulmonary Exercise Testing in Sarcoidosis Patients/P. Shah, M. Ali, D. Talwar, Noida Uttar Pradesh, India, p.A4283**



Facilitator: R.A. Evans, MBChB, PhD, Leicester, United Kingdom

- P169** **Prevalence of Dinamic Hyperinflation and Aerobic Capacity Assessment in Bronchiectasis Patients/M.C.N. Maiorano De Nucci, F.L.A. Fernandes, R.A. Athanazio, J.M. Salge, R. Stelmach, A. Cukier, Sao Paulo, Brazil, p.A4284**
- P170** **Effects of Hypertonic Saline on Sputum Clearance in Patients with Bronchiectasis/V. Alcaraz, B. Herrero, J. Vilaro, E. Rosales-Mayor, A. Torres, E. Polverino, Barcelona, Spain, p.A4285**
- P171** **A Systematic Review and Meta-Analyses of Airflow for the Relief of Chronic Refractory Breathlessness in People with Advanced Cardio-Respiratory Diseases and Mild Hypoxaemia/F. Swan, A. Newey, M. Bland, C. Bausewein, S. Booth, M. Johnson, J. Yorke, Hull, United Kingdom, p.A4286**
- P172** **Smart Asthma: A Triage Application that Leverages Machine Learning Predictions/S. Swaminathan, A.N. Gerber, G. Bazaz, G. Kappel, E. Corcoran, N. Wysham, Crestwood, KY, p.A4287**
- P173** **Whole Body Vibration Improves Distance Walked and Muscle Strength in Patients with Chronic Kidney Disease: A Randomized Controlled Trial/C.E.S.R. Barros, H.K.B. Fuzari, A. Dornelas De Andrade, A.I.C. Medeiros, J.C. Leite, A.M.S. Lima, M.F. Pessoa, H.C.M. Souza, M.A.B. Rodrigues, P.E.M. Marinho, Recife, Brazil, p.A4288**
- P174** **Effects of Intradialytic Resistance Training on Physical Activities in Daily Life and Physical Capacity in End-Stage Renal Disease Patients/M.M. Reboredo, F.M.D. Valle, A.A.A. Barros, W.F. Mendonca, G.O. Werneck, C. Malaguti, R.B.D. Paula, L. Lucinda, B.V. Pinheiro, Juiz de Fora, Brazil, p.A4289**
- Facilitator:** C.M. Nolan, MSc, Harefield, United Kingdom
- P175** **Evaluation and Stratification of Functional Capacity by the Glittre ADL-Test in Patients with Heart Failure and Its Correlation with Diaphragmatic Performance/A.M. Soares De Lima, J.C. Leite, A. Dornelas De Andrade, S.C.S. Brandao, L. Alcoforado, B.T.S. Araujo, M.I. Remigio, A.I.C. Medeiros, F. Pinheiro, S.L. Campos, D.C. Brandao, Recife, Brazil, p.A4290**
- P176** **Responsiveness and Minimum Clinically Important Difference (MCID) of the 4 Metre Gait Speed (4MGS) in Fibrotic Interstitial Lung Disease/C.M. Nolan, M. Maddocks, V. Delogu, S. Patel, R.E. Barker, B. Mehta, L. Hogg, R. Tuffnell, J.L. Canavan, S.E. Jones, S.S. Kon, T.M. Maher, P. Cullinan, W.D.-C. Man, Harefield, United Kingdom, p.A4291**
- P177** **Comparison of the Pulmonary Functions in Children with Various Types of Muscular Dystrophy/E. Safran, A. Yildiz, Z.C. Algun, H.N. Gurses, Istanbul, Turkey, p.A4292**
- P178** **Relationship Between Pulmonary Functions, Hand Skills and Quality of Life in Patients with Muscular Dystrophy/E. Safran, A. Yildiz, H.N. Gurses, Z.C. Algun, Istanbul, Turkey, p.A4293**
- P179** **Factors Associated to Quality of Life (QoL) in Patients Affected by Amyotrophic Lateral Sclerosis (ALS) and Duchenne Muscular Dystrophy (DMD)/G. Crescimanno, F. Greco, M. Spatola, O. Marrone, Palermo, Italy, p.A4294**

THEMATIC POSTER SESSION

B75 CURRENT UPDATES IN DISEASE MODELING

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area C, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: S. Adnot, MD, PhD, Creteil, France

- P193** **Nebulized Adipose-Derived Mesenchymal Stem Cells Attenuate Pulmonary Microvascular Hyper-Permeability After Smoke Inhalation Injury/Y. Niimi, S. Fukuda, P.B. Dannelys, K. Ihara, R.A. Cox, H.K. Hawkins, D. Herndon, D.S. Prough, P. Enkhbaatar, Galveston, TX, p.A4295**
- P194** **Tiotropium in Combination with Olodaterol Reduces Airway Inflammation and Remodeling in a House Dust Mite-Induced Model of Relapsing Allergic Airway Disease/G. John-Schuster, S. De Kleijn, Y. Van Wijck, H. Smits, M.P. Pieper, P. Hiemstra, C. Taube, Leiden, Netherlands, p.A4296**
- P195** **Lymphotoxin- β -Receptor Blockade Prevents Cigarette Smoke-Induced COPD/G. John-Schuster, T.M. Conlon, S. Gunter, O. Eickelberg, M. Heikenwalder, A.O. Yildirim, Munich, Germany, p.A4297**
- P196** **Exposure to Mycobacterial Antigen, ESAT-6, Increases Granuloma Formation and Fibrosis in Macrophage-Specific PPAR γ -KO Mice Instilled with Multiwall Carbon Nanotubes (MWCNT)/A. Malur, R. Barrington, A. Mohan, M. McPeck, L. Dobbs, C. Wingard, B. Barna, M.J. Thomassen, Greenville, NC, p.A4298**
- P197** **Impaired Lymphatic Flow Leads to Increased Pulmonary Inflammation in Mice/H.O. Reed, D.T. Sweet, M.L. Kahn, Philadelphia, PA, p.A4299**
- P198** **Loss of the Cholesterol Metabolizing Enzyme CH25H Protects Against Cigarette Smoke-Induced COPD/T.M. Conlon, J. Jia, J. Gao, K. Heinzelmann, D. Tasdemir, H. Bayram, O. Eickelberg, A.O. Yildirim, Munich, Germany, p.A4300**

Facilitator: J.F. Alcorn, PhD, Pittsburgh, PA

- P199** **2D Cross-Omics Integrated Enrichment Analysis of Human and Mice COPD Lungs Reveal Novel Pathological Mechanisms of Disease Progression/T.M. Conlon, M. Hackl, J. Bartel, J. Krumsiek, M. Irmeler, J. Beckers, F. Theis, O. Eickelberg, A.O. Yildirim, Munich, Germany, p.A4301**
- P200** **Mesenchymal Deficiency of KLF4 Enhanced Bleomycin-Induced Pulmonary Fibrosis/B. Hu, Z. Wu, S.H. Phan, Ann Arbor, MI, p.A4302**
- P201** **Callisto In Vitro Cell Culture System: Application and Reproducibility to Study Small Cell Populations/M. Haslip, A. Srivastava, N. Li, Y. Sun, Y. Zhang, P.J. Lee, T. Guo, M. Watson, N.G. Devaraju, H. Gong, J.L. Koff, New Haven, CT, p.A4303**
- P202** **A Comparison of the Bioenergetic Profiles of Cells Recovered from Induced Sputum, BAL and Bronchial Wash of Healthy Volunteers/N.E. Alexis, K.S. Lavrich, A.J. Ghio, J. Samet, Chapel Hill, NC, p.A4304**



- P203** **Inhibition of Fibrinolytic Activity and Fibrin Deposition Affect Activation of Peripheral Brain-Derived Neurotrophic Factor (BDNF)/G.** Florova, R. Idell, R. Girard, T. Gaidenko, M. Chamiso, K. Koenig, S. Idell, A. Komissarov, Tyler, TX, p.A4305
- P204** **A Novel Cell Culture Device to Study the Cross-Talk Between Cells Simultaneously Exposed to Different Oxygenation Mimicking the Hypoxic Gradients Within Tumors/I.** Almendros, N. Campillo, B. Falcones, R. Colina, D. Navajas, R. Farre, Barcelona, Spain, p.A4306
- P205** **Respiratory and Airway Smooth Muscle Pathology in a Pompe Disease Mouse Model/A.M.** Keeler, M. Zieger, D. Liu, J. Salemi, R. ZhuGe, M.K. ElMallah, Worcester, MA, p.A7631

THEMATIC POSTER SESSION

B76 DRIVERS OF CELL FATE, SENESENCE, AND PHENOTYPE9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area C, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** P.J. Wolters, MD, San Francisco, CA

- P207** **Derivation of Lung Specific Mesenchymal Progenitors from iPS Cells/H.A.** Marquez, W. Shi, D.N. Kotton, Boston, MA, p.A4307
- P208** **Mesenchymal Stem Cells Drive Cell Repopulation in an In Vivo Model of Lung Regeneration/J.** Sembrat, H. D'Cunha, J.C. Arango, R. Vanderpool, M. Bennewitz, P. Sundd, M. Rojas, Pittsburgh, PA, p.A4308
- P209** **Pulmonary Endothelial Progenitor Cells Demonstrate Phenotypic Shift from Altered Substrate Mechanics/P.A.** Link, D. Farkas, L. Farkas, R.L. Heise, Richmond, VA, p.A4309
- P210** **Clinical Predictive Factors and Prognostic Implications of Telomere Shortening in Sporadic and Familial Idiopathic Pulmonary Fibrosis/L.** Planas, E. Garcia Arias-Salgado, I. Buendia Roldan, A. Montes, C. Esquinas, V. Vicens Zygmunt, P. Luburich, R. Llatjos, C. Machahua, L. Pintado-Berninches, P. Rivera, V. Leiro, E. Balcells, E. Sala, J. Cortijo, J. Dorca, R. Perona, M. Selman, M. Molina-Molina, Hospitalet de Llobregat, Spain, p.A4310
- P211** **Alveolar Fibroelastosis in Bronchiolitis Obliterans After Lung and Stem Cell Transplantation: A Comparative Analysis of Morphological and Molecular Motifs/D.** Jonigk, Hannover, Germany, p.A4311

Facilitator: B. Ding, PhD, New York, NY

- P212** **HIV Up-Regulates Cytokine Release in Human Airway Basal Stem/Progenitor Cells/N.P.Y.** Chung, F. Khan, R.G. Crystal, New York, NY, p.A4312

- P213** **Functional and Transcriptional Profiles of the Unique Macrophage and Dendritic Cell Subsets within Human Airways/J.** Metcalf, V.I. Patel, J.L. Booth, E. Duggan, S. Cate, V.L. White, D. Hutchings, S. Kovats, D. Burian, M. Dozamorov, Oklahoma City, OK, p.A4313
- P214** **Effect of Calorie Restriction on Lung Stem Cells and Its Interaction with Aging/A.E.M.** Hegab, M. Ozaki, T. Betsuyaku, Tokyo, Japan, p.A4314
- P215** **Benchmarking of Directed Differentiation Protocols from Human Induced Pluripotent Stem Cells (hiPS) into Definitive Endoderm: On the Road to Bronchial Epithelium/E.** Ahmed, C. Sansac, J.M. Ramirez, S. Assou, A. Petit, I. Vachier, P. Chanez, J. De Vos, A. Bourdin, Montpellier, France, p.A4315
- P216** **Dissecting Macrophage Lineage Heterogeneity in the Mouse Lung/N.** Juul, W. Pang, Y. Kazadaeva, J. Shizuru, T. Desai, Palo Alto, CA, p.A4316

Facilitator: S. Adnot, MD, PhD, Creteil, France

- P217** **Deriving Alveolar Type 2 Cells from Pluripotent Stem Cells to Model Surfactant Protein C (SP-C) Mutations In Vitro/K.-D.** Alysandratos, M. Serra, S. Mulugeta, M.F. Beers, D.N. Kotton, Boston, MA, p.A4317
- P218** **Conditional Reprogramming of Pediatric Nasal Epithelial Cells: A New Model to Investigate Early Life Airway Immune Responses/S.** Wolf, G. Perez, L. Mukharesh, R. Megalaa, S. Kilaikode, N. Isaza, D.K. Pillai, M. Rose, G.R. Nino, Washington, DC, p.A4318
- P219** **Mesenchymal Stem Cell Optimization with In Vitro and In Vivo Validation for Clinical Impact in Cystic Fibrosis Pulmonary Infection and Inflammation/T.** Bonfield, M. Majumder, J. Jensen, M. Gilkey, D. Velasquez, S. Oo, M. Sutton, S. Kaur, D. Fletcher, R. Van Heeckeren, R. Somoza, L. Auster, A. Caplan, Cleveland, OH, p.A4319
- P220** **Gene Expression Analysis to Identify Common Pathways Between Cigarette Smoke Exposure and Replicative Senescence/T.** Nyunoya, J.-H. Jang, H. Voic, T. Ryba, R. Mallampalli, Pittsburgh, PA, p.A4320
- P221** **Nuclear Receptor REV-ERB α Regulates Cigarette Smoke-Induced Lung Inflammation/I.K.** Sundar, M.T. Sellix, I. Rahman, Rochester, NY, p.A4321

THEMATIC POSTER SESSION

B77 ROLE OF EPITHELIAL CELLS IN ACUTE LUNG INJURY9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area C, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators



Facilitator: A. Lam, MD, Chicago, IL

- P223 Establishment of a Murine 3D In Vitro Lung Organoid Model to Study Epithelial Generation And Regeneration/A.I. Vazquez Armendariz, M. Heiner, J. Quantius, E. El Agha, I. Salwig, S. Bellusci, W. Seeger, T. Braun, S. Herold, Giessen, Germany, p.A4322**
- P224 Yap/Taz Is Essential for Alveolar Epithelial Regeneration Following Bacterial Pneumonia/R. LaCanna, P. Zhang, D. Liscardo, Y. Wang, H. Chapman, E. Morrissey, H. Shen, B. Kosmider, Y. Tian, Philadelphia, PA, p.A4323**
- P225 Light-Activated Calcium Regulation in Pulmonary Alveolar Epithelium/M.N. Islam, M. Wei, J. Bhattacharya, New York, NY, p.A4324**
- P226 Distinct Differences in Alveolar Epithelial Cell Death Signalling Between Models of ARDS/B.V. Patel, K. Yao, H. Nakamura, R. Romano, M. Takata, London, United Kingdom, p.A4325**
- P227 Selective Activation of Airway Epithelial Stem Cells in the Neuroepithelial Body Microenvironment by Transient Acute Lung Injury and Inhibition of Bone Morphogenetic Protein Signaling/L. Verckist, I. Brouns, R. Lembrechts, I. Pintelon, J.-P. Timmermans, D. Adriaensen, Wilrijk, Belgium, p.A4326**
- P228 Modulation of Whole Lung ENaC Subunit Expression After Injury Following Deletion of α ENaC in Alveolar Type I Cells/M. Johnson, M. Okamura, A.M. Gillespie, L. Dobbs, San Francisco, CA, p.A4327**
- P229 Elevated CO₂ Levels Promote Endoplasmic Reticulum-Associated Degradation of the Na,K-ATPase β -subunit in Alveolar Epithelial Cells/V. Kryvenko, W. Seeger, I. Vadasz, Giessen, Germany, p.A4328**
- P230 Tissue Clearing and Light Sheet Microscopy Can Be Used to Image the Alveolar Epithelium/A.J. Paris, N. Dai, G.S. Worthen, Philadelphia, PA, p.A4329**
- P231 Cell-Free Hemoglobin Increases Lung Epithelial Permeability and Alters Expression of Both Tight Junction Components and Cell Adhesion Proteins in Mouse Lung Epithelial Cells/V.E. Kerchberger, N. Putz, C.M. Shaver, L.B. Ware, J.A. Bastarache, Nashville, TN, p.A4330**
- P232 Lung Epithelial Cells Shed Procoagulant Microvesicles in Response to Pneumolysin/E. Letsiou, G.L. Teixeira Alves, M. Felten, A. Nerlich, T.J. Mitchell, A.C. Hocke, H.C. Mueller-Redetzky, M. Witzenth, Berlin, Germany, p.A4331**
- P233 FXD5 Is an Essential Mediator of Lipopolysaccharide-Induced Inflammatory Response and Lung Injury/L.A. Dada, P.N. Soni, P. Brazee, E. Toktaeva, N. Magnani, A. Yemelyanov, H. Perlman, K.M. Ridge, J.I. Sznajder, O. Vagin, Chicago, IL, p.A4332**
- P234 An Ubiquitin E3 Ligase, Nedd4L, Targets Lysophosphatidic Acid Receptor 1 for Its Ubiquitination and Degradation in Lung Epithelial Cell/J. Zhao, J. Wei, S. Dong, L. Zhang, A.M. Jacko, Y. Zhao, Pittsburgh, PA, p.A4333**
- P235 c-Jun N-Terminal Kinase-Mediated Activation of Nedd4-2 Drives Hypercapnia-Induced Polyubiquitination and Endocytosis ENaC in the Alveolar Epithelium/P. Gwozdzińska, W. Seeger, I. Vadasz, Giessen, Germany, p.A4334**
- P236 Attenuation of Acute Lung Injury by Upregulating SP-B Expression Via Pulmonary Epithelial Cell Specific Knockdown of NAMPT/L. Wu, L.G. Bi, M.N. Nsumu, D.P. Heruth, L.Q. Zhang, S.Q. Ye, Kansas City, MO, p.A4335**
- P237 Regulation of p53-Mediated Changes in the uPA-Fibrinolytic System and in Lung Injury by Loss of Surfactant Protein-C Expression in Alveolar Epithelial Cells/B. Puthusseri, A. Marudamuthu, N. Tiwari, V. Gopu, J. Fu, S. Idell, S. Shetty, Tyler, TX, p.A4336**
- P238 FBXO17 Regulates Glycogen Synthase Kinase-3 β (GSK3 β) Polyubiquitination and Proteasomal Degradation in Lung Epithelial Cells/T. Suber, J. Wei, A.M. Jacko, J. Zhao, Y. Zhao, R. Mallampalli, Pittsburgh, PA, p.A4337**
- P239 CpG DNA Promotes Lysosomal Degradation of the Receptor for Advanced Glycation End Products (RAGE) Through F Box Protein FBXO10-Mediated Ubiquitination/J. Evankovich, A. McKelvey, S. Dunn, T. Lear, B. Chen, R. Mallampalli, Pittsburgh, PA, p.A4338**
- P240 CD18-Dependent Adhesion of Mononuclear Cell-Derived Microparticles Is Essential for Their Proinflammatory Effect on Lung Epithelial Cells/T. Neri, C. Balia, V. Scalise, R. Pedrinelli, P. Paggiaro, A. Celi, Pisa, Italy, p.A4339**
- P241 Iron Oxide and Titanium Dioxide Nanoparticles Induce Changes in Stiffness of Human Lung Cells/I. Almendros, V.R. Oliveira, J.J. Uriarte, W.A. Zin, R. Farre, D. Navajas, Barcelona, Spain, p.A4340**
- P242 TRIM72/Cav1 Interaction Determines Repair Influx and Fibrogenesis Outflux in Pulmonary Fibrosis/X. Cong, N. Nagre, W. Huang, J. Herrera, J.M. Schreiber, M.A. Clements, L.L. Wellman, P. Bitterman, R. Hubmayr, Norfolk, VA, p.A4341**
- P243 Antagonistic Relationship Between Na,K-ATPase $\alpha\beta$ Heterodimers and FXD5 in the Regulation of the Alveolar Epithelial Barrier/O. Vagin, E. Toktaeva, P. Brazee, P.N. Soni, A. Yemelyanov, Y. Wen, G. Sashes, J.I. Sznajder, L.A. Dada, Los Angeles, CA, p.A4342**
- P244 Improved Expansion of Primary Human Airway Epithelial Cells Using a Novel Defined and Feeder-Free Medium that Promotes Maintenance of Their Mucociliary Differentiation Potential in Later Passages/J. Hou, T. Brown, M.J. Riedel, T.E. Thomas, A.C. Eaves, S.A. Louis, Vancouver, Canada, p.A4343**
- P245 Human Epidermal Growth Factor Receptor-2 and 3 Signaling Implicated in Regulating Alveolar Epithelial Permeability with Cyclic Stretch/N. Yehya, M.J. Song, G.G. Lawrence, S.S. Margulies, Philadelphia, PA, p.A4344**
- P246 Bik Selectively Induces Cell Death Only in Hyperplastic but Not Resting Airway Cells/Y.A. Mebratu, H.S. Chand, Y. Tesfaigzi, Albuquerque, NM, p.A4345**
- P247 Type VI Collagen Regulates Pulmonary Epithelial Cell Phenotype and Function/J. Mereness, S. Bhattacharya, Q. Wang, S. Solletti, Y. Ren, R.S. Misra, H. Huyck, A. Howell, U.O.R.M. Center, G.S. Pryhuber, T.J. Mariani, Rochester, NY, p.A4346**



- P248 Identification of a Discrete Population of Multiciliated MIW12-Positive Epithelial Cells that Impacts Lung Inflammation/G.A. Wasserman, A.D. Szymaniak, A.C. Hinds, K. Yamamoto, H. Kamata, N.M.S. Smith, K.L. Hilliard, C. Carrieri, A.T. Labadorf, L.J. Quinton, X. Ai, X. Varelas, F. Chen, J.P. Mizgerd, A. Fine, D. O'Carroll, M.R. Jones, Boston, MA, p.A4347**
- P249 Nitrogen Mustard (Mechlorethamine Hydrochloride) Induces Amphiregulin Shedding and Hyaluronan Synthesis in Human Epithelial Cells/K.E. Weinberg, F.L. Kelly, A.E. Nagler, S.M. Palmer, D.M. Brass, Durham, NC, p.A4348**
- P250 Antiviral Signaling and Cytokine Responses in Nasal and Bronchial Airway Epithelial Cells from Preschool Children/L. Mukharesh, S. Wolf, G. Perez, R. Megalaa, S. Kilaikode, D.K. Pillai, M. Rose, N. Isaza, G.R. Nino, Washington, DC, p.A4349**
- P251 Erk-Dependent Txnip Degradation Regulates NF-Kappa B in the Respiratory Epithelium/Z. Kelleher, C. Wang, M. Foster, H. Marshall, Durham, NC, p.A4350**
- P252 Klotho Increases Airway Surface Liquid Volume in Human Bronchial Epithelial Cells/S. Krick, J. Sailland Tschudi, S. Martin, L. Kuenzi, J.S. Dennis, N. Baeumlin, A. Grabner, C. Faul, M. Salathe, Miami, FL, p.A4351**
- P253 Beta Adrenergic Antagonism Causes Dose Related Ciliary Dysrhythmia in Intact Mammalian Airways/A. Van As, J.D. Cantrell, A.D. Cantrell, J.C. Pezzulo, West Chester, PA, p.A4352**
- P259 Inhibition of Integrin β 4 Phosphorylation Attenuates Lung Endothelial Cell Inflammatory Responses/Y. Epshtein, W. Chen, T. Wang, A.E. Cress, J.R. Jacobson, Chicago, IL, p.A4357**
- P260 CD36-Mediated Tethering of Fyn Facilitates TRPV4 Phosphorylation and Responsiveness to Reactive Oxygen Species in Lung Microvascular Endothelial Cells/K. Suresh, L. Servinsky, J. Zaldumbide, S. Modekurty, D. Pearse, L. Shimoda, Baltimore, MD, p.A4358**
- P261 TRPC4 Senses Endoplasmic Reticulum Calcium Depletion and Contributes to Store Operated Calcium Entry/N. Xu, A. Buford, L. Ayers, T. Stevens, Mobile, AL, p.A4359**
- Facilitator:** E.F. Spiekerkoetter, MD, Palo Alto, CA
- P262 Targeting Inflammatory Endothelial Cells with Thrombin Inhibitors in Acute Lung Injury (ALI)/J. Lou, Y. Hu, L. Che, Y. Wu, B. Tian, C. Zhu, S. Ying, W. Li, Z. Chen, D. Chen, A. Dorling, H. Shen, Hangzhou, China, p.A4360**
- P263 The Dynamic Behavior and Role of Neutrophil Entrapment in Pulmonary Microcirculation in Murine Sepsis-Induced ARDS Model: Real-Time Intravital Microscopy Study/I. Park, K. Choe, H. Seo, Y. Hwang, E. Song, J. Ahn, P. Kim, Daejeon, Korea, Republic of, p.A4361**
- P264 Dipeptidyl Peptidase-4 Inhibition Decreases Inflammation in Human Lung Microvascular Endothelial Cells/T. Kawasaki, L. Meliton, L. Wang, Y. Epshtein, K. Tatsumi, S.M. Dudek, Chicago, IL, p.A4362**
- P265 Mapping the Spatial Distributions of Barrier Protective and Disruptive cAMP Signals in Pulmonary Endothelial Cells/T.C. Rich, N.S. Annamdevula, J. Deal, A.L. Britain, K. Trinh, C. Hoffman, S.L. Sayner, S.J. Leavesley, Mobile, AL, p.A4363**
- P266 Simultaneous Measurement of cAMP Signals and Resultant Changes in the Balance Between PKA and Phosphatase Activities in Single Cells/T.C. Rich, N.S. Annamdevula, S. West, J. Deal, A.L. Britain, K. Trinh, J.R. Griswold, S.J. Leavesley, Mobile, AL, p.A4364**
- P267 Heparan Sulfate Fragments Directly Protect Pulmonary Microvascular Endothelial Cells Against Extracellular Histone-Induced Injury/Y. Zhang, S.M. Haeger, K.L. Dailey, J.A. Ford, Y. Yang, E.P. Schmidt, Beijing, China, p.A4365**
- P268 The Splicing Factor hnRNPA1 Regulates Critical MYLK Splicing Involved in Lung Endothelial Barrier Regulation/J.B. Mascarenhas, G.T. Kelly, A.Y. Tchourbanov, T. Zhou, S. Danilov, T. Wang, J.G.N. Garcia, Tucson, AZ, p.A4366**
- Facilitator:** R.S. Knipe, MD, Boston, MA
- P269 Nanocarriers Adsorbed onto Red Blood Cells Massively Augment Drug Delivery to Target Organs Affected by Acute Critical Illness/J.S. Brenner, D.C. Pan, J.W. Myerson, O.A. Marcos-Contreras, C.H. Villa, R. Kiseleva, E. Cantu, V.R. Muzykantov, Philadelphia, PA, p.A4367**
- P270 Lung Microvascular Endothelial Cells Express TLR9 and Internalize CpG-DNA/H.E. Faust, M. Hotz, D. Qing, N.S. Mangalmurti, Philadelphia, PA, p.A4368**

THEMATIC POSTER SESSION

B78 ROLE OF ENDOTHELIAL CELLS IN ACUTE LUNG INJURY**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area C, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** G. Hu, MD, PhD, Chicago, IL

- P255 Group V Secretory Phospholipase A2 Mediates MRSA-Induced Endothelial Permeability and Acute Lung Injury/L. Meliton, H. Wang, Y. Epshtein, E. Letsiou, S.M. Dudek, Chicago, IL, p.A4353**
- P256 Hemin Causes Lung Microvascular Endothelial Barrier Dysfunction by Necroptotic Cell Death/S. Singla, J. Chen, J. Sysol, B. Dille, R.F. Machado, Chicago, IL, p.A4354**
- P257 Particulate Matter Increases Connexin 43 Expression and Function, Exacerbating Endothelial Barrier Disruption/X. Wu, M.L. Cotter, J. Burt, J.G.N. Garcia, T. Wang, Tucson, AZ, p.A4355**
- P258 Integrated Analysis of Soluble Lipid Mediators in Alveolar Fluid Discriminates ARDS from Hydrostatic Pulmonary Edema/B.C. Hamilton, K. Gronert, J.E. Gotts, C.S. Calfee, L. Ware, M.A. Matthay, San Francisco, CA, p.A4356**



- P271 Intravascular Delivery of Purified Human Focal Adhesion Kinase Protects Against Acute Lung Injury/S.K. Quadri, S.R. Das, M.N. Islam, G.A. Gusarova, M. Wei, S. Bhattacharya, J. Bhattacharya, New York, NY, p.A4369**
- P272 Interplay Between Myosin Phosphatase and HDAC7 in Endothelial Barrier Regulation in Endotoxin-Induced Model of ALI/A. Kovacs-Kasa, M. Cherian-Shaw, B. Gorshkov, M.L. Meadows, D.J. Fulton, A.D. Verin, Augusta, GA, p.A4370**
- P273 Elevated AC10 Expression in Pulmonary Microvascular Endothelial Cells Increases Permeability and Decreases Proliferation/W. Pitts, C.-S. Choi, R. KC, S.L. Sayner, Mobile, AL, p.A4371**
- P274 Barrier Disruptive Versus Barrier Protective Agonists Alter Sodium Bicarbonate Cotransporter Phosphorylation in Pulmonary Microvascular Endothelial Cells/S.L. Sayner, C.-S. Choi, Mobile, AL, p.A4372**
- P275 Salt-Inducible Kinase Activity Does Not Affect Pulmonary Endothelial Cell Proliferation/N. Xu, T. Stevens, Mobile, AL, p.A4373**
- Facilitator:** A.J. Goodwin, MD, MSCR, Charleston, SC
- P276 S.Pneumoniae Induces Endothelial Calcium-Signaling Through Thromboxane A2 Receptor/M. Kieffmann, C. Bornchen, A. Schuster, A. Mecklenburg, F. Gniech, S. Hammerschmidt, R. Kieffmann, Hamburg, Germany, p.A4374**
- P277 Effect of Phenol on Prion Endothelial Cytotoxin Secondary to Pseudomonas/C. Caesar Williams, K.A. Morrow, T. Stevens, M. Francis, R. Balczon, Mobile, AL, p.A4375**
- P278 Regulation of Endothelial Barrier Function in Adult and Neonatal Hypoxia Induced Lung Injury/L. Ying, C.M. Alvira, D.N. Cornfield, Stanford, CA, p.A4376**
- P279 Endothelial TRPM2 Activation Is an Essential Step in Endotoxin-Induced Neutrophil Trafficking Across Vessel Wall to Cause Lung Vascular Injury/M. Mittal, S. Nepal, C. Tirupathi, A.B. Malik, Chicago, IL, p.A7632**
- P280 Protective Role of DNA Methyltransferase 3B Against Vascular Remodeling in Pulmonary Hypertension/Y. Yan, Y.-Y. He, X.-J. Wang, S.-H. Yang, T.-Y. Lian, J.-Y. Qiu, S.-Q. Li, J. Ye, Z.-C. Jing, Shanghai, China, p.A7633**

THEMATIC POSTER SESSION

B79 ROLE OF IMMUNE CELLS IN ACUTE LUNG INJURY

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area C, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: M. Peters-Golden, MD, Ann Arbor, MI

- P283 Characterization of Macrophage Populations in Schistosoma and Hypoxia Induced Pulmonary Hypertension/C.S. Mickael, R. Kumar, L. Sanders, W.J. Janssen, R. Tuder, B.B. Graham, Aurora, CO, p.A4377**

- P284 LPS Ligation on Sessile Alveolar Macrophages Relates Negatively to Membrane Siglec-F Expression/L. Li, G.A. Gusarova, J. Bhattacharya, New York, NY, p.A4378**
- P285 GAT-107, a Novel Ago-PAM of $\alpha 7$ Nicotinic Acetylcholine Receptor, Restores Hyperoxia-Compromised Macrophage Function/A. Gauthier, R. Sitapara, L. Mantell, G. Thakur, Jamaica, NY, p.A4379**
- P286 Role of Alveolar Macrophages in Acute Lung Injury Model/M. Camprubi-Rimblas, R. Guillaumat-Prats, J. Bringue, M.N. Gomez, A. Artigas, Sabadell, Spain, p.A4380**
- P287 R213G Polymorphism of SOD3 Augments M1 Polarization of Macrophages in a Mouse Model of Bleomycin-Induced Pulmonary Fibrosis/A. Allawzi, K. Swain, L. Hernandez-Laguna, C. Sucharov, G. Mouradian, R. Gaurav, R. Bowler, Aurora, CO, p.A4381**

Facilitator: C.J. Britto-Leon, MD, New Haven, CT

- P288 Endothelial Cell Secreted Macrophage Migration Inhibitory Factor (MIF) Regulates Pericyte Contractility to Decrease Barrier Function/A.S. Pellowe, M. Sauler, R. Liu, M.R. Harris, B. Calderon, Y. Zhang, J.S. Pober, R. Bucala, P.J. Lee, A. Gonzalez, New Haven, CT, p.A4382**
- P289 Mast Cell-Mediated Proteolytic Degradation of Thymic Stromal Lymphopoietin (TSLP) May Negatively Affect Acute Lung Injury (ALI)/A. Piliponsky, N.J. Shubin, M. Clauson, K. Niino, V.A. Glukhova, J.S. Debley, R. James, Seattle, WA, p.A4383**
- P290 Induction of Neutrophil Apoptosis by Bcl-2 Inhibitor Reduces PM-Induced Airway Inflammation/X. Wang, M. Luo, S. Ying, H. Shen, Hangzhou, China, p.A4384**
- P291 Pre-Activation of Mesenchymal Stromal Cells to Enhance Bacterial Clearance in Septic Lung Injury/E.J. Murphy, Westmeath, Ireland, p.A4385**

Facilitator: R.M. Tighe, MD, Durham, NC

- P292 Sulforaphane Improves Hyperoxia Compromised Phagocytic Function in Macrophages/K. Dial, W. Wu, L. Mantell, Jamaica, NY, p.A4386**
- P293 Differential Effects of TrxR1 Inhibitors on Glutathione Induction in Murine Lung Macrophages/S. Wall, J.L. Casey, Q. Li, K. Dunigan, R. Li, A.B. Carter, T.E. Tipple, Birmingham, AL, p.A4387**
- P294 Hypertonic Saline Aerosol Alters the Motility of Pseudomonas Aeruginosa in Mucin/Z.-T. Lee, C.-S. Chen, H.-L. Lin, Taoyuan City, Taiwan, p.A4388**
- P295 Role of AMP-Activated Protein Kinase in Ethanol-Induced Lipid Accumulation in the Lung/A. Banerjee, F. Romero, D. Schriener, R. Summer, Philadelphia, PA, p.A4389**
- Facilitator:** M. Casalino-Matsuda, PhD, Chicago, IL
- P296 Role of Endocytosis in the Response of Pulmonary Macrophages to Oxidized Pulmonary Surfactant/M. Hamel-Auger, M. Talbot, M. Pineault, J. Routhier, E. Jubinville, M.-J. Beaulieu, M.-E. Pare, S. Aubin, M.C. Morissette, Quebec, Canada, p.A4390**



- P297** **Regulatory T Cell-Specific Uhrf1 Deficiency Leads to Spontaneous Lymphoproliferative Lung Inflammation/B.D. Singer, K. Helmin, Chicago, IL, p.A4391**
- P298** **Fatty Acid Ethyl Esters Produced by Ethanol Exposure Impair Murine Macrophage Phagocytosis/L. Kaphalia, R. Kakumanu, B.S. Kaphalia, W.J. Calhoun, Galveston, TX, p.A4392**
- P299** **ABCG1 Plays an Important Role in Surfactant Metabolism in Pulmonary Alveolar Proteinosis/E. Lee, T.Q.D.A. Vallim, D. Merriott, J. Cheng, A. Cheng, B.C. Trapnell, T.S. Wang, E.J. Tarling, Los Angeles, CA, p.A4393**

THEMATIC POSTER SESSION

B80-A MECHANISMS AND MODELS OF ACUTE LUNG INJURY

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Area C, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
 12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: B.D. Southern, MD, Cleveland, OH

- P301** **Reversal of the Toxic Effects of Carbon Monoxide (CO) Poisoning on Tissue Respiration Through a CO Scavenging Molecule/J.J. Rose, L. Wang, I. Azarov, Q. Xu, X.N. Huang, C.G. Corey, D. Guimaraes, C.F. McTiernan, C.P. O'Donnell, J. Tejero, S. Shiva, M.T. Gladwin, Pittsburgh, PA, p.A4394**
- P302** **PERK Inhibition Mitigates Ventilator-Induced Lung Injury/T. Dolinay, G.G. Lawrence, M. Stolow, I.S. Lan, S.S. Margulies, Philadelphia, PA, p.A4395**
- P303** **Role of Mitochondrial DNA/Toll-Like Receptor 9 Axis in Alveolar Fluid Balance in Acute Lung Injury/H. Wang, T. Wang, Z. Yuan, F. Wen, Chengdu, China, p.A4396**
- P304** **FTY720 (S)-Phosphonate Protects Against Staphylococcus Aureus-Induced Acute Lung Injury in Mice/H. Wang, L. Wang, L. Meliton, E. Letsiou, V. Natarajan, S.M. Dudek, Chicago, IL, p.A4397**
- P305** **Localized Alveolar-Bacterial Interactions Determine Global Lung Injury by Staphylococcus Aureus/J.L. Hook, J. Bhattacharya, New York, NY, p.A4398**
- P306** **Actin Fence Therapy for Acute Lung Injury/G.A. Gusarova, M.N. Islam, S.R. Das, M. Wei, J. Bhattacharya, New York, NY, p.A4399**
- P307** **Characterising the Inflammatory Response to Red Blood Cell Constituents in the Lung/S. Arnold, London, United Kingdom, p.A4400**
- P308** **Differential Susceptibilities of Cytochrome P450 (CYP)1a1/1a2 Double Knockout and Cyp1a1/1a2/1b1 Triple Knockout Mice to Hyperoxic Lung Injury In Vivo/B. Moorthy, L. Wang, W. Jiang, X. Couroucli, K. Lingappan, Houston, TX, p.A4401**

- P309** **The Novel Anti-Apoptotic Role of Extracellular Nicotinamide Phosphoribosyltransferase in Pathogenesis of Pulmonary Arterial Hypertension and Regulation of Cell Death/R.C. Oita, W. Ma, J. Yuan, S.M. Camp, T. Wang, J.G.N. Garcia, Tucson, AZ, p.A4402**
- P310** **Modulating MyD88 pre-mRNA Splicing to Treat Inflammatory Lung Diseases/K.R. Davidson, W.J. Janssen, S. Alper, Denver, CO, p.A4403**
- P311** **Deficiency of TREK Potassium Channels Promotes Ventilator-Associated Lung Injury/A. Schwingshackl, B. Lopez, B. Teng, C. Luellen, C.M. Waters, Los Angeles, CA, p.A4404**
- P312** **NOS2-Derived Nitric Oxide Regulates Expression of Surfactant Protein B/J. Guan, R. Baron, Boston, MA, p.A4405**
- P313** **Activation of Unfolded Protein Response in Br2 Inhalation Injury-Induced Pulmonary Fibrosis/I. Ahmad, A. Lam, N. Vetal, H. Paiste, M. Carlisle, M. Athar, M. Gorbayuk, S. Aggarwal, S. Matalon, Birmingham, AL, p.A4406**
- P314** **VEGFR1 Tyrosine Kinase Signaling Activates Bleomycin-Induced Pulmonary Fibrosis/H. Amano, R. Takahashi, M. Shibuya, M. Majima, Sagamihara, Japan, p.A4407**
- P315** **The Molecular Mechanism of Enhanced Protein Arginine Methyltransferase 1 Stability in Lung Diseases/Y. Lai, J. Li, X. Li, C. Zou, Pittsburgh, PA, p.A4408**

Facilitator: L.A. Dada, PhD, Chicago, IL

- P316** **Relationship Between Elevated Soluble CD74 and Severity of Experimental and Clinical ALI/ARDS/G. Wu, Y. Sun, K. Wang, B. Zhu, Z. Xia, Shanghai, China, p.A4409**
- P317** **The Role of Interleukin-38 in Elastase-Induced Mouse Model/T. Kinoshita, Y. Sakazaki, M. Matsuoka, Y. Tokunaga, M. Tominaga, S. Kaieda, M. Okamoto, T. Kawayama, T. Hoshino, Kurume, Japan, p.A4410**
- P318** **Simultaneous Roles of Pulmonary and Renal Surfactant Protein D on Lung-Kidney Crosstalk in Bacterial Pneumonia-Induced Acute Kidney Injury/G. Wang, J. Du, O. Abdel-Razek, Syracuse, NY, p.A4411**
- P319** **A CD98hc-Dependent Mechanism Mediates Pro-Inflammatory Cytokine Release in Cell and Animal Models of Lung Injury/B. Gooptu, S. Rushwan, W. Wang, C. Harris, S. Thorpe, M. Knight, T. Sethi, Leicester, United Kingdom, p.A4412**
- P320** **Acute Lung Injury in Response to Intratracheal Instillation of Lipopolysaccharide in an Animal Model of Emphysema Induced by Elastase/L.M.F. Lucinda, M.M. Reboredo, M.A.E. Rabelo, L. Fonseca, F. Reis, T. Fazza, D. Brega, F. Paoli, B. Pinheiro, Juiz de Fora, Brazil, p.A4413**
- P321** **Transcriptional and Post-Transcriptional Regulation of Integrin β 4E Expression/G.T. Kelly, J.B. Mascarenhas, K.P. Weston, A.E. Cress, J.G.N. Garcia, T. Wang, Tucson, AZ, p.A4414**
- P322** **Combination of Pulmonary Lactate-to-Pyruvate and Compliance to Characterize the Severity and Progression of Acute Lung Injury Using Hyperpolarized [1- ^{13} C] Pyruvate MRI/M. Pourfathi, Y. Xin, S. Kadlecsek, M. Cereda, H. Profka, H. Hamedani, I. Duncan, S. Siddiqui, N. Drachman, R.R. Rizi, Philadelphia, PA, p.A4415**



- P323 Recruitment of Inflammatory Cells Is Triggered by Lung Extracellular Vesicle-Containing miRNAs in Acid-Induced Acute Lung Injury/H.** Lee, D. Zhang, Y. Jin, Boston, MA, p.A4416
- P324 Activation of c-Jun/AP-1 Transcription Factor Causes Neutrophilic Lung Inflammation During Loss of WWOX Expression/S.** Singla, J. Chen, S. Sethuraman, J. Sysol, S. Zhao, R.F. Machado, Chicago, IL, p.A4417
- P325 Alterations of Macrophage Phenotype in Amiodarone-Induced Pulmonary Fibrosis/S.** Taylor, G. Voronin, C. Guo, D. Laskin, A. Gow, Piscataway, NJ, p.A4418
- P326 Decellularized Human Lung Slices as ECM Scaffolds to Study Lung Tissue Regeneration/L.** Elowsson, O. Johansson, E. Ahrman, C. Muller, O. Hallgren, X.-H. Zhou, L. Eriksson, A.-K. Larsson Callerfelt, J. Malmstrom, G. Westergren-Thorsson, Lund, Sweden, p.A4419
- P327 CHF6333: Pharmacological and Pharmacokinetic Characterization of a Novel Potent Inhaled Inhibitor of Neutrophil Elastase/C.** Carnini, G. Brogin, R. Patacchini, D. Miglietta, M. Stefani, H. Finch, M. Fitzgerald, C. Fox, P. Puccini, G. Villetti, M. Civelli, Parma, Italy, p.A4420
- P328 Identification of Paraquat-Induced Lung Injury and Fibrosis in Mice Via Intraperitoneal Injection in Various Dose and Exposure Time/H.** Sun, J. Zhang, J. Kang, Q. Liu, P. Huang, L. Jiang, T. Ma, D.A. Schwartz, Nanjing, China, p.A4421
- P329 Systems Biology Provides Mechanistic Insights into the Interaction of the Pathogenic Fungus Aspergillus Fumigatus with Human Airway Epithelial Cells/L.** Culibrk, C.A. Croft, A. Toor, A. Singh, S.J. Tebbutt, Vancouver, Canada, p.A4422
- P330 Depressive Phenotype Induced by Lipopolysaccharide Is Associated with Aberrance of the Cerebral and Systemic Fibrinolytic System/R.** Girard, R. Idell, M. Chamiso, T. Gaidenko, G. Florova, K. Koenig, S. Idell, A. Komissarov, Tyler, TX, p.A4423

THEMATIC POSTER SESSION

B80-B VIRAL INFECTIONS AND LUNG INJURY

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area L, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: A.M. Manicone, MD, Seattle, WA

- P1260 Expression of Tm4sf1 Marks a Novel Alveolar Stem Cell Population Which Expands After Injury to Regenerate the Alveolar Epithelium in Mouse and Human Lung/W.** Zacharias, D. Frank, J. Zepp, F. Alkhaleel, M. Morley, E. Morrissey, Philadelphia, PA, p.A4424
- P1261 Inhibition of Lung Tissue Non-Specific Alkaline Phosphatase Attenuates Influenza-Induced Acute Lung Injury/P.S.** Woods, L.M. Doolittle, L.E. Rosas, I.C. Davis, Chicago, IL, p.A4425

- P1262 Influenza A Virus Infection Induces Muscle Wasting Via IL-6 Regulation of the Ubiquitin Ligase Atrogin-1/L.C.** Welch, K.A. Radigan, T.T. Nicholson, M. Chi, E. Lecuona, M. Angulo, M. Shigemura, E. Ceco, A. Pantell, G.S. Budinger, J.I. Sznajder, Chicago, IL, p.A4426

Facilitator: M. Sala, MD, Chicago, IL

- P1263 An In-Vivo and In-Vitro Analysis of Prostaglandin-Endoperoxide Synthase 2 (Ptgs2) and the Response to Respiratory Syncytial Virus (RSV)/R.M.K.D.** Gunasingha, W. Gladwell, O. Yost, S. Kleeberger, Durham, NC, p.A4427
- P1264 IRE-1 Signaling as Putative Therapeutic Target to Dampen Lung Injury in Influenza Virus-Induced Pneumonia/C.** Schmoltdt, I. Shalashova, C. Peteranderl, L. Jankauskaite, A.I. Vazquez Armendariz, S. Pleschka, A. Gunther, S. Herold, Giessen, Germany, p.A4428
- P1265 Chronic Smoking After Influenza Aggravates Pulmonary Fibrosis and Inhibits the Recovery/S.W.** Lee, Y.A. Kang, L. Sharma, W. Liu, C.-M. Yoon, M.-J. Kang, C.S. Dela Cruz, New Haven, CT, p.A4429

Facilitator: R.S. Hagan, MD, PhD, Chapel Hill, NC

- P1266 Monitoring Respiratory Syncytial Virus Infections Using Whole Genome Sequencing, Descriptive Epidemiology, and Viral Analysis Reveal the Transmission Dynamics and an Age Group Niche of RSV Types A and B/F.** Elawar, L. Bilawchuk, D. Zhu, L. Forss, B. Hazes, L. Jensen, C. Griffiths, S. Drews, D. Marchant, Edmonton, Canada, p.A4430
- P1267 Transcriptional Subtraction Identifies spp1 and sirpa As Key Conserved Genes Modulated by Smoking and Pulmonary Fibrosis in Humans and Mice/J.** Lamothe, J.-C. Berube, Y. Bosse, M.C. Morissette, Quebec City, Canada, p.A4431
- P1268 Upregulation of Ca²⁺-ATPase by TLR7 Decreases Electrolyte Secretion from Airway Submucosal Gland Cells/S.** Gamo, T. Tamada, S. Muramatsu, K. Murakami, M. Nara, H. Sugiura, M. Ichinose, Sendai City, Japan, p.A4432

THEMATIC POSTER SESSION

B80-C GETTING MODELED: BIOENGINEERING AND COMPUTATIONAL METHODS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area E, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: G.N. Maksym, PhD, Halifax, Canada

- P557 Stochastic Resonance Versus Deterministic Resonance During Variable Controlled Ventilation: A Numerical Investigation/R.** Huhle, R. Amini, J. Herrmann, A. Guldner, M. Gama De Abreu, D.W. Kaczka, Dresden, Germany, p.A4433



- P558** Simulation Study of High Frequency Oscillation Ventilation (HFOV) by the Use of a 4D Lung Model and Computational Fluid Dynamics (CFD)/H. Kitaoka, Tokyo, Japan, p.A4434
- P559** Simulation Study of Nasal High-Flow Oxygen Therapy by the Use of a 4D Lung Model and Computational Fluid Dynamics (CFD)/H. Kitaoka, Tokyo, Japan, p.A4435
- P560** A 'Virtual Patient' Model Prediction of Response to Nasal High Flow Therapy/W. Kang, A. Clark, M. Tawhai, Auckland, New Zealand, p.A4436
- P561** Numerical Study of the Effect of Abnormal Smooth Muscle Contractions on the Airway Flow Field/X. Shi, S. Zhou, Z. Zhang, L. Deng, Changzhou, China, p.A4437
- P562** Influence of Age-Related Morphological Changes on Alveolar Mechanics/R. Pidaparti, P. Aghasafari, R.L. Heise, A. Reynolds, Athens, GA, p.A4438
- Facilitator:** J. Choi, PhD, Iowa City, IA
- P563** Distal Air Sacs (Alveoli) Form by a Process of Epithelial Extrusion Rather than by Septal "Erection"/D. Warburton, C. Wigfall, H. Pollack, A. Shirtz, Y. Tang, S.E. Fraser, R. Moats, Los Angeles, CA, p.A4439
- P564** Computational Model of a Breathing Lung Illustrates the Influence of the Acinar Structures on Gas Washout/J. Schittny, C.-F. Benner, T.P. Cremona, D. Haberthur, D. Hasler, P. Latzin, D. Obrist, Bern, Switzerland, p.A4440
- P565** Negative Pressure Inflation Facilitates Pulmonary Acinar Bypass Perfusion in Isolated Rat Lungs/R.L. Conhaim, G.S. Segal, K.E. Watson, Middleton, WI, p.A4441
- P566** Non-Newtonian Dynamics of Mucus Transport in Simple Conduits/H. Kumar, B. Mauroy, Auckland, New Zealand, p.A4442
- P567** Anatomical Factors Influencing the Collapsing Pressure in Obstructive Sleep Apnea/J. Janczy, T. Woodson, G. Garcia, Milwaukee, WI, p.A4443

THEMATIC POSTER SESSION

B80-D EVERYTHING YOU WANTED TO KNOW ABOUT AIRWAY SMOOTH MUSCLE BUT WERE AFRAID TO ASK

9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area E, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: C.A. Singer, PhD, Reno, NV

- P569** Investigating Genome Wide DNA Methylation in Airway Smooth Muscle Cells from Asthmatic and Non-Asthmatic Donors/R.L. Clifford, J.K. Patel, J.L. MacIsaac, L.M. McEwen, D. Shaw, A.J. Knox, M. Kobor, Nottingham, United Kingdom, p.A4444

- P570** TNF-Alpha -Nitric Oxide (NO) Axis Mediates β -Adrenergic Receptor Dysfunction in Human Airway Smooth Muscle Cells/M. Gupta, G. Piedimonte, T.J. Harford, R. Panettieri, Jr., S.C. Erzurum, S.V. Naga Prasad, Cleveland, OH, p.A4445
- P571** The Effects of the β_2 -Agonist Indacaterol and the Anticholinergic Glycopyrrolate on the Constriction of Large and Small Intrapulmonary Airways in a Guinea Pig Model of COPD/B. Han, A.B. Zuidhof, H. Meurs, H. Maarsingh, M. Schmidt, Groningen, Netherlands, p.A4446
- P572** Interactions Between Glycopyrronium and Indacaterol on Cholinergic Neurotransmission and Contractile Response in Bovine Trachealis/M. Baroffio, G. Barisione, V. Brusasco, Genoa, Italy, p.A4447
- P573** A Secondary M3 Receptor Binding Site and Slow Dissociation Kinetics of Tiotropium Contribute to Bronchoprotection and Functional Interactions with Long-Acting β -Agonists/L.E.M. Kistemaker, C. Elzinga, C. Tauterman, D. Seeliger, H. Meurs, R. Gosens, M.P. Pieper, Groningen, Netherlands, p.A4448
- P574** Male and Female Sex Steroids Lower Guinea Pig Airway Smooth Muscle Tone and Intracellular Ca^{2+} Basal Levels/B. Sommer, E. Flores-Soto, J. Reyes-Garcia, A. Carbajal-Garcia, E. Campuzano-Gonzalez, L.M. Montano, Mexico City, Mexico, p.A4449
- P575** Bitter Tastant 1,10-Phenanthroline Activates TAS2R-Gustducin Signaling to Relax Airways, Resulting in a Decrease in Airway Resistance In Vivo/P. Lu, D. Liu, K. Bellve, K. Fogarty, M.K. ElMallah, L. Lifshitz, R. ZhuGe, Worcester, MA, p.A4450
- P576** Changes of Contractile Phenotype in Response to Pro-Proliferative Stimuli in Airway Smooth Muscle Cells/A. Panariti, M. Kuan, T. Sun, M. O'Sullivan, J.G. Martin, Montreal, Canada, p.A4451

Facilitator: T. Tran, PhD, Singapore, Singapore

- P577** Impact of Sphingosine Analogs on Airway Smooth Muscle Cell Proliferation and Apoptosis/D.R. Gendron, P. Blais Lecours, A.-M. Lemay, D. Marsolais, Quebec, Canada, p.A4452
- P578** ASK1 Inhibition Prevented Mitogen-Induced Human Airway Smooth Muscle Growth in Chronic Obstructive Pulmonary Disease/A. Kota, D. Xenaki, D.A. Deshpande, B.G. Oliver, P. Sharma, Sydney, Australia, p.A4453
- P579** p300 Regulates Expression of c-Abl Tyrosine Kinase by Affecting the Transcription Factor Sp1 in Human Airway Smooth Muscle Cells/G. Liao, R. Wang, D.D. Tang, Albany, NY, p.A4454
- P580** Novel Substrate Selective ERK1/2 Inhibitors Attenuate Airway Smooth Muscle Proliferation/S.R. Polischak, T. Chan, A. MacKerell, P. Shapiro, D.A. Deshpande, Philadelphia, PA, p.A4455
- P581** Airway Smooth Muscle Cells Are Insensitive to the Anti-Proliferative Effects of Glucocorticoids: The Novel Role of Insulin Growth Factor Binding Protein-1 in Asthma/H. Bui, Y. Amrani, R.A. Panettieri Jr., O. Tliba, Philadelphia, PA, p.A4456
- P582** MicroRNA-25 Binds to Tuberous Sclerosis Complex 1 to Modulate Airway Smooth Muscle Proliferation Via Mammalian Target of Rapamycin Signaling Pathway/M. Hernandez, M. Ba, K. Hernandez, J. Evasovic, M. Mendoza, C.A. Singer, Reno, NV, p.A4457



P583 The Fatty Acid Amide Hydrolase Inhibitor URB597 Activates TRPA1 Ion Channels in Primary Human Airway Smooth Muscle Cells/X. Liu, B. Liu, I.P. Hall, Nottingham, United Kingdom, p.A4458

P584 Toxicant 2,4-Dinitro-1-Chlorobenzene (DNCB) Modulates Pro-Contractile Signaling in Human Airway Smooth Muscle (HASM) Cells/J. Jude, F. Soliman, D. Botelho, W. Jester, R. Panettieri, New Brunswick, NJ, p.A4459

Facilitator: S. An, PhD, Baltimore, MD

P585 Heterogeneity of the Airway Smooth Muscle Layer in Asthma/A. James, J. Elliot, P. Noble, A. Jacques, F. Green, Perth, Australia, p.A4460

P586 The Volume Fraction of Collagen-IV Is Increased Within the Airway Smooth Muscle Layer in Chronic Obstructive Pulmonary Disease/J. Elliot, S.-A. Drew, A. Cairncross, P. Noble, A. James, Perth, Australia, p.A4461

P587 Serum from Asthmatic Mice Potentiates the Effects of Mesenchymal Stromal Cells in Experimental Allergic Asthma/S. Abreu, D. Xisto, J. Kitoko, F.F. Cruz, A. Silva, N. Blanco, T. Oliveira, M. Morales, C.C. Dos Santos, D.J. Weiss, P.R. Rocco, Rio de Janeiro, Brazil, p.A4462

P588 Runt-Related Transcription Factor 2 (RUNX2) Is a Potential Regulator of Connective Tissue Growth Factor (CTGF) in Asthmatic Airway Smooth Muscle/J. Wang, Q. Ge, B.G. Oliver, A. Ashton, L. Dong, J. Burgess, Jinan, China, p.A4463

P589 S100A4 Regulates Airway Smooth Muscle (ASM) Inflammation and Its Transition to Synthetic Phenotype by Acting on 'Receptors for Advanced Glycation End Products' (RAGE)/Y. Wu, W. Zhang, S.J. Gunst, Indianapolis, IN, p.A4464

P590 Extracellular Stimuli Regulate Transitions in Airway Smooth Muscle (ASM) Phenotype Through the Differential Activation of the Integrin-Linked Kinase (ILK)/PINCH/Parvin (IPP) Complex/Y. Huang, S.J. Gunst, Indianapolis, IN, p.A4465

P591 Regulation of Airway Smooth Muscle Phenotype by Retinoic Acid/F. Chen, R. Krishnan, A. Fine, Boston, MA, p.A4466

THEMATIC POSTER SESSION

B80-E FROM BENCH TO BEDSIDE: THE RIGHT VENTRICLE, PULMONARY VESSELS, AND THEIR DISORDERS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area E, Hall B-C (Middle Building, Lower Level)

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Facilitator: J.E. Bourke, PhD, Clayton, Australia

P593 Validating Functional Preservation of Intrapulmonary Airways and Arteries in Precision Cut Lung Slices for Investigation of Altered Reactivity in Lung Diseases/M. Lam, E. Lamanna, C. Donovan, M. FitzPatrick, J.E. Bourke, Melbourne, Australia, p.A4467

P594 Histomorphological and Molecular Characterization of Human and Sugen 5416/Hypoxia Induced Plexiform Vasculopathy/L. Magel, Hannover, Germany, p.A4468

P595 Identification of Rare Variants in ASB2 Influencing Susceptibility of Scleroderma-Associated Pulmonary Arterial Hypertension by Exome Sequencing and Network Analysis/Q. Liu, N. Rafaels, M. Boorgula, A.E. Berger, P.M. Hassoun, K.C. Barnes, L. Gao, Baltimore, MD, p.A4469

P596 Identification of Pulmonary Arterial Hypertension in SP-A Receptor SP-R210L-Deficient Transgenic Mice/Z.C. Chronos, S. Hu, E. Roush, G.S. Lewis, T.K. Cooper, Hershey, PA, p.A4470

P597 beta-Arrestin and PP2A Interaction Plays a Key Role in Determining the beta-Adrenergic Receptor Functionality in Pulmonary Arterial Hypertension/M. Gupta, S. Ghosh, L. Mavrikakis, S.A. Comhair, S.C. Erzurum, S.V. Naga Prasad, Cleveland, OH, p.A4471

P598 Lung EC NAMPT Promoter Activity Is Induced by PAH-Relevant Stimuli and Influenced by Lung Inflammatory Disease Associated Variants/X. Sun, A. Desai, T. Wang, S. Black, J. Yuan, J.G.N. Garcia, Tucson, AZ, p.A4472

P599 Inhibition of miR-21 Suppresses miR-223 in Estrogen-Treated Experimental Pulmonary Hypertension/S. Zhang, P. Yuan, T.-X. Chen, R. Zhang, J.-M. Liu, Z.-C. Jing, Shanghai, China, p.A4473

P600 IL-13 Accelerates the Proliferation of Pulmonary Artery Endothelial Cells Via Down-Regulation of miR-424 and miR-503/K. Takagi, T. Matsuyama, H. Mataka, K. Kamikawaji, T. Kumamoto, M. Watanabe, K. Mizuno, M. Yamakuchi, H. Inoue, Kagoshima City, Japan, p.A4474

Facilitator: R. Harper, PhD, Adelaide, Australia

P601 Prior Ischemia Inhaled Adrenergic Beta-2 Agonist Alleviation of Reperfusion Lung Injury in Rat Model/C.-L. Tsai, C.-F. Chian, C.-H. Chiang, Taipei, Taiwan, p.A4475

P602 Different Degrees of Variability in Tidal Volume Affect Lung and Cardiovascular Function Differently in Experimental Emphysema/C.G. Wierzbicki, G.A. Padilha, N.N. Rocha, R. Huhle, M.S. Coelho, F.R. Silvino, C.L. Santos, R.S. Santos, C.S. Samary, P. Pelosi, M. Gama De Abreu, P.R. Rocco, P.L. Silva, Rio de Janeiro, Brazil, p.A4476

P603 Patients with Chronic Thromboembolic Pulmonary Hypertension Are More Likely to Come from Thrombophilic Families than Are Matched Patients with Uncomplicated Venous Thromboembolism/M.W. Dodson, D.H. Best, J. Sorensen, L.A. Cannon-Albright, L.M. Brown, C.G. Elliott, Salt Lake City, UT, p.A4477

P604 Evidence-Based Assessment of the Anatomy of the Bronchial Arteries/W.C. Hsieh, B.M. Henry, J. Pekala, M. Graves, P.A. Pekala, K. Saganiak, K. Tomaszewski, J.A. Walocha, Prague, Czech Republic, p.A4487

Facilitator: H. Poor, MD, New York, NY

P605 Improvement of Exercise Capacity and Ventilatory Efficiency in Patients with Pulmonary Embolism After Anticoagulant Therapy/J.-M. Liu, D. Huang, J. Guo, L. Wang, W. Yang, Q. Zhao, S. Gong, J. Rong, Shanghai, China, p.A4478



- P606** **Significance of End-Tidal PCO₂ Response to Exercise and Its Relation to Functional Capacity in IPAH and CTEPH Patients**/J.-M. Liu, S. Xue, J. Guo, L. Wang, W. Yang, Q. Zhao, S. Gong, J. Rong, Shanghai, China, p.A4479
- P607** **Difference in Exercise Capacity and Ventilatory Efficiency Between Chronic Obstructive Pulmonary Disease Associated Pulmonary Hypertension and Idiopathic Pulmonary Hypertension**/J.-M. Liu, H. Liu, J. Guo, Q. Zhao, W. Yang, L. Wang, S. Gong, J. Rong, Shanghai, China, p.A4480
- P608** **The Correlation of Decrease of Heart Rate Recovery and Chronotropic Incompetence with Exercise Capacity in Idiopathic Pulmonary Arterial Hypertension Patients**/J.-M. Liu, C. Wu, J. Guo, P. Bigyan, W. Yang, Q. Zhao, L. Wang, Shanghai, China, p.A4481
- P609** **Pulsed Inhaled Nitric Oxide Has the Potential to Improve Exercise Tolerance in Severe COPD Subjects with Pulmonary Hypertension**/B. Hajian, B. Shivalkar, F. Ferreira, C. Van Holsbeke, W. Vos, J. De Backer, D. Quinn, A. Hufkens, P.M. Parizel, J. Clukers, W. De Backer, Antwerp, Belgium, p.A4482
- P610** **Noninvasive Estimation of Pulmonary Vascular Compliance and the Role of Pulmonary Vasodilators**/K.E. Coffman, A.R. Carlson, B. Johnson, Rochester, MN, p.A4483
- P611** **Agreeability Between Patient and Physician Assessment of WHO Functional Class and Visual Analog Scale in Pulmonary Arterial Hypertension**/F. Rabih, S. Sehgal, A. Chowdhury, A. Gadre, K. Highland, Cleveland, OH, p.A4484
- P612** **Modified Desaturation Distance Ratio (mDDR) Predicts Prognosis in Patients with Pulmonary Arterial Hypertension**/F. Burgos, X. Alsina-Restoy, Y. Torralba Garcia, J.A. Barbera, I. Blanco, Barcelona, Spain, p.A4485

THEMATIC POSTER SESSION

B80-F A TWITCH IN TIME: AIRWAY HYPERRESPONSIVENESS AND COUGH**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area E, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** W. Mitzner, PhD, Baltimore, MD

- P614** **Leukotriene B₄ in Asthma Patients with Airway Hyperresponsiveness to an Osmotic Stimulus**/J.M. Perelman, E.V. Nekrasov, A.G. Prikhodko, V.P. Kolosov, Blagoveshchensk, Russian Federation, p.A4488
- P615** **A Highly Reproducible Measurement of Airway Reactivity in the Precision Cut Lung Slice**/S. Ram-Mohan, A. Ehrlicher, Y. Bai, N. Schaible, S. Yao, A.L. Tatler, C. Bidan, T. Lavoie, J. Solway, D. Cook, D.A. Stoltz, B. Suki, X. Ai, R. Krishnan, Boston, MA, p.A4489

- P616** **Airway Reactivity in a Conditional Smooth Muscle Specific-BDNF KO Mouse Model**/M. Thompson, R. Britt, M. Freeman, K. Cummings, Y.-H. Fang, C. Roos, L. Smith, J. Miller, C. Pabelick, Y.S. Prakash, Rochester, MN, p.A4490
- P617** **TGF- β 1 Induces Human Airway Smooth Muscle Cell Shortening and Airway Hyperresponsiveness Through a Smad3-Dependent Pathway**/C.A. Ojiaku, G. Cao, W. Zhu, S. An, R.A. Panettieri Jr., Philadelphia, PA, p.A4491
- P618** **A Novel Method for Studying Airway Responsiveness in Allergic Guinea-Pigs In Vivo**/S. Keir, A. Lexmond, B. Forbes, C. Page, London, United Kingdom, p.A4492
- P619** **Testing the Long Term Impact of Altered Mechanobiological Forces on Airway Reactivity**/K. Lutchen, S.E. Stasiak, D. Brewster, H. Parameswaran, Boston, MA, p.A4493

Facilitator: D.G. Chapman, PhD, Ultimo, Australia

- P620** **Protein Kinase C, Myosin Light Chain Phosphorylation and Actin Polymerization in 'Force Adaptation'**/M. Gazzola, A. Lee-Gosselin, L. Auger, K. Lortie, M.-R. Blanchet, Y. Bosse, Quebec, Canada, p.A4494
- P621** **Firefighting Self-Contained Breathing Apparatus Is Not an Independent Risk Factor for Airway Hyperresponsiveness**/L. Secombe, L. Buddle, J. Brannan, M. Peters, C. Farah, Sydney, Australia, p.A4495
- P622** **The Role of PGI₂ (Prostaglandin I₂) in Cough Triggered by Bronchoconstriction**/T. Sakai, J. Hara, K. Yamamura, A. Okazaki, N. Ohkura, M. Abo, K. Kasahara, M. Fujimura, Kanazawa, Japan, p.A4496
- P623** **Comparison of Nicotine Vs Capsaicin Evoked Cough in Guinea Pigs**/E.J. Zacccone, Q. Liu, S. Meeker, B.J. Canning, B.J. Undem, Baltimore, MD, p.A4497
- P624** **Nicotinic Receptor Subtypes as Targets for Antitussive Therapy Preclinical Studies Performed in Guinea Pigs**/B.J. Canning, Q. Liu, Baltimore, MD, p.A4498
- P625** **Improved Pharmacodynamic Profile of XEN-D0501, a Novel TRPV1 Antagonist, Over SB705498 Does Not Result in a Reduction in Cough Frequency in Patients with Chronic Idiopathic Cough**/M.G. Belvisi, M.A. Birrell, M.A. Wortley, S.A. Maher, I. Satia, H. Badri, K. Holt, S. Sen, P. Round, L. McGarvey, J. Ford, J.A. Smith, London, United Kingdom, p.A4499

THEMATIC POSTER SESSION

B80-G CARDIOVASCULAR DISEASE AND SDB**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area H, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators



Facilitators: Y. Peker, PhD, Istanbul, Turkey
N.A. Shah, MD, MPH, New York, NY

P841 Association of Improvement in Heart Function with Changes in Sleep Parameters in Chronic Heart Failure Patients Treated for Sleep Apnea/K. Murase, K. Ono, T. Yoneda, M. Akao, S. Miki, R. Nohara, M. Mishima, T. Kimura, D.P. White, K. Chin, Kyoto, Japan, p.A4500

P842 Predictors of Obstructive Sleep Apnoea in Patients Admitted for Acute Coronary Syndrome/A. Sanchez-de-la-Torre, J. De Battle, C. Turino, M. Sanchez-de-la-Torre, J. Abad, J. Duran-Cantolla, R.D. McEvoy, N.A. Antic, O. Mediano, V. Cabriada, M.J. Masdeu, J. Teran, L. Pascual, E. Galera, A. Mas, F. Barbe, Lleida, Spain, p.A4501

P843 Sleep Duration and Quality in Heart Failure Patients/O. Oldenburg, A. Turoff, U. Thiem, H. Fox, J. Spiesshofer, T. Bitter, R. Tamisier, N.M. Punjabi, D. Horstkotte, Bad Oeynhausen, Germany, p.A4502

P844 No Mortality Effects of Adaptive Servoventilation Therapy to Treat Central Sleep Apnea in Heart Failure Patients with Reduced Ejection Fraction. The Bad Oeynhausen ASV-Registry/O. Oldenburg, B. Wellmann, A. Buchholz, T. Bitter, H. Fox, D. Horstkotte, K. Wegscheider, Bad Oeynhausen, Germany, p.A4503

P845 Older Veterans with OSA and Hypertension Demonstrate Adverse Hemodynamic Profile/J. Hussain, I. Imayama, S. Bekkam, M. Tam, B. Prasad, Chicago, IL, p.A4504

P846 Abnormal Respiratory Pattern During Radiofrequency Catheter Ablation in Patients with Atrial Fibrillation/Y. Tomita, T. Kasai, K. Narui, Tokyo, Japan, p.A4505

P847 Sleep Disordered Breathing Amongst Women with Peripartum Cardiomyopathy in Maputo, Mozambique: A Longitudinal Study/P.N. DeYoung, J.E. Orr, I. Mbanze, V. Govo, M. Machava, A. Fabula, N.-O. Bosompra, K. Akrami, P. Zindoga, A. Damasceno, A. Malhotra, La Jolla, CA, p.A4506

Facilitators: L.F. Drager, MD, Sao Paulo, Brazil
V. Kundel, MD, New York, NY

P848 Association Between Overnight Fluid Shift and Sleep Apnea Severity in Patients with Moderate-to-Severe Mitral Regurgitation and Preserved Ejection Fraction/A. Murata, T. Kasai, S. Yatsu, T. Kato, H. Matsumoto, S. Suda, M. Hiki, A. Shimada, K. Kajimoto, T. Yamamoto, A. Amano, H. Daida, Tokyo, Japan, p.A4507

P849 Cortical Arousal Role in Cardiovascular Risk Assessment of Patients with Obstructive Sleep Apnea and Resistant Hypertension/O.C. Deleanu, V.C. Cosei, A.-M. Zaharie, A.-E. Malaut, F.D. Mihaltan, Bucharest, Romania, p.A4508

P850 Importance of Proper CPAP Therapy for a Long Period of Time in Terms of Cardiovascular Risk Evaluated by Pulse Pressure in Obstructive Sleep Apnea Patients Associating Resistant Hypertension/O.C. Deleanu, C.I. Borcea, A.-M. Zaharie, M. Micheu, F.D. Mihaltan, Bucharest, Romania, p.A4509

P851 Characteristics of Carotid Artery Elasticity and Stiffness in Young Male Patients with Arterial Hypertension, Obesity and Severe Sleep Apnea Syndrome/E. Elfimova, M. Tripten, T. Balakhonova, O. Pogorelova, A. Litvin, A. Rogoz, I. Chazova, Moscow, Russian Federation, p.A4510

P852 Electrocardiographic Left Atrial Abnormality in Obstructive Sleep Apnea/W.C. Harding, P.S. Corotto, M. Shields, Y. Cho, J. Knight, H. Otchere, B. Massaro, C. Campbell, Y. Kwon, Charlottesville, VA, p.A4511

P853 Prevalence and Contributing Factors for Daytime and Nocturnal Hypoxia in Chronic Heart Failure Patients/R. Tamisier, V. Bocquillon, M. Destors, M. Salvat, E. Borel, J.-L. Pepin, Grenoble, France, p.A4512

P854 Adaptive Servo-Ventilation for Central Sleep Apnea in Systolic Heart Failure: PSG Data from the SERVE-HF Major Substudy/R. Tamisier, J.L. Pepin, M. Cowie, K. Wegscheider, E. Vettorazzi, A. Suling, C. Angermann, M.-P. D'Ortho, E. Erdmann, A.K. Simonds, V.K. Somers, F. Zannad, H. Teschler, P. Levy, H. Woehrle, Grenoble, France, p.A4513

Facilitators: G. Lorenzi-Filho, MD, Sao Paulo, Brazil
F. Barbe, MD, Lleida, Spain

P855 The Association of Smoking with Incident Cardiovascular Disease Increases with Rising Severity of Sleep Disordered Breathing in Women but Not Men/L.M. Donovan, L.C. Feemster, M.E. Billings, L.J. Spece, M.F. Griffith, E.C. Parsons, B.N. Palen, D.J. O'Hearn, S.S. Redline, D.H. Au, V.K. Kapur, Seattle, WA, p.A4514

P856 Continuous Positive Airway Pressure Efficiency in Apneic Patients with Resistant Hypertension: Results from the Randomized Controlled RHOOSAS Study/J.-L. Pepin, M. Joyeux-Faure, J.-P. Baguet, G. Barone-Rochette, P. Faure, P. Sosner, C. Mounier-Vehier, P. Levy, R. Tamisier, Grenoble, France, p.A4515

P857 Targeting the Cysteinyl-Leukotriene Pathway: A New Treatment Paradigm for Obstructive Sleep Apnea Precision Medicine?/J.L. Pepin, E. Gautier-Veyret, M. Back, C. Arnaud, E. Belaidi, R. Tamisier, P. Levy, N. Arnol, F. Stanke-Labesque, Grenoble, France, p.A4516

P858 Effects of Sleep Apnea Severity on Cardiac Function in End Stage Renal Disease/T. Inami, O.D. Lyons, A. Yadollahi, C.T. Chan, J.S. Floras, T.D. Bradley, Toronto, Canada, p.A4517

P859 Alteration of Circulating Proteomic Signatures After Treatment of Obstructive Sleep Apnea in Paroxysmal Atrial Fibrillation/R. Mehra, J. Barnard, D. Van Wagoner, Cleveland, OH, p.A4518

P860 Hypoxia Inducible Factor-1 Plays a Major Role in Cardiomyocyte Calcium Homeostasis and Sensitivity to Myocardial Ischemia-Reperfusion After Chronic Intermittent Hypoxia/E. Belaidi, S. Moulin, J.L. Pepin, C. Arnaud, D. Godin-Ribuot, Grenoble, France, p.A4519



THEMATIC POSTER SESSION

B80-H METABOLIC CONSEQUENCES OF SDB**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area H, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitators:** M. Kohler, MD, Zurich, Switzerland
O. Mesarwi, MD, La Jolla, CA**P862 Association Between Snoring and Metabolic Biomarkers in the Continuous NHANES Database/M. Nusrat, S. Kumbhare, C.B. Strange, C. Lal, Charleston, SC, p.A4520****P863 Effect of Oral Appliance on Circulating Leukocyte Telomere Length and SIRT1 in Obstructive Sleep Apnea Syndrome/C.-C. Lin, S.-F. Liaw, M.-W. Lin, C.-H. Chiu, New Taipei City, Taiwan, p.A4521****P864 Alterations of Plasmatic Levels of Alpha-Fetoprotein and C Reactive Protein in an Old Mice Obstructive Sleep Apnea Model of Spontaneous Tumorigenesis/T. Gallego-Martin, E. Gonzalez-Obeso, A. Gordillo, E. Olea, S. Yubero, I. Docio, A. Rocher, R. Farre, A. Obeso, Valladolid, Spain, p.A4522****P865 Circulating Exosomal miR21 and miR320 in Obstructive Sleep Apnea/D. Sanz-Rubio, I. Martin-Burriel, V. Gil, J.M. Marin, Zaragoza, Spain, p.A4523****P866 The Effect of Compliant CPAP Use on Weight Loss/M. Mahendran, J. Liu, K.J. Kallail, D. Bi, M. Forsyth, F. Phan, R. Nola, Wichita, KS, p.A4524****P867 The Association Between the Level of Glycemic Control with Incidence Risk of OSA in Patients with Type 2 Diabetes Mellitus/Y. Arliny, Banda Aceh, Indonesia, p.A4525****Facilitators:** E. Tasali, MD, Chicago, IL
S. Pransohler, MSc, PhD, Bad Aibling, Germany**P868 Relationship Between Serum Osteoprotegerin Levels and Bone Mineral Density Measurements in Patients with Obstructive Sleep Apnea Syndrome/Y.S. Intepe, E. Yildirim, M. Korkmaz, S. Karacavus, A.Y. Gocmen, Yozgat, Turkey, p.A4526****P869 Critical Role of Endothelial Intrinsic NF- κ B Pathway in Chronic Intermittent Hypoxia Induced Atherosclerosis in Mice/X. Ye, D. Song, G. Fang, S.-Z. Mao, G. Liu, S.F. Liu, Manhasset, NY, p.A4527****P870 Severity of Sleep Disordered Breathing and Nocturnal Hypoxemia Independently Predict Metabolic Dysfunction in a Large Population of Severely Obese Subjects: The ESADA Study/B.D. Kent, S. Ryan, A. Pataka, L. Grote, R. Riha, R. Tkacova, M. Bonsignore, J.-L. Pepin, J. Hedner, W. McNicholas, London, United Kingdom, p.A4528****P871 Imbalance Between Formyl Peptide Receptor 1 and 2 Expressions on Blood Immune Cells in Obstructive Sleep Apnea Patients/Y.-C. Chen, M.-C. Lin, M.-C. Su, C.-H. Chin, W.-F. Fang, K.-T. Huang, Kaohsiung, Taiwan, p.A4529****P872 The Association Between Nocturnal Hypoxemia, Subjective Sleepiness, and Glycemic Control in Patients with Type 2 Diabetes Mellitus/R.N. Aurora, N.M. Punjabi, Baltimore, MD, p.A4530****P873 Low 25-Hydroxyvitamin D Is Associated with Obstructive Sleep Apnea: A Systematic Review and Meta-Analysis/S. Upala, A. Sanguankeo, Bangkok, Thailand, p.A4531****Facilitators:** I. Almendros, PhD, Barcelona, Spain
S. Pamidi, MD, Montreal, Canada**P874 Gestational Diabetes and Inflammation: The Exacerbating Role of OSA/S. Amin, M. Bublitz, S. Martin, L. Larson, M. Carpenter, S. De La Monte, G. Bourjeily, Providence, RI, p.A4532****P875 Effects of Exosomes from Sleep Apnea Patients Before and After Treatment on Malignant Properties of 3 Different Melanoma Cell Lines/W. Trzepizur, A. Khalyfa, Z. Zhuanhong Qiao, D. Gozal, Chicago, IL, p.A4533****P876 A Co-Culture System of Human Monocytes with Endothelial Cells or Adipocytes: Effects of Intermittent Hypoxia/A. Khalyfa, Z. Zhuanhong Qiao, D. Gozal, Chicago, IL, p.A4534****P877 Risk of Sleep Disorders in Patients with Type 1 Diabetes Mellitus: A Nationwide Population-Based Cohort Study/C.-H. Li, W.-C. Chen, C.-Y. Chen, Y.-C. Shen, T.-C. Shen, Taichung, Taiwan, p.A4535****P878 Endogenous Night Time Melatonin Is Preserved in Patients with Chronic Spinal Cord Injury/S.E. Vaughan, M.S. Badr, E. Kruppe, H.K. Abbas, V. Mukkavilli, A. Sankari, Detroit, MI, p.A4536****P879 Frequency and Magnitude of Intermittent Hypoxia Modulate Endothelial Wound Healing in a Cell Culture Model of Sleep Apnea/I. Almendros, N. Campillo, B. Falcones, J.M. Montserrat, D. Gozal, A. Obeso, T. Gallego-Martin, D. Navajas, R. Farre, Barcelona, Spain, p.A7635**

THEMATIC POSTER SESSION

B80-I NEUROCOGNITIVE FUNCTION AND SLEEP DISORDERED BREATHING**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area H, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitators:** I. Ayappa, PhD, New York, NY
C.M. Hoyos, MPH, PhD, Forestville, Australia/
H.K. Yaggi, MD, MPH, New Haven, CT/
H. Sharifi, MD, Stanford, CA**P881 Self-Reported Sleepiness Predicts Vigilant Attention in Veterans with Obstructive Sleep Apnea/I. Imayama, J. Hussain, S. Bekkam, M. Tam, B. Prasad, Chicago, IL, p.A4537**



- P882 Obstructive Sleep Apnea Increased Accident Risk Among Taxi Drivers in Jakarta, Indonesia/A.D. Susanto, B. Hisyam, L.S. Maurits, F. Yunus, Jakarta, Indonesia, p.A4538**
- P883 Prevalence and Factors Associated with High Risk of Obstructive Sleep Apnea Among Commercial Motor Vehicle Drivers in Kenya/J.W. Kagima, B. Ale, B. Omari, H. Lawin, Nairobi, Kenya, p.A4539**
- P884 Inflammatory Markers Are Associated with Obstructive Sleep Apnea (OSA) in Parkinson's Disease (PD)/D. Ho-Wo-Cheong, M. O'Sullivan, V.P. Mery, A.L. Lafontaine, A. Robinson, P. Gros, J. Martin, A. Benedetti, R.J. Kimoff, M. Kaminska, Montreal, Canada, p.A4540**
- P885 Investigating Factors Related to the Apnea Hypopnea Index Using Polysomnography and Health Checkup Data in 97 Japanese Occupational Drivers/M. Ueyama, H. Kokuto, S. Oikawa, F. Suzuki, T. Nukiwa, H. Goto, S. Kudo, Tokyo, Japan, p.A4541**
- P886 Impaired Decision Making Is Related with Memory Deficits in Obstructive Sleep Apnea Patients/H. Yuan, L. Mu, S. Hua, L. Peng, Changchun, China, p.A4542**
- P887 Adaptation of the Berlin Questionnaire for Geriatric Assessment/N.C. Netzer, S. Anchoi-Israel, H. Frohnhofen, H. Danker-Hopfe, F. Raschke, R. Popp, S. Pramsohler, Innsbruck, Austria, p.A4543**
- P888 Eight Weeks of Continuous Positive Airway Pressure Treatment Reverses Gait Control Impairments in Severe Obstructive Sleep Apnea/J.-L. Pepin, S. Baillieul, R. Tamisier, M. Marillier, D. Perennou, B. Wuyam, S. Verges, Grenoble, France, p.A4544**
- P889 The Cyclic Behavior of Microvascular Hemodynamics During Sleep in Patients with Obstructive Sleep Apnea Syndrome/G. Cotta Ramusino, C. Gregori-Pla, P. Zirak, I. Blanco, A.M. Fortuna Gutierrez, A. Mola Ausiro, T. Durduran, M. Mayos Perez, Barcelona, Spain, p.A4545**
- P890 Periodic Legs Movements in Patients with Chronic Spinal Cord Injury/A. Sankari, H.K. Abbas, V. Mukkavilli, S.E. Vaughan, E. Kruppe, S. Chowdhuri, M.S. Badr, Detroit, MI, p.A4546**
- P891 Damage of Inner Ear Sensory Hair Cells Via Mitochondrial Loss in a Murine Model of Sleep Apnea with Chronic Intermittent Hypoxia/J.W. Kim, M.J. Kang, H.-J. Cho, Seoul, Korea, Republic of, p.A4547**

THEMATIC POSTER SESSION

B80-J INTERVENTIONAL PULMONOLOGY IN THORACIC ONCOLOGY

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area N, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: M.H. Tukey, MD, Providence, RI

- P1457 Managing Malignant Pleural Effusions with Pleurodesis Using Mistletoe Extract Via a Spray Catheter During Semi-Rigid Pleuroscopy/M. Lee, J. Eom, J. Mok, Busan, Korea, Republic of, p.A4548**
- P1458 Increased Diagnostic Yield When Endobronchial Ultrasound Guide Sheath Transbronchial Biopsies Are Coupled with Conventional Transbronchial Biopsies for Peripheral Lung Lesions/G. Sarwar, S. Twaddell, C. Grainge, D. Arnold, Newcastle, Australia, p.A4549**
- P1459 EBUS TBNA for Clarification of PET Positive FDG Avid Intrathoracic Lymph Nodes in a Tuberculosis Endemic Setting/U. Shah, N. Kishore, N. Dayal, New Delhi, India, p.A4550**
- P1460 Safety of Transbronchial Lung Biopsy Using Radial Probe Endobronchial Ultrasound and a Guide Sheath During the Learning Curve Phase/J. Mok, H. Na, J. Eom, E. Jo, M. Kim, K. Lee, K. Kim, H. Park, M. Lee, Busan, Korea, Republic of, p.A4551**
- P1461 Pulmonary Function Tests Before and After Airway Stent Removal/M. Oki, H. Saka, C. Kitagawa, Y. Kogure, M. Nakahata, S. Oka, K. Hori, Y. Ise, A. Ishida, F. Shigematsu, A. Yamada, Nagoya, Japan, p.A4552**
- P1462 Yield and Complications of Endobronchial Ultrasound Using the Expect™ Endobronchial Ultrasound Needle/K. Diab, F.-M. Kong, E. Bendaly, Indianapolis, IN, p.A4553**
- P1463 Endobronchial Ultrasound-Transbronchial Needle Aspiration (EBUS-TBNA) and Endoscopic Ultrasound-Fine Needle Aspiration (EUS-FNA) for Investigation of Mediastinal Lymphadenopathy in a UK District General Hospital/C. Nimmo, J. Gates, A. Kumar, R. Banka, Ilford, United Kingdom, p.A4554**
- P1464 Evaluation of the Gauge of Needles Used to Obtain Specimens During Endobronchial Ultrasound-Guided Transbronchial Needle Aspiration/G. Hong, J.H. Koo, D.H. Kim, J.S. Park, Y.K. Jee, Y.S. Kim, Cheonan, Korea, Republic of, p.A4555**

Facilitator: J.A. Akulian, MD, MPH, Chapel Hill, NC

- P1465 Incidence of Non-Caseating Granulomas Diagnosed in PET Avid Mediastinal/Hilar Nodes in Patients with Known Breast Cancer/C. Parks, R. Bechara, T. Webb, Newnan, GA, p.A4556**
- P1466 Tissue Acquisition During EBUS: Comparison of a 19G vs 21G Needle/E.M. Pickering, J. Heath, P. Staats, Y.S. Sangwan, A. Sachdeva, Baltimore, MD, p.A4557**
- P1467 Electromagnetic Navigation Guided Bronchoscopic Biopsy of Peripheral Lung Nodules/E.S. Kang, S.H. Lee, Y.J. Lee, J.S. Park, Y.-J. Cho, J.H. Lee, C.-T. Lee, H.I. Yoon, Seongnam-si, Korea, Republic of, p.A4558**
- P1468 Safety and Discomfort During Bronchoscopy Performed Under Sedation with Fentanyl and Midazolam: A Prospective Study/D. Minami, N. Takigawa, T. Ninomiya, T. Kubo, E. Ichihara, K. Ohashi, A. Sato, K. Hotta, T. Shibayama, N. Miyahara, M. Tabata, A. Kanehiro, K. Kiura, Okayama City, Japan, p.A4559**
- P1469 The First 100 Patients: A Tertiary Care Center's Experience with EBUS-TBNA/B. Lindgren, M. Garabedian, Los Angeles, CA, p.A4560**



- P1470 Safety of Bronchoscopy for Patients with Severe Neutropenia/K. Ando, Y. Sandhu, H. Takekawa, H. Takagi, M. Hirama, K. Kido, Tokyo, Nerima, Japan, p.A4561**
- P1471 Endobronchial Ultrasound as a Diagnostic Modality for Lung Cancer, Tuberculosis, Sarcoidosis and Lymphoma/P.S. Pandya, O. Kon, W. Lynn, R. Mathur, London, United Kingdom, p.A4562**
- P1472 Analysis of Chest Lymphadenopathy and Granulomatous Changes in Post-Treatment Non-Lung Non-Lymphoma Malignancy Patients/C.A. Austin, K. Birchard, D. Rea, K. Dover, J.A. Akulian, M.P. Rivera, Chapel Hill, NC, p.A4563**

Facilitator: A.A. Balekian, MD, MS, Los Angeles, CA

- P1473 Probe-Based Optical Fiberscopy with Guide Sheath: A Novel Method in Directly Observation of Small Peripheral Pulmonary Lesions by Bronchoscopy/M. Kosaka, M. Yasuo, F. Kinota, Y. Kitaguchi, N. Kobayashi, K. Tateishi, K. Urushihata, A. Ushiki, H. Yamamoto, M. Hanaoka, Matsumoto, Japan, p.A4564**
- P1474 Feasibility of Re-Biopsy in Patients with Non-Small Cell Lung Cancer After Failure of Epidermal Growth Factor Receptor Targeted Therapy/T.O. Kim, H.W. Seo, J.-S. Jang, H.-J. Shin, C.-K. Park, Y.-S. Kwon, Y.-I. Kim, S.-C. Lim, Y.-C. Kim, I.-J. Oh, Gwangju, Korea, Republic of, p.A4565**
- P1475 Electromagnetic Navigation Bronchoscopy (ENB): Retrospective and Prospective Analysis of Diagnostic Yield in Our Veteran Population/J. Albors, J. Martinez-Gonzalez, S. Galarza, W. Rodriguez-Cintrón, E. Adorno-Fontanez, J. Torres-Palacios, San Juan, PR, p.A4566**
- P1476 The Diagnostic Yield of Touch Preparation Technique in the Bronchoscopy Suite: A Retrospective Study/E. Charbek, R. Farhat, V. Goodwill, S. Patolia, E.B. Staros, R.P. Nayak, St. Louis, MO, p.A4567**
- P1477 Cryobiopsy for the Diagnosis of Intrathoracic Malignancy: An Eight Patient Case Review/D.R. DiNuoscio, K. Cao, M. Rumbak, Tampa, FL, p.A4568**
- P1478 Performance of EBUS Gauge 19 Versus 21/22 Needles: An Interim Analysis in a Single Center/C. Sciblo, G. Ranasuriya, T. Carter, P. Ochieng, Scranton, PA, p.A4569**
- P1479 Flexible Bronchoscopy with Transbronchial Biopsy Is Associated with Increased Diagnostic Yield and Complication Rates in Hematology/Oncology Patients/A.P. Morado, J.S. Moore, T. Ahmadi, W.T. Singh, A.A. Balekian, Los Angeles, CA, p.A4570**

Facilitator: I. Barjaktarevic, MD, MSc, Los Angeles, CA

- P1480 Feasibility and Safety of Using the Nasal Route for Convex Probe Endobronchial Ultrasound/D. Han, H. Kim, A.Y. Shin, J.S. Kim, J.H. Ahn, J. Ha, Seoul, Korea, Republic of, p.A4571**
- P1481 The Evaluation of a New Flexible 21G Peripheral Needle with Commercially Available and Prototype Ultrathin Bronchoscopes in a Swine Model/A. Sczaniecka, A. Tremblay, D. Dillard, S. Parthiban, X. Gonzalez, Redmond, WA, p.A4572**

- P1482 Usefulness of Forced Oscillation Technique in Assessment of Therapeutic Effect on Central Airway Obstruction/M. Yasuo, Y. Kitaguchi, F. Kinota, M. Kosaka, T. Ichiyama, N. Kobayashi, K. Tateishi, K. Urushihata, A. Ushiki, H. Yamamoto, M. Hanaoka, Matsumoto, Japan, p.A4573**
- P1483 Flexible Bronchoscopic Cryotherapy in Patients with Malignant Central Airway Obstruction/S.H. Kim, S.K. Kim, Y.M. Ko, S.H. Song, C.H. Kim, Suwon, Korea, Republic of, p.A4574**
- P1484 Role of Endobronchial Ultrasound-Guided Transbronchial Needle Aspiration in Potentially Resectable Subsolid Lung Cancer/J.Y. Cho, S.H. Lee, Y.J. Lee, J.S. Park, Y.-J. Cho, J.H. Lee, C.-T. Lee, H.I. Yoon, Seongnam-si, Korea, Republic of, p.A4575**
- P1485 Photodynamic Therapy for Peripheral Lung Cancers Using Composite-Type Optical Fiberscope of 1.0 mm in Diameter/J. Usuda, Tokyo, Japan, p.A7637**

THEMATIC POSTER SESSION

B80-K THORACIC ONCOLOGY CLINICAL OUTCOMES

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area N, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: D.E. Ost, MD, MPH, Houston, TX

- P1488 Physical Activity Behaviour After a Diagnosis of Lung Cancer Differs Between Countries: An Observational Cohort Study/J. Ni, L. Denehy, J. Feng, L. Xu, Y. Wu, C. Granger, Nantong, City, China, p.A4576**
- P1489 Clinical Outcomes in Patients with Non-Small-Cell Lung Cancer with Leptomeningeal Carcinomatosis/Y. Takahashi, S. Moriguchi, K. Ogawa, K. Murase, S. Mochizuki, S. Hanada, H. Uruga, A. Miyamoto, H. Takaya, N. Morokawa, A. Kurosaki, T. Fujii, K. Kishi, Tokyo, Japan, p.A4577**
- P1490 Effectiveness of Epidermal Growth Factor Receptor- Tyrosine Kinase Inhibitors on Non- Small Cell Lung Cancer Harboring Rare EGFR Mutations/L.-C. Chang, K.-Y. Chen, J.-Y. Shih, Taipei, Taiwan, p.A4578**
- P1491 Association Between Exercise Tolerance and Patient-Reported Outcomes in Lung Cancer Survivors/D. Ha, A.L. Ries, M.M. Fuster, La Jolla, CA, p.A4579**
- P1492 Characteristics, Management and Outcomes of Patients with Lung Cancer Admitted to the ICU: A Retrospective Study/H.M. Al-Dorzi, H. Tlajeh, A.H. Itani, M. Rafique, A. Saeedi, F. Anazi, A.-R. Jazieh, Y.M. Arabi, Riyadh, Saudi Arabia, p.A4580**
- P1493 Impact of Mild to Moderate COPD on Prognosis and Feasibility for Chemotherapy in Patients with Lung Cancer/N. Omote, N. Hashimoto, M. Morise, S. Miyazaki, A. Ando, Y. Hasegawa, Nagoya, Japan, p.A4581**



P1494 The Effects of Forced Expiratory Volume in One Second on the Treatment Response of Small Cell Lung Cancer/H.S. Kang, A.Y. Shin, C.D. Yeo, C.K. Park, J.S. Kim, S.J. Kim, S.H. Lee, Seoul, Korea, Republic of, p.A4582

P1495 Clinical Outcomes of Epidermal Growth Factor Receptor-Mutant Non-Small Cell Lung Cancer Patients with Brain Metastasis Treated with Erlotinib Versus Gefitinib/K. Saruwatari, S. Saeki, Y. Sakamoto, T. Jodai, S. Sakata, Y. Tomita, K. Nakamura, S. Hirosako, S. Okamoto, H. Ichiyasu, K. Fujii, H. Kohrogi, Kumamoto, Japan, p.A4583

Facilitator: K. Kiura, MD, PhD, Okayama, Japan

P1496 Study Evaluating Single-Center Retrospective Enteral Nutrition on the Survival of NSCLC Patients with Stage 3 or 4/A. Bouterfas, M. Patout, B. Melloni, Limoges, France, p.A4584

P1497 Chemotherapy for Patients with Advanced Non-Small Cell Lung Cancer Associated with Combined Pulmonary Emphysema and Fibrosis/A. Miyamoto, S. Moriguchi, Y. Takahashi, K. Ogawa, K. Murase, S. Mochizuki, S. Hanada, H. Uruga, H. Takaya, N. Morokawa, A. Kurosaki, K. Kishi, Tokyo, Japan, p.A4585

P1498 Non-Neutropenic Bacteremia During Chemotherapy of Lung Cancer/Y. Asato, K. Okabayashi, K. Marumo, Nakano Tokyo, Japan, p.A4586

P1499 Renal Toxicity in Elderly Patients After Cisplatin-Based Chemotherapy Using the Short Hydration Method/Y. Ito, T. Niwa, A. Tsuchida, Y. Matsuo, C. Komaki, Gifu, Japan, p.A4587

P1500 Safety of Chemotherapy for Hemodialysis Patients with Lung Cancer/Y. Sandhu, K. Ando, H. Takekawa, H. Takagi, M. Hiram, K. Kido, Tokyo, Nerima, Japan, p.A4588

P1501 Clinical Response to Crizotinib as a 1st and 2nd Line Therapy in ALK Positive Lung Cancer in an Indian Population/A.M. Baman, D.S. Sahni, A. Mohan, P.S. Malik, K. Madan, V. Hadda, G. Khilnani, R. Guleria, New Delhi, India, p.A4589

P1502 Role of Plasma EGFR in Diagnosing and Managing Lung Cancer Among Asian Patients/S. Saenghirunvattana, R. Bechara, S. Thongprasert, S. Chakrapee-Sirisuk, S. Sitawarin, C. Gonzales, K. Suthisri, Bangkok, Thailand, p.A4590

P1503 Pneumonic Adenocarcinoma: Presentation and Outcomes/D. Becnel, A. Biswas, P.S. Sriram, Gainesville, FL, p.A4591

Facilitator: A.I. Musani, MD, Milwaukee, WI

P1504 Primary Lung Cancer - a Clinicopathological Study from India/D. Bhattacharyya, S. Kakar, New Delhi, India, p.A4592

P1505 Implantation of Radioactive Iodine125 Seed in Relapsed Resistant Adenoid Cystic Carcinoma of Lung/Y. Xiong, Q. Li, Shanghai, China, p.A4593

P1506 The Prognostic Impact of the Neutrophil-to-Lymphocyte Ratio and Plate-Lymphocyte Ratio in Patients with Small Cell Lung Cancer/X.Y. Shi, S.J. Jiang, H.Z. Shi, Beijing, China, p.A4594

P1507 A Cross-Sectional Study on Predictors of Lung Cancer Patients Delay Time in Serbia/D. Jovanovic, B. Perin, M. Velinovic, M. Rancic, V. Ceriman, N. Samardzic, M. Markovic, Belgrade, Serbia And Montenegro, p.A4595

P1508 Lung Cancer Mortality by Smoking Intensity Among People with HIV in the United States/K.P. Reddy, T.P. Baggett, K.A. Freedberg, M. Huang, E.P. Hyle, C.Y. Kong, E. Losina, A.D. Paltiel, R.A. Parker, M.C. Weinstein, R.P. Walensky, Boston, MA, p.A4596

P1509 Long Term Results of VATS-SP Lobectomy for Lung Cancer/R. Ferreira, A. Sena, C. Carvalheiro, J. Cruz, Lisbon, Portugal, p.A4597

P1510 Quantitative Assessment of Erector Spinae Predict Mortality and Hospital Length of Stay After Lobectomy/K. Harris, C. Roche, S. Yendamuri, J. Karnyski, S. Singh Dhillon, Valhalla, NY, p.A4598

P1511 Pericardial Window for Malignant Pericardial Effusion with Lung Cancer Have Worse Long-Term Outcomes than Other Cancers/R.J. Chen, T.-C. Shen, Z. Hashmi, Indianapolis, IN, p.A4599

Facilitator: M.M. Wahidi, MD, MBA, Durham, NC

P1512 Characterization of Lung Nodules in Head and Neck Cancer/A. Conterato, A. Belanger, B. Chera, J.A. Akulian, Chapel Hill, NC, p.A4600

P1513 A Research About Minimally Invasive Thoracoscopic Esophagogastrectomy in Chest (408 Cases Reports)/Y. Liu, K. Fan, B. Yang, Beijing, China, p.A4601

P1514 Ground-Glass Nodules Detected with Low-Dose Computed Tomography Screening for Lung Cancer/S. Moriguchi, K. Amakawa, Y. Takahashi, K. Ogawa, K. Murase, S. Hanada, S. Mochizuki, H. Uruga, A. Miyamoto, H. Takaya, N. Morokawa, T. Hujii, A. Kurosaki, K. Kishi, Tokyo, Japan, p.A4602

P1515 Time to Treatment Outcomes from a Dedicated Pulmonary Nodule Clinic/V.K. Holden, S.R. Wappel, A.C. Verceles, J. Deepak, Baltimore, MD, p.A4603

P1516 Long-Term Survival, Short-Term Life Span and End-of-Life Periods After Radiotherapy of Stage III Lung Cancer: Frequency and Characterization Analysis in 133 Patients/F.L. Ampil, G. Caldito, T. Richards, G. Mills, M. Vora, S. Milligan, S. Devarakonda, Shreveport, LA, p.A4604

P1517 An Interdisciplinary Lung Cancer Clinic with Respiriologists and Oncologists: A Quality Improvement Pilot Project to Decrease Time to Oncology Assessment and Treatment for Patients with a New Diagnosis of Lung Cancer/G. Digby, H.M. Vaid, R. Selvam, N. Bhardwaj, S. Sandhu, S. Edmunds, E. Brown, A. Robinson, Kingston, Canada, p.A4605

P1518 Intensive Care Unit Procedure Utilization at the End of Life Among Patients with Cancer: A Community Hospital Network Experience/N.M. Kanodra, J.R. Rayburn, C.L. Wilshire, C.R. Gilbert, R.K. Weerasinghe, E. Craig, J.A. Gorden, Seattle, WA, p.A4606



THEMATIC POSTER SESSION

B80-L GENERAL THORACIC ONCOLOGY**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area N, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitators:** L.M. Kamman, MD, St. Paul, MN
P. Lee, MBBS, PhD, Singapore, Singapore

- P1520 Correlation of EGFR Mutation Status to Venous Thromboembolism in Patients with Lung Adenocarcinoma/H.** Shahzad, D. Datta, Farmington, CT, p.A4607
- P1521 Assessment of Plasma Klotho Concentration in Lung Cancer Patients/J.** Pako, I. Barta, A. Kerpel-Fronius, B. Antus, A. Bikov, I. Horvath, Budapest, Hungary, p.A4608
- P1522 Elevated Expression of MMP-2 and TIMP-2 Cooperatively Correlates with Risk of Lung Cancer/C.** Cao, W. Zhang, X. Huang, Ningbo, China, p.A4609
- P1523 Evaluation of the Microbiome Associated with Pneumonia in Lung Cancer Patient with Chemotherapy/J.M.** Lee, P. Moo Suk, J.Y. Jung, C.M. Ahn, E.H. Lee, J.E. Park, Seoul, Korea, Republic of, p.A4610
- P1524 The Various Clinical Faces of the Diffuse Idiopathic Pulmonary Neuroendocrine Cell Hyperplasia (DIPNECH)/A.** Frille, A. Oltmanns, H.-J. Seyfarth, T. Gradistanac, S. Hammerschmidt, F. Langer, C. Veith, R.M. Bohle, H. Wirtz, P.A. Schnabel, Leipzig, Germany, p.A4611

Facilitator: W.A. Bulman, MD, New York, NY

- P1525 The Utility of the Analyses of BALF by Molecular Biological Methods for the Diagnosis of Pulmonary Lymphomas/T.** Kido, T. Kawanami, H. Ishii, K. Watanabe, H. Kanako, Y. Suzuki, H. Yoshikawa, J. Kadota, N. Matsumoto, M. Nakazato, H. Ishimoto, A. Hara, N. Sakamoto, H. Mukae, K. Yatera, Kitakyushu, Japan, p.A4612
- P1526 Leukemic Bronchopulmonary Infiltrates in Patients with Chronic Lymphocytic Leukemia: The Culprit or a Bystander?/A.** Agrawal, A. Melamed, N. Gupta, M. Esposito, S. Koenig, S. Khanijo, New Hyde Park, NY, p.A4613
- P1527 Clinical and Misdiagnosed Analysis of Primary Pulmonary Lymphoma: A Retrospective Study/X.Y.** Huang, D. Yao, L.X. Wang, Wenzhou, China, p.A4614
- P1528 CLL Pneumopathy: A Forgotten Diagnosis/A.B.** Hilewitz, S. Koenig, S. Khanijo, New Hyde Park, NY, p.A4615
- P1529 Optimizing the Management of Chronic Obstructive Pulmonary Disease in Patients with Lung Cancer: A Study of Quality Improvement Initiatives/G.** Digby, A. Robinson, Kingston, Canada, p.A4616

Facilitator: G.L. Narsavage, PhD, MSN, RN, APRN, Columbia, SC

- P1530 A 3-Year Audit of EGFR Mutation Testing in a National Referral Laboratory/R.** Smyth, R. Cummins, T. O Grady, B. Doyle, K. Sheehan, M. Leader, M. Redmond, B. Hennessy, R. Morgan, E. Kay, Dublin, Ireland, p.A4617
- P1531 The Delphi Process in Clinical Lung Cancer Medicine: Lessons from the Inside/E.** Stone, N.M. Rankin, K.M. Fong, Darlinghurst, Australia, p.A4618
- P1532 Characteristics of Pneumonitis Associated with Immune Checkpoint Inhibitor Nivolumab; Preliminary Report/T.** Baba, F. Sakai, T. Kato, M. Kusumoto, H. Kenmotsu, H. Sugiura, J. Tominaga, K. Oikado, M. Sata, M. Endo, N. Yanagawa, S. Sasaki, T. Iwasawa, Y. Saito, Y. Fujiwara, Y. Ohe, N. Yamazaki, T. Koshiba, K. Kuwano, Yokohama, Japan, p.A4619
- P1533 Primary Tracheal Malignancies: A SEER Database Analysis/M.** Rahouma, M. Kamel, A. Nasar, S. Harrison, B. Lee, B. Stiles, N. Altorki, J.L. Port, New York, NY, p.A4620
- P1534 Late Presentation of Lung Cancer in the Developing World and the Unique Challenges We Face in Managing this Disease: Assessment of Quality of Life (QOL), Performance Status (PS) and Their Correlation with Staging at the Time of Diagnosis/A.** Khanna, Delhi, India, p.A7638

THEMATIC POSTER SESSION

B80-M IMAGING IN THORACIC ONCOLOGY**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area N, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** C.M. Kinsey, MD, MPH, Burlington, VT

- P1535 An Audit of CT Chest Reports and Their Potential Impact on the Workup of Patients with Suspected Lung Cancer/A.** Weinstock, C. Savard, A.V. Gonzalez, Montreal, Canada, p.A4621
- P1536 Clinically N0 Non-Small Cell Lung Cancer Patients Without Bone Pain Do Not Need Bone Imaging/M.** Saito, H. Kage, T. Ando, Y. Amano, Y. Goto, T. Nagase, Tokyo, Japan, p.A4622
- P1537 Associations Between the Standardized Uptake Value of 18F-FDG PET/CT and Prognostic Factors of Lung Cancer Arising from the Middle Lobe/C.A.** Ozturk, D. Gurer, H. Yilmaz, C. Tezel, L. Alpay, M. Kavas, A. Ozturk, I. Yalcinkaya, Maltepe Istanbul, Turkey, p.A4623
- P1538 All Clinical Stage I Non-Small Cell Lung Cancer Patients Need Brain Imaging/T.** Ando, H. Kage, M. Saito, Y. Amano, Y. Goto, T. Nagase, Tokyo, Japan, p.A4624



Facilitator: T. Harkin, MD, New York, NY

P1539 Imaging Hemoptysis: Normal Computed Tomography Has High Negative Predictive Value for Lung Cancer/S.E.E.
Stephens, C. Burke, C.R. Bellinger, E.F. Haponik,
Winston-Salem, NC, p.A4625

P1540 Accuracy of FDG-PET to Diagnose Lung Cancer in Northwest Ohio/N. Kozodoy, A. Flora, J.C. Willey, Toledo, OH, p.A4626

P1541 Can PET/CT Predict the Diagnostic Yield of Ultrasound-Guided Transthoracic FNA/A. Fidan, C. Dogan, S.S. Comert, N. Kiral, B. Salepci, E.T. Parmaksiz, B. Caglayan, Istanbul, Turkey, p.A4627

Facilitator: V.S. Nair, MD, Stanford, CA

P1542 Evaluate the Utility of the Computed Bioconductance Measurement in the Diagnosis of Lung Cancer/D. Yang, R. Yung, J. Li, N. Wang, X. Gong, J. Lu, Y. Gu, X. Zhang, T. Ren, H. Wang, W. Zhang, J. Zhou, C. Bai, Shanghai, China, p.A4628

P1543 Computed Tomography (CT) and Photon Emission Tomography (PET) Findings and Endobronchial Ultrasound (EBUS) Fine Needle Aspiration (FNA) Results in an Area with Endemic Histoplasmosis/A. Flora, N. Kozodoy, F. Netry, J. Willey, Toledo, OH, p.A4629

P1544 Effects of Incidental Coronary Artery Calcification Visualized During Lung Cancer Screening on Cardiovascular Risk Prediction/M. Pirzadeh, A. Ghosh, K. Sloan, A.J. Walkey, Boston, MA, p.A7639

11:45 a.m. - 1:15 p.m.

ATS WOMEN'S FORUM

RENAISSANCE WASHINGTON DOWNTOWN
Grand Ballroom North (Ballroom Level)

The annual ATS Women's Forum recognizes the achievements and supports the advancement of women in pulmonary, critical care, and sleep medicine and research. We are pleased to have **Redonda Miller, MD, MBA**, of The Johns Hopkins Hospital, as our speaker. In May, 2016 Dr. Miller became the hospital's eleventh president and the first woman to hold the position in the hospital's 127-year history. She has a long history with Johns Hopkins starting with earning her medical degree there. While at Hopkins' Department of Medicine, Dr. Miller focused her academic and clinical career on medical education and women's health. She will discuss issues that are relevant to female medical professionals followed by a question and answer period.

In addition, the 2017 Elizabeth A. Rich, MD Award, which honors the memory and work of Elizabeth Rich, MD, will be presented to a female ATS member. The awardee is given to a woman who has made significant achievements in the practice or science of pulmonary, critical care, or sleeps medicine; demonstrated leadership in her field; and has shown dedicated mentorship of junior colleagues. The 2017 award recipient is **Zea Borok, MD**, Professor Department of Medicine, Ralph Edgington Chair, Chief Division of Pulmonary Critical Care and Medicine, Keck School of Medicine, University of Southern California, Los Angeles, CA. Dr. Borok will also address the audience.

The forum provides a valuable opportunity for women to meet new colleagues and ATS leaders. Men are also welcome to attend the forum. Attendees will find value in the inspirational messages and career insights the speakers share as well as vibrant networking opportunities.

The forum is organized and presented by the ATS Membership Committee, and will be hosted by **Yolanda Mageto, MD, MPH**, chair of the committee.

Conference badges are required for admission.

*Space is limited and admittance is on a first-come, first-served basis.
There is no additional fee. A plated lunch will be served.*



BEHAVIORAL • CLINICAL

WORKSHOP

CME Credits Available: 1.5

WS3 MEDICAL SIMULATION TO IMPROVE ICU SAFETY

Registration Fee: \$75 (includes box lunch)
Attendance is limited. Pre-registration is required.

Assemblies on Critical Care; Behavioral Science and Health Services Research; Nursing

11:45 a.m. - 1:15 p.m.

MARRIOTT MARQUIS WASHINGTON

Archives (Level M4)

Target Audience

Nurses, physicians, respiratory therapists, simulation technicians and other medical educators who train teams of interprofessional groups related to critical care (code teams, rapid response teams, ICU teams) and/or those Nurses, physicians, respiratory therapists, simulation technicians and other medical educators who train teams of interprofessional groups related to critical care (code teams, rapid response teams, ICU teams) and/or those who assess competence of critical care providers (physicians, nurses, mid-level practitioners) to perform critical care procedures

Objectives

At the conclusion of this session, the participant will be able to:

- recognize the simulation-based educational platforms that can be used to improve ICU safety;
- apply team debriefing concepts to effectively train interdisciplinary critical care teams;
- use simulation to implement a deliberate practice model and a testing process to establish competence prior to performance of critical care procedures.

This workshop will explore the concepts of simulation-based medical education (SBME) as related to ICU safety, specifically interprofessional education (IPE) also known as team training, as well as deliberate practice and assessment of competence to perform critical care procedures. We will start the workshop reviewing these concepts, the data regarding these practices with respect to ICU safety will and areas of uncertainty. We will then break into small groups led by facilitators so that each group can practice debriefing interprofessional critical care teams as well as develop a deliberate practice model and competency for procedural training relevant to their practice at their home institution.

Chairing: N. Seam, MD, Bethesda, MD
N. Knudsen, MD, Durham, NC

11:45 Simulation and ICU Safety
N. Seam, MD, Bethesda, MD

12:00 Practical Tips to Effective Debriefing
G. Ng, MS, CNM, RNC-OB, C-EFM, New York, NY

12:10 Practicum: Debriefing Critical Care Teams in Simulation
G. Ng, MS, CNM, RNC-OB, C-EFM, New York, NY
N. Knudsen, MD, Durham, NC

12:40 Practicum: Competency for Critical Care Procedures
J. Mikita, MD, Bethesda, MD
N. Seam, MD, Bethesda, MD

1:10 Conclusions/Next Steps
N. Knudsen, MD, Durham, NC

BEHAVIORAL • CLINICAL

CAREER DEVELOPMENT FORUM

CME Credits Available: 1.5

WS4 CAREER ADVANCEMENT FOR CLINICIAN EDUCATORS: FOSTERING LEADERSHIP, SCHOLARSHIP AND OPPORTUNITIES FOR SUCCESS

This Forum is part of the ATS initiative to offer program specifically geared toward the professional development of trainees, fellows and students to aid in the pursuit of successful careers in pulmonary, critical care and sleep medicine.

Pre-registration is required. Attendance is limited. There is no additional fee.

Assembly on Behavioral Science and Health Services Research; Members in Transition and Training Committee; Education Committee; Section on Medical Education

11:45 a.m. - 1:15 p.m.

MARRIOTT MARQUIS WASHINGTON

Capitol/Congress (Level M4)

Target Audience

Trainees and junior faculty interested in careers as clinician educators although all clinician educators are likely to benefit from this session

Objectives

At the conclusion of this session, the participant will be able to:

- identify opportunities for scholarship and leadership in medical education locally, regionally and nationally;
- better understand existing career opportunities and strategies for successful acquisition of a job as a clinician educator;
- describe opportunities for production of scholarly work as a clinician educator.

During this interactive session, participants will have the opportunity to hear from successful, nationally recognized clinician educators in pulmonary and critical care medicine regarding career pathways in the field. The focus will be on career development and job attainment. Topics will include developing a clinical niche, scholarly productivity and finding opportunities for collaboration and leadership locally, regionally and nationally through organizations like the ATS.

Chairing: S. Kassutto, MD, Philadelphia, PA
T.S. Wang, MD, Los Angeles, CA

11:45 Introduction and Overview of Clinician Educator Career Pathways in Pulmonary and Critical Care
S. Kassutto, MD, Philadelphia, PA
T.S. Wang, MD, Los Angeles, CA

11:55 Job Hunting and Negotiations
J. Hansen-Flaschen, MD, Philadelphia, PA
H. Fessler, MD, Baltimore, MD
J.T. Poston, MD, Chicago, IL
R. Kotloff, MD, Cleveland, OH
J.W. McCallister, MD, Columbus, OH
G. Tino, MD, Philadelphia, PA
T.S. Wang, MD, Los Angeles, CA
M.M. Hayes, MD, Boston, MA



- 12:35 Maximizing Scholarly Productivity**
D. Roberts, MD, Boston, MA
- 12:55 Networking and Harnessing Your Leadership Potential**
K. Burkart, MD, New York, NY
P.A. Kritek, MD, Seattle, WA

CLINICAL

ADULT CLINICAL CORE CURRICULUM

CME Credits Available: 1.5

MOC Points Available: 1.5

CC2 PULMONARY CLINICAL CORE CURRICULUM I

Adult Clinical Core Curriculum Working Group

11:45 a.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Hall E (Middle Building, Level 2)

Target Audience

Practicing internists and subspecialists in Pulmonary, Critical Care, and Sleep medicine who work in a clinical setting and are currently engaged in maintenance of certification

Objectives

At the conclusion of this session, the participant will be able to:

- remain current with medical knowledge relevant to their practice in pulmonary, critical care, and sleep medicine;
- evaluate their understanding of key skills and content areas in pulmonary, critical care and sleep medicine, as well as receive feedback on their comprehension of a result of a pre-test/post-test comparison;
- support clinicians who are engaged in maintenance of certification activities by providing updates on subjects included in recertification requirements.

The ATS Clinical Core Curriculum Symposia focus on a 3-year content cycle of key medical content in the areas of Pulmonary, Critical Care, and Sleep Medicine. The topics are also aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to assist clinicians with staying current with the growth of information relevant to their medical practice, as well as provide an opportunity to evaluate individual knowledge and skills while earning MOC Medical Knowledge points.

Chairing: C.L. Channick, MD, Boston, MA

- 11:45 Venothromboembolic Disease (Acute to Chronic)**
B. Rivera-Lebron, MD, MS, Pittsburgh, PA
- 12:15 Pleural Disease**
F. Maldonado, MD, Nashville, TN
- 12:45 Smoking Cessation, Electronic Cigarettes, and Other Adjuncts (VAPE)**
C.G. Slatore, MD, Portland, OR

CENTERS FOR DISEASE CONTROL AND PREVENTION

L11 UPDATE FROM CDC'S TB TRIALS CONSORTIUM AND THE TB EPI STUDIES CONSORTIUM

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 143 A-C (Middle Building, Street Level)

Target Audience

Clinicians and other health professionals involved in clinical and public health aspects of TB prevention, clinical care and control

Objectives

At the conclusion of this session, the participant will be able to:

- utilize better the new diagnostics for LTBI;
- improve the management of LTBI in the private sector;
- describe new findings about shorter treatments for active TB.

CDC's two TB research consortia are engaged in clinical trials and epidemiologic studies relevant to the clinical and public health management, and prevention of tuberculosis. This session provides updates from both groups.

Chairing: P. Nahid, MD, MPH, San Francisco, CA
C. Ho, MD, MPH, Atlanta, GA

12:15 Mining Health Insurance Claims to Examine LTBI Testing, Treatment, and Cure in the Private Sector

E. Stockbridge, MA, Fort Worth, TX

12:30 Updates on IGRA Sub-Studies From the Tuberculosis Epidemiologic Studies Consortium

J. Wu, MD, PhD, Atlanta, GA

12:45 TBTC: Update on Progress Towards Ultra-Short Therapies for Latent TB Infection

T. Sterling, MD, Nashville, TN

1:00 TBTC: Shorter Therapy for Active Drug-Sensitive Tuberculosis
S. Dorman, MD, Baltimore, MD

NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES (NIAID) NIH

L12 HOW DO RESPIRATORY MICROBES CONTRIBUTE TO ASTHMA?

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 207 A-B (South Building, Level 2)

Target Audience

ATS conference attendees with an interest in clinical asthma, microbiology (virology and microbiome), mechanisms of allergic inflammation, and genetic pathways that regulate risks for asthma and immune response to microbes, and are associated with asthma exacerbations

Objectives

At the conclusion of this session, the participant will be able to:



- learn new findings about how microbial communities in the airways influence asthma outcomes;
- discuss how viruses and bacteria interact to influence cold severity and asthma exacerbations;
- learn new findings about gene expression pathways in the airways and peripheral blood immune system that influence asthma outcomes.

Airway microbes determine many aspects of asthma, including risk factors for asthma development, asthma exacerbations, and disease persistence and severity. The NIH-sponsored Inner City Asthma Consortium has gained insight into the roles of environmental microbes, respiratory viruses and bacteria, as factors in asthma development and the relationship and contribution to asthma exacerbations. This session will allow attendees to understand the role of the microbiome as a risk for asthma and the effects of respiratory viruses on the airway microbiome in relation to asthma exacerbations; and the transcriptomic pathways associated with respiratory infections and exacerbations.

Chairing: P.J. Gergen, MD, MPH, Rockville, MD

- 12:15 The Microbiome and Asthma Development: Friend or Foe?**
S.V. Lynch, PhD, San Francisco, CA
- 12:30 The Interplay Between Viruses and Bacteria in Asthma Exacerbations**
D.J. Jackson, MD, Madison, WI
- 12:45 What Pathways Do Microbes Activate that Lead to Asthma Exacerbation?**
M.C. Altman, MD, MPhil, Seattle, WA

NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES (NIEHS) NIH

L13 ENVIRONMENTAL INFLUENCES ON CHILDREN'S PULMONARY HEALTH

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 202 A (South Building, Level 2)

Target Audience

Basic and clinical researchers, physicians, pulmonologists and community and public health specialists

Objectives

At the conclusion of this session, the participant will be able to:

- expand the knowledge on the environmental influence on lung growth and function;
- gain knowledge on the role of modifying factors such as diet and obesity;
- understand environmental origins of disease and preventive measures.

Children are recognized as a susceptible population to the effects of environmental contaminants. To address this important public health issue, the NIEHS has initiated a research program specifically focused to address this issue and partnered with other federal agencies such as the U.S. EPA to explore ways to reduce children's health risks from environmental factors. In this session the NIEHS funded researchers will share how their recent findings are providing molecular understanding on pulmonary dysfunction and what preventive strategies are being explored to protect children's health and also at

the same time can inform public policy changes to reduce exposure to chemical pollutants in the ambient air.

Chairing: S.S. Nadadur, PhD, Durham, NC
K.C. Nadeau, MD, PhD, Stanford, CA

- 12:15 Introduction**
S.S. Nadadur, PhD, Durham, NC
- 12:20 The Role of Indoor Allergens and Pollutants in Childhood Asthma: Findings from the Johns Hopkins Center for Childhood Asthma in the Urban Environment**
G.B. Diette, MD, MHS, Baltimore, MD
- 12:37 Multifaceted Effects of Tobacco Smoke on Immunity**
K.C. Nadeau, MD, PhD, Stanford, CA
- 12:54 Environmental Influences on Child Health Outcomes (ECHO) Program**
K. Gray, PhD, Research Triangle Park, NC

CENTER FOR DRUG EVALUATION AND RESEARCH, FDA

L14 GENERIC DRUG DEVELOPMENT FOR RESPIRATORY PRODUCTS: U.S. FOOD AND DRUG ADMINISTRATION UPDATE

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 204 A-C (South Building, Level 2)

Target Audience

Clinicians in practice, researchers, pharmaceutical industry representatives, international drug regulators

Objectives

At the conclusion of this session, the participant will be able to:

- recognize key aspects of the generic drug regulatory approval process, and how the Office of Generic Drugs (OGD) evaluates bioequivalence for complex inhaled generic drug products, using a weight-of-evidence approach;
- describe product-specific recommendations and guidances for generic drug products recently posted by the Office of Generic Drugs (OGD), with a focus on how these can inform complex orally inhaled and nasal generic drug development;
- articulate how emerging technologies and innovative approaches are being utilized for FDA-funded research, FDA guidance development, and regulatory decision-making.

This session will describe respiratory product development of generic drugs within the U.S., focusing on paths forward to bring safe and effective generic respiratory products to the American public. A general overview will summarize the generic drug approval process, focusing on the weight-of-evidence approach to bioequivalence used. Discussion of recent posted regulatory guidance and product approvals will provide the audience a greater understanding of the generic approval process, and how the use of emerging technologies and outcomes of research projects contribute to scientific understanding for these complex orally inhaled and nasal drug products to inform regulatory actions will be explained.



Chairing: K.A. Witzmann, MD, Silver Spring, MD

12:15 Introduction

K.A. Witzmann, MD, Silver Spring, MD

12:18 Overview of FDA Generic Inhaled Drug Approval Process

M. Luke, MD, PhD, Silver Spring, MD

12:35 Update for Generic Orally Inhaled and Nasal Drug Products

K.A. Witzmann, MD, Silver Spring, MD

12:52 Emerging Technologies for Bioequivalence of Orally Inhaled and Nasal Drug Products

D.S. Conti, PhD, Silver Spring, MD

1:09 Questions and Answers

K.A. Witzmann, MD, Silver Spring, MD

**VETERANS ADMINISTRATION RESEARCH
AND DEVELOPMENT PROGRAM**

**L15 VA CAREER DEVELOPMENT AWARDS: HOW THEY
CAN LAUNCH ACADEMIC CAREERS**

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 102 A-B (South Building, Street Level)

Target Audience

Young pulmonary investigators; VA-based pulmonary investigators

Objectives

At the conclusion of this session, the participant will be able to:

- learn about opportunities to conduct pulmonary research through the VA Career Development Program;
- determine how he/she can transition to an independent research career through participating in period of mentored training in the VA that also will allow him/her be an academic pulmonary faculty member during the period of training;
- determine eligibility and requirements, as well as how to apply, for a VA Career Development Award.

The VA Career Development Program is intended to attract talented researchers working in areas of particular importance to the health of veterans. The awards provide 3-5 years of full salary support, usually at the Assistant Professor level. The program has a rich history of supporting young investigators who have gone on to become funded VA-based scientists. Awardees participate in an interactive, mentored training program that leads to independence in research. The goal of this session is to increase awareness among pulmonary investigators of this important career development program.

Chairing: J.K. Brown, MD, San Francisco, CA

K. Myrie, PhD, Washington, DC

L. Nici, MD, Providence, RI

12:15 Who, When, and How?

K. Myrie, PhD, Washington, DC

12:35 Perspectives from a Current Awardee

J.R. Greenland, MD, PhD, San Francisco, CA

12:55 Perspectives from 25 Years Out

J.M. Beck, MD, Denver, CO

**NATIONAL HEART, LUNG, AND BLOOD INSTITUTE,
DIVISION OF LUNG DISEASES, NIH**

L16 NEW RESULTS FROM THE COPDGENE STUDY

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 145 A-B (Middle Building, Street Level)

Target Audience

Clinicians or researchers

Objectives

At the conclusion of this session, the participant will be able to:

- learn about imaging in the COPDGene study;
- learn about subtypes identified by the COPDGene study;
- learn about longitudinal follow-up in the COPDGene study.

Chronic obstructive pulmonary disease (COPD), the third leading cause of death in the United States, is a heterogeneous syndrome. The COPDGene study has created the largest cohort of well-characterized current and former smokers for respiratory disease research. The primary goals of COPDGene are: 1) to identify new genetic loci that influence the development of COPD and COPD-related phenotypes and 2) to reclassify COPD into subtypes that can ultimately be used to develop effective therapies. This session will describe the progress and future plans of the COPDGene study.

Chairing: J.D. Crapo, MD, Denver, CO

L. Postow, PhD, Bethesda, MD

E.K. Silverman, MD, PhD, Boston, MA

12:15 Disease Progression in COPD

P.J. Castaldi, MD, MSc, Boston, MA

12:25 COPD Genetics: From GWAS to Sequencing

M.H. Cho, MD, MPH, Boston, MA

12:35 Paraseptal Emphysema in COPDGene

E. Regan, MD, PhD, Denver, CO

12:45 Defining Disease Axes of COPD

G. Kinney, MPH, PhD, Denver, CO

12:55 Parenchyma in Chest CT Scans

G. Washko, MD, Boston, MA

**NATIONAL HEART, LUNG, AND BLOOD INSTITUTE,
DIVISION OF LUNG DISEASES, NIH**

**L17 PREVENTION AND EARLY TREATMENT OF ACUTE
LUNG INJURY CLINICAL TRIAL NETWORK (NHLBI
PETAL)**

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 147 A-B (Middle Building, Street Level)

Target Audience

Practicing critical care and emergency medicine clinicians and clinical researchers would benefit from this session. This includes fellows, students, nurses, and other medical professionals; persons interested in clinical trial design and conduct would also benefit from this session

**Objectives**

At the conclusion of this session, the participant will be able to:

- understand the goals and structure of the PETAL network;
- learn new findings about ongoing PETAL trials;
- results may suggest new strategies to manage care of ARDS patients.

This session will provide an update on the NHLBI Prevention and Early Treatment of Acute Lung injury (PETAL) clinical trials network. The session will describe progress in ongoing trials and plans for future trials.

Chairing: R.G. Brower, MD, Baltimore, MD
A.L. Harabin, PhD, Bethesda, MD
L. Reineck, MD, Bethesda, MD

- 12:15 PETAL Introduction**
R.G. Brower, MD, Baltimore, MD
- 12:20 Results from LOTUS-FRUIT Trial**
M.N. Gong, MD, MS, Bronx, NY
- 12:35 Results from the VIOLET Trial**
A. Ginde, MD, MPH, Aurora, CO
- 12:50 Update on the ROSE Trial**
D. Huang, MD, Pittsburgh, PA
- 1:00 Introduction to CLOVERS**
N. Shapiro, MD, MPH, Boston, MA

**NATIONAL HEART, LUNG, AND BLOOD INSTITUTE,
DIVISION OF LUNG DISEASES, NIH**

**L18 NEW INSIGHTS ABOUT SEVERE ASTHMA FROM
THE NHLBI SEVERE ASTHMA RESEARCH
PROGRAM**

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 152 A-B (Middle Building, Street Level)

Target Audience

Providers of lung health, especially providers who manage patients with asthma; Investigators interested in mechanisms of disease in asthma.

Objectives

At the conclusion of this session, the participant will be able to:

- learn about new findings about clinical and molecular phenotypes of severe asthma;
- more appropriately refer to approaches being taken by NHLBI to improve understanding of severe asthma and accelerate progress toward new treatments;
- understand the role of androgens, estrogen and progesterone in affecting asthma epidemiology and severity.

In this session on work in progress in the NHLBI-sponsored severe asthma research program, there are four presentations planned to provide the learner with a cutting-edge, data-driven understanding of the clinical features of pediatric and adult severe asthma. Each presentation will cover the context, rationale and recent progress in addressing clinically relevant questions in severe asthma pathobiology, diagnosis and management, including baseline

cross-sectional data on recruited healthy and asthmatic subjects, their response to systemic corticosteroids, risk factors for asthma exacerbations as well as advances in imaging for the detection of pathologic mucus and its association with clinical outcome.

Chairing: N.N. Jarjour, MD, Madison, WI
P. Noel, PhD, Bethesda, MD

- 12:15 Update on Clinical/Inflammatory Phenotypes**
S.E. Wenzel, MD, Pittsburgh, PA
- 12:30 Hormonal Influences in Severe Asthma**
B. Gaston, MD, Cleveland, OH
- 12:45 Genetics in Severe Asthma: Data from TopMED**
D. Meyers, PhD, Winston-Salem, NC
- 1:00 Molecular and Cellular Stability of Severe Asthma Phenotypes**
A. Hastie, PhD, Winston-Salem, NC
M. Peters, MD, San Francisco, CA

**NATIONAL HEART, LUNG, AND BLOOD INSTITUTE,
DIVISION OF LUNG DISEASES, NIH**

**L19 NHLBI PVDOMICS PROGRAM: DEEP
PHENOTYPING OF PULMONARY VASCULAR
DISEASES IN PATIENTS**

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 146 C (Middle Building, Street Level)

Target Audience

Health providers, trainees, and researchers

Objectives

At the conclusion of this session, the participant will be able to:

- learn about current deep-phenotyping of PH;
- learn about integrative genomics analyses in PAH;
- learn about right ventriculo-arterial physiologic and morphologic phenotyping.

Pulmonary hypertension (PH) currently has no cure, thus PH research remains a high priority for NHLBI. Recently, NHLBI launched a major multi-center clinical study of PH named: Redefining Pulmonary Hypertension through Pulmonary Vascular Disease Phenomics (PVDOMICS). This program includes one data coordinating center (DCC) and six clinical centers that conduct observational clinical studies and data analysis in patients with all types of PH. Currently, the program has completed setting up the protocol and started patient enrollment in 2016. This session will introduce this NHLBI program and present data from the study.

Chairing: L. Xiao, MD, PhD, Bethesda, MD
N.S. Hill, MD, Boston, MA
G.J. Beck, PhD, Cleveland, OH

- 12:15 Overview of NHLBI PVDOMICS Program and Initial Progress Report**
N.S. Hill, MD, Boston, MA



- 12:27 PROs in PH: Leveraging PVDOMICS to Understand the Patient Perspective**
S. Mathai, MD, MHS, Baltimore, MD
- 12:39 Integrative Genomics Analyses in PAH**
M. Aldred, PhD, Cleveland, OH
- 12:51 Invasive CPET for Deep Physiologic Phenotyping**
D. Systrom, MD, Boston, MA
- 1:03 Right Ventriculo-Arterial Physiologic and Morphologic Phenotyping in Hispanic and Non-Hispanic Cohorts**
F. Rischard, MD, Tucson, AZ

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, DEPARTMENT OF LABOR

L20 THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S RULE ON RESPIRABLE CRYSTALLINE SILICA

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 202 B (South Building, Level 2)

Target Audience

Health care professionals who are interested in learning more about OSHA's respirable crystalline silica rule, especially those who may provide medical examinations required under the rule.

Objectives

At the conclusion of this session, the participant will be able to:

- understand the respirable crystalline silica rule and what is required under that rule such as controls to protect workers and required medical tests;
- recognize workers who are at risk of developing silica-related disease based on jobs they perform, diagnose disease in those workers, and determine when a specialist evaluation is appropriate;
- understand how to counsel workers based on the findings of the medical examination and report the appropriate information to the employer so that the workers privacy is not compromised.

Presenters will give an overview of OSHA's respirable crystalline silica (silica) rule, which affects 2.3 million workers in the United States. Attendees will learn how workers are exposed to silica in various industries and the health risks to those workers - including silicosis, lung cancer, other non-malignant lung disease, and kidney disease. Presenters will summarize the rule requirements including the new permissible exposure limit, exposure assessments, controlling exposures, limiting access to high exposure areas, housekeeping, and worker training. The course will focus on medical surveillance requirements and resources available to health care professionals who will be conducting medical examinations.

Chairing: D. O'Connor, MPH, Washington, DC

- 12:15 Introduction of Speakers**
D. O'Connor, MPH, Washington, DC
- 12:17 Health Risks of Silica Exposures and Benefits of New Rule**
S. Schayer, PhD, Washington, DC
- 12:28 Industries with Silica Exposures and Overview of Rule**
J. Schifano, JD, MPH, Washington, DC

- 12:39 Overview of Medical Surveillance Requirements of Rule**
A. Iannucci, MS, Washington, DC
- 12:50 Guidance and Resources for Health Care Professionals**
K. Fagan, MD, MPH, Washington, DC
- 1:05 Panel Discussion**

MEET THE PROFESSOR SEMINARS

CME Credits Available: 1

Registration Fee: \$70.00 (includes box lunch.)
Attendance is limited. Pre-registration is required.

12:15 p.m. - 1:15 p.m. MARIOTT MARQUIS WASHINGTON

- MP501 DEVELOPMENT AND DIAGNOSIS OF ABPA**
M. Singh, MD, Chandigarh, India
George Washington University (Level M1)
- MP502 THE ROLE OF YOUTH AND CAREGIVER ANXIETY AND DEPRESSION IN PEDIATRIC ASTHMA CONTROL**
J. Bruzzese, PhD, New York, NY
Georgetown University (Level M1)
- MP503 MULTIDISCIPLINARY EVALUATION AND MANAGEMENT OF CTD-ILD**
A. Fischer, MD, Aurora, CO
J.S. Lee, MD, Aurora, CO
Howard University (Level M1)
- MP504 ALPHA-1 ANTITRYPSIN DEFICIENCY: STATE OF THE ART**
J. Stoller, MD, Cleveland, OH
Gallaudet University (Level M1)
- MP505 TARGETED THERAPY FOR COPD: HAVE WE REACHED AN ERA OF PERSONALIZED MEDICINE?**
S.S. Braman, MD, New York, NY
Catholic University (Level M1)
- MP506 CF UPDATE FOR THE NON-CF PROVIDER**
G. Allada, MD, Portland, OR
University of DC (Level M1)
- MP507 PULMONARY INFECTIOUS COMPLICATIONS AFTER LUNG TRANSPLANTATION**
L.D. Snyder, MD, MHS, Durham, NC
Marquis Salon 14 (Level M2)
- MP508 PATHOLOGY OF LUNG TRANSPLANTATION**
K.D. Jones, MD, San Francisco, CA
Marquis Salon 13 (Level M2)
- MP509 OPTIMIZING MECHANICAL VENTILATION FOR INFANTS AND CHILDREN**
I.M. Cheifetz, MD, Durham, NC
Marquis Salon 12 (Level M2)
- MP510 RETHINK WHAT YOU KNOW ABOUT AIR POLLUTION: MULTI-POLLUTANT APPROACH**
M. Akpınar-Elci, MD, MPH, Norfolk, VA
H. Bayram, MD, PhD, Gaziantep, Turkey
Union Station (Level M3)



- MP511 CLINICAL ADVANCES IN PLEURAL INFECTION AND IN PNEUMONIA**
Y.C.G. Lee, MBChB, PhD, Perth, Australia
G.W. Waterer, MBBS, PhD, MBA, Perth, Australia
Chinatown (Level M3)
- MP512 RESPIRATORY SYMPTOM RESEARCH: CONSIDERATIONS FOR PROPOSALS, PUBLICATIONS, AND REVIEWERS**
P.M. Meek, PhD, RN, Denver, CO
Mount Vernon Square (Level M3)
- MP513 NEW FRONTIERS IN G PROTEIN COUPLED RECEPTORS: RELEVANCE TO ASTHMA AND COPD**
D.A. Deshpande, PhD, Philadelphia, PA
Judiciary Square (Level M3)
- MP514 HOSPITAL SLEEP MEDICINE: THE ELEPHANT IN THE ROOM**
S. Sharma, MD, Philadelphia, PA
LeDroit Park (Level M3)
- MP515 TARGETED THERAPY FOR LUNG CANCER: WHAT THE PULMONOLOGIST NEEDS TO KNOW**
J.R. Jett, MD, Denver, CO
Shaw (Level M3)

BEHAVIORAL**MEDICAL EDUCATION SEMINAR**

CME Credits Available: 1

ME2 EDUCATIONAL VIDEOS: WHY AND HOW TO MAKE THEM

 **Registration Fee: \$70 (includes box lunch)**
Attendance is limited. Pre-registration is required.

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 101 (South Building, Street Level)

Target Audience

Anyone interested in making videos to teach patients, medical students, residents, fellows, faculty and/or other medical health professionals.

Objectives

At the conclusion of this session, the participant will be able to:

- create an educational video;
- critically review educational videos;
- choose and use software to make videos.

During this session, you will have the opportunity to create a short educational video under guidance from the facilitators. We will start by providing some hints and tips on best practices for video creation. We will review a few of the frequently used programs for video creation. We will then help participants make a short video in groups using freely available software and a prepared storyboard. You will be able to keep this video and you will have learned the skills necessary to start producing your own educational videos. Participants will need to bring their own laptop.

Speakers: A.S. Clay, MD, Durham, NC
W.G. Carlos, MD, MSCR, Indianapolis, IN
R. Adamson, MBBS, Seattle, WA
M.C. Miles, MD, Winston-Salem, NC

THEMATIC SEMINAR SERIES

CME Credits Available: 1

TSS1 EVOLVING CONCEPTS IN EARLY COPD

 **Registration Fee: \$170 for full series (includes box lunch)**
Attendance is limited. Pre-registration is required.

This is part 2 of a 4-part series. Those registering for this seminar series will be registered for all 4 parts. The program for the full series is included with the Sunday, May 21, 12:15 p.m. program.

Monday 12:15 p.m. - 1:15 p.m. MARRIOTT MARQUIS WASHINGTON

Monument (Level M4)

The Symptomatic Smoker: The Need to Bring Back Gold 0
P.G. Woodruff, MD, MPH, San Francisco, CA




ATS 2017

*Where today's science
meets tomorrow's care™*

International Conference

Washington, DC

Monday Afternoon, May 22

1:15 p.m. - 2:15 p.m.

VISIT THE EXHIBIT HALL

Take this opportunity between sessions to visit the Exhibit Hall to gain practical knowledge to advance care and research. Exhibitors will be on hand to provide information on pharmaceutical products, medical equipment, publications and research services.

2:15 p.m. - 4:15 p.m.

PRESENTATION OF THE RECOGNITION AWARDS FOR SCIENTIFIC ACCOMPLISHMENTS

WALTER E. WASHINGTON CONVENTION CENTER
Room 204 A-C (South Building, Level 2)

As part of the ATS Respiratory Health Awards, the Recognition Awards for Scientific Accomplishments is given to individuals for outstanding scientific contributions in basic or clinical research to the understanding, prevention and treatment of lung disease. Those considered for the award are recognized for either scientific contributions throughout their careers or for major contributions at a particular point in their careers.

Chairing: A.J. Halayko, PhD, Winnipeg, Canada
A. Malhotra, MD, San Diego, CA

Awardees:

- 2:15 Progress in Subdividing Asthmatics Into Biologically Defined Subgroups**
John V. Fahy, MD, MSC, San Francisco, CA
- 2:45 Navigating the Complexity of Antigen Presentation in the Lung**
Andrew Fontenot, MD, Boulder, CO
- 3:15 HIV-Associated Lung Disease: From *Pneumocystis* to the Microbiome**
Alison Morris, MD, MS, Pittsburgh, PA
- 3:45 Grease on the Fire: Regulation of Fibrosis by the Lipid Mediators LPA and S1P**
Andrew M. Tager, MD, Boston, MA

CLINICAL

ADULT CLINICAL CORE CURRICULUM

CME Credits Available: 2

MOC Points Available: 2

CC3 CRITICAL CARE CLINICAL CORE CURRICULUM II

Adult Core Curriculum Working Group

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Hall E (Middle Building, Level 2)

Target Audience

Practicing internists and subspecialists in Pulmonary, Critical Care, and Sleep medicine who work in a clinical setting and are currently engaged in maintenance of certification

Objectives

At the conclusion of this session, the participant will be able to:

- remain current with medical knowledge relevant to their practice in pulmonary, critical care, and sleep medicine;
- evaluate their understanding of key skills and content areas in pulmonary, critical care and sleep medicine, as well as receive feedback on their comprehension of a result of a pre-test/post-test comparison;
- support clinicians who are engaged in maintenance of certification activities by providing updates on subjects included in recertification requirements.

The ATS Clinical Core Curriculum Symposia focus on a 3-year content cycle of key medical content in the areas of Pulmonary, Critical Care, and Sleep Medicine. The topics are also aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to assist clinicians with staying current with the growth of information relevant to their medical practice, as well as provide an opportunity to evaluate individual knowledge and skills while earning MOC Medical Knowledge points.

Chairing: J.I. McSparron, MD, Boston, MA
A.M. Luks, MD, Seattle, WA

2:15 Extracorporeal Membrane Oxygenation
M.E. Prekker, MD, MPH, Minneapolis, MN

2:45 Right Heart Failure
M.J. Cuttica, MD, MS, Western Springs, IL

3:15 Assessment of Volume Responsiveness
K.A. Hibbert, MD, Boston, MA

3:45 Update in Early Goal Directed Therapy
R. Clouser, DO, Burlington, VT

**BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL****YEAR IN REVIEW**

CME Credits Available: 2

MOC Points Available: 2

Nursing Contact Hours Available: 2.4

B81 PEDIATRIC YEAR IN REVIEW

Assemblies on Pediatrics; Allergy, Immunology and Inflammation; Behavioral Science and Health Services Research; Clinical Problems; Environmental, Occupational and Population Health; Respiratory Structure and Function

2:15 p.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Ballroom B (South Building, Level 3)

Target Audience

Pediatric pulmonologists; registered nurses; advanced practice nurses; respiratory therapists; virologists; behavioral scientists; epidemiologists

Objectives

At the conclusion of this session, the participant will be able to:

- describe the effect of human rhinovirus on the respiratory and immune systems;
- discuss health disparities in respiratory illnesses and their causes;
- identify the ways environmental exposures affect respiratory health.

The Pediatric Year in Review provides a summary of important research that was published during the preceding year on the topics that were selected for presentation. For this year the session will concentrate on factors not directly related to the respiratory system but with great impact on respiratory health. The areas that will be covered include the impact of the respiratory viruses (especially human rhinovirus); the impact of health disparities; the impact of environmental factors; and the impact of precision medicine (with focus on Cystic Fibrosis). The presentations will be made by well known experts in the respective fields.

Chairing: A.C. Koumbourlis, MD, MPH, Washington, DC
P.E. Moore, MD, Nashville, TN

2:15 Viruses and the Respiratory Health of Infants and Children
M.B. Hershenson, MD, Ann Arbor, MI

2:45 Disparities and Respiratory Health
B.J. Sheares, MD, MS, New York, NY

3:15 Environmental Exposures and Respiratory Health
E. von Mutius, MD, MS, Munich, Germany

3:45 The Promise and Challenge of Precision Medicine in CF and Beyond
M. Rosenfeld, MD, MPH, Seattle, WA

This session and the International Conference are supported by an educational grant from Vertex Pharmaceuticals, Inc.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

CLINICAL**CLINICAL TOPICS IN PULMONARY MEDICINE**

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

B82 HOT TOPICS IN COPD: A PRO/CON DEBATE

Assemblies on Clinical Problems; Allergy, Immunology and Inflammation; Environmental, Occupational and Population Health; Nursing; Pulmonary Rehabilitation

2:15 p.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Ballroom A (South Building, Level 3)

Target Audience

Providers of lung health including, registered nurses, advanced practice nurses, and those with clinical and research responsibilities

Objectives

At the conclusion of this session, the participant will be able to:

- identify significance of eosinophilia in guiding COPD treatment;
- discuss new findings in pharmacotherapy and disease progression in COPD;
- recognize the benefit of long-term oxygen therapy in COPD.

COPD is a rapidly evolving field with new research and treatments that are leading us to rethink our approach to the COPD patient. This session highlights important current controversies in COPD diagnosis and management in a pro con debate format.

Chairing: M.K. Han, MD, MS, Ann Arbor, MI
S.P. Bhatt, MD, Birmingham, AL
F.J. Martinez, MD, New York, NY

2:15 PRO: Blood Eosinophils Are a Useful Biomarker to Guide Therapy in COPD
I. Pavord, MD, Oxford, United Kingdom

2:27 CON: Blood Eosinophils Are NOT a Useful Biomarker to Guide Therapy in COPD
K.F. Rabe, MD, PhD, Grosshansdorf, Germany

2:39 PRO: Long-Term Oxygen Therapy Benefits COPD Patients with Moderate Hypoxemia
L.M. Fabbri, MD, Modena, Italy

2:51 CON: Long-Term Oxygen Therapy Does NOT Benefit COPD Patients with Moderate Hypoxemia
R.A. Wise, MD, Baltimore, MD

3:03 PRO: Inhaled Corticosteroids Are Required to Maximize Reduction in Acute Exacerbations
S.D. Singh, MD, NP, Manchester, United Kingdom

3:15 CON: Inhaled Corticosteroids Are NOT Required to Maximize Reduction in Acute Exacerbations
J.A. Wedzicha, MD, PhD, London, United Kingdom

3:27 PRO: Interventions Can Reduce COPD Readmissions
B. Thomashow, MD, New York, NY

3:39 CON: Interventions Do NOT Reduce COPD Readmissions
J.A. Krishnan, MD, PhD, Chicago, IL

3:51 PRO: Pharmacotherapy Slows Disease Progression in COPD
C. Jenkins, MD, MBBS, Concord, Australia



4:03 CON: Pharmacotherapy Does NOT Slow Disease Progression in COPD

P.J. Barnes, MD, DSc, London, United Kingdom

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CLINICAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

B83 A MULTIDISCIPLINARY, CASE-BASED APPROACH TO HOT TOPICS IN CTD-ILD

Assembly on Clinical Problems

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Ballroom C (South Building, Level 3)

Target Audience

Students, fellows, physicians (clinical and research oriented, pulmonologists, rheumatologists, transplants), registered nurses, advanced practice nurses, respiratory therapists; any provider of lung health

Objectives

At the conclusion of this session, the participant will be able to:

- develop new strategies in the management of patients with CTD-ILD;
- discuss new findings regarding the evolving understanding of interstitial pneumonia with autoimmune features;
- describe the risks and benefits of novel therapies impacting the health and quality of life of CTD-ILD patients.

This session will cover complex clinical scenarios encountered in the care of patients with connective tissue associated ILD. We will discuss 3 key issues - the role of ILD pattern in evaluation and treatment, the newly termed condition interstitial pneumonia with autoimmune features (IPAF), and finally the role of therapy beyond conventional immunosuppression (adjunctive treatment, PH specific therapy and the role of transplant). This session will cover timely topics related to CTD-ILD using a case-based format to introduce the topics, which also allows for increased participation by national and international colleagues. The panel discussion at the end will allow for audience participation and a discussion of topics not covered by this session. We will also use an audience response system to gauge practice patterns/beliefs before and after the talks.

Chairing: J.S. Lee, MD, Aurora, CO
A. Fischer, MD, Aurora, CO

2:15 Session Introduction
J.S. Lee, MD, Aurora, CO

2:25 Difficult Case 1
K.R. Flaherty, MD, MS, Ann Arbor, MI
J.H. Chung, MD, Chicago, IL
C. Cool, MD, Aurora, CO

2:40 UIP Vs. NSIP - Does It Really Make a Difference in CTD-ILD?
V. Cottin, MD, PhD, Lyon, France

2:55 Difficult Case 2

K.R. Flaherty, MD, MS, Ann Arbor, MI
J.H. Chung, MD, Chicago, IL
C. Cool, MD, Aurora, CO

3:10 Smells Like an Autoimmune Condition, but I Can't Quite Put My Finger on It...

T.J. Corte, MD, PhD, Sydney, Australia

3:25 Difficult Case 3

K.R. Flaherty, MD, MS, Ann Arbor, MI
J.H. Chung, MD, Chicago, IL
C. Cool, MD, Aurora, CO

3:40 Beyond Conventional Immunosuppression: Are There Any Other Options?

S.K. Danoff, MD, PhD, Baltimore, MD

3:55 Panel Discussion

A. Fischer, MD, Aurora, CO

This session and the International Conference are supported by an educational grant from Gilead Sciences, Inc.

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BEHAVIORAL • CLINICAL • TRANSLATIONAL

CRITICAL CARE TRACK

CME Credits Available: 2

MOC Points Available: 2

B84 CHRONIC, PERSISTENT, PROLONGED, AND JUST PLAIN STUCK: INSIGHTS IN CHRONIC CRITICAL ILLNESS

Assemblies on Critical Care; Behavioral Science and Health Services Research

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 146 A-B (Middle Building, Street Level)

Target Audience

Critical care clinicians; clinical and health services researchers who focus on critical care

Objectives

At the conclusion of this session, the participant will be able to:

- accurately identify patients with CCI, recognize important subgroups of patients with CCI, and distinguish CCI from other reasons for prolonged ICU care;
- prognosticate for patients with CCI and incorporate outcomes into high-quality communication during the decision to pursue prolonged life sustaining treatments;
- identify current knowledge gaps in best clinical practices for patients with CCI and describe the need for future clinical trials and health services research.

Chronic critical illness (CCI) refers to a group of patients with ongoing organ failure who survive the acute phase of critical illness but remain dependent on intensive care. More and more patients are developing CCI; long-term outcomes in this population are poor; and clinicians feel very uncomfortable about the care of these patients. We aim to identify the cutting edge of the current understanding of CCI and highlight important knowledge and practice gaps that warrant future research and practice change.



- Chairing:** J. Kruser, MD, Chicago, IL
T.J. Iwashyna, MD, PhD, Ann Arbor, MI
C.L. Hough, MD, Seattle, WA
- 2:15 A Patient's Perspective**
K. Duffy Lambros, New York, NY
- 2:20 Trajectories into and Out of Chronic Critical Illness: An International Account**
T.J. Iwashyna, MD, PhD, Ann Arbor, MI
- 2:40 Persistent Critical Illness or Persistent Critical Care?**
K. Rowan, PhD, MSc, London, United Kingdom
- 3:00 Outcomes After Prolonged Mechanical Ventilation**
C.L. Hough, MD, Seattle, WA
- 3:20 How Do People Get Stuck and Become Persistently Critically Ill?**
E.M. Viglianti, MD, MPH, Ann Arbor, MI
- 3:35 Communication and Palliative Care in Patients with Chronic Critical Illness**
S.S. Carson, MD, Chapel Hill, NC
- 3:55 Discovering Best Practices in the Care of Patients with Chronic Critical Illness**
J. Kahn, MD, MS, Pittsburgh, PA

BASIC • TRANSLATIONAL**BASIC SCIENCE CORE**

CME Credits Available: 2

B85 ENVIRONMENT AND LUNG AGING: AN ECOLOGICAL MODEL

Assemblies on Respiratory Cell and Molecular Biology; Allergy, Immunology and Inflammation; Clinical Problems; Environmental, Occupational and Population Health; Pediatrics

2:15 p.m. - 4:15 p.m.

MARRIOTT MARQUIS WASHINGTON

Independence Ballroom E-H (Level M4)

Target Audience

Students, fellows, researchers and lead investigators involved in discovery and translational research on lung biology, development and pulmonary disease and treatment

Objectives

At the conclusion of this session, the participant will be able to:

- identify environmental/lifestyle risk factors for accelerated aging of the lung and higher susceptibility to lung diseases;
- describe the physiology and molecular mechanisms associated with premature and accelerated aging of the lung by environmental contaminants, persistent infections, and inflammation;
- understand ongoing research looking for biomarkers and prevention strategies for premature lung aging and the development of novel therapeutic approaches against age-related chronic lung diseases.

The ecological model of aging is based on the assumption that health is affected by a dynamic interplay among biologic, behavioral and environmental factors. The lung in particular is exposed constantly to environmental factors that can contribute

significantly to accelerate the onset of molecular and cellular mechanisms associated with lung aging and increase the susceptibility to age-related lung diseases.

Chairing: A.L. Mora, MD, Pittsburgh, PA
M. Armanios, MD, Baltimore, MD
A.V. Misharin, MD, PhD, Chicago, IL

- 2:15 A Patient's Perspective**
M. Maguire, McLean, VA
- 2:20 Susceptibility of the Aging Lung to Environmental Injury**
K.E. Pinkerton, PhD, Davis, CA
- 2:43 Lung Infection in an Aging Population**
D. Bowdish, PhD, Hamilton, Canada
- 3:06 Role of Proteostatic Reserve in Lung Diseases As We Age**
G.S. Budinger, MD, Chicago, IL
- 3:29 Age-Driven Developmental Drift in the Pathogenesis of IPF**
M. Selman, MD, Mexico City, Mexico
- 3:52 Senescence and Disrepair in the Fibrotic Lung**
M. Rojas, MD, Pittsburgh, PA

There will be a 5-minute discussion after each talk.

BASIC • CLINICAL • TRANSLATIONAL**SCIENTIFIC SYMPOSIUM**

CME Credits Available: 2

B86 "SIGNED, SEALED, DELIVERED": EXTRACELLULAR VESICLES AS MESSENGERS, BIOMARKERS, AND THERAPEUTIC VEHICLES

Assemblies on Allergy, Immunology and Inflammation; Clinical Problems; Critical Care; Respiratory Cell and Molecular Biology; Respiratory Structure and Function

2:15 p.m. - 4:15 p.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 5 (Level M2)

Target Audience

Basic science, clinical, and translational researchers, as well as pulmonary/critical care, pulmonary hypertension, and sleep clinicians

Objectives

At the conclusion of this session, the participant will be able to:

- understand the characterization, biology, and function of extracellular vesicles in cell-cell communication;
- integrate knowledge of extracellular vesicles within pathophysiologic processes;
- recognize the unique utility and emerging role for extracellular vesicles as biomarkers or therapeutic vehicles for disease.

Extracellular vesicles (EVs) serve as vectors for cargo transfer among cells, representing a new means of cell-cell communication which has garnered tremendous interest in both basic and clinical research communities. EVs reveal important features of their source cells and alter functions of recipient cells. Thus, EVs participate in homeostasis, pathology, serve as unique biomarkers, and have therapeutic promise. Topics covered in this symposium include EV nomenclature, mechanisms of formation, release, uptake, and diagnostic and potential therapeutic utility relevant to pulmonary and critical care. The pleiotropic functions and applications of EVs are relevant to the diverse membership of the ATS.



Chairing: D.J. Schneider, MD, PhD, Ann Arbor, MI
M.A. Matthay, MD, San Francisco, CA
C.M. Lloyd, PhD, London, United Kingdom

2:15 Extracellular Vesicle Biology, Trafficking, Key Concepts and Functions

J. Lotvall, MD, PhD, Gothenburg, Sweden

2:45 Extracellular Vesicle Transfer from Macrophages to Epithelium Facilitates Homeostasis and Is Deregulated in Inflammatory Disease

M. Peters-Golden, MD, Ann Arbor, MI

3:15 Exosomal miRNA in Chronic Inflammatory Lung Disease

A.M. Wheelock, PhD, Stockholm, Sweden

3:45 Human Mesenchymal Stem Cell Microvesicles for the Treatment of Acute Lung Injury

J. Lee, MD, San Francisco, CA

There will be a 5-minute discussion after each talk.

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

B87 REPROGRAMMING OF LUNG TUMOR MICROENVIRONMENT: A PATH TO CANCER CARE FOR BETTER THERAPEUTIC BENEFIT

Assemblies on Thoracic Oncology; Allergy, Immunology and Inflammation; Respiratory Cell and Molecular Biology; Respiratory Structure and Function

2:15 p.m. - 4:15 p.m.

MARRIOTT MARQUIS WASHINGTON

Independence Ballroom A-D (Level M4)

Target Audience

Clinicians and scientists who are interested in understanding the tumor microenvironmental (TME) contribution to lung cancer progression and novel therapeutic developments targeting TME in lung cancer would benefit from this symposium

Objectives

At the conclusion of this session, the participant will be able to:

- understand the tumor promoting/ tumor inhibitory properties of various tumor microenvironmental cells;
- become aware of clinical trials targeting tumor microenvironment in lung cancer;
- gain understanding of novel therapeutic interventions aimed at treating lung cancer by reprogramming "tumor microenvironmental cells".

Lung cancer is the leading cause of cancer deaths worldwide. Although standard treatment regimens have produced promising results, outcomes for patients with lung cancer are still considered disappointing. Recent data provide evidence that the tumor environment is a leading player in carcinogenesis. Understanding the lung tumor microenvironment (TME) and the complex bidirectional interplay between the tumor and lung microenvironment in lung cancer is essential in designing effective therapies.

Chairing: R. Savai, PhD, Bad Nauheim, Germany
S.J. Moghaddam, MD, Houston, TX
A.M. Houghton, MD, Seattle, WA
C.A. Powell, MD, New York, NY

2:15 Lung Tumor Microenvironment: Targeting Tumor Fibroblasts

S.M. Albelda, MD, Philadelphia, PA

2:39 Reprogramming of Tumor Associated Macrophages As a Novel Anti Cancer Therapy

R. Savai, PhD, Bad Nauheim, Germany

3:03 Re-Educating Lung Tumor Microenvironment by Targeting Inflammatory Cytokine Network

S.J. Moghaddam, MD, Houston, TX

3:27 Augmenting Antigen Presentation with Chemokines for Lung Cancer Therapy

S. Dubinett, MD, Los Angeles, CA

3:51 Tumor- Lymphatic Interactions in the Lung Carcinoma Microenvironment

M.M. Fuster, MD, San Diego, CA

There will be a 5-minute discussion after each talk.

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

B88 THE GENE-ENVIRONMENT INTERACTION IN INTERSTITIAL LUNG DISEASE

Assemblies on Environmental, Occupational and Population Health; Clinical Problems

2:15 p.m. - 4:15 p.m.

WALTER E. WASHINGTON CONVENTION CENTER

Room 143 A-C (Middle Building, Street Level)

Target Audience

Clinicians caring for patients with Interstitial Lung Disease; basic, translational and population health scientists investigating genetic and/or environmental risk factors for Interstitial Lung Disease

Objectives

At the conclusion of this session, the participant will be able to:

- strengthen their clinical assessment of ILD patients, with improved environmental exposure histories and order genetic testing where available and indicated;
- acknowledge the importance of comprehensive assessments and recognize the knowledge gaps in environmental exposure assessment in ILD;
- contribute to integrated research programs that combine genetic, epigenetic and non-genetic risk factors for ILD, leading to an enhanced understanding of these diseases and ultimately, optimized patient management.

This session will present current state of the art scientific knowledge on the genetic and environmental risk factors for the development and progression of ILD, with a focus on integration of knowledge. Concepts and methods relevant to specific environmental and occupational exposure assessment will be presented. The integration of genetic and non-genetic factors will be discussed as an important tool for future research to enhance our understanding of these complex diseases.



Chairing: K.A. Johansson, MD, MPH, Calgary, Canada

M.I. Schwarz, MD, Aurora, CO

C. Redlich, MD, MPH, New Haven, CT

2:15 A Patient's Perspective

M. Stojic, Bethesda, MD

2:20 Functional Genetics of Interstitial Lung Disease

D.A. Schwartz, MD, Aurora, CO

2:40 The Environment, Epigenetics, Non-Coding RNAs and Interstitial Lung Disease

N. Kaminski, MD, New Haven, CT

3:00 Air Pollution and Interstitial Lung Disease

M.B. Rice, MD, MPH, Boston, MA

3:20 Occupational Exposures and Interstitial Lung Disease

C. Rose, MD, MPH, Denver, CO

3:40 The Exposome and Its Applications to Interstitial Lung Disease

J.R. Balmes, MD, San Francisco, CA

3:55 Nature, Nurture, and Early Pulmonary Fibrosis Detection: The Way Forward

G.M. Hunninghake, MD, Boston, MA

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

B89 IMMUNOCOMPROMISED HOST PNEUMONIA: EXPANDING RISKS AND NOVEL MANAGEMENT STRATEGIES

Assemblies on Microbiology, Tuberculosis and Pulmonary Infections; Allergy, Immunology and Inflammation; Behavioral Science and Health Services Research; Clinical Problems; Critical Care; Environmental, Occupational and Population Health; Respiratory Cell and Molecular Biology

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

West Salon G-I (South Building, Street Level)

Target Audience

Basic, translational or clinical scientist who investigate mechanisms of susceptibility to infection; clinicians caring for patients with immunocompromising conditions or those with respiratory infections; scientists studying host responses to infection and antimicrobial mechanisms; environmental and public health experts who identify populations at risk for pneumonia and sources of infectious threats

Objectives

At the conclusion of this session, the participant will be able to:

- identify risks for pneumonia in populations not conventionally considered immunocompromised;
- gain new strategies to mitigate risks of pneumonia in patients at elevated risk;
- identify mechanisms of host dysfunction in patients with chronic non-pulmonary diseases.

Pneumonias are a leading cause of morbidity in all populations, but exact an extreme toll on patients with immunocompromising conditions. Advances in

science and medicine have extended the spectrum of patients identified to be at high risk of pneumonia, both through an expanding array of immunosuppressive agents and regimens and through an increased ability to identify immune dysfunction in patients with chronic medical conditions not previously thought to impair host responses. This session will provide state of the art updates on diagnosis and management of immunocompromised host pneumonia with emphasis on novel mechanisms underlying immune dysfunction.

Chairing: S.E. Evans, MD, Houston, TX

M.I. Restrepo, MD, MSc, San Antonio, TX

K.A. Crothers, MD, Seattle, WA

2:15 HIV-Associated Pneumonia

K.A. Crothers, MD, Seattle, WA

2:35 Novel Biologic Agents and Pneumonia

J.M. Keane, MD, Dublin, Ireland

2:55 Pneumonia in Patients with Solid Organ Transplants

C.A. Hage, MD, Indianapolis, IN

3:15 Pneumonia in Stem Cell Transplantation and Cancer Chemotherapy

S.E. Evans, MD, Houston, TX

3:35 Pneumonia in the Elderly

M.I. Restrepo, MD, MSc, San Antonio, TX

3:55 Pneumonia in Immunocompromising Metabolic Conditions

S. Aliberti, MD, Milan, Italy

There will be a 5-minute discussion after each talk.

CLINICAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

B90 DISCUSSION AND DEBATE IN THE MANAGEMENT OF PULMONARY EMBOLISM

Assemblies on Pulmonary Circulation; Clinical Problems; Critical Care

2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS WASHINGTON

Liberty Ballroom I-L (Level M4)

Target Audience

Providers of lung health, pulmonary and critical care physicians APPs (APRNs and PAs), thoracic and cardiovascular surgeons, registered nurses

Objectives

At the conclusion of this session, the participant will be able to:

- discuss the appropriate use of thrombolysis in "intermediate risk" pulmonary embolism, and the relative risks and benefits of catheter directed vs. systemic thrombolysis;
- evaluate the use of IVC filters in the management of acute VTE;

The session will cover a number of important and evolving areas in the management of acute pulmonary embolism. We will start the session with pro-con debates regarding 2 especially controversial areas; the use of IVC filters in the management of PE and the use of systemic lysis vs. anticoagulation alone for sub-massive or "intermediate risk" PE. We will then



discuss an evidence based approach to the evaluation, treatment and disposition of PE patients in the Emergency Department. Finally, we will present some case vignettes dealing with the previously discussed topics. Using "Audience Participation Devices" we will have the attendees register their management decisions. The cases will then be discussed by the panel and the audience, thus driving home the points made in the earlier discussions.

Chairing: T.M. Bull, MD, Aurora, CO
R.N. Channick, MD, Boston, MA
B. Rivera-Lebron, MD, MS, Pittsburgh, PA

2:15 PRO: IVC Filters Play an Important Role in the Management of PE

V.F. Tapson, MD, West Hollywood, CA

2:30 CON: IVC Filters Should Rarely Be Used in Acute PE

T.M. Bull, MD, Aurora, CO

2:50 PRO: Thrombolytics for Intermediate Risk PE

S. Konstantinides, MD, PhD, Mainz, Germany

3:05 CON: Thrombolytics for Intermediate Risk PE

D. Jimenez, MD, PhD, Madrid, Spain

3:25 PE Out of the ED

J.A. Kline, MD, Indianapolis, IN

3:50 You Make the Call: Real Life Cases of PE. What Would You Do? What Was Actually Done? What Was the Outcome?

R.N. Channick, MD, Boston, MA
B. Rivera-Lebron, MD, MS, Pittsburgh, PA

BEHAVIORAL • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

B91 IMPLEMENTATION SCIENCE IN PULMONARY, CRITICAL CARE, SLEEP AND PEDIATRIC MEDICINE: HOW SOON IS NOW?

Assemblies on Allergy, Immunology and Inflammation; Behavioral Science and Health Services Research; Clinical Problems; Critical Care; Environmental, Occupational and Population Health; Microbiology, Tuberculosis and Pulmonary Infections; Nursing; Pediatrics; Pulmonary Circulation; Pulmonary Rehabilitation; Sleep and Respiratory Neurobiology; Thoracic Oncology

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

East Salon A-C (South Building, Street Level)

Target Audience

Physicians; nurses; allied health professionals; junior physicians; clinical researchers

Objectives

At the conclusion of this session, the participant will be able to:

- define terminology and tools used in implementation science;
- identify how to determine appropriate targets for implementation science across different clinical settings;
- learn new information about resources within NHLBI to promote implementation science research.

Translating evidence based care into clinical practice is a difficult and challenging endeavor. With mounting emphasis on high quality evidence based care, increasingly complex interventions and growing interest in funding implementation science efforts, clinicians and researchers alike require a firm grasp of implementation science and its application in health care. This session will introduce participants to implementation science in pulmonary, critical care, sleep, and pediatric medicine. It will provide current examples of implementation science approaches in these settings and provide practical approaches as to how to minimize the gap between theory, research and clinical practice.

Chairing: D.K. Costa, PhD, RN, Ann Arbor, MI
C.H. Weiss, MD, Chicago, IL
M.N. Gong, MD, MS, Bronx, NY

2:15 Quality Improvement on Speed? Defining What Implementation Science Is and Is Not

L.C. Feemster, MD, MSc, Seattle, WA

2:25 Is Implementation Local or Global? How Implementation Science Frameworks Can Guide Research and Practice

D.K. Costa, PhD, RN, Ann Arbor, MI

2:35 Where's the Bulls Eye? Identifying Targets for Implementation in Pulmonary Rehabilitation

S.J. Singh, PhD, Leicester, United Kingdom

2:50 Implementation During Imperfect Evidence: Lung Cancer Screening

D.E. Midthun, MD, Rochester, MN

3:05 When Guidelines Aren't Enough: Barriers to Implementing Tuberculosis Guidelines for Children and Adults

P. LoBue, MD, Atlanta, GA

3:20 Beyond Barriers: Strategies to Optimize Implementation in CPAP Treatment Adherence Research

T. Weaver, PhD, RN, Chicago, IL

3:35 Competing Interests? Strategies for Collaborative Implementation with Multiple Stakeholders

K.J. Cummings, MD, MPH, Morgantown, WV

3:50 Show Me the Money! Funding Priorities for Translating Evidence Into Practice

L. Price, PhD, Bethesda, MD

4:00 Questions and Answers: Panel Discussion

D.K. Costa, PhD, RN, Ann Arbor, MI

CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

B92 100 YEARS OF AJRCCM 1917-2017

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 202 A (South Building, Level 2)

Target Audience

All ATS membership and meeting attendees including clinicians, basic scientists, epidemiologists, doctors and scientists in training and other health care professionals

Objectives

At the conclusion of this session, the participant will be able to:



- learn about the history of AJRCCM and its development to a full respiratory and critical care journal;
- understand some of the best past and current papers in AJRCCM and how they have influenced clinical practice and research;
- learn about key changes in medical publishing and how to prepare for them (e.g. data sharing).

This is the AJRCCM Centenary Symposium to celebrate 100 years of the journal. We would like to show how the journal has evolved through the years and embraced developments in medical research and publishing. We will discuss key papers in respiratory medicine and critical care that have changed medical practice and then review some of the current, recently accepted papers in the journal. The session will end with a special lecture by Dr. Jeff Drazen on developments in medical publishing and how they enhance publications.

Chairing: J.R. Balmes, MD, San Francisco, CA
R. Hubmayr, MD, Rochester, MN

2:15 AJRCCM at 100

J.A. Wedzicha, MD, PhD, London, United Kingdom

2:30 Key Papers That Have Changed Practice: Respiratory

P. Calverley, MBChB, Liverpool, United Kingdom

2:45 Key Papers That Have Changed Practice: Critical Care

L.J. Brochard, MD, Toronto, Canada

3:00 AJRCCM Centenary Papers: COPD

F.J. Martinez, MD, New York, NY

3:15 AJRCCM Centenary Papers: Asthma

F.D. Martinez, MD, Tucson, AZ

3:30 AJRCCM Centenary Papers: Critical Care

B.T. Thompson, MD, Boston, MA

3:45 Recent Developments in Medical Publishing and a Look to the Future

J.M. Drazen, MD, Boston, MA

This session and the International Conference are supported by educational grants from AstraZeneca LP, Teva Pharmaceuticals, Vertex Pharmaceuticals, Inc.

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MINI SYMPOSIUM

B93 UPDATES IN ADVANCED CARE PLANNING AND END OF LIFE CARE IN RESPIRATORY AND CRITICAL ILLNESS

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 146 C (Middle Building, Street Level)

Chairing: J.L. Hart, MD, Philadelphia, PA
D.R. Sullivan, MD, Portland, OR
L.F. Reinke, ARNP, PhD, Edmonds, WA

Oral Presentations

2:15 Hospice Utilization Among Advanced Stage Lung Cancer Patients in a National, Integrated Health Network/D.R. Sullivan, S.E. Golden, L. Ganzini, L. Hansen, J. Lapidus, P. Carney, C.G. Slatore, Portland, OR, p.A4630

2:30 Patient and Family Caregiver Communication After Advance Care Planning: A Qualitative Analysis/R.A. Sampath, B.H. Levi, L.J. Van Scoy, J.R. Schubart, R.R. Stewart, J.M. Reading, A.E.F. Dimmock, L.S. Lehmann, M.J. Green, Boston, MA, p.A4631

2:45 Efficacy of Conversation Activities at Improving Advance Care Planning Engagement and Behaviors: Preliminary Results of a Pilot Randomized Controlled Trial/B. Smith, J. Reading, M. Hopkins, V. Chinchilli, M. Green, B.H. Levi, L.J. Van Scoy, Hershey, PA, p.A4632

3:00 Prevalence of Advance Directives in the United States: A Systematic Review/K.N. Yadav, N. Gabler, E. Cooney, S. Kent, J. Kim, N. Herbst, A. Mante, S.D. Halpern, K.R. Courtright, Philadelphia, PA, p.A4633

3:15 Community Game Day: Using an End-of-Life Conversation Game to Engage Patients with Chronic Illness and Their Caregivers in Advance Care Planning/L.J. Van Scoy, J. Reading, M. Hopkins, C. Yoo, B. Smith, J. Dillon, M. Green, B.H. Levi, Hershey, PA, p.A4634

3:30 The Absence of Associations of Demographic Characteristics with Advance Directive Completion Among Seriously Ill Outpatients/J.L. Hart, N. Gabler, E. Cooney, B. Bayes, K. Yadav, M. Olorunnisola, L. Chen, S. Grundy, S. Syzmanski, M.W. Hays, H. Tomko, C.L. Bryce, S.D. Halpern, Philadelphia, PA, p.A4635

3:45 A Comparison of Advance Directive Selections Made by Seriously Ill Patients and Presumably Healthy Workers/J.L. Hart, N. Gabler, M. Josephs, E. Cooney, D. Bayard, C.L. Bryce, S.D. Halpern, Philadelphia, PA, p.A4636

4:00 End of Life Costs for Medicare Patients With Idiopathic Pulmonary Fibrosis/J. Mooney, K. Raimundo, E. Chang, S.R. Reddy, E. Papoyan, M.S. Broder, J.L. Stauffer, Stanford, CA, p.A4637

MINI SYMPOSIUM

B94 LUNG TRANSPLANTATION: NEW INSIGHTS FOR 2017

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 145 A-B (Middle Building, Street Level)

Chairing: S.M. Palmer, MD, MHS, Durham, NC
J.P. Singer, MD, MS, San Francisco, CA
M.M. Budev, DO, MPH, Cleveland, OH

Oral Presentations

2:15 Increased Risk of Lung Cancer in Lung Transplant Recipients in the United States/M. Triplett, K.A. Crothers, E.L. Yanik, M. Valapour, C.F. Lynch, M. Schabath, D. Castenson, E.A. Engels, Seattle, WA, p.A4638

2:30 Post-Transplant Lymphoproliferative Disorders After Lung Transplant- A Descriptive Study of the United Network of Organ Sharing Database/S. Kukrety, V. Gupta, J.D. Parekh, R. Walters, M. Anantha Narayanan, R. Vivekanandan, Omaha, NE, p.A4639



- 2:45 Cytomegalovirus Relapsers After Lung Transplantation - at Risk for Other Herpesvirus Disease, Post-Transplant Lymphoproliferative Disease, or Malignancy?**/S.A. Winters, J.F. McDyer, H.C. Mannem, Pittsburgh, PA, p.A4640
- 3:00 Outcomes of Lung Transplantation Using Lungs from Increased Risk Donors Compared to Conventional Risk Donors**/F. Siddiqui, C. King, O. Shlobin, M. Bowen, M. Fergoso, S. Nathan, A. Brown, Roanoke, VA, p.A4641
- 3:15 Post-Repurfusion Plasma Levels of Coagulation and Endothelial Activation Markers Are Associated with Acute Kidney Injury After Lung Transplantation**/C.M. Forker, K. Ramphal, M. Porteous, R. Localio, Q. Wu, S. Bellamy, L. Ware, J.D. Christie, J.M. Diamond, M.G.S. Shashaty, Philadelphia, PA, p.A4642
- 3:30 Need of Dialysis During Index Hospitalization After Lung Transplant Surgery: Independent Predictors and Association with Early and Late Survival**/A. Banga, M. Mohanka, L. Mahan, S. Bollineni, J. Mullins, V. Kaza, F. Torres, Dallas, TX, p.A4643
- 3:45 Change in Body Mass Index (BMI) and Mortality Following Lung Transplantation**/E.S. Clausen, C.W. Frankel, S.M. Palmer, P.J. Smith, Durham, NC, p.A4644
- 4:00 Probe-Based Confocal Laser Endomicroscopy in the Diagnosis of Acute Lung Rejection: Results of a Prospective Multicenter Trial**/C.A. Keller, D.A. Arenberg, M. Smith, S. Islam, Jacksonville, FL, p.A7640

MINI SYMPOSIUM

B95 NEW INSIGHTS FROM WORLD TRADE CENTER PARTICULATE EXPOSURE STUDIES

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 147 A-B (Middle Building, Street Level)

Chairing: J.P. Wisnivesky, DrPH, MD, New York, NY
M. Gulati, MD, New Haven, CT
S.E. Hines, MD, MSPH, Baltimore, MD

Oral Presentations

- 2:15 Metabolomics of World Trade Center Lung Injury: A Pilot Study**/G. Crowley, S. Kwon, S.H. Haider, L. Zhang, R. Lam, R. Zeig-Owens, M.P. Webber, T. Schwartz, D. Prezant, M. Liu, A. Nolan, New York, NY, p.A4645
- 2:30 Cardiac Sarcoidosis in World Trade Center (WTC) Exposed Fire Department of the City of New York (FDNY) Firefighters**/K. Hena, J. Yip, N. Jaber, D. Goldfarb, K. Fullam, K. Cleven, V. Christodoulou, W. Moir, Z. Hena, R. Zeig-Owens, M.P. Webber, D. Spevack, I. Soghier, D. Acuna, D.J. Prezant, T.K. Aldrich, S.D. Spivack, New York, NY, p.A4646
- 2:45 Persistence of World Trade Center Particulate Induced Hyperresponsiveness and the Role of RAGE**/S.H. Haider, L. Zhang, G. Crowley, E.J. Caraher, R. Lam, S. Kwon, A.M. Schmidt, L.-C. Chen, D.J. Prezant, A. Nolan, New York, NY, p.A4647

- 3:00 Weight Loss as a Modifiable Risk: Body Mass Index and Loss of Lung Function in World Trade Center Particulate Exposure**/S. Kwon, G. Crowley, S.H. Haider, R. Lam, L. Zhang, R. Zeig-Owens, T. Schwartz, D. Prezant, A. Nolan, North Bergen, NY, p.A4648
- 3:15 Determinants of Medication Adherence in World Trade Center Rescue and Recovery Workers with Asthma**/J.P. Wisnivesky, E. Goodman, E. West, D. Harrison, L. Crowley, C. Katz, S. Markowitz, New York, NY, p.A4649
- 3:30 Predictors of Accelerated FEV₁ Decline in World Trade Center-Exposed Firefighters: A 15-Year Longitudinal Study**/M.D. Weiden, R. Zeig-Owens, C.B. Hall, A. Singh, T.K. Aldrich, T. Schwartz, M.P. Webber, H.W. Cohen, K.J. Kelly, A. Nolan, D.J. Prezant, New York, NY, p.A4650
- 3:45 Association Between Mood Disorders, Asthma Trigger Reports, and Asthma Outcomes Among 9/11 Rescue and Recovery Workers**/E. Morales-Raveendran, E. West, E. Goodman, C. Katz, D. Harrison, S. Markowitz, J.P. Wisnivesky, New York, NY, p.A4651
- 4:00 Paradoxical Vocal Cord Motion in WTC-Exposed Community Members with Lower Respiratory Symptoms**/C.E. Caplan-Shaw, A. Kazeros, M.L. Cotrina, M. Amin, R. Rosen, L. Ferri, S. Zhao, M. Marmor, M. Liu, Y. Shao, K.I. Berger, R.M. Goldring, J. Reibman, New York, NY, p.A4652

MINI SYMPOSIUM

B96 NEW POWER GENERATION: CELLS, SEX HORMONES AND IMAGING IN PULMONARY VASCULAR DISEASE

2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS WASHINGTON

Liberty Ballroom M-P (Level M4)

Chairing: E.A. Goncharova, PhD, Pittsburgh, PA
B.B. Graham, MD, Aurora, CO

Oral Presentations

- 2:15 Single Cell Clonogenic Assays Reveal Heterogeneity Among the Parent Cell Population, and Enable Isolation of Highly Representative Cells with Parental Characteristics**/J.Y. Lee, S. McMurtry, T. Stevens, Mobile, AL, p.A4653
- 2:30 Impairment of Autophagic Flux in Endothelial Yet Not in Smooth Muscle Cells Attenuates Chronic Hypoxic Pulmonary Hypertension**/A. Tabuchi, D. Zabini, A. Quan, G. Kabir, T. Finkel, K. Connelly, S. Verma, W.M. Kuebler, Berlin, Germany, p.A4654
- 2:45 Loss of Wnt7a Is Associated with Pulmonary Arterial Hypertension Through Impaired VEGF Response in Pulmonary Endothelial Cells**/M. Orcholski, K. Yuan, E. Shamskhov, J. Crossno, T. Spencer, R. Winn, V. De Jesus Perez, Stanford, CA, p.A4655
- 3:00 Monoclonal Antibody Inhibition of the NOTCH3 Signaling Pathway Effectively Reverses Pulmonary Hypertension in Rodent Models of Disease**/J.R. Gower, Y. Zhang, Y. Wang, K. Ferraro, M. Smith, P. Thistlethwaite, La Jolla, CA, p.A4656



- 3:15 Estrogen Receptor-Dependent Attenuation of Hypoxia-Induced Changes in the Bone Morphogenetic Protein Pathway of Pulmonary Hypertensive Rats/A. Frump, B. Yakubov, M. Albrecht, J. McClintick, T. Lahm, Indianapolis, IN, p.A4657**
- 3:30 Regulatory T Cells and Sexual Dimorphism in Pulmonary Hypertension/R. Tamosiuniene, P. Mesange, O. Manouvakhova, T. Saito, J. Qian, M. Sanyal, Y.-C. Lin, L. Nguyen, A. Luria, A. Tu, J. Sante, M. Rabinovitch, N. Voelkel, D. Fitzgerald, A. Habtezion, L. Aurelian, M.R. Nicolls, Palo Alto, CA, p.A4658**
- 3:45 CT Measures of Arterial and Venous Geometry in Pre- and Post Capillary Pulmonary Hypertension/F.N. Rahaghi, R. Radhakrishnan, J. Minhas, E. Ayala, J. Ross, R. San Jose Estepar, A. Waxman, G. Washko, Boston, MA, p.A4659**
- 4:00 Contrast Free Angiography of the Pulmonary Vasculature/C.R. Samarage, R. Carnibella, M. Preissner, H. Jones, J. Pearson, S. Dubsky, A. Fouras, Melbourne, Australia, p.A4660**

MINI SYMPOSIUM

B97 FLIPPING THE SWITCH: DETERMINANTS OF FIBROSIS

2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 6 (Level M2)

Chairing: T.M. Maher, MD, MSc, PhD, London, United Kingdom
D. Kass, MD, Pittsburgh, PA
M.N. Ballinger, PhD, Columbus, OH

Oral Presentations

- 2:15 Protein Tyrosine Phosphatase-Alpha (PTP α) Promotes Profibrotic Responses in Lung Fibroblasts/Y. Aschner, M.R. Nelson, M.I. Wong, Y.T. Nicholson, J. McClendon, N. Jansing, R.L. Zemans, G.P. Downey, Denver, CO, p.A4661**
- 2:30 Role of Tbx4 in Epithelial Stem Cell Niche/T. Xie, Y. Geng, N. Liu, A. Kurkciyan, K. Vrshika, J. Liang, D. Jiang, P.W. Noble, Los Angeles, CA, p.A4662**
- 2:45 ADAM10-Mediated Ephrin-B2 Shedding Drives Myofibroblast Activation and Tissue Fibrosis/D. Lagares, P. Ghassemi-Kakaroodi, C. Tremblay, D. Santos, P. Grasberger, N. Ahluwalia, C. Probst, S. Montesi, B. Shea, K.E. Black, R. Knipe, A. Pardo, M. Selman, A.M. Tager, M. Kapoor, Boston, MA, p.A4663**
- 3:00 Single Cell RNA-Sequencing Reveals Distinct Effects of Inhibition of FENDRR, a Long Non-Coding RNA Implicated in Fibroblast to Myofibroblast Differentiation/T. Adams, K. Sakamoto, F. Ahangari, A. Munivar, N. Kaminski, New Haven, CT, p.A4664**
- 3:15 Lung Mesenchymal Cell-Specific Deletion of Serum Response Factor Is Associated with Improved Survival in Bleomycin-Induced Pulmonary Fibrosis/K. Bernau, E. Torr, J.K. Aoki, N. Sandbo, Madison, WI, p.A4665**
- 3:30 SHP-1 Is a Critical Regulator of Epithelial-Mesenchymal Transition (EMT) in Pulmonary Fibrosis/Z. Chen, S.Y. Oh, P. Fang, F. Zhang, Z. Mei, Y. Wang, Q. Li, R.J. Homer, X. Zhang, T. Zheng, Z. Zhu, New Haven, CT, p.A4666**

- 3:45 Transcriptional Profiling of Sorted Alveolar Macrophages Reveals Homology Between Human Fibrotic Interstitial Lung Disease and an Animal Model of Pulmonary Fibrosis/P.A. Reyfman, L. Morales-Nebreda, J.M. Walter, A. McQuattie-Pimentel, C.-I. Chen, K.R. Anekalla, H. Abdala-Valencia, T.J. Yacoub, M. Antalek, M. Chi, S.F. Chiu, F. Gonzalez, P.J. Homan, S. Soberanes, V.K. Morgan, A. Bharat, M.M. DeCamp, S.M. Bhorade, E.T. Bartom, R.I. Morimoto, W. Balch, J.I. Sznajder, N.S. Chandel, K.M. Ridge, N. Bagheri, L.A. Amaral, G.S. Budinger, H. Perlman, D. Winter, A.V. Misharin, Chicago, IL, p.A4667**
- 4:00 Lung Epithelium Overexpressed Noncoding RNA (LEON): A Potential Regulator of Epithelial Gene Expression in Idiopathic Pulmonary Fibrosis/B. Juan Guardela, J.D. Herazo-Maya, K. Sakamoto, Q. Li, G. Deluliis, X. Yan, A. Prasse, N. Kaminski, New Haven, CT, p.A4668**

MINI SYMPOSIUM

B98 OSA AND CORONARY ARTERY DISEASE: ARE WE SAVE-ING LIVES?

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 152 A-B (Middle Building, Street Level)

Chairing: J.L. Pepin, MD, PhD, Grenoble, France
G. Hamilton, MD, PhD, Clayton, Australia
N.A. Shah, MD, MPH, New York, NY

Oral Presentations

- 2:15 Effects of CPAP on Cardiovascular Outcomes in Patients with Obstructive Sleep Apnea: A Pooled Meta-Analysis of Randomized Controlled Trials/A.S. Rajabalan, D. Shahi, S.D. Paudel, P. Thiruveethy, T. Said Ahmed, T. Vidyasagaran, T. Nafsi, M. Bautista, R.S. Bailey, Youngstown, OH, p.A4669**
- 2:30 Non-Severe Obstructive Sleep Apnea and Cardiovascular Events in the Elderly: Is There a Beneficial Effect of Long-Term Continuous Positive Airway Pressure?/D. Lopez-Padilla, A. Cerezo Lajas, L. Ramirez Garcia, M. Llanos Flores, E. Ojeda Castillejo, S. Lopez-Martin, P. De Lucas Ramos, Madrid, Spain, p.A4670**
- 2:45 Cardiovascular Outcomes in Revascularized Coronary Artery Disease Patients with Obstructive Sleep Apnea Syndrome on CPAP Treatment: The Observational Arm of the RICCADSA Cohort/Y. Peker, H. Glantz, C. Eulenburg, E. Thunstrom, Istanbul, Turkey, p.A4671**
- 3:00 Cheyne Stokes Respiration Characteristics in Systolic Heart Failure Patients Experiencing a Primary Endpoint Event: A SERVE-HF Substudy Analysis/F. Javed, R. Tamisier, J.L. Pepin, M. Cowie, K. Wegscheider, C. Angermann, M.-P. D'Ortho, E. Erdmann, A.K. Simonds, V.K. Somers, H. Teschler, J. Armitstead, P. Levy, H. Woehrle, Bella Vista, Australia, p.A4672**
- 3:15 Sleep Apnea Increases the Risk of New Onset Atrial Fibrillation: A Clinical Cohort Study/T. Kendzerska, A.S. Gershon, C. Atzema, G. Hawker, R. Leung, Toronto, Canada, p.A4673**



3:30 **Elucidation of Circulating Proteomic Signatures in Obstructive Sleep Apnea and Paroxysmal Atrial Fibrillation/R.** Mehra, J. Barnard, D. Van Wagoner, Cleveland, OH, p.A4674

3:45 **Impact of Mandibular Advancement Therapy on Endothelial Function in Severe Obstructive Sleep Apnea/F.** Gagnadoux, J.-L. Pepin, B. Vielle, V. Bironneau, F. Chouet-Girard, S. Launois, N. Meslier, J.-C. Meurice, X.-L. NGuyen, A. Paris, P. Priou, R. Tamisier, W. Trzepizur, F. Goupil, B. Fleury, Angers, France, p.A4675

Featured Speaker

4:00 **OSA Treatment and CVD: Where Are We Now?/C.M.** O'Connor, MD, Falls Church, VA

RAPiD: RAPID ABSTRACT POSTER DISCUSSION

B101 ADVANCES IN ASTHMA

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 206 (South Building, Level 2)

Abstract Summaries 2:15-2:45

Poster Viewing/Discussion 2:45-4:15

Chairing: M. Kraft, MD, Tucson, AZ
J.S. Deshane, PhD, Birmingham, AL
S. Sharma, MD, MPH, Aurora, CO

601 **Asthma Exacerbations and Lung Function Decline in a Pooled Analysis of Adolescents and Adults From Randomized Controlled Trials of Omalizumab/W.W.** Busse, B.E. Chipps, K. Rosen, B. Ortiz, T. Haselkorn, B.L. Trzaskoma, B.Q. Lanier, S.J. Szefer, Madison, WI, p.A4676

602 **Fevipirant (QAW039) Reduces Airway Smooth Muscle Mass in Asthma Via Antagonism of the Prostaglandin D2 Receptor 2 (DP2)/R.M.** Saunders, H. Kaul, R. Berair, A. Singapuri, I. Chernyavsky, L. Chachi, M. Biddle, A. Sutcliffe, M. Laurencin, G. Bacher, M. Bourne, I.D. Pavord, A. Wardlaw, S. Siddiqui, R. Kay, B.S. Brook, R. Smallwood, C.E. Brightling, Leicester, United Kingdom, p.A4677

603 **Benralizumab Significantly Reduced Oral Corticosteroid Dosages and Asthma Exacerbation Rates for Patients with Severe, Uncontrolled Asthma: Results of the ZONDA Phase III Trial/P.** Nair, S.E. Wenzel, K.-F. Rabe, A. Bourdin, N. Lugogo, P. Kuna, P. Barker, S. Sproule, S. Ponnarambil, M. Goldman, Hamilton, Canada, p.A4678

604 **Azithromycin Reduces Exacerbations in Adults with Persistent Symptomatic Eosinophilic Asthma/P.G.** Gibson, I.A. Yang, J.W. Upham, P.N. Reynolds, S. Hodge, A.L. James, C. Jenkins, M. Peters, G.B. Marks, M. Baraket, H. Powell, J.L. Simpson, Newcastle, Australia, p.A4679

605 **Comparison Between Bronchial and Nasal Brushings Gene Expression in the U-BIOPRED Cohort/S.** Pavlidis, Y. Guo, K. Sun, C. Rossios, A. Rowe, M. Loza, F. Baribaud, U. Hoda, A.R. Sousa, J. Corfield, R. Djukanovic, P.J. Sterk, I. Adcock, K.F. Chung, London, United Kingdom, p.A4680

606 **A Randomised, Double-Blind, Placebo-Controlled, Dose-Escalation Study to Evaluate the Safety, Tolerability, Pharmacodynamics and Pharmacokinetics of Single Inhaled Doses of VR942 (UCB4144) in Healthy Subjects and Repeated Doses in Mild Asthmatics/G.** Burgess, E. Jones, L. Larsson, F. Morgan, R. Palframan, A. Scrimgeour, M.J. Main, Chippenham, United Kingdom, p.A4681

607 **Asthma Symptom Improvements with Benralizumab Are Associated with Improvements in Activity Functions and Quality of Life for Patients with Severe, Uncontrolled Asthma: Results of Pooled Phase III Benralizumab Studies/X.** Xu, S. O'Quinn, I. Hirsch, G. Gopalan, Gaithersburg, MD, p.A4682

608 **Effect of Mepolizumab on Exacerbations in Asthma Patients with Features Common in COPD/S.** Yancey, F.C. Albers, N. Gunsoy, S. Harris, O. Keene, Research Triangle Park, NC, p.A4683

609 **Novel Therapeutic mAb CSL311 for Treatment of Chronic Rhinosinusitis with Nasal Polyps/C.M.** Owczarek, K.-H. Yip, H. Pant, G. Vairo, A. Lopez, A.D. Nash, M.J. Wilson, N.J. Wilson, M.A. Grimbaldston, Parkville, Australia, p.A4684

610 **Quantitative Analysis of Extent and Lobar Distribution of Air Trapping in Asthmatic Patients Using FACT-Digital Lung™/C.** Jin, Z. Liang, L. Zhao, Y. Guo, Xi'an, China, p.A4685

611 **Vitamin E (Gamma Tocopherol) Reduces Acute Airway Neutrophilia in Mild Asthmatics/M.L.** Hernandez, A. Burbank, N.E. Alexis, C.G. Duran, W.D. Bennett, Q. Jiang, T. Wang, H. Zhou, D. Peden, Chapel Hill, NC, p.A4686

612 **Impact of Baseline Biomarkers on Exacerbation Rates in Adult Patients Initiating Omalizumab: Results from PROSPERO/B.E.** Chipps, N.M. Griffin, R.S. Zeiger, A. Wagelie-Steffen, A.T. Luskin, W.W. Busse, S.I. Mobin, S.L. Limb, B.L. Trzaskoma, T.B. Casale, Sacramento, CA, p.A4687

613 **Efficacy of Reslizumab in Asthma Patients Eligible for Omalizumab Treatment/M.** Humbert, M. Castro, M. McDonald, M. Germinaro, Le Kremlin Bicetre, France, p.A4688

614 **Dupilumab Efficacy in Uncontrolled Persistent Asthma Patients with History of Comorbid Chronic Rhinosinusitis with or Without Nasal Polyps/J.F.** Maspero, C. Katelaris, S. Jayawardena, P. Rowe, J. Maroni, G. Pirozzi, N. Amin, N.M.H. Graham, L. Mannent, A. Teper, Buenos Aires, Argentina, p.A4689

615 **Bronchial Thermoplasty is Effective and Relatively Safe in High Risk Asthma Patients/R.** Kanaan, C.B. Strange, K. Hogarth, W.M. Boomer, L. Kopas, S. Suchak, M. Cornacchia, J. Behrend, N.J. Pastis, J.B. Cox, Charleston, SC, p.A4690

616 **Independent and Overlapping Contributions of Asthma and Allergic Rhinitis to Exhaled Nitric Oxide in an Early Adolescent Cohort/B.** Flashner, S.L. Rifas-Shiman, E. Oken, C. Camargo, T.A. Platts-Mills, L. Workman, A.A. Litonjua, D.R. Gold, M.B. Rice, Boston, MA, p.A4691

617 **Among Asthmatic Children, the Major Allele of IFIH1 SNP rs3747517 Is Associated with a Lower Risk of Asthma Exacerbation and Greater Bronchial Epithelial Cell (BEC) Expression of Interferon-Regulated Genes (ISGs) in Response to Ex Vivo RSV Infection/R.** James, M.C. Altman, S.R. Reeves, T. Kolstad, S.F. Ziegler, J.S. Debley, Seattle, WA, p.A4692



- 618** **Mass Spectrometric Analysis of Sputum from Asthma Patients Reveals Proteomic Signatures for Distinctive Presentations/H.** Shen, C. Cao, W. Li, W. Hua, F. Yan, Z. Chen, N. Zhong, S. Ying, Hangzhou, China, p.A4693
- 619** **Plasma P-Selectin Correlates Inversely with Steroid Responsiveness in Asthma/M.W. Johansson, M.C. Favour, H.M. Schira, C.M. Swanson, R.L. Sorkness, L.C. Denlinger, N.N. Jarjour, D.F. Mosher, Madison, WI, p.A4694**
- 620** **Sputum and Blood Eosinophil and Neutrophil Associations with a More Severe Asthma Phenotype in the NHLBI Severe Asthma Research Program (SARP)/A. Hastie, D. Mauger, L.C. Denlinger, E. Israel, A. Coverstone, J.V. Fahy, B. Phillips, D. Meyers, E.R. Bleeker, Winston-Salem, NC, p.A4695**
- 621** **Airway Remodeling Measured by Targeted Biopsies in Severe Asthma/C.S. Hall, A. Trivedi, C. Goss, J. Boomer, G. Sajol, H. Yin Declue, J. Kozlowski, A. Sheshadri, D.S. Gierada, J. Sieren, M. Escher, M. Saylor, R. Schutz, K. Schechtman, S.B. Fain, M. Schiebler, N.N. Jarjour, J.K. Leader, J.B. Trudeau, S.E. Wenzel, S.C. Erzurum, J. Lempel, B.D. Levy, E. Israel, G.R. Washko, J.V. Fahy, W.C. Moore, E.R. Bleeker, E.A. Hoffman, M. Castro, St. Louis, MO, p.A4696**
- 622** **Arginine Metabolic Endotypes in Related to Asthma Severity/W. Xu, S.A. Comhair, A.J. Janocha, L.A. Mavrikakis, C.D. Bennett, L.L. Gruca, K.A. Queisser, K. Asosingh, S.C. Kalhan, S.C. Erzurum, Cleveland, OH, p.A4697**
- 623** **Vitamin E Prevents the Slowing of Mucociliary Clearance Associated with Inhaled Endotoxin Challenge in Mild Asthmatics/W.D. Bennett, J. Wu, J.C. Lay, P.E. Burns, S.K. Jones, M. Almond, A. Burbank, M.L. Hernandez, D. Peden, Chapel Hill, NC, p.A4698**
- 624** **Asthma Is Associated with a Lower Risk of Sepsis and Sepsis-Related Mortality Among Hospitalized Patients/J.G. Zein, T.E. Love, S.C. Erzurum, Cleveland, OH, p.A4699**
- 625** **Large Scale Epigenome Wide Meta-Analysis Reveals DNA Hypomethylation Patterns Associated with Asthma Throughout Childhood/G.H. Koppelman, C.-J. Xu, C. Soderhall, M. Bustamante, N. Baiz, J. Wright, L. Chatzi, K.L. Carlsen, M. Torrent, S. Llop, D. Porta, M. Pia Fantini, H. Alenius, S.A. Jankipersadsing, B. Van Rijkom, G. Pershagen, M. Kogevinas, J. Kere, J.M. Anto, J. Bousquet, S. Guerra, I. Annesi-Maesano, J. Sunyer, E. Melen, Groningen, Netherlands, p.A7641**
- 701** **Linking Patient-Level EMR Data to Patient-Reported Registration Data Within the COPD Foundation Patient Powered Research Network: Pilot Work Toward a Scalable Efficient Interoperable Comprehensive Research Data Resource/R.A. Mularski, J. Walsh, W. Clark, C. Pasquale, S. Gillespie, P. Crawford, E. Malanga, V. Malanga, D.M. Mannino, M.A. McBurnie, Portland, OR, p.A4700**
- 702** **Longitudinal Follow-Up Data from Enrollees in the COPD Foundation Patient-Powered Research Network: Methods and Outcomes/D.M. Mannino, R. Choate, J. Walsh, R.A. Mularski, C. Pasquale, W. Clark, E. Malanga, S. Gillespie, M.A. McBurnie, P. Crawford, Lexington, KY, p.A4701**
- 703** **Use of COPD Medications in Ontario, Canada 2004-2015/A.S. Gershon, J. Etches, T. Kendzerska, T. To, J. Luo, E. Macdonald, S.D. Aaron, Toronto, Canada, p.A4702**
- 704** **Effectiveness and Safety of Inhaled Corticosteroids in Elderly Individuals with Chronic Obstructive Airway Diseases: A Population-Based Study/T. Kendzerska, S.D. Aaron, T. To, C. Licskai, N. Vozoris, M. Stanbrook, W.C. Tan, J. Bourbeau, A.S. Gershon, Toronto, Canada, p.A4703**
- 705** **Inappropriate Inhaled Corticosteroid Use in VA Patients with Mild or Moderate COPD: Targets for a De-Escalation Program/M.F. Griffith, L.C. Feemster, L.M. Donovan, L.J. Spece, R. Plumley, P.J. Rise, E. Udris, D.H. Au, Seattle, WA, p.A4704**
- 706** **Extent and Impact of Late Versus Early COPD Diagnosis in Women in the Swedish ARCTIC Study/K. Lisspers, K. Larsson, C. Janson, B. Stallberg, F.S. Gutzwiller, K. Mezzi, M. Uhde, L. Jorgensen, G. Johansson, Uppsala, Sweden, p.A4705**
- 707** **Updated Outcomes for; Hospital Utilization for COPD Patients Enrolled in a Home Based Pulmonary Population Health Program Using Respiratory Therapists in Partnership with a Medicare Advantage Plan/A.H. Greene, Carrboro, NC, p.A4706**
- 708** **Variability and Predictors of Treatment for Outpatient COPD Exacerbations/G. Waagmeester, A.J.L. Dominitz, L.J. Spece, N. Sulayman, D.H. Au, L.C. Feemster, Portland, OR, p.A4707**
- 709** **Impact of Living Conditions on Hospital Admissions in Patients with COPD/S.L. Adamson, A. Le, C. Tong, B. Hutchins, D. Young, S.F. Van Eeden, D.D. Sin, Vancouver, Canada, p.A4708**
- 710** **Psychological Distress Prospectively Predicts Severe Exacerbations in Smokers with and Without Airflow Limitation - A Longitudinal Follow-Up Study of the COPD Gene Cohort/A.S. Iyer, S.P. Bhatt, M. Dransfield, G. Kinney, K. Holm, F.S. Wamboldt, N. Hanania, C. Martinez, E. Regan, M.G. Foreman, K.F. Hoth, V. Kim, Birmingham, AL, p.A4709**
- 711** **All Cause 30-Day Readmission of COPD Patients in Cohort of African American Population/R. Gupta, J.M. Davidson, A.L. Peters, A. Kim, A. Surani, A. Mahalingashetty, H. Patail, L. Freeman, P. Geraghty, R. Foronjy, New York, NY, p.A4710**
- 712** **Association Between Healthcare-Associated Infections and COPD Readmission in the United States/S.T. Rinne, R.S. Wiener, J.R. Castaneda Nerio, J.L. Gomez, Bedford, MA, p.A4711**
- 713** **Adverse Cardiac Outcomes Associated with Incident Opioid Drug Use Among Older Adults with COPD/N. Vozoris, X. Wang, P. Austin, D. Lee, A. Stephenson, D.E. O'Donnell, S. Gill, P. Rochon, Toronto, Canada, p.A4712**

POSTER DISCUSSION SESSION

B102 EPIDEMIOLOGY AND OUTCOMES OF COPD AND ASTHMA/COPD OVERLAP

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 209 A-C (South Building, Level 2)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: D.H. Au, MD, MS, Seattle, WA
A.S. Gershon, MD, MSc, Toronto, Canada
V. Prieto-Centurion, MD, Chicago, IL



- 714 Assessing Cognitive Function Among Older COPD Patients/J.P. Wisnivesky, K. Muellers, L. Chen, M. Wolf, A. Federman, New York, NY, p.A4713**
- 715 Cognitive Effects of Hypoxemia in Smokers with COPD/L. Garcia-Gomez, V. Noe-Diaz, R.H. Sansores, A. Ramirez-Venegas, Mexico City, Mexico, p.A4714**
- 716 What Oxygen Equipment Do Patients with COPD Have at Home? Ancillary Results of the PELICAN Study/J.A. Krishnan, N.E. Bracken, S. Cerretta, V. Gonzalez, M. Grabarek, K. Holm, J. Porszasz, V. Prieto-Centurion, R. Sandhaus, J. Sullivan, L. Walsh, R. Casaburi, Chicago, IL, p.A4715**
- 717 Asthma-COPD Overlap Syndrome (ACOS) and Childhood Asthma Are Risk Factors for Active COPD but Not Disease Progression in the COPDGene Study/L.P. Hayden, M.E. Hardin, J.D. Crapo, E.K. Silverman, C.P. Hersh, Boston, MA, p.A4716**
- 718 Asthma-COPD Overlap and Mortality from Chronic Lower Respiratory Diseases/E. Forno, A. Mendy, T. Niyonsenga, J. Gasana, Pittsburgh, PA, p.A4717**
- 719 Asthma COPD Overlap Syndrome and COPD Are Associated with Higher Mortality Rates in US: Data from the Third National Health and Nutrition Examination Survey (NHANES III)/S. Kumbhare, C.B. Strange, Charleston, SC, p.A4718**
- 720 Validation of the Colorado Asthma-Chronic Obstructive Pulmonary Disease Overlap Syndrome Consensus Definition/R. Davidson, J. Abukhalaf, Y. Abdou, R. Vazquez, Albuquerque, NM, p.A4719**
- 721 Co-Morbidities Associated with Asthma-COPD Overlap Syndrome (ACOS) in U.S. Veterans/S. Bujarski, A. Parulekar, A. Spiegelman, A. Sharafkhan, N. Hanania, Houston, TX, p.A4720**
- 722 Characterizing the Patient Experience of Asthma COPD Overlap Syndrome and COPD/L.M. Nelsen, C. Tolley, A. Gater, C. Panter, S. Pascoe, L. Lee, Collegeville, PA, p.A4721**
- 723 Asthma-COPD Overlap (ACO) in the CanCOLD Cohort: Prevalence, Attributes, and Natural History/S.-M.-Y. Mostafavi-Pour-Manshadi, L. Pinto, W.C. Tan, P.Z. Li, S.D. Aaron, A. Benedetti, K.R. Chapman, B. Walter, J.M. Fitzgerald, F. Maltais, D. Marciniuk, D.E. O'Donnell, D. Sin, J. Bourbeau, Montreal, Canada, p.A4722**
- 101 The Australasian Bronchiectasis Registry - Early Steps in Mapping the Impact of Bronchiectasis in Australia and New Zealand/S. Visser, H. Allan, L. Burr, A. Chang, C.-L. Holmes-Liew, C. Hunter, D. Jackson, P. King, G. Maguire, P. Middleton, D. Smith, R. Thomson, G.W. Waterer, C. Wong, L. Morgan, Camperdown, Australia, p.A4723**
- 102 PROGNOSIS - The German Bronchiectasis Registry: First Results/T. Welte, F.C. Ringshausen, A. De Roux, G. Barten, R. Diel, E. Gert, J. Naim, A. Zurawski, J. Rademacher, Hannover, Germany, p.A4724**
- 103 The Role of the Bronchiectasis Severity Index (BSI) and FACED Score in the Prediction of Clinical Outcomes in Patients with Bronchiectasis in Singapore/W. Sim, W.S. Siow, S.H. Puah, A. Verma, Y.S. Lee, J.A. Abisheganaden, A.Y.H. Lim, Singapore, Singapore, p.A4725**
- 104 Phenotype Characterization of Non Cystic Fibrosis Bronchiectasis in India: Baseline Data from an Indian Bronchiectasis Registry/R. Dhar, M. Mohan, G. D'souza, S. Rajagopalan, V. Singh, A. Jindal, A. B. B. Ghewade, G. Joshi, T. Sahasrabuddhe, S. Gami, G. Nair, K. Venugopal, P. Mahesh, S. Tripathi, S. Vyas, K. Saha, N. Dutt, S. Meshram, S. Ananthraj, S. Limaye, S. Salvi, S. Aliberti, J.D. Chalmers, Kolkata, India, p.A4726**
- 105 The Pulmonary Mycobiome in Stable Bronchiectasis/R. Chandrasekaran, M. Mac Aogain, A.Y.H. Lim, T.B. Low, G.L. Tan, A.C. Yip, H.Z. Chai, X.N. Choo, L.A. Jones, S. Narayanan, B. Au, A.H.Q. Ng, D. Bertrand, J.Y. Koh, T.Y. Poh, N. Nagarajan, J.E. Connolly, J.A. Abisheganaden, M.S. Koh, S.H. Chotirmall, Singapore, Singapore, p.A4727**
- 106 Burden of Disease in Long Term Inhaled Antibiotic Users with Bronchiectasis: Data from the FRIENDS Cohort/J.D. Chalmers, A. Filonenko, P.C. Goeminne, M. McDonnell, M. Shteinberg, T.C. Fardon, D. Obradovic, E. Operschall, C. Gerlinger, A. De Soyza, G. Sotgiu, A.T. Hill, E. Polverino, S. Aliberti, Dundee, United Kingdom, p.A4728**
- 107 Ivacaftor/Lumacaftor Improves Six Minute Walk Test Distance and Improves Lung Clearance Index and Functional Residual Capacity in Cystic Fibrosis Patients Homozygous for DF508 with Very Severe Lung Disease/P.A. Wark, K. Cookson, T. Thiruchelvenem, D. Dorahy, J. Brannan, New Lambton, Australia, p.A4729**
- 108 Audit of Key Clinical Parameters of an Adult Cystic Fibrosis (CF) Cohort in UAE/I. Shafiq, G.S. Bodi, M. Uzbeck, Abu Dhabi, United Arab Emirates, p.A4730**
- 109 CT-Detected Pulmonary Artery Enlargement: A Marker of Pulmonary Hypertension and Decreased Pulmonary Arterial Compliance in Severe Cystic Fibrosis/A.N. Zouk, S. Gulati, S. Rowe, K.M. Wille, J.M. Wells, Birmingham, AL, p.A4731**
- 110 Use of Cardiac MRI and Exercise Testing to Characterize RV Mechanics and Exercise Intolerance in Patients with Cystic Fibrosis/J.L. Taylor-Cousar, K. Hunt, B. Fenster, Denver, CO, p.A4732**
- 111 Patients with Cystic Fibrosis Who Have Frequent Hospitalizations for Pulmonary Exacerbations Also Have a High Prevalence of Psychosocial Pathology/M.C. Ponce, B.J. Taylor, S. Michel, P. Flume, Charleston, SC, p.A4733**
- 112 False-Positive Tetrahydrocannabinol Urine Immunoassay Screens in Patients with Cystic Fibrosis Receiving Combination Lumacaftor/Ivacaftor/D.G. Kissner, Y. LeFlore, S.B. Narayan, G. Marigowda, E. Dorn, C. Simard, Detroit, MI, p.A4734**

POSTER DISCUSSION SESSION

B103 CLINICAL STUDIES IN BRONCHIECTASIS, IMMUNODEFICIENCY, AND DRUG INDUCED LUNG DISEASE

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 144 A-C (Middle Building, Street Level)

Poster Viewing 2:15-3:00
Discussion 3:00-4:15

Chairing: A.E. O'Donnell, MD, Washington, DC
K.N. Olivier, MD, MPH, Bethesda, MD
E.C. Dasenbrook, MD, MHS, Cleveland, OH



- 113 Amikacin Pharmacokinetics in Cystic Fibrosis and Dose Correction/D.** Shoseyov, R. Leshem, R. Tzabari, E. Kerem, Jerusalem, Israel, p.A4735
- 114 Safety and Pharmacokinetics of SPX-101 in Healthy Human Subjects/A.** Wheeler, A. Schaberg, D. Scott, T. Crowder, P. Couroux, Durham, NC, p.A4736
- 115 Long Term Outcomes of Pulmonary Arterial Hypertension in Patients Treated with Dasatinib/J.** Weatherald, M.-C. Chaumais, L. Savale, X. Jais, A. Seferian, O. Sitbon, G. Simonneau, C. Guignabert, M. Humbert, D. Montani, Le Kremlin-Bicetre, France, p.A4737
- 116 Investigation of the Poor Prognostic Factor in the Drug Induced Lung Disease/H.** Ishimoto, N. Sakamoto, H. Nakao, T. Hanaka, K. Oda, H. Yura, T. Harada, C. Araki, S. Nakashima, A. Hara, T. Kido, Y. Ishimatsu, Y. Obase, K. Yatera, H. Mukae, Nagasaki, Japan, p.A4738
- 117 Predictors of Amiodarone Induced Pulmonary Toxicity/M.** Venkata Subramani, Cleveland, OH, p.A4739
- 118 Acute Amiodarone Toxicity Following Prophylactic Use in Postoperative Lung Resection/A.** Bhagavath, H. Zhang, J. Girshman, K. Walsh, M. Feinstein, D. Stover, D. Amar, New York, NY, p.A4740
- 119 Intrathoracic Visceral Adipose Tissue and Primary Graft Dysfunction After Lung Transplantation/M.D.** Restivo, J.P. Singer, M. Lippel, A. Messineo, T. Blue, A. McBurnie, M. Oyster, L. Kalman, M. Rushefski, C. Wu, G. Pednekar, W. Liu, S.M. Arcasoy, J.R. Sonett, F. D'Ovidio, M. Bacchetta, J.D. Newell, J.M. Diamond, Y. Tong, D. Torigian, J. Udupa, E. Cantu, J. Giles, S.M. Palmer, J.D. Christie, D.J. Lederer, New York, NY, p.A4741
- 120 What Proportion of ICU Patients Are Exposed to Potentially Life-Threatening Hyperoxia in a Large Academic Health Care System/D.** Krutsinger, C. Chivers, M. Draugelis, B. Fuchs, Philadelphia, PA, p.A4742
- 121 BLF/UKPIN Consensus Statement on the Definition, Diagnosis and Management of Granulomatous-Lymphocytic Interstitial Lung Disease (GLILD) in Common Variable Immunodeficiency Disorders (CVID)/J.R.** Hurst, N. Verma, D. Lowe, H.E. Baxendale, S. Jolles, P. Kelleher, H.J. Longhurst, S.Y. Patel, E.A. Renzoni, C.R. Sander, A.M. Condliffe, London, United Kingdom, p.A4743
- 122 Pulmonary Manifestations in Adult Patients with STAT3 Deficiency: A French Nationwide Registry-Based Cohort Study/E.** Catherinot, C. Givel, O. Chandesris, N. Mahlaoui, C. Tcherakian, C. Picard, H. Salvator, E. Rivaud, D. Moshous, O. Lortholary, S. Blanche, F. Lanternier, B. Neven, A. Fischer, O. Hermine, A. Dureault, S. Poiree, L.-J. Couderc, Suresnes, France, p.A4744
- 123 RESPIRE 2: Ciprofloxacin DPI 32.5 mg b.i.d. Administered 14 Days On/Off or 28 Days On/Off Vs. Placebo for 48 Weeks in Patients with Non-Cystic Fibrosis Bronchiectasis (NCFB)/T.R.** Aksamit, T.-J. Bandel, M. Criollo, J.S. Elborn, M. Lau, E. Operschall, E. Polverino, E. Montegriffo, A. De Soyza, K.L. Winthrop, R. Wilson, Rochester, MN, p.A7642
- 124 Therapeutic Drug Monitoring for Beta-lactams in Cystic Fibrosis/J.** Lascano, J. Cope, J. Merida, K. Klinker, C. Trillo, Gainesville, FL, p.A7643

POSTER DISCUSSION SESSION

B104 SARCOIDOSIS: CLINICAL STUDIES ON DIAGNOSIS, PROGNOSIS AND THERAPY

2:15 p.m. - 4:15 p.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 9-10 (Level M2)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: A.S. Morgenthau, MD, New York, NY
G.E. Westney, MD, Atlanta, GA
S.R. Russell, MD, Chicago, IL

- 1001 Parenchymal Cryobiopsies, Cautery-Assisted Nodal Forceps Biopsies and CD68 Staining in the Diagnosis of Sarcoidosis/E.M.** DeBiasi, G. Cai, J. Puchalski, New Haven, CT, p.A4745
- 1002 Sarcoidosis Increases Risk of Hospitalized Infection: A Population-Based Study 1976-2013/P.** Ungprasert, C.S. Crowson, E.L. Matteson, Rochester, MN, p.A4747
- 1003 Long-Term Outcome of Pulmonary Sarcoidosis: A Population-Based Retrospective Cohort Study 1976-2013/P.** Ungprasert, C.S. Crowson, E.M. Carmona, E.L. Matteson, Rochester, MN, p.A4748
- 1004 Acthar Gel for Sarcoidosis Associated Calcium Dysregulation/A.** Modi, F. Ilyas, N. Rane, M.A. Judson, MD, Albany, NY, p.A4749
- 1005 Characteristics of CT Determined Fibrotic Pulmonary Sarcoidosis/A.K.** Levy, Y.J. Jeong, D.A. Lynch, N.Y. Hamzeh, J.Y. Rho, Y.J. Suh, L.A. Maier, Denver, CO, p.A4750
- 1006 Repository Corticotropin (RCI) for Chronic Pulmonary Sarcoidosis: A Single Blind Prospective Study Dose Finding Study/R.P.** Baughman, N. Sweiss, R.G. Keijsers, R. Shipley, S. Birring, L. Saketkoo, E.E. Lower, Cincinnati, OH, p.A4751
- 1007 A Double Blind, Placebo Controlled Study of Roflumilast to Prevent Acute Events in Fibrotic Sarcoidosis/R.P.** Baughman, S. Birring, M.A. Judson, D.A. Culver, J.G. Parambil, F. Cordova, E.E. Lower, Cincinnati, OH, p.A4752
- 1008 Determinants of Six Minute Walk Distance in Sarcoidosis Associated Pulmonary Hypertension/E.H.** Alhamad, M.B. Scholand, V. Kouranos, S.D. Nathan, D.A. Culver, E.M. Carmona, F. Cordova, J. Barney, M. Wijsenbeek, R.P. Baughman, Riyadh, Saudi Arabia, p.A4753
- 1009 Roflumilast Reduces Circulatory IL-17 Levels in Sarcoidosis Subjects with Pulmonary Fibrosis/M.D.** Schweitzer, M. Mirsaedi, M. Campos, M.A. Judson, D.A. Culver, E.E. Lower, R.P. Baughman, Miami, FL, p.A4754
- 1010 Atorvastatin Treatment for Pulmonary Sarcoidosis, a Randomized, Double-Blind, Placebo-Controlled Clinical Trial/J.R.** Fontana, J. Moss, M. Stylianou, S.J. Levine, A.V. Barochia, N. Weir, S. Parrish, A. Lazarus, J.A. Nations, S. McKay, R. Browning, S. MacDonald, R. May, M. Haughey, P. McGraw, M. Barton, M. Guerriero, C. Jolley, L.R. Folio, J. Siegelman, R. Kaneshiro, V. Jolley Bea, G. Bahrami, V.C. Manganiello, Bethesda, MD, p.A4755



- 1011 Promising Results of the Infliximab Biosimila® Inflectra in Severe Sarcoidosis Patients/A.D.M. Vorselaars, F.T. Van Beek, H.C. Crommelin, R.G. Keijsers, M. Veltkamp, Nieuwegein, Netherlands, p.A4756**
- 1012 A Retrospective Review of Patients with Sarcoidosis Attending a Tertiary Referral Centre; Prevalence of Cardiac Involvement and Comment on Management Approach/H. Garthwaite, J. Porter, London, United Kingdom, p.A4757**
- 1013 Sarcoidosis Has Better Outcome than COPD and IPF After Lung Transplant in the USA/S. Roghaee, E. Diaz, R. Calderon, M. Campos, G. Holt, M. Mirsaedi, Miami, FL, p.A4758**
- 1014 Standardised Translation of the King's Sarcoidosis Questionnaire (KSQ) into Eleven Languages/S. Birring, H. Fletcher, T. Tully, A. Patel, S. Kullberg, N. Mogulkoc, A. Dubaniewicz, G. Cotta Ramusino, A. Niimi, W.J. Guan, D. Valeyre, D. Castillo, C.A. Pereira, C. Acquadro, R.P. Baughman, London, United Kingdom, p.A4759**
- 1015 The Diagnostic Value of Serum Angiotensin Converting Enzyme in Sarcoidosis: A Systematic Review and Meta-Analysis/L. Bajpayee, P. Govender, J. Berman, K.C. Wilson, Boston, MA, p.A4760**
- 1016 Sleep Disturbance and Sarcoidosis/Z.E. Lehman, B.S. Benn, S.A. Kidd, D. Claman, S.N. Machiraju, N. Arger, L.L. Koth, San Francisco, CA, p.A4761**
- 1017 Paraneoplastic Sarcoid: A Case Series/M. Herron, L.E. Gleeson, R. Fahy, Dublin, Ireland, p.A4762**
- 1018 Best Prognostic Indicator for Sarcoidosis/G. Kirkil, R.P. Baughman, E.E. Lower, Elazig, Turkey, p.A4763**
- 1019 Comparison of Growth Factors Among Various Stages of Sarcoidosis and Healthy Controls (Proof of Concept Study)/A. El Khatib, A. Calzadilla, P. Whitney, M. Campos, H. Omar, R.F. Machado, N. Sweiss, D.A. Culver, R.P. Baughman, M. Mirsaedi, Miami, FL, p.A4764**
- 1020 Do %FVC Percent and %FEV1 Correlate with ESAT6 Immune Responses?/K.K. Nthenge, C. Hawkins, W.P. Drake, Nashville, TN, p.A4765**
- 1021 IL-8 and VEGF in Patients with Sarcoidosis Associated Pulmonary Hypertension: The Registry of Sarcoidosis Associated Pulmonary Hypertension (ReSAPH)/P. Heukels, J. Van Hulst, M. Van Nimwegen, K. Bezemer, M. Wijsenbeek, M. Kool, R.P. Baughman, Rotterdam, Netherlands, p.A4766**
- 1022 Sarcoidosis Clinical Descriptions and Clustering of Phenotypes/K.C. Patterson, K.F. Gibson, G. Balasubramani, M. Gulati, N.Y. Hamzeh, D.R. Moller, S. O'Neal, C.B. Strange, S. Wisniewski, L.L. Koth, Philadelphia, PA, p.A4767**
- 1023 Phenotypes of Organ Involvements in Sarcoidosis/J.C. Schupp, S. Freitag-Wolf, E. Bargagli, V. Mihailovic-Vucinic, P. Rottoli, A. Prasse, S. Schreiber, M. Krawczak, J. Müller-Quernheim, Freiburg, Germany, p.A7644**

POSTER DISCUSSION SESSION

B105 CRITICAL CARE: MECHANISTIC AND TRANSLATIONAL INSIGHTS INTO ARDS

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 150 B (Middle Building, Street Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: N.J. Meyer, MD, MS, Philadelphia, PA
E.J. Schenck, MD, New York, NY
C.C. Dos Santos, MD, Toronto, Canada

- 201 Predictive Values of Plasma Soluble RAGE Levels for the Onset of Acute Respiratory Distress Syndrome in Critically Ill At-Risk Patients/M. Jabaudon, P. Berthelin, T. Pranal, L. Roszyk, T. Godet, J.-S. Faure, R. Chabanne, N. Eisenmann, A. Lautrette, G. Clairefond, C. Belville, R. Blondonnet, Y. Clavel, E. Chauvin, S. Thibault, R. Guerin, S. Cayot, T. Gillart, J. Pascal, Y. Skrzypczak, B. Souweine, B. Pereira, V. Sapin, J.-M. Constantin, Clermont-Ferrand, France, p.A4768**
- 202 Inhibition of the Receptor for Advanced Glycation End-products Influences Lung Injury and Alveolar Fluid Clearance in a Porcine Model of Acid-Induced Acute Respiratory Distress Syndrome/J. Audard, R. Blondonnet, J. Lutz, G. Clairefond, C. Belville, M. Laverigne, C. Gross, D. Bouvier, L. Blanchon, V. Sapin, J.-M. Constantin, M. Jabaudon, Clermont-Ferrand, France, p.A4769**
- 203 Postoperative Acute Respiratory Distress Syndrome: A Prospective Biomarker Analysis/H. Yadav, A. Bartley, S. Keating, L. Meade, R. Carter, O. Gajic, D.J. Kor, Rochester, MN, p.A4770**
- 204 Subacute Hyperglycemia Is Associated with Increased Alveolar Inflammatory Response/M.R. Lemay, J. Dunn, L. Hoyt, N. Ubags, M.C. Antkowiak, D. Gupta, B.T. Suratt, Burlington, VT, p.A4771**
- 205 ELISA Development for Serum Hemeoxygenase1 and Its Application to Patients with ALI/ARDS/H. Sasaki, Y. Hara, M. Shinkai, K. Nagai, H. Watanabe, M. Ikeda, K. Nakashima, H. Nagakura, N. Horita, A. Nagashima, R. Ushio, K. Tashiro, Y. Shibata, M. Toda, K. Takagi, T. Sato, M. Yamamoto, N. Kobayashi, M. Kudo, B.K. Rubin, S. Hashimoto, T. Kaneko, Yokohama, Japan, p.A4772**
- 206 The Role of Renin-Angiotensin Peptides in the Pathogenesis of Acute Respiratory Distress Syndrome/R.M. Reddy, A. Baydur, J.M. Liebler, K. Rogers, S. Liu, I. Asante, S. Louie, Los Angeles, CA, p.A4773**
- 207 Compromised Sirt-2 Histone Deacetylase Activity in Aged Mice Is Associated with Sustained and Aggressive Inflammatory Pathway Activation in the Lung/G.S. Thangjam, N. Barabutis, C. Dimitropoulou, B. Gregory, J.D. Catravas, Norfolk, VA, p.A4774**
- 208 Isolation of Individual Histones from Circulating Nucleosomes/N. Yehya, G.G. Lawrence, S.S. Margulies, Philadelphia, PA, p.A4775**
- 209 Anti-Inflammatory Effects of OxPAPC Involve Endothelial Cell Mediated Generation of LXA4/Y. Ke, F. Meng, E. Berdyshev, A. Birukova, K. Birukov, Chicago, IL, p.A4776**



- 210 Pulmonary Endothelial Glycocalyx Remodeling Potentially Contributes to the Post-Septic Compensatory Anti-Inflammatory Response Syndrome (CARS)/K. Oshima, Y. Yang, T.C. Lane, S.M. Haeger, K.L. Dailey, J.A. Ford, F. Zhang, R.J. Linhardt, E.P. Schmidt, Aurora, CO, p.A4777**
- 211 Effects of Prostaglandin Family Lipid Mediators on Agonist-Induced Lung Endothelial Permeability and Inflammation/A. Sitikov, N. Sarich, M.M. Yung, A. Meliton, K. Birukov, A. Birukova, Chicago, IL, p.A4778**
- 212 Esterification of Iloprost Enhances Its Barrier Protective Effects on Pulmonary Endothelium/F. Meng, T. Ohmura, M.M. Yang, A. Birukova, K. Birukov, Chicago, IL, p.A4779**
- 213 Pathological Stretch of Endothelial Cells Activates Marginated Monocytes to Release Microvesicles in an In Vitro Model of Ventilator-Induced Lung Injury/N. Tirlapur, K. O'Dea, S. Soni, R. Davies, S. Sooranna, M. Johnson, M. Wilson, M. Takata, London, United Kingdom, p.A4780**
- 214 Acrolein Causes Aldehyde-Mediated Lung Injury by Interfering with Mitochondrial Respiration of Endothelial Cells/Q. Lu, T. Lange, J. Newton, D. Borgas, G. Choudary, S. Imran, R. Basak, M. Oldham, S.I.S. Rounds, Providence, RI, p.A4781**
- 215 Decreased Mitochondrial Flexibility and Prolonged Fatty Acid Oxidation Contribute to a Unique Metabolic Phenotype in Old Mice After LPS-Lung Injury/K. Gibbs, C.-C. Chuang Key, M. Liu, L. Purcell, C. Liu, J. Parks, D.C. Files, Winston-Salem, NC, p.A4782**
- 216 Two Runx1 Isoforms Determine the Outcome in ARDS/S. Predescu, T.G. Shah, S. Qin, C. Bardita, N. Jeganathan, R. Balk, D. Predescu, Chicago, IL, p.A4783**
- 217 GWAS Association of the SELPLG Gene with Acute Respiratory Distress Syndrome Susceptibility in African-Americans: Preclinical Validation/C. Bime, N. Pouladi, K. Batai, T. Zhou, C. Kempf, X. Sun, S. Sammani, T. Wang, R. Kittles, Y. Lussier, J.G.N. Garcia, Tucson, AZ, p.A4784**
- 218 Novel Insights into Decreased Innate Immunity in Acute Lung Injury: Role of Heme/S. Aggarwal, I. Ahmad, A. Lam, M. Carlisle, H. Paiste, N. Vetal, S. Matalon, Birmingham, AL, p.A4785**
- 219 Neutrophil Chemoattractant Peptide Proline-Glycine-Proline Is Associated with Acute Lung Injury/X. Xu, N. Sharma, J. Li, T. Abdallah, X. Lou, W. King, S. Wei, P.L. Jackson, J.E. Blalock, A. Gaggar, Birmingham, AL, p.A4786**
- 220 Novel Analysis of Four-Dimensional Computed Tomography Imaging Detects the Development of Increased Anatomical Dead Space in a Murine Model of Acute Lung Injury/E.H. Kim, R. Carnibella, M. Preissner, C.R. Samarage, E. Bennett, A. Fouras, G. Zosky, H. Jones, Los Angeles, CA, p.A4787**
- 221 Analysis of Airway Resistance Using Impulse Oscillometry in a Swine ARDS and O₂ Toxicity Model/G.N. Das, W.A. Cronin, R.T. Mahon, A.A. Hall, Bethesda, MD, p.A4788**
- 222 Differential Impact of Fibrinolysins on Airway Cast Composition and Mechanical Properties Assessed by a Novel Infrared Imaging and Microindentation Approach/M.R. Wolfson, N. Pleshko, K.K. Darvish, S.T. Baker, J. Wu, R. Kyada, C. Nelson, S. Fukuda, P. Enkhbaatar, G. Florova, A.A. Komissarov, S. Idell, T.H. Shaffer, Philadelphia, PA, p.A4789**

- 223 Inhaled Thrombolytics May Prevent Lung Injury/R.L. Conhaim, W.F. Dovi, K.E. Watson, Middleton, WI, p.A4790**
- 224 Location-Specific Effects of Heparan Sulfate Fragments Released During Direct Lung Injury/S.M. Haeger, Y. Yang, J.A. Ford, M.A. Sufliata, R.L. Zemans, A.M. DeDent, F. Zhang, R.J. Linhardt, R.M. Tuder, E.P. Schmidt, Aurora, CO, p.A4791**
- 225 Traumatic Brain Injury-Induced Acute Lung Injury: Evidence for a Neuro-Respiratory-Inflammasome Axis/N.A. Kerr, R. Zambrano, S. Abassi, J.P. De Rivero Vaccari, S. Wu, E. Bancalari, W.D. Dietrich, R.W. Keane, Miami, FL, p.A4792**

RAPID: RAPID ABSTRACT POSTER DISCUSSION

B106 PRENATAL, PERINATAL, AND CHILDHOOD EXPOSURES IN LUNG DISEASE

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 151 B (Middle Building, Street Level)

Abstract Summaries 2:15-2:45

Poster Viewing/Discussion 2:45-4:15

Chairing: A.A. Litonjua, MD, MPH, Boston, MA

T.D. LeVan, PhD, Omaha, NE

E. Melen, MD, DrPH, Stockholm, Sweden

- 401 Associations Between In Utero Ambient Fine Particulate Matter Exposure and Childhood Wheeze in Mexican Children: Effect Modification by Prenatal Psychosocial Stress/M.J. Rosa, A.C. Just, I. Kloog, I. Pantic, L. Schnaas, B. Coull, J. Schwartz, M.M. Tellez Rojo, R.O. Wright, R. Wright, New York, NY, p.A4793**
- 402 Prenatal Exposure to Fine Particulate Matter Is Associated with Early Childhood Asthma: Influence of Exposure Timing and Effect Modification by Prenatal Stress and Child Sex/A. Lee, Y.-H.M. Chiu, H.-H.L. Hsu, I. Kloog, J. Schwartz, S. Cohen, A. Wilson, B. Coull, R.O. Wright, R. Wright, New York, NY, p.A4794**
- 403 In Utero Second-Hand Smoke Exposure Aggravates Elastase-Induced Emphysema in Mice: Pivotal Roles of Mmp12 and IL-17a/A. Noel, R. Xiao, Z. Perveen, K. Legendre, T. Kelly-Epps, A.L. Penn, Baton Rouge, LA, p.A4795**
- 404 The Canadian Healthy Infant Longitudinal Development (CHILD) Birth Cohort: Seasonal Exposures, Birth Month and Risk of Atopy/C. Sierra-Heredia, S. Mahmoodi, R.W. Allen, F. Coates, J. Brubacher, H. Sbihi, M. Brauer, M. Sears, J. Brook, J. Scott, D. Lefebvre, P. Subbarao, A. Becker, P. Mandhane, S. Turvey, T. Takaro, Burnaby, Canada, p.A4796**
- 405 Early Exposure to the Canadian Environment and Asthma Risk Among Immigrant Children/D. Radhakrishnan, A. Guttmann, T. To, D. Manuel, M. Nassim, J. Reisman, J. Gommerman, K. Croitoru, E.I. Benchimol, Ottawa, Canada, p.A4797**
- 406 Lung Function Deficits to Age 32 Are Associated with History of Transient Wheeze During RSV-Positive Lower Respiratory Illness/T.F. Carr, D.A. Stern, S. Guerra, A.L. Wright, W. Morgan, M. Halonen, F.D. Martinez, Tucson, AZ, p.A4798**



- 407** **Particulate Matter Exposure Predicts Residence in High Risk Areas for Community-Acquired Pneumonia Among Hospitalized Children in a Metropolitan Area/J.M. Wesley, T. Oyana, A. Bramley, S. Jain, J.A. McCullers, S.R. Arnold, S.A. Cormier, Memphis, TN, p.A4799**
- 408** **Influence of Primary Residence: Urban, Rural or Suburban, on Parental Self-Reported Environmental Exposures in 9,000 Children with Respiratory Illness/S. Krishnan, A. Ansehl, A. Lopez-Novillo, A.J. Dozor, Valhalla, NY, p.A4800**
- 409** **Traffic-Related Air Pollution and Nitric Oxide Airway Wall Diffusing Capacity in the Southern California Children's Health Study/S.P. Eckel, N. Molshatzki, P. Muchmore, E.B. Rappaport, W.S. Linn, R. Habre, Y. Zhang, K. Berhane, F. Gilliland, Los Angeles, CA, p.A4801**
- 410** **Titanium Dioxide Ultrafine Particulates Cause Elevated Airway Hyperreactivity in Fischer-344 Rats/F. Rezaee, T.J. Harford, G. Piedimonte, Cleveland, OH, p.A4802**
- 411** **Personal Exposure to Black Carbon, Nitrogen Dioxide, and Chronic Psychosocial Stress: Impacts on Childhood Asthma Exacerbation in a Seaport-Adjacent Community/N. Ji, A. Baptista, M. Greenberg, I. Mincey, C. Cepeda, C.H. Yu, P.A. Ohman-Strickland, K. Black, H. Kipen, N. Fiedler, R.J. Laumbach, Piscataway, NJ, p.A4803**
- 412** **Pesticides Exposure by Air in Vineyard Rural Area and Respiratory Health in Children/C. Raherison, M. Canal-Raffin, M. Pouquet, E. Berteaud, G. Bouvier, I. Baldi, Bordeaux, France, p.A4804**
- 413** **Predicting Bronchitic Symptoms Using Gradient Boosting Models for Longitudinal Data/H. Deng, S.P. Eckel, R. Urman, K. Berhane, F. Gilliland, Los Angeles, CA, p.A4805**
- 414** **Risk of Near-Roadway Pollutants on Bronchitic Symptoms Differs by Levels of Parental Stress Among Asthmatic and Non-Asthmatic Children in the Southern California Children's Health Study/R. Urman, S.P. Eckel, H. Deng, K. Berhane, E. Avol, F. Lurmann, R. McConnell, F. Gilliland, Los Angeles, CA, p.A4806**
- 415** **Associations of Residential Greenness with Asthma and Asthma Symptoms Among a Sample of Mexican American Children in Chicago/K.M. Eldeirawi, C. Kunzweiler, N. Rosenberg, S. Zenk, V. Persky, Chicago, IL, p.A4807**
- 416** **Does Bioaerosol Exposure Increase the Risk of Pediatric Asthma?/N. Thura, S.B. Khatri, M. Salathe, G. Kleiner, N. Shilo, L. Forster, E. Hershorin, N. Kumar, Miami, FL, p.A4808**
- 417** **Effects of Long-Term Multipollutant Exposure on Asthma Control in Children: Longitudinal Study in a Peri-Urban Community in Lima, Peru/K. Romero, K. Psoter, S.L. Pollard, D.L. Williams, L.J. Underhill, C. Johnson, S. Bose, P. Breysse, N. Hansel, W. Checkley, Lima, Peru, p.A4809**
- 418** **Asthma Diagnosis Along an Urban-Rural Gradient in Saskatchewan, Canada/O. Oluwole, D.C. Rennie, A. Senthilselvan, R. Dyck, A. Afanasieva, D.J. Adamko, J.A. Lawson, Saskatoon, Canada, p.A4810**
- 419** **Urban-Rural Differences in Health Care Utilization and Management of Childhood Asthma in the Year Following Diagnosis/J.A. Lawson, D.C. Rennie, D. Goodridge, D. Blackburn, E. Penz, L. Kleiboer, D. Turner, T. Litzenberger, U. Khanam, Saskatoon, Canada, p.A4811**
- 420** **Indoor Climate in Schools in the Mid-Atlantic Region/T.D. Wu, B. Gordon, E.M. Faghihi, C. Gummerson, D. Clemons-Erby, F. Connolly, P. Leaf, K. Koehler, M.C. McCormack, Baltimore, MD, p.A4812**
- 421** **School Microbial Exposures and Increased Asthma Morbidity in Inner-City Children/P.S. Lai, R. Kolde, E.A. Franzosa, J. Gaffin, W.J. Sheehan, D.R. Gold, R. Xavier, W. Phipatanakul, Boston, MA, p.A4813**
- 422** **Factors Affecting Bacterial DNA Extraction and Quantitation of 16S rRNA of Airborne Dust/N. Metwali, P.S. Thorne, Iowa City, IA, p.A4814**

POSTER DISCUSSION SESSION

B107 OPTIMIZING PATIENT CENTERED APPROACHES IN PULMONARY, SLEEP, AND CRITICAL CARE

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 151 A (Middle Building, Street Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: M. Carno, PhD, MBA, MJ, CHRC, RN, Rochester, NY
M.R. George, AE-C, PhD, RN, New York, NY
J.L. Guttormson, PhD, RN, Milwaukee, WI

301 **Respiratory Nurses' Knowledge and Practice Behaviours in COPD-Related Advance Care Planning: Preliminary Findings from a Cross-Sectional Survey Study/R.T. Disler, Y. Cui, T. Luckett, D. Donesky, L. Irving, D. Currow, L. Horsfall, N. Smallwood, Sydney, Australia, p.A4815**

302 **Respiratory Patient Experiences in Self-Managing Emergency Department 'Near-Miss' for Breathlessness: A Strengths-Based Qualitative Study/R.T. Disler, T. Luckett, J.L. Phillips, M. Johnson, M. Garcia, P. Bhattarai, A. Hutchinson, D. Currow, V. Carrieri-Kohlman, B. Whelan, P. Newton, M. Agar, R. Chye, C. Sheehan, S. Ivynian, P.M. Davidson, Sydney, Australia, p.A4816**

303 **Palliative Care Nurses' Attitudes and Perceived Barriers to COPD-Related Advance Care Planning: Preliminary Findings from a Cross-Sectional Survey Study/R.T. Disler, T. Luckett, D. Donesky, L. Irving, D. Currow, L. Horsfall, Y. Cui, N. Smallwood, Sydney, Australia, p.A4817**

304 **Inductive Content Analysis of Dyspneic Patient-Volunteered Comments During Hospitalization/A.R. Sheridan, R. Lansing, K. Baker, R.B. Banzett, J. Stevens, Boston, MA, p.A4818**

305 **Usability Testing of an iPad Communication Application for Mechanically Ventilated Patients/J. Guttormson, Milwaukee, WI, p.A4819**



- 306 Differences in Physical Function Response to Pulmonary Rehabilitation Amongst Clusters of Moderate-to-Severe Patients with COPD/H. Dunn, F. Laghi, S. O'Connell Schnell, C. Jelinek, J. Butler, E.G. Collins, Chicago, IL, p.A4820**
- 307 Predictors of Reduced Functional Outcomes in Revascularized Patients with Coronary Artery Disease in the RICCADSA Trial/L.M. Baniak, E.R. Chasens, P.J. Strollo, E. Thunstrom, Y. Peker, Pittsburgh, PA, p.A4821**
- 308 Predictors of Insomnia in People with COPD/M. Kapella, S. Vispute, A. Steffen, F. Laghi, B. Prasad, G. Kemner, T. Peters, C. Teixeira, D.W. Carley, Chicago, IL, p.A4822**
- 309 Medication Adherence in Pulmonary Hypertension Is Associated with Patient Anxiety and Perceived Medication Need Versus Concern/J. Yorke, P. Sephton, I. Armstrong, Manchester, United Kingdom, p.A4823**
- 310 The Association Between Daytime Sleepiness, Symptoms and Health-Related Quality of Life in Pulmonary Arterial Hypertension/L.A. Matura, K. Boyle, J. Fargo, J. Fritz, K.A. Smith, D. Pinder, C. Archer-Chicko, H. Palevsky, A. Pack, M. Sommers, S.M. Kawut, Philadelphia, PA, p.A4824**
- 311 Adherence Barriers, Facilitators and Resilience in Patients with Severe Asthma: A Qualitative Study/J.M. Foster, V.M. McDonald, M. Guo, H. Reddel, Sydney, Australia, p.A4825**
- 312 The Relationship Between Nurse-Reported and Observed Rates of Health Care Associated Infections/M. White, M. Manojlovich, D.K. Costa, Ann Arbor, MI, p.A4826**
- 313 Inpatient Mortality and Outcomes of Pulmonary Embolism in Patients Admitted to Teaching Hospitals Compared to Nonteaching Hospitals/R.E. Garcia, C.R. Hurtado, F. Vallejo, K. Lopez, R.E. Jean, New York, NY, p.A4827**
- 314 Common Atopy and Allergens in Inner-City Adolescents and Their Relationships with Asthma Control and Acute Healthcare Utilization/H. Rhee, A. Grape, D. Harrington, A. Butz, L. Tumiel-Berhalter, M. Wicks, Rochester, NY, p.A4828**
- 315 Multi-Center Comparison Using an Information Needs Questionnaire in Patients with Chronic Obstructive Pulmonary Disease/R. Wakabayashi, J. Bourbeau, D. Beaucage, M.F. Sedeno, T. Motegi, K. Hattori, Y. Kusunoki, T. Kutsuzawa, T. Urano, K. Kida, Kanagawa, Japan, p.A4829**
- 316 A Feasibility Study to Provide High-Quality Pediatric Spirometry Via Telemedicine at Remote Locations/A. Berlinski, P. Leisenring, S.A. Harwell, T.T. Perry, J. Carroll, Little Rock, AR, p.A4830**
- 317 Creating a Collaborative and Sustainable Partnership with a Public School to Promote Peer to Peer Asthma Education/G.E. Sabla, K.M. McDowell, C.M. Kercsmar, W.E. Braun, Cincinnati, OH, p.A4831**
- 318 Parental Self-Reported Environmental Exposures In Over 9,000 Children With Respiratory Illness/S. Krishnan, A. Ansehl, A. Lopez-Novillo, A.J. Dozor, Valhalla, NY, p.A4832**

- 319 Airflow Obstruction Is Associated with Lower Ratings of Sleep Disturbance in Patients with Clinically Identified COPD/L.M. Donovan, P.J. Rise, S.S. Carson, L.C. Feemster, M.F. Griffith, V.K. Kapur, J.A. Krishnan, P.K. Lindenauer, R.A. Mularski, E.T. Naureckas, B.N. Palen, E.C. Parsons, L.J. Spece, M.V. Vitello, D.H. Au, Seattle, WA, p.A4833**
- 320 Effects of CPAP on Sleep Quality, Stroke and All Cause Mortality: A Pooled Meta-Analysis of Randomized Controlled Trials/D. Shahi, A.S. Rajabalan, S.D. Paudel, P. Thiruveethy, T. Said Ahmed, T. Vidyasagaran, T. Nafsi, M. Bautista, R.S. Bailey, Youngstown, OH, p.A4834**
- 321 Patient Supplemental Oxygen Survey: Results of the American Thoracic Society (ATS) Nursing Assembly Oxygen Working Group/S.S. Jacobs, K.O. Lindell, E.G. Collins, C.M. Garvey, C. Hernandez, S. McLaughlin, A.M. Schneidman, P.M. Meek, Stanford, CA, p.A7645**
- 322 Equipment, Access and Worry About Running Short of Oxygen: Key Concerns in the Patient Supplemental Oxygen Survey/K.O. Lindell, L. Catazanarite, E.G. Collins, C.M. Garvey, C. Hernandez, S. McLaughlin, A.M. Schneidman, P.M. Meek, L.A. Hoffman, S.S. Jacobs, Pittsburgh, PA, p.A7646**
- 323 The Association Between Hemodynamics, Symptoms and Daytime Dysfunction in Pulmonary Arterial Hypertension/L.A. Matura, K. Boyle, J. Fargo, J. Fritz, K.A. Smith, D. Pinder, C. Archer-Chicko, H. Palevsky, A. Pack, M. Sommers, S. Kawut, Philadelphia, PA, p.A7647**

POSTER DISCUSSION SESSION

B108 CYSTIC FIBROSIS, PRIMARY CILIARY DYSKINESIA, AND ILD

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 201 (South Building, Level 2)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: S.D. Davis, MD, Indianapolis, IN
E. Roesch, MD, Cleveland, OH
A.J. Shapiro, MD, Montreal, Canada

501 Increased Oxidative Stress in Nasal Epithelial Cells of Primary Ciliary Dyskinesia Patients/F.J. Dasi, A. Reula, S. Pastor, S. Castillo, L. Banuls, S. Vicente Ferrer, M.M. Navarro-Garcia, M. Armengot, A. Escibano, Valencia, Spain, p.A4835

502 Neuroendocrine Cell Hyperplasia of Infancy (NEHI): Does Failure to Thrive Predict or Influence Pulmonary Morbidity?/R.J. Nevel, E. Garnett, A. Arkon, L.R. Young, Nashville, TN, p.A4836

503 Development and Validation of Csf2ra Gene-Deficient Mice as a Clinically Relevant Model of Children with Hereditary Pulmonary Alveolar Proteinosis/T. Suzuki, K. Shima, P. Arumugam, Y. Ma, D. Black, C. Chalk, B. Carey, B.C. Trapnell, Cincinnati, OH, p.A4837



- 504 Lung Involvement in Childhood Langerhans Cell Histiocytosis, A Multi-Institutional Study from the French LCH Study Group/R. Epaud, J. Kabla, V. De La Valle, J. Donadieu, Creteil, France, p.A4838**
- 505 Children with Primary Ciliary Dyskinesia and Situs Ambiguus Have Worse Clinical Outcomes/A.J. Shapiro, S.D. Davis, S.D.M. Dell, T.W. Ferkol, M. Rosenfeld, S. Sagel, C. Milla, K.N. Olivier, M.A. Zariwala, M. Knowles, M. Leigh, Montreal, Canada, p.A4839**
- 506 Pulmonary Radio-Aerosol Mucociliary Scan to Evaluate Primary Ciliary Dyskinesia in Children with Bronchiectasis/H. Ghandourah, R. Vali, M. Charron, Y. Omerkheil, K. Veisi Nezhad, A. Shammass, S.D.M. Dell, Toronto, Canada, p.A4840**
- 507 Chronic Azithromycin Use in Cystic Fibrosis and Risk of Treatment-Emergent Respiratory Pathogens/J.D. Cogen, F. Onchiri, J. Emerson, M. Rosenfeld, Seattle, WA, p.A4841**
- 508 Pharmacokinetics of Oral MAC Antibiotics in Cystic Fibrosis/S. Martiniano, B. Wagner, L. Brennan, M. Wempe, P. Anderson, J. Nick, S. Sagel, Aurora, CO, p.A4842**
- 509 Changes in Lung Clearance Index Track Clinical Status in Children with Cystic Fibrosis/R. Foong, C. Batchelor, A.J. Harper, B. Skoric, L. King, S. Ranganathan, G.L. Hall, Perth, Australia, p.A4843**
- 510 An Investigation into Usefulness of Exhaled Nitric Oxide and Atopy as Markers of Allergic Bronchopulmonary Aspergillosis in Cystic Fibrosis/K. Keown, M. Chilvers, Vancouver, Canada, p.A4844**
- 511 Structural Determinants of Long Term Functional Outcomes in Children with Cystic Fibrosis/L. Turkovic, D. Caudri, T. Rosenow, S. Ranganathan, G.L. Hall, S. Stick, Subiaco, Australia, p.A4845**
- 512 Chronic Inflammation and Infection Leads to Worse Structural Lung Disease in Young Children with Cystic Fibrosis/T. Rosenow, C. Mok, L. Turkovic, C.P. Murray, P.D. Sly, S. Ranganathan, S. Stick, Subiaco, Australia, p.A4846**
- 513 Rate of Lung Function Decline in Patients with Cystic Fibrosis (CF) Having a Residual Function Gene Mutation/G.S. Sawicki, M. Konstan, E. McKone, R.B. Moss, C. Johnson, B. Lubarsky, E. Suthoff, S. Millar, D.J. Pasta, N. Mayer-Hamblett, C. Goss, W. Morgan, Boston, MA, p.A4847**
- 514 Determining Lung Infection Etiology in CF Patients Using Breath and Other Biofluids/J. Hill, M. Nasir, H. Bean, E. Zemanick, A. Ashare, A. Gifford, A. Smolinska, Hanover, NH, p.A4848**
- 515 Cystic Fibrosis and Pediatric Lung Transplantation: Improved Survival in the Lung Allocation Score Era/T.C. Crawford, K. Dickinson, J.T. Magruder, J.C. Grimm, E.L. Bush, B.S. Kim, C.A. Merlo, Baltimore, MD, p.A4849**
- 516 Cysteamine-Mediated Clearance of Multi-Drug Resistant Pathogens from Cystic Fibrosis Macrophages/B.T. Kopp, C. Shrestha, K. Assani, L.S. Schlesinger, Columbus, OH, p.A4850**
- 517 Personalized Drug Prediction for Cystic Fibrosis Using iPSC-Derived Lung Organoids/F.J. Hawkins, D.C. Thomas, K.B. McCauley, A. Crane, B. Davis, D.N. Kotton, Boston, MA, p.A4851**
- 518 A Combined 'Omics Strategy Identifies the Methionine Salvage Pathway as a Novel Therapeutic Target for Cystic Fibrosis Airways Disease/C.R. Esther, W. O'Neal, D. Polineni, A. Mahon, S. Isaacman, M. Knowles, Chapel Hill, NC, p.A4852**
- 519 Clinical and Pathologic Assessment of Isolated and Immune-Mediated Pulmonary Capillaritis in Children/J.J. Soares, J.S. Debley, B.A. Kinghorn, M. Dishop, L.R. Young, G.H. Deutsch, Seattle, WA, p.A4853**
- 520 Fenretinide Modulates the Inflammation and Mucus Production in Cystic Fibrosis by Regulating the Activity of Phospholipase A2 Activity and the Expression of Mucin Genes/D. Garic, J.B. De Sanctis, G. Wojewodka, M. Youssef, F. Kopriva, P. Dzubak, M. Hajdich, E. Matouk, D. Radzioch, Montreal, Canada, p.A4854**
- 521 Prevalence of Pelvic Incontinence in Pediatric Patients with Cystic Fibrosis/F. Neemuchwala, F. Ahmed, J. Zager, S.Z. Nasr, Ann Arbor, MI, p.A4855**
- 522 Bacterial Growth Rate in Cystic Fibrosis Pulmonary Exacerbation/A.S. Kasi, C. Neubauer, R.M. Kato, D.K. Newman, Los Angeles, CA, p.A4856**
- 523 Pulmonary Macrophage Transplantation Therapy in Csf2ra Gene-Abated Mice: A Novel Model of Hereditary Pulmonary Alveolar Proteinosis in Children/K. Shima, T. Suzuki, P. Arumugam, N. Lachmann, T. Moritz, Y. Ma, D. Black, C. Chalk, B. Carey, B.C. Trapnell, Cincinnati, OH, p.A4857**
- 524 Cell Therapy for Cystic Fibrosis: Is There an Optimal Source of Basal Progenitor Cells?/D. Hayes, Jr., D. Tumin, R. Aggarwal, S. Lallier, C. Hill, B.T. Kopp, C.J. Nemasitil, S.D. Reynolds, Columbus, OH, p.A4858**
- 525 Abnormal Airway Growth in Cystic Fibrosis Piglets/R. Adam, M. Abou-Alaiwa, D. Cook, D. Bouzek, E. Hoffman, D.K. Meyerholz, D.A. Stoltz, Iowa City, IA, p.A7648**

POSTER DISCUSSION SESSION

B109 ADVANCES IN PULMONARY MEASUREMENTS, MODELING, AND METHODOLOGY

2:15 p.m. - 4:15 p.m. **MARRIOTT MARQUIS WASHINGTON**

Marquis Ballroom 1-2 (Level M2)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: G. King, MBChB, PhD, St. Leonards, Australia
K.I. Berger, MD, New York, NY
C.G. Irvin, PhD, Burlington, VT

801 Lung Elastic Recoil in Older Asthmatics with Fixed Airflow Obstruction/K. Tonga, C. Farah, C. Nguyen, C. Thamrin, G. King, Sydney, Australia, p.A4859

802 Visual Aid for Panting Frequency During a Body Plethysmograph (VAPFABP)/J. Stienecker, J. Gordon, Pueblo, CO, p.A4860

803 Diagnostic Value of FEV3/FEV6 Abnormality in Smokers and Ex-Smokers with Preserved Ratio Impaired Spirometry (PRISm)/A.D. Can, A. Gorek Dilektasli, J. Porszasz, W.W. Stringer, J. Hansen, R. Casaburi, Torrance, CA, p.A4861



- 804** **Flows at Low Lung Volumes Decline Prior to FEV₁ in Bronchiolitis Obliterans Syndrome After Lung Transplantation**/N.R. Bhakta, A.G. Bondoc, J.P. Singer, L. Leard, R.J. Shah, M.E. Kleinhenz, J. Kukreja, S. Hays, J.A. Golden, W.M. Gold, J.A. Nadel, San Francisco, CA, p.A4862
- 805** **Respiratory System Impedance During Voluntary Lung Inflation Differentiates Pathogenic Mechanisms in Obstructive and Interstitial Disorders**/B.W. Oppenheimer, R.M. Goldring, D. Smith, K.I. Berger, New York, NY, p.A4863
- 806** **A 6-Month Study of Weight-Loss- and Bronchodilator-Induced Changes in Upright and Supine Respiratory System Mechanics: Implications from Modelling**/U. Peters, G. Dechman, P. Hernandez, S. Bhatawadekar, J. Ellsmere, G.N. Maksym, Burlington, VT, p.A4864
- 807** **Patient-Based Outcomes Are Related to Within-Breath Forced Oscillation Mechanics Obtained from Home-Monitoring in COPD**/S.C. Zimmermann, J.C. Watts, C. Nguyen, A. Gobbi, A. Bertolin, C. Farah, M. Peters, R. Dellaca, G. King, C. Thamrin, Sydney, Australia, p.A4865
- 808** **The Quantitative Link of Lung Clearance Index to Bronchial Segments Affected by Bronchiectasis**/S. Verbanck, G. King, W. Zhou, A. Miller, C. Thamrin, D. Schuermans, B. Ilse, C. Ernst, J. Demey, W. Vincken, E. Vanderhelst, Brussels, Belgium, p.A4866
- 809** **Associations Between Pruning of the Pulmonary Vasculature, Impaired Lung Function and Fixed Obstruction in Asthmatics: The SARP Cohort**/S.Y. Ash, F.N. Rahaghi, J.C. Cardet, C.E. Come, J. Ross, A.A. Diaz, S.E. Wenzel, J.V. Fahy, E.A. Hoffman, M. Castro, N.N. Jarjour, S.B. Fain, B.D. Levy, E. Israel, R. San Jose Estepar, G.R. Washko, Boston, MA, p.A4867
- 810** **Ventilation Heterogeneity Reversibility: Asthma, COPD or ACOS?**/R.L. Eddy, K. Sheikh, D.P. Capaldi, S. Svenningsen, C. Licskai, D.G. McCormack, G. Parraga, London, Canada, p.A4868
- 811** **Biomarkers of Emphysema in COPD and Alpha-1 Antitrypsin Deficiency: ¹²⁹Xe MRI Morphomics**/A. Ouriadov, E. Lessard, F. Guo, H.M. Young, A. Bhalla, M. Kirby, H.O. Coxson, D.G. McCormack, G. Parraga, London, Canada, p.A4869
- 812** **Quantitative CT Imaging-Based Characteristics in Asthma and COPD Populations with Chronic Functional Alterations**/S. Choi, B. Haghighi, E.A. Hoffman, J.D. Newell, S.E. Wenzel, M. Castro, S.B. Fain, N.N. Jarjour, M. Schiebler, R.G. Barr, M.K. Han, C.B. Cooper, D. Couper, N. Hansel, R.E. Kanner, E. Kazerooni, E. Kleerup, W. O'Neal, P.G. Woodruff, F.J. Martinez, E. Blecker, C.-L. Lin, Iowa City, IA, p.A4870
- 813** **Structural Analysis of the Airway Tree in Explanted Lungs with Severe COPD Using a Combination of MDCT, microCT and Histology**/N. Tanabe, D.M. Vasilescu, H.O. Coxson, M. Kirby, D. Kinose, Y. Nakano, P.D. Pare, J.C. Hogg, Vancouver, Canada, p.A4871
- 814** **Comparison of Pre- and Post-Bronchodilator Spirometry: Discordance Airflow Obstruction**/S. Fortis, M. Eberlein, A.P. Comellas, Iowa City, IA, p.A4872
- 815** **Fractal Dimension Analysis of Pulmonary Parenchyma and Emphysema Predicted 10-Year Survival in COPD Patients**/J. Hwang, Y.-M. Oh, M. Lee, S. Lee, N. Kim, J. Seo, Seoul, Korea, Republic of, p.A4873
- 816** **Interactive Effects of PEEP and FIO₂ During Anesthesia: Different Consequences Indicated by Computed Tomography (CT) Versus Electric Impedance Tomography (EIT)**/J.R. Melo, B.M. Ribeiro, M.A.M. Nakamura, C.C.A. Morais, M.A. Beraldo, S. Gomes, M.B.P. Amato, M.R. Tucci, Sao Paulo, Brazil, p.A4874
- 817** **A Fully Automated Airway Segmentation Algorithm from Chest CT Images at Total Lung Capacity**/S.A. Nadeem, D. Jin, E.A. Hoffman, P.K. Saha, Iowa City, IA, p.A4875
- 818** **Intrapulmonary Artery and Airway Reactivity Is Altered in Precision Cut Lung Slices from a Rat Model of Pulmonary Arterial Hypertension**/M. Lam, M. FitzPatrick, R. Harper, P.N. Reynolds, J.E. Bourke, Melbourne, Australia, p.A4876
- 819** **Collective Cell Mechanical Determinants of Endothelial Permeability: Long Range Cell To Cell Stress Transmission Guides Paracellular Gap Formation**/C.C. Hardin, J. Chatotraj, J.P. Butler, J.J. Fredberg, E. Del Gado, R. Krishnan, Boston, MA, p.A4877
- 820** **A Microfluidic Chamber-Based Novel Method to Image Endothelial Cell Shear Modulus**/B. Suki, Y. Hu, N. Murata, J. Imsirovic, J.R. Mondonedo, C. Oliveira, N. Schaible, P. Allen, R. Krishnan, E. Bartolak-Suki, Boston, MA, p.A4878
- 821** **An Elastic Network Model Interpretation of Emphysema Progression in Follow-Up CT**/J.R. Mondonedo, A.H. Sonnenberg, W.P. Obrochta, S. Sato, S. Muro, B. Suki, Boston, MA, p.A4879
- 822** **Estimating Force and Stiffness Distributions in an Alveolar Network: Implications for In Situ Mechanotransduction**/H. Parameswaran, J.R. Mondonedo, S. Bou Jawde, E. Bartolak-Suki, R. Krishnan, K. Lutchen, B. Suki, Boston, MA, p.A4880
- 823** **Inert-Gas Washout and Forced Oscillation Technique Show Sensitivity to the Degree of Regionalisation of Bronchoconstriction**/B.H. Foy, D. Kay, Oxford, United Kingdom, p.A4881
- 824** **A New Mechanism for Frequency Dependence of Resistance**/H. Hanafi, G.N. Maksym, K. El-Sankary, Halifax, Canada, p.A4882
- 825** **Age-Associated Changes in Thoracic Structure and the Impact on Lung Function: A Quantitative Study**/M. Osanlouy, Y. Zhang, H. Kumar, A. Clark, D. Malcolm, E.A. Hoffman, M. Tawhai, Auckland, New Zealand, p.A4883

RAPID: RAPID ABSTRACT POSTER DISCUSSION

B110 PULMONARY NODULES AND THORACIC SURGERY: WORKING ACROSS THE AISLE2:15 p.m. - 4:15 p.m. **MARRIOTT MARQUIS WASHINGTON**

Marquis Ballroom 3-4 (Level M2)

Abstract Summaries 2:15-2:45

Poster Viewing/Discussion 2:45-4:15

Chairing: T. Aoki, MD, PhD, Isehara City, Japan
 J.S. Donington, MD, New York, NY
 G.A. Silvestri, MD, MS, Charleston, SC



- 901 Comparative Effectiveness of Robotic-Assisted Surgery for Resectable Lung Cancer in Older Patients/R.R. Veluswamy, S.-A. Whittaker, D.G. Nicastrì, G. Mhango, C.B. Smith, M. Bonomi, M. Galsky, A. Neugut, J.P. Wisnivesky, New York, NY, p.A4884**
- 902 3-Year Survival Among Early Stage Lung Cancer Patients Treated with Lobectomy vs SBRT/D. Albano, T. Bilfinger, K. Chokshi, B. Nemesure, Stony Brook, NY, p.A4885**
- 903 Racial and Geographic Disparities in Early Lung Cancer Resection in a Nationwide Hospital Database/A.A. Balekian, A. Kim, Los Angeles, CA, p.A4886**
- 904 Lung Cancer Surgery for Early Stage Non-Small Cell Lung Cancer: Systematic Review of Mortality According to the Presence of COPD/R.J. Hopkins, J. Ko, G.D. Gamble, R.P. Young, Auckland, New Zealand, p.A4887**
- 905 Novel Perspective to Choose Suitable Cases for Segmentectomy- Regularity and Clinical Significance of Intrapulmonary Lobar and Segmental Lymph Nodes Metastasis in cT1N0M0 Stage Lung Adenocarcinoma/F. Xiao, D. Liu, Y. Guo, C. Liang, Beijing, China, p.A4888**
- 906 Oxygen Use and Dependence After Lung Cancer Surgery/D.G. Nicastrì, N. Alpert, B. Liu, A. Wolf, E. Taioli, R. Flores, New York, NY, p.A4889**
- 907 Surgery with Postoperative Radiation Should Be Considered for Stage I Small Cell Lung Cancer/K. Jin, K. Zhang, F. Zhou, J. Dai, P. Zhang, G. Jiang, Shanghai, China, p.A4890**
- 908 CANARY (Computer-Aided Nodule Assessment and Risk Yield) of Non-Adenocarcinoma Pulmonary Nodules in the NLST Cohort/R. Clay, B. Bartholmai, F. Duan, R. Karwoski, F. Maldonado, S. Rajagopalan, T. Peikert, Rochester, MN, p.A4891**
- 909 CANARY (Computer-Aided Nodule Assessment and Risk Yield) Based Texture Analysis May Facilitate Non-Invasive Prediction of EGFR Mutation Status in Lung Adenocarcinomas/R. Clay, S. Jenkins, B. Kipp, B. Bartholmai, R. Karwoski, F. Maldonado, S. Rajagopalan, M.C. Aubry, T. Peikert, Rochester, MN, p.A4892**
- 910 Necessity of Nodule Risk Stratification in Patients Undergoing Lung Cancer Screening/S. Allamneni, S. Shofer, Durham, NC, p.A4893**
- 911 Pulmonary Nodule Malignancy Risk Calculators in a Lung Cancer Screening Program: Performance Review After Positive Screening Results/A.S. Carlson, C.L. Wilshire, J.T. Fathi, B.E. Louie, R.W. Aye, A.S. Farivar, E. Vallieres, J.A. Gorden, C.R. Gilbert, Seattle, WA, p.A4894**
- 912 A Multi-Gene Classifier for the Diagnosis of Benign Versus Malignant Pulmonary Nodules/A. Vachani, M. Atalay, R. Bremner, B. Broussard, K. Copeland, K.V.L. Egressy, S. Ferguson, L. Friedman, R.J. Harris, J. Kidd, J. Leach, P. McQuary, L. Qiu, S. Sarkar, N. Sheibani, J. Shuff, B. Vincent, L. Hesterberg, Philadelphia, PA, p.A4895**
- 913 Incidental Pulmonary Nodules in Veterans Undergoing Lung Cancer Screening: Description of a Large Cohort/V. Mehta, A. Blake, K. Bhatia, F. Ratnaraj, A. Herman, L. Morrow, Omaha, NE, p.A4896**
- 914 A Malignancy Risk Prediction Model for High-Risk Pulmonary Nodules/M. Reid, H. Choi, S. Mukhopadhyay, L. Morgan, A. Khawaja, P. Mazzone, Cleveland, OH, p.A4897**
- 915 Association of Heart Rate Recovery and Survival Following Curative Intent Lung Cancer Resection Surgery/L. Harper, J. Singh, X. Wang, X. Han, P. Mazzone, Cleveland, OH, p.A4898**
- 916 The Effect of a Pulmonary Nodule Factsheet on Patient Anxiety and Knowledge: A Quality Improvement Initiative/M. Koroscil, M. Bowman, A.J. Skabelund, San Antonio, TX, p.A4899**
- 917 Does Mediastinal Fat Invasion Effect Survival of Patients with Lung Cancer? A Criticism on Forthcoming Eighth Edition of the TNM Classification of Non-Small Cell Lung Cancer/N. Citak, Y. Aksoy, O. Isgorucu, B. Acikmese, C. Obuz, S. Buyukkale, N.A. Fener, M. Metin, A. Sayar, Istanbul, Turkey, p.A4900**
- 918 Institutional Assessment of Adherence to Guideline Care in Lung Cancer Diagnosis and Staging Reveals Negative Impact of Inconsistencies/J.R. Rayburn, C.L. Wilshire, C.C. Fuller, C.R. Gilbert, B.E. Louie, R.W. Aye, A.S. Farivar, E. Vallieres, J.A. Gorden, Seattle, WA, p.A4901**
- 919 Clinical Indicators of Survival in Stage IV Lung Cancer: The Place of Nodal(N) and Metastases(M) Descriptors/P.S. Zhu, T. Vandemoortele, Montreal, Canada, p.A4902**
- 920 Perioperative 3-Dimensional Micro Computed Tomography of Human Surgical Lung Specimens: A Pilot Study/F.M. Troschel, D. DiCorpo, M. Griffin, J. Mario, L.P. Hariri, J.-A.O. Shepard, H. Ott, C.D. Wright, A. Muniappan, M. Lanuti, J. Michaelson, F.J. Fintelmann, Boston, MA, p.A4903**
- 921 Assessing Overdiagnosis in Stage I Non-Small Cell Lung Cancer/M.S. Kale, K. Sigel, J.P. Wisnivesky, New York, NY, p.A4904**
- 922 Establishing a Multidisciplinary Lung Nodule Care Program Improves Access to Care and Reduces Time to Diagnosis and Treatment/R. Chepuri, T. Weinstock, K. Kelley, P. Kidambi, A. Flores, L. Weissmann, E. DeRose, P. Maggs, L. Khorashadi, R. Reichle, J. Perry, A. Abner, C.C. Thomson, Cambridge, MA, p.A4905**
- 923 NoduleNet: Saving Lives by Preventing Lung Nodule Loss to Follow-Up/T. Weinstock, K. Kelley, A. Flores, L. Khorashadi, M. Shortsleeve, V.E. Stone, C.C. Thomson, Cambridge, MA, p.A4906**
- 924 Evaluation of the Prognostic Significance of AJCC Staging Guidelines in Lung Carcinoid Tumors/J. Yoon, J. Martin, R. Jordan, M.B. Beasley, C.B. Smith, A. Kaufman, J.P. Wisnivesky, M. Kang Kim, New York, NY, p.A4907**



5:00 p.m. - 7:00 p.m.

ASSEMBLY MEMBERSHIP MEETINGS

The fourteen Assemblies are the primary groups of the American Thoracic Society. Each Assembly holds an annual Membership Meeting at the International Conference. All Assembly members and other interested individuals are invited to attend.

The Assembly Membership Meetings provide an update on the Assembly's activities via the Assembly's Leadership and provide Assembly members the chance to have input on future directions, information on how to get involved and networking opportunities. Voting results for the Assembly's future leaders will also be announced.

The Assembly Membership Meetings will be held on Monday, May 22, 2017, 5:00 p.m. - 7:00 p.m., with the exception of the Assemblies on Behavioral Science and Health Services Research and Pediatrics (see below.)

ALLERGY, IMMUNOLOGY AND INFLAMMATION

GRAND HYATT WASHINGTON

Independence Ballroom B-E (Independence Level 5B)

Chairing: Mitchell A. Olman, MA, MD, Cleveland, OH

BEHAVIORAL SCIENCE AND HEALTH SERVICES RESEARCH

RENAISSANCE WASHINGTON DOWNTON

Grand Ballroom South (Ballroom Level)

Chairing: Christopher H. Goss, MD, MSc, Seattle, WA

This meeting will be held on Sunday, May 21st.

CLINICAL PROBLEMS

GRAND HYATT WASHINGTON

Constitution Ballroom C (Constitution Level 3B)

Chairing: Sanjay Sethi, MD, Buffalo, NY

CRITICAL CARE

RENAISSANCE WASHINGTON DOWNTON

Grand Ballroom South (Ballroom Level)

Chairing: Carolyn S. Calfee, MD, San Francisco, CA

ENVIRONMENTAL OCCUPATIONAL AND POPULATION HEALTH

RENAISSANCE WASHINGTON DOWNTON

Renaissance Ballroom East (Ballroom Level)

Chairing: Jack R. Harkema, DVM, PhD, East Lansing, MI

MICROBIOLOGY, TUBERCULOSIS AND PULMONARY INFECTIONS

GRAND HYATT WASHINGTON

Declaration A-B (Declaration Level 1B)

Chairing: Kevin P. Fennelly, MD, MPH, Bethesda, MD

NURSING

RENAISSANCE WASHINGTON DOWNTON

Renaissance Ballroom West B (Ballroom Level)

Chairing: Eileen G. Collins, PhD, Chicago, IL

PEDIATRICS

RENAISSANCE WASHINGTON DOWNTON

Grand Ballroom Central (Ballroom Level)

Chairing: James Chmiel, MD, MPH, Cleveland, OH

This meeting will be held on Sunday, May 21st.

PULMONARY CIRCULATION

RENAISSANCE WASHINGTON DOWNTON

Grand Ballroom North (Ballroom Level)

Chairing: Troy Stevens, PhD, Mobile, AL

PULMONARY REHABILITATION

RENAISSANCE WASHINGTON DOWNTON

Renaissance Ballroom West A (Ballroom Level)

Chairing: Carolyn L. Rochester, MD, Cheshire, CT

RESPIRATORY CELL AND MOLECULAR BIOLOGY

GRAND HYATT WASHINGTON

Independence Ballroom F-I (Independence Level 5B)

Chairing: Irina Petrache, MD, Denver, CO

RESPIRATORY STRUCTURE AND FUNCTION

GRAND HYATT WASHINGTON

Independence Ballroom A (Independence Level 5B)

Chairing: Blanca Camoretti-Mercado, PhD, Tampa, FL

SLEEP AND RESPIRATORY NEUROBIOLOGY

GRAND HYATT WASHINGTON

Constitution Ballroom B (Constitution Level 3B)

Chairing: Susheel P. Patil, MD, PhD, Baltimore, MD

THORACIC ONCOLOGY

RENAISSANCE WASHINGTON DOWNTON

Congressional Hall A (Ballroom Level)

Chairing: Michael K. Gould, MD, MS, Pasadena, CA



7:00 p.m. - 10:00 p.m.

ASSEMBLY DINNERS AND RECEPTIONS

Assembly members and non-members, students and fellows are invited to join us for an evening of networking, great company, and camaraderie. This is a wonderful opportunity to introduce young members and trainees to Assembly leaders, to connect with old friends and to set up new interactions and collaborations.



Pre-registration and an additional fee are required. Seating is limited.
The following Assemblies will hold a dinner or reception on Monday May 22, 2017 from 7:00 p.m. - 10:00 p.m. immediately following the Assembly Membership Meetings.

**Assembly on Allergy,
Immunology and Inflammation &
Assembly on Respiratory Cell and
Molecular Biology
Joint Reception**
GRAND HYATT WASHINGTON
Constitution Ballroom A (Constitution Level 3B)
Fellow - \$30.00
Member - \$50.00
Non-Member - \$60.00

Assembly on Critical Care Reception
RENAISSANCE WASHINGTON DOWNTON
Congressional Hall B (Ballroom Level)
Fellow - \$25.00
Member - \$45.00
Non-Member - \$55.00

**Assembly on Microbiology, Tuberculosis and
Pulmonary Infections Reception**
GRAND HYATT WASHINGTON
Penn Quarter A-B (Declaration Level 1B)
Fellow - \$30.00
Member - \$50.00
Non-Member - \$60.00

Assembly on Pediatrics Dinner
RENAISSANCE WASHINGTON DOWNTON
Grand Ballroom Central (Ballroom Level)
Fellow - \$65.00
Member - \$75.00
Non-Member - \$85.00

**Assembly on Respiratory Structure
and Function Reception**
GRAND HYATT WASHINGTON
Independence Ballroom A (Independence Level 5B)
Fellow - \$40.00
Member - \$40.00
Non-Member - \$40.00

Assembly on Sleep and Respiratory Neurobiology Reception
GRAND HYATT WASHINGTON
Wilson - Arlington (Constitution Level 3B)
Fellow - \$30.00
Member - \$50.00
Non-Member - \$60.00

Assembly on Thoracic Oncology Reception
RENAISSANCE WASHINGTON DOWNTON
Mount Vernon Square A (Meeting Room Level)
Fellow - \$20.00
Member - \$35.00
Non-Member - \$45.00

Dinner/Reception Disclaimer – Event prices reflect menu selections.

For more information on the Assembly Dinners and Receptions
please visit the ATS Assembly home page at: <http://www.thoracic.org/members/assemblies/about>

ATS 2017
Where today's science meets tomorrow's care™
International Conference
Washington, DC
Tuesday Morning, May 23

CLINICAL
PEDIATRIC CLINICAL CORE CURRICULUM

CME Credits Available: 1

MOC Points Available: 1

PCC3 PEDIATRIC CLINICAL CORE CURRICULUM

Pediatric Core Curriculum Working Group

7:00 a.m. - 8:00 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Ballroom B (South Building, Level 3)

Target Audience

Pediatric pulmonary and critical care physicians who work in a clinical setting and are currently engaged in maintenance of certification

Objectives

At the conclusion of this session, the participant will be able to:

- remain current with medical knowledge relevant to their practice in pediatric pulmonology;
- evaluate their understanding of key skills and content areas in pediatric pulmonology as well as receive feedback on their comprehension of a result of a pre-test/post-test comparison;
- support clinicians who are engaged in maintenance of certification activities by providing updates on subjects included in recertification requirements.

The Pediatric Core Curriculum symposia promote lifelong learning and the enhancement of the clinical judgment and skills essential for practicing pediatrician. The symposia will address topics that have been identified by an ATS pediatric working group, which is comprised of members of the ATS Education Committee and the International Conference Committee, who have identified important areas within pediatric medicine (including severe asthma, ILD, BPD, pulmonary hypertension and pulmonary manifestations of pulmonary disease). Attendees will increase their medical knowledge as a result of attending this symposium, and this will be measured by a comparison of pre-test vs. post-test results on the corresponding maintenance of certification module. The ATS Pediatric Core Curriculum will focus on a 3-year content cycle of key medical content in the area of pediatric medicine.

Chairing: M.K. Abe, MD, Chicago, IL

7:00 BPD: Pathophysiology and NICU Managment
E.G. Shepherd, MD, Columbus, OH

7:30 BPD: Outpatient Management
H.B. Panitch, MD, Philadelphia, PA

SUNRISE SEMINARS

CME Credits Available: 1

Registration Fee: \$50.00 (includes continental breakfast.)
Attendance is limited. Pre-registration is required.

7:00 a.m. - 8:00 a.m. MARRIOTT MARQUIS WASHINGTON
SS201 THE ROLE OF APOLIPOPROTEINS IN ASTHMA AND LUNG DISEASE

A.V. Barochia, MBBS, MHS, Bethesda, MD
George Washington University (Level M1)
SS202 BETTER "BOARDING": AN OPERATIONS APPROACH TO IMPROVING CARE AT THE ED-ICU INTERFACE

K.S. Mathews, MD, MPH, New York, NY
Georgetown University (Level M1)
SS203 DECIPHERING CONNECTIVE TISSUE DISEASE SEROLOGIES IN IDIOPATHIC INTERSTITIAL PNEUMONIA

C. Johnson, MD, Baltimore, MD
Howard University (Level M1)
SS204 EVALUATING THE PATIENT WITH SUSPECTED PULMONARY HYPERTENSION: GUIDELINES AND CONTROVERSIES

N.F. Chaisson, MD, Cleveland, OH
Gallaudet University (Level M1)
SS205 LAMA, LABA, ICS AND COMBINATIONS: DEMYSTIFYING CURRENT INHALER THERAPIES IN COPD

M. Dulohery, MD, Rochester, MN
Catholic University (Level M1)
SS206 HOW DONOR LUNG ALLOCATION WORKS: A PRIMER FOR THE REFERRING PROVIDER

W.M. Tsuang, MD, MHS, Cleveland, OH
University of DC (Level M1)
SS207 PLEURAL INFECTION: BEST PRACTICE IN DIAGNOSIS AND TREATMENT

N.M. Rahman, MD, PhD, Oxford, United Kingdom
Marquis Salon 14 (Level M2)
SS208 MY ASYMPTOMATIC ILD PATIENT HAS POSITIVE SEROLOGIES. WHAT TO DO?

A. Brown, MD, BSN, Atlanta, GA
Marquis Salon 13 (Level M2)
SS209 FRAILTY ASSESSMENT TOOLS FOR ICU: TRANSLATING AGING BIOLOGY TO IMPROVE CARE

A.A. Hope, MD, MSCE, Bronx, NY
Marquis Salon 12 (Level M2)
SS210 REAL-WORLD SPIROMETRY: AVOIDING TECHNICAL PITFALLS AND CHOOSING AN INTERPRETATION ALGORITHM

M. Townsend, PhD, Pittsburgh, PA
Union Station (Level M3)



- SS211 EXTENSIVELY DRUG RESISTANT TUBERCULOSIS: UPDATES IN EPIDEMIOLOGY, DIAGNOSIS, AND TREATMENT**
M. O'Donnell, MD, MPH, New York, NY
Chinatown (Level M3)
- SS212 IMPLICATIONS AND MANAGEMENT OF ANXIETY, DEPRESSION, AND FATIGUE IN CHRONIC LUNG DISEASE**
M. Bors, MA, RN, Minneapolis, MN
R. Tomic, MD, Minneapolis, MN
Mount Vernon Square (Level M3)
- SS213 WHY CAN'T I GET THIS BABY OFF OXYGEN?**
D.R. Liptzin, MD, Aurora, CO
Judiciary Square (Level M3)
- SS214 THE BIG CLOT: HEMODYNAMICS, RISK STRATIFICATION AND TREATMENT OF MAJOR PULMONARY EMBOLISM**
H. Poor, MD, New York, NY
LeDroit Park (Level M3)
- SS215 MECHANOTRANSDUCTION IN LUNG DISEASE**
B.D. Southern, MD, Cleveland, OH
Shaw (Level M3)
- SS216 THINKING OF STARTING A BRONCHIAL THERMOPLASTY PROGRAM: WHAT YOU NEED TO KNOW IN 2017**
O. Epelbaum, MD, Valhalla, NY
Treasury (Level M4)
- SS217 INSOMNIA IN SLEEP APNEA PATIENTS: WHEN AND HOW SHOULD YOU TREAT?**
M. Grandner, PhD, Tucson, AZ
Mint (Level M4)
- SS218 TARGETING TUMOR-ASSOCIATED MACROPHAGES CAN BE THE PATH TO WIN THE WAR ON CANCER**
R. Savai, PhD, Bad Nauheim, Germany
Supreme Court (Level M4)

FACULTY DEVELOPMENT SEMINAR

FD2 WALKING THE TIGHTROPE TO TENURE AND PROMOTION: YOUR FIRST SEVEN YEARS

Pre-registration is required. Attendance is limited. There is no additional fee.

7:00 a.m. - 8:00 a.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 101 (South Building, Street Level)

Target Audience

Clinical and research fellows, post-doctoral fellows, residents, and junior faculty in the early stages of a career in academic pulmonary, allergy, critical care, and/or sleep medicine

Objectives

At the conclusion of this session, the participant will be able to:

- identify specific career opportunities and benchmarks and strategies to attain tenure or equivalent status in academic medicine and industry research;
- describe the differences between tenure track and non-tenure track pathways and their equivalent within academic medicine and advancement in industry;
- review how expectations of performance and benchmarks for promotion vary depending on career path.

Trainees and early career faculty must plan carefully in order to succeed in the critical first phase of their careers - the first 7 years after their initial appointment. During this crucial phase of their nascent careers, they must establish their own professional career independent of their previous supervisors/mentors in their areas of focus that may include research, clinical care, education, and/or creative professional activity. This is in addition to the stresses of personal and family life that may sometimes overshadow professional development. There are very different expectations and benchmarks that define success within these different career paths in both academic and non-academic institutions that may not be clear to trainees or early career faculty. The goal of this session is to bring together representatives from academic institutions and industry for an interactive panel discussion to allow attendees to explore the options for career development through a moderated interaction between the panel discussants and the attendees.

Chairing: G.P. Downey, MD, Denver, CO

Speakers: M. Peters-Golden, MD, Ann Arbor, MI
A. Morris, MD, Pittsburgh, PA
A. Rogers, MD, MPH, Palo Alto, CA
C.S. Calfee, MD, San Francisco, CA
M.B. Fessler, MD, Research Triangle Park, NC
J.J. Reilly, MD, Aurora, CO

BASIC • CLINICAL • TRANSLATIONAL

ATS KEYNOTE SERIES

CME Credits Available: .75

The Keynote Series provides state of the art lectures on selected topics in an unopposed format to showcase major discoveries in pulmonary, critical care and sleep medicine. The speakers have been chosen by input from the members and various ATS committees with consensus built via the ATS executive committee.

K5 CHANGING FACE OF AN OLD ENEMY: NEW INSIGHTS INTO THE PATHOGENESIS AND MANAGEMENT OF DRUG-RESISTANT TB

8:15 a.m. - 9:00 a.m. WALTER E. WASHINGTON CONVENTION CENTER
East Salon A-C (South Building, Street Level)

Speaker: K.U.J. Dheda, MD, PhD, Cape Town, South Africa
This session will be chaired by J. Mandel, MD, La Jolla, CA

K6 LUNG CANCER TRIALS IN THE AGE OF PRECISION MEDICINE

8:15 a.m. - 9:00 a.m. WALTER E. WASHINGTON CONVENTION CENTER
West Salon G-I (South Building, Street Level)

Speaker: E. Vokes, MD, Chicago, IL
This session will be chaired by P.E. Parsons, MD, Burlington, VT



CLINICAL

YEAR IN REVIEW

CME Credits Available: 2

MOC Points Available: 2

Nursing Contact Hours Available: 2.4

C1 CLINICAL YEAR IN REVIEW 3**9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER****Hall E (Middle Building, Level 2)****Target Audience**

Providers including physicians; registered nurses; advanced practice nurses; respiratory therapists; physician assistants; trainees including residents and fellows; clinical researchers

Objectives

At the conclusion of this session, the participant will be able to:

- apply new clinical research knowledge to clinical practice;
- describe new strategies for managing the care of common conditions in pulmonary, critical care, and sleep;
- apply new findings regarding key conditions in pulmonary, critical care and sleep.

The annual Clinical Year in Review symposia topics are reviews of key clinical research publications over the last year. Each speaker is asked to review the 5-7 most important and influential publications on their topic in the prior year.

Chairing: D.J. Lederer, MD, MS, New York, NY
D.W. Ford, MD, MSCR, Charleston, SC
V.E. Ortega, MD, PhD, Winston-Salem, NC

9:15 Tuberculosis and Nontuberculous Mycobacteria
C.L. Daley, MD, Denver, CO

9:45 The Host Microbiome in Lung Disease
Y.J. Huang, MD, Ann Arbor, MI

10:15 Bronchiectasis
J.D. Chalmers, MD, PhD, Dundee, United Kingdom

10:45 Lung Transplantation
L.G. Singer, MD, Toronto, Canada

This session and the International Conference are supported by an educational grant from Insmid Incorporated.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

CLINICAL • TRANSLATIONAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

C2 PRACTICE CHANGING CLINICAL TRIALS IN PLEURAL DISEASES: IMPACT ON DAY-TO-DAY CARE

Assemblies on Clinical Problems; Critical Care

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER**Ballroom A (South Building, Level 3)****Target Audience**

Clinicians and allied health professionals with clinical and research responsibilities in respiratory diseases; especially chest physicians, interventional pulmonologists, medical oncologists, respiratory nurses, thoracic surgeons, internists, general physicians and junior staff; scientists engaged in translational respiratory research

Objectives

At the conclusion of this session, the participant will be able to:

- review the latest clinical trial evidence on best management of malignant pleural effusions, especially regarding the use of indwelling pleural catheters vs pleurodesis as well as future directions in the field;
- understand and review the latest clinical trial evidence on best management of pleural infection, especially intrapleural therapy with tPA DNase, and the ongoing work on their best delivery regimes;
- review the latest research finding in mesothelioma and how it should influence clinical care.

The last five years, but particularly in the past 24 months, we have seen a significant number of multicentered clinical trials completed in pleural diseases. Their results have direct and immediate impact on day-to-day clinical practice of pleural disease management. Most of these studies have been published in high impact journals: including trials on malignant effusions, e.g. the Therapeutic Intervention in Malignant Effusion (TIME)-1 and -2 trials (both in JAMA), on mesothelioma including the SMART trial (in Lancet Oncology), the MAPPs and Meso-VATS trials (both in Lancet), and on pleural infection e.g. the Multicentre Intrapleural Sepsis Trial (MIST)-2 (in NEJM), and on pneumothorax, e.g. the minocycline trial (in Lancet). Several large trials including the Australasian Malignant Pleural Effusion (AMPLE)-1, ASAP and MIST-3 have just been completed. The proposed session will summarize the key findings of the latest studies and ongoing ones.

Chairing: V.C. Broadus, MD, San Francisco, CA
Y.C.G. Lee, MBChB, PhD, Perth, Australia

9:15 Breathlessness with Pleural Effusion: Latest Results on Why and How to Measure
E. Mishra, MRCP, DPhil, Norwich, United Kingdom

9:30 Practice Changing Clinical Trials in Malignant Pleural Effusions
Y.C.G. Lee, MBChB, PhD, Perth, Australia

9:55 Practice Changing Clinical Trials in Pleural Infection
N.M. Rahman, MD, PhD, Oxford, United Kingdom

10:20 Practice Changing Clinical Trials in Malignant Mesothelioma
D.H. Sterman, MD, New York, NY

10:45 Practice Changing Clinical Trials in Pneumothorax
N.A. Maskell, MD, Bristol, United Kingdom

11:00 Novel Intervention and Imaging Impacting on Pleural Management
D.J. Feller-Kopman, MD, Baltimore, MD

There will be a 5-minute discussion after each talk.



CLINICAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

MOC Points Available: 2

Nursing Contact Hours Available: 2.4

C3 OBESITY AND LUNG DISEASE

Assemblies on Clinical Problems; Behavioral Science and Health Services Research; Environmental, Occupational and Population Health

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER
Ballroom C (South Building, Level 3)

Target Audience

Providers of lung health; registered nurses; advanced practice nurses

Objectives

At the conclusion of this session, the participant will be able to:

- describe new strategies for managing the care of individuals with an overlap of lung disease and obesity;
- integrate newly acquired knowledge into clinical practice by personalizing management of obese individuals with pulmonary diseases;
- improve patient related outcomes by delivering personalized healthcare.

Obesity is known to negatively affect the lung function. In some pulmonary disorders (COPD) obesity has been viewed in the past to offer a protective role in survival. Nevertheless, the prevalence of obesity has increased alarmingly in the past years changing epidemiology and significant body of research strongly suggests negative impact of obesity on the lung health. In addition obesity is a risk factor for many chronic diseases and will advance comorbidities for pulmonary disorders leading to worse outcomes. Current guidelines lack tailored approach to obese individuals with pulmonary disorders. Nevertheless, experts in the field believe that personalized management is needed for these individuals.

Chairing: T. Beiko, MD, Charleston, SC
A.E. Dixon, MD, Burlington, VT

9:15 Impact of Obesity on Pulmonary Mechanics
N. Berend, MD, Sydney, Australia

9:35 Asthma and Obesity
A.E. Dixon, MD, Burlington, VT

9:55 COPD and Obesity
T. Beiko, MD, Charleston, SC

10:15 OSA/Obesity Hypoventilation Syndrome and Obesity
A.R. Schwartz, MD, Baltimore, MD

10:35 Acute Respiratory Distress Syndrome and Obesity
A.J. Goodwin, MD, MSCR, Charleston, SC

10:55 Pulmonary Hypertension and Obesity
A.R. Hemnes, MD, Nashville, TN

There will be a 5-minute discussion after each talk.

This session and the International Conference are supported by an educational grant from Teva Pharmaceuticals

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

CLINICAL

CRITICAL CARE TRACK

CME Credits Available: 2

MOC Points Available: 2

Nursing Contact Hours Available: 2.4

C4 A STITCH IN TIME: CONTROVERSIES IN CRITICAL CARE BEST PRACTICES AND THEIR EFFECT ON PATIENT CENTERED OUTCOMES

Assemblies on Critical Care; Behavioral Science and Health Services Research

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 146 A-B (Middle Building, Street Level)

Target Audience

Critical care clinical researchers, clinicians and trainees, registered nurses, advanced practice nurses

Objectives

At the conclusion of this session, the participant will be able to:

- discuss the impact of commonly-used ICU therapies on survivorship;
- apply common ICU therapies (intravenous fluids, neuromuscular blockade, early mobilization) to optimize patient function after critical illness;
- describe new strategies for addressing long-term survivorship after critical illness.

The session will review the impact of three controversial intensive care unit therapies (intravenous fluids, neuromuscular blockade and early mobilization) on patient centered outcomes. The session will follow a pro-con format led by experts in these three therapies. Speakers will review the pertinent literature in support of their position and identify research gaps in our knowledge of long-term effects of ICU therapies. After the pro and con positions are presented, there will be discussion time allotted for debate between the speakers and with the audience members.

Chairing: C.L. Hough, MD, Seattle, WA
R.N. Bakhru, MD, Winston-Salem, NC
W.D. Schweickert, MD, Philadelphia, PA

9:15 PRO: Don't Hold Back Those Fluids Just Because Your New Gadget Says So
M.W. Sjoding, MD, Ann Arbor, MI

9:30 CON: Wading in the Ocean: It's Time to Stop Salt-Loading Our Patients
K. Mitchell, MD, Seattle, WA

9:45 Panel Discussion

9:55 PRO: Just a Little Neuromuscular Blockade Helps the Medicine Go Down
D.C. Files, MD, Winston-Salem, NC

10:10 CON: Muscles Can No Longer Be Collateral Damage
M.S. Herridge, MD, MPH, Toronto, Canada

10:25 Panel Discussion

10:35 CON: Moving the Unmovable
M. Moss, MD, Aurora, CO



10:50 PRO: It's Time to Get Our Patients Moving!
W.D. Schweickert, MD, Philadelphia, PA

11:05 Panel Discussion

BASIC • TRANSLATIONAL

BASIC SCIENCE CORE

CME Credits Available: 2

C5 EARLY LIFE ENVIRONMENTAL PROGRAMMING OF CHRONIC LUNG DISEASE

Assemblies on Allergy, Immunology and Inflammation; Environmental, Occupational and Population Health; Microbiology, Tuberculosis and Pulmonary Infections; Pediatrics; Respiratory Cell and Molecular Biology; Respiratory Structure and Function

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS WASHINGTON

Independence Ballroom E-H (Level M4)

Target Audience

Basic scientists, physician scientists and clinicians interested in learning about environmental factors that may affect peri- and postnatal development of immunity and lung function, ultimately predisposing pediatric populations to the development of chronic adult disease.

Objectives

At the conclusion of this session, the participant will be able to:

- describe what is currently known about normal immune and lung development during early life;
- gain an understanding of why early childhood is a window of susceptibility to environmental exposures;
- consider novel strategies to prevent or limit the detrimental respiratory/immune effects of environmental exposures.

There is growing evidence to suggest that chronic lung disease in adults originate from events that take place during peri- or post-natal development. This session will communicate recent advances in our understanding of how early life environmental exposures (air pollutants, microbes, viruses) contribute to the development of chronic lung disease in children and adults. Leading experts will discuss the distinct responses of pediatric populations to environmental exposures using experimental animal models and human studies, with an emphasis on parameters of immunity and lung function.

Chairing: L.A. Miller, PhD, Davis, CA
I.P. Lewkowich, PhD, Cincinnati, OH

9:15 The Intersection of the Environment and the Development of Asthma
S.A. Cormier, PhD, Memphis, TN

9:35 Maternal Asthma, Air Pollutant Exposures and Neonatal Health
P. Mendola, PhD, Bethesda, MD

9:55 Influence of Age and Environment on Innate Immune Function
L.A. Miller, PhD, Davis, CA

10:15 Developmental Differences in the Response to Rhinovirus Infection
M.B. Hershenson, MD, Ann Arbor, MI

10:35 The Early Life Microbial Environment and Asthma
E. von Mutius, MD, MS, Munich, Germany

10:55 Impact of Environmental Pollutants on T Cell Populations
K.C. Nadeau, MD, PhD, Stanford, CA

There will be a 5-minute discussion after each talk.

BEHAVIORAL • CLINICAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

C6 REDUCING READMISSIONS FOR COPD: STRATEGIES, ISSUES AND RESULTS

Assemblies on Behavioral Science and Health Services Research; Clinical Problems; Nursing; Pulmonary Rehabilitation

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 146 C (Middle Building, Street Level)

Target Audience

Multi-disciplinary providers interested in improving care for patients with COPD. Registered nurses, advanced practice nurses, respiratory therapists, pharmacists, physicians, psychologists, clinicians and researchers interested in quality improvement and implementation science. Hospital administrators; those interested in learning about emerging evidence of effective strategies to reduce re-hospitalization for patients with COPD

Objectives

At the conclusion of this session, the participant will be able to:

- identify social determinants of health that place patients at risk for readmission after hospitalization for AECOPD;
- describe interventions that can be implemented in clinical practice to improve quality of care for patient with COPD, with a goal of reducing readmissions;
- identify limitations of common quality improvement designs and discuss newer designs that allow for valid inferences from these initiatives.

Hospitals are being penalized for excessive COPD readmission. During the 2016 conference, BSHSR sponsored a workshop to bring together experts in COPD to present their current approaches to reduce COPD readmission. We will review lessons learned from the workshop, including:

- 1) Effects of social determinants of health on readmission and the role of patient navigators to overcome disparities;
- 2) Issues of when and how to deliver scarce interventions, using pulmonary rehab as the model;
- 3) Important considerations when entering value-based partnerships with health care payers; and
- 4) Innovative mechanisms to overcome traditional silos of care delivery, including inter-professional teams and telehealth technologies.

Chairing: L.C. Feemster, MD, MSc, Seattle, WA
D.H. Au, MD, MS, Seattle, WA
V.G. Press, MD, MPH, Chicago, IL



- 9:15 COPD Readmission and Social Determinants of Health: What Are They, Can I Do Anything About Them?**
A.S. Gershon, MD, MSc, Toronto, Canada
- 9:35 Improving Care Delivery by Partnering with Patient Navigators and Peer Advocates**
M. Joo, MD, MPH, Chicago, IL
- 9:55 Pulmonary Rehabilitation: When and Where?**
J. Bourbeau, MD, Montreal, Canada
- 10:15 A Value-Based CMS Reimbursement Demonstration Project to Reduce COPD Readmissions**
Surya P. Bhatt, MD, Birmingham, AL
- 10:35 A Program and Policy Level Analysis of an Inter-Professional COPD Readmissions Reduction Program**
V.G. Press, MD, MPH, Chicago, IL
- 10:55 Health Systems Approach to Engagement and Learning**
D.H. Au, MD, MS, Seattle, WA

There will be a 5-minute discussion after each talk.

This session and the International Conference are supported by an educational grant from AstraZeneca LP.

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BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

C7 EVOLUTION AND IMPACT OF THE MICROBIOME IN PEDIATRIC INFLAMMATORY AIRWAY DISEASES

Assemblies on Pediatrics; Respiratory Cell and Molecular Biology

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Ballroom B (South Building, Level 3)

Target Audience

Pediatric pulmonologists, basic and translational scientists investigating the airway microbiome and its impact on the origins of lung diseases

Objectives

At the conclusion of this session, the participant will be able to:

- learn new findings about the influence of the microbiome on the development of pediatric inflammatory airway diseases;
- understand and learn new findings about the relationship of microbiome profiles and diversity to disease severity in pediatric inflammatory airway diseases;
- identify future areas of research that are needed to describe how the microbiome profile in pediatric inflammatory airway diseases might be altered to decrease the risk of disease onset or disease progression.

The airway microbiome affects the development and severity of many pediatric inflammatory airway conditions, including chronic lung disease of prematurity, asthma, cystic fibrosis, and chronic otitis media with effusion. The cross-talk between the microbiota in various locations within the airway, as well as microbiota within the intestines, also has an impact on overall pulmonary health and immunity. This session, encompassing a diverse mix of national and international experts, will focus

on both local and systemic effects of the microbiome in the upper and lower airways, temporal changes, and modulation of lung health via the gastrointestinal microbiome.

Chairing: J. LiPuma, MD, Ann Arbor, MI
R.J. Freishtat, MD, MPH, Washington, DC
A. Hahn, MD, Washington, DC

- 9:15 The Role of the Microbiome in Chronic Lung Disease of Prematurity**
S. Kotecha, PhD, Cardiff, United Kingdom
- 9:30 Impact of the Microbiome on Risk of Asthma Development**
C. Rosas-Salazar, MD, MPH, Nashville, TN
- 9:45 Evolution of the Airway Microbiome in Infants with Cystic Fibrosis (CF)**
E. Zemanick, MD, Aurora, CO
- 10:00 The Short-Term Dynamics of the Tracheal Microbiome in Tracheostomized Patients with Lower Respiratory Infections**
M. Perez-Losada, PhD, Ashburn, VA
- 10:15 The Microbiome of Chronic Otitis Media with Effusion (OME)**
D. Preciado, MD, PhD, Washington, DC
- 10:30 The Gut-Lung Axis: How the Intestinal Microbiome Impacts the Developing Lung and Lung Disease**
N. Ubags, PhD, Epalinges, Switzerland

This session and the International Conference are supported by educational grants from Teva Pharmaceuticals, Vertex Pharmaceuticals, Inc.

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BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

C8 PRECISION MEDICINE IN PULMONARY VASCULAR DISEASES: ARE WE READY FOR THE FUTURE?

Assemblies on Pulmonary Circulation; Behavioral Science and Health Services Research; Clinical Problems; Environmental, Occupational and Population Health; Respiratory Cell and Molecular Biology

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS WASHINGTON

Liberty Ballroom I-L (Level M4)

Target Audience

Medical professionals who specialize in caring for patients with pulmonary vascular disorders; research scientists interested in pulmonary vascular biology; translational scientists; industry professionals; graduates and postgraduates students interested in pulmonary vascular biology

Objectives

At the conclusion of this session, the participant will be able to:

- understand how precision medicine can improve clinical management of pulmonary vascular disorders;
- learn new findings about genomic, proteomic and metabolic techniques and their implementation into precision medicine for pulmonary vascular diseases;
- introduce the concept of pharmacogenomics and how it can help design new treatment strategies for patients.



Precision medicine is an approach that takes into account individual variability in genes, environment, and lifestyle to identify clinical phenotypes that would benefit from targeted and highly effective therapies. Given the growing advances in our understanding of the pathobiology and management of pulmonary vascular disorders such as pulmonary arterial hypertension (PAH), pulmonary embolism (PE) and chronic thromboembolic pulmonary hypertension (CTEPH), the time is ripe to discuss how a precision medicine strategy could help facilitate the translation of scientific discoveries into clinical tools that can help improve our capacity to properly identify the optimal treatment strategy for these patients.

Chairing: C.E. Ventetuolo, MD, MS, Providence, RI
M. Wilkins, MD, London, United Kingdom
R.T. Zamanian, MD, Stanford, CA

9:15 A Patient's Perspective

K.A. Lewis, Round Hill, VA

9:20 Precision Medicine: A Novel Paradigm to Improve Our Understanding and Management of Pulmonary Vascular Disorders

V. De Jesus Perez, MD, Stanford, CA

9:35 Genetics for Pulmonary Vascular Disorders: A Blueprint for Action

E. Austin, MD, Nashville, TN

9:55 Proteomics and Risk Stratification for Pulmonary Vascular Diseases: Role of Precision Medicine

R.T. Zamanian, MD, Stanford, CA

10:15 Capturing the Clinical Heterogeneity of Pulmonary Vascular Diseases with Metabolomics

M. de Perrot, MD, MSc, Toronto, Canada

10:35 Pharmacogenomics for Pulmonary Vascular Diseases: Role in Drug Discovery

M. Wilkins, MD, London, United Kingdom

10:55 Role of a Comprehensive Electronic Medical Record in Precision Medicine: What Is Needed

E. Brittain, MD, Nashville, TN

This session and the International Conference are supported by an educational grant from Actelion Pharmaceuticals US, Inc.

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BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

C9 MITOCHONDRIA BIOGENESIS AND DYSFUNCTION IN PULMONARY DISEASES

Assemblies on Respiratory Cell and Molecular Biology; Allergy, Immunology and Inflammation; Environmental, Occupational and Population Health; Pulmonary Circulation; Respiratory Structure and Function

9:15 a.m. - 11:15 a.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 5 (Level M2)

Target Audience

Basic and translational scientists working lung diseases. Lung health researchers, students, fellows, residents with clinical and research backgrounds

Objectives

At the conclusion of this session, the participant will be able to:

- learn about signaling and pathways for mitochondrial biogenesis and dysfunction in pulmonary health consequences;
- understand and learn the current research findings on mitochondrial dysfunctions in various pulmonary diseases and current/future thoughts/hypotheses on mitochondrial research;
- gain strategies for targeting mitochondrial dysfunction using various therapeutic approaches in clinical settings and animal models of pulmonary diseases based on stem cell transfer of mitochondria or activation of mitochondrial biogenesis, and/or removal of damaged/impaired mitochondria by selected/targeted approaches based on signaling pathways.

Emerging evidence sheds light on new mitochondrial functions that are not related to cellular energy production, which involve mitophagy (removal of damaged/impaired mitochondria from a cell prior to cell death) and mitochondrial protein quality control in aging. Mitochondrial function is associated with fission, fusion, and mitophagy in health and disease. The goal of this symposium is to highlight the recent advances of mitochondria research in lung cell biology, particularly in mitochondria biogenesis, dysfunctional mitophagy, redox changes, metabolism, pulmonary infections, cell signaling, and repair or rejuvenation of the damaged mitochondria upon stress in the interdisciplinary areas of pulmonary diseases (acute lung injury, pulmonary hypertension, idiopathic pulmonary fibrosis/interstitial lung diseases, and COPD).

Chairing: I. Rahman, PhD, Rochester, NY
P.J. Lee, MD, New Haven, CT
S. Meiners, PhD, Munich, Germany
M. Goldklang, MD, New York, NY

9:15 Mitochondria Dysfunction and Biogenesis in Lung Disease

A.M.K. Choi, MD, New York, NY

9:35 Mitochondrial Metabolism and Cellular Redox Signaling

N.S. Chandel, PhD, Chicago, IL

9:55 Mitochondrial Dysfunction by Pulmonary Infection

C. Piantadosi, MD, Durham, NC

10:15 Mitochondria-Nuclear Signaling and Mitosenescence in Airway Diseases and During Exacerbations

I. Rahman, PhD, Rochester, NY

10:35 Mitochondrial Biogenesis, Dysfunction, and Signaling in Pulmonary Fibrosis

A.L. Mora, MD, Pittsburgh, PA

10:55 The Role of Mitochondria in Pulmonary Vascular Remodeling

E.D. Michelakis, MD, PhD, Edmonton, Canada

There will be a 5-minute discussion after each talk.



TRANSLATIONAL

NICHOLAS A. ANTIC MEMORIAL SYMPOSIUM

CME Credits Available: 2

MOC Points Available: 2

C10 POSITIVE PRESSURE + NEGATIVE ADHERENCE = HIGH PRIORITY FOR SLEEP MEDICINE

Assemblies on Sleep and Respiratory Neurobiology; Behavioral Science and Health Services Research

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 152 A-B (Middle Building, Street Level)

Target Audience

Clinical providers of any discipline, including nurses, and psychologists, as well as clinical sleep researchers

Objectives

At the conclusion of this session, the participant will be able to:

- understand the implications of poor PAP adherence as an issue that affects not just individual patient care, but also the planning and interpretation of important large-scale randomized trials in the field of SDB;
- learn and understand how technological, behavioral, and/or peer-driven approaches to maximize adherence may be incorporated into routine care, and planned research studies;
- understand how routinely collected PAP adherence metrics may be incorporated into big data analytics, and how this approach may impact policies regarding minimum PAP adherence thresholds currently in place in clinical practice.

This session will provide a context for why the issue of poor PAP adherence is a major challenge facing the sleep field. Speakers will discuss the impact that poor PAP adherence has on our ability to perform robust clinical trials, as well as various interventions designed to promote PAP adherence including behavioral therapies, technological approaches, and peer support. Finally, we will discuss the opportunities our field has in being at the forefront of adherence-behavior research by using objective adherence metrics gathered via remote monitoring in big data analyses.

Chairing: J. Bakker, PhD, Boston, MA
S. Parthasarathy, MD, Tucson, AZ
T. Weaver, PhD, RN, Chicago, IL

- 9:15 PAP Adherence: Reflections from a PAP User**
A. Flipse, Adelphi, MD
- 9:20 Pivotal Trials and PAP Adherence: How to Mend the Achilles Heel?**
S. Kuna, MD, Philadelphia, PA
- 9:40 Disparities in PAP Adherence: Can We Close the Gap?**
S. Parthasarathy, MD, Tucson, AZ
- 9:59 CBT for Promoting PAP Adherence: The Awakening!**
C. Stepnowsky, PhD, La Jolla, CA
- 10:18 Peer Support for CPAP Adherence: Step Right Up!**
J. Bakker, PhD, Boston, MA
- 10:37 Technology Promotes PAP Adherence: Paging Dr. Watson, IBM**
D. Hwang, MD, Fontana, CA
- 10:56 Adherence Tracking and Informatics: Big Data, Big Plans**
R.J. Schwab, MD, Philadelphia, PA

There will be a 5-minute discussion after each talk.

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

C11 POLLUTION EFFECTS ON THE EPIGENOME IN THE DEVELOPMENT OF CHRONIC LUNG DISEASE

Assemblies on Respiratory Cell and Molecular Biology; Allergy, Immunology and Inflammation; Environmental, Occupational and Population Health; Respiratory Structure and Function

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 147 A-B (Middle Building, Street Level)

Target Audience

Clinicians, basic scientists, environmental health scientists, public health policy makers

Objectives

At the conclusion of this session, the participant will be able to:

- understand how exposure to ambient air pollution alters individuals' epigenomic profile;
- identify mechanisms by which pollution alters the epigenetic profile in different cell types within the lung;
- understand how epigenomic changes that occur in the setting of pollution contribute to the development of chronic lung disease including asthma, COPD, and pulmonary hypertension.

Air pollution is a global health problem estimated to contribute to 6.5 million deaths annually. It is a major risk factor for a number of lung diseases, but the pathogenic mechanisms by which this occurs are not completely understood. Epigenetic modifications, which are heritable changes to DNA and chromatin that do not affect the DNA code itself, are recognized as critical to the development of many diseases and are susceptible to environmental exposures.

In this session, we will hear from junior and senior faculty members who are leaders in the field the current knowledge of how pollution induces epigenetic changes that may contribute to the development of asthma, COPD, and pulmonary hypertension.

Chairing: S.K. Huang, MD, Ann Arbor, MI
Z. Borok, MD, Los Angeles, CA
I. Yang, PhD, Aurora, CO

- 9:15 Epigenomic Effects of Environmental Exposures**
D. Dolinoy, PhD, Ann Arbor, MI
- 9:35 Effect of Pollution on the Epigenetic Profile of T Cells in Asthma**
K.C. Nadeau, MD, PhD, Stanford, CA
- 9:55 Effect of Traffic Pollution on Epigenomic Changes in Bronchial Epithelium**
C. Carlsten, MD, MPH, Vancouver, Canada
- 10:15 Circulating Extracellular Vesicles: Novel Mediators of Environmental Effects on the Lung**
A. Baccarelli, PhD, New York, NY
- 10:35 Role of Epigenetic Changes in the Pathogenesis of Pulmonary Hypertension**
K.R. Stenmark, MD, Aurora, CO



10:55 Smoke Signaling in Epigenetic Chromatin Modifications in COPD

I.K. Sundar, PhD, Rochester, NY

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CLINICAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

C12 PHYSICIAN PAYMENT IN THE UNITED STATES: PAST, PRESENT AND FUTURE OR WHAT IS MACRA (MEDICARE ACCESS AND CHIP REAUTHORIZATION ACT OF 2015)

Clinical Practice Committee; Assembly on Clinical Problems; Environmental, Occupational and Population Health

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 102 A-B (South Building, Street Level)

Target Audience

U.S. based practicing clinicians who will be faced with implementing MACRA, the new quality based physician payment system

Objectives

At the conclusion of this session, the participant will be able to:

- learn about the new CMS Quality Payment Program;
- prepare provider practice for MACRA;
- understand the quality measures required for MACRA.

This session will introduce the participants to CMS's new quality based physician reimbursement model that is designed to replace the current fee-for-service model. This new complex approach will effect all practicing physicians in the U.S. over the next 3 years.

Chairing: S. Hoffmann, MD, Morgantown, WV
K. Nicolacakis, MD, Cleveland, OH

9:15 Introduction

S. Hoffmann, MD, Morgantown, WV

9:25 CMS Update on MACRA

K. Bryant, JD, Baltimore, MD

10:00 Tips for MIPS (The Merit-Based Incentive Payment System)

O. Hussain, DO, Melrose Park, IL

10:15 APMs (Advanced Alternative Payment Models) or Who's Ready for Prime Time?

K. Nicolacakis, MD, Cleveland, OH

10:30 MIPS or APMs: What Is Right for You?

S. Hoffmann, MD, Morgantown, WV

10:40 Big System Vs. Little Practice: What You Need to Know

R.M. Hamrick, MD, Richmond, VA

10:55 Preparation and Questions and Answers: Apocalypse or Not

K.L. Kovitz, MD, MBA, Elk Grove Village, IL

MINI SYMPOSIUM

C13 TRANSLATIONAL RESEARCH IN ASTHMA

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 204 A-C (South Building, Level 2)

Chairing: S.E. Wenzel, MD, Pittsburgh, PA
T.S. Hallstrand, MD, MPH, Seattle, WA
L.E. Crotty Alexander, MD, San Diego, CA

Oral Presentations

9:15 Longitudinal RNA Sequencing Data of Induced Sputum in Asthma Patients Reveals Stable Transcriptional Endotypes of Asthma Associated with Asthma Severity/X. Yan, Q. Liu, J.V. Gomez, C. Holm, L. Cohn, G. Chupp, New Haven, CT, p.A4908

9:30 Vitamin D Modulation of α 1-Antitrypsin in Human Airways and T Lymphocytes/C.M. Hawrylowicz, H. Chen, L. Rice, S. Dimeloe, A. Gupta, C. Kemper, B. Gooptu, London, United Kingdom, p.A4909

9:45 Asthma Development in Early Childhood Is Associated with Enhancer Reprogramming/S. Trump, M. Klos, L. Gu, T. Bauer, N. Ishaque, L. Thurmann, M. Bieg, M. Bauer, Z. Gu, M. Borte, J.-P. Mallm, S. Roder, C. Herrmann, K. Rippe, I. Lehmann, R. Eils, Leipzig, Germany, p.A4910

10:00 Characterization of "Th2 Low" Asthmatic Endotype/S.L. O'Beirne, J. Salit, M.R. Staudt, R.J. Kaner, H. Hilton, S. Sridhar, H. Bitter, S. Pillai, C. Stevenson, S. Visvanathan, G. Wolff, J. Fine, R.G. Crystal, New York, NY, p.A4911

10:15 Using Paired eQTL Fine Mapping and CRISPR-Cas9 Gene Editing to Determine the Causal Variants at the IL1RL1 Asthma GWAS Locus/E.D. Gordon, A. Wesolowska-Andersen, L.Z. Sharp, M.A. Seibold, L. Ringel, San Francisco, CA, p.A4912

10:30 Elevated Levels of Soluble Human Leukocyte Antigen-G (sHLA-G) in the Airways Is a Marker for a Low-Inflammatory Endotype of Asthma/S.R. White, J. Nicodemus-Johnson, B. Laxman, D.R. Denner, E.T. Naureckas, K. Hogarth, R. Stern, A. Minc, J. Solway, A.I. Sperling, C. Ober, Chicago, IL, p.A4913

10:45 Long-Term Asthma Remission: Predicting Future Asthma Remission Using a miRNA Network/M. McGeachie, J.S. Davis, A.T. Kho, A. Dahlin, J.E. Sordillo, M. Sun, Q. Lu, S. Weiss, K. Tantisira, Boston, MA, p.A4914

11:00 Role of Airway ILC2 and ILC3 Compared to Th2 and Th17 Cells in Paediatric Severe Therapy Resistant Asthma (STRA)/P. Nagakumar, L. Artusio, V. Fainardi, L. Fleming, A. Bush, C.M. Lloyd, S. Saglani, London, United Kingdom, p.A4915



MINI SYMPOSIUM

C14 INTERSTITIAL LUNG DISEASE: ADVANCES ACROSS THE FIELD

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 145 A-B (Middle Building, Street Level)

Chairing: V. Cottin, MD, PhD, Lyon, France
K.B. Highland, MD, Cleveland, OH
M. Salisbury, MD, Ann Arbor, MI

Oral Presentations

- 9:15 Baseline Mobility Characteristics of a Cohort of Patients with Pulmonary Fibrosis (PF)/B.** Graney, E.D. Root, S. Baird, T. Churney, K. Fier, M. Korn, M. McCormick, D. Sprunger, T. Vierzba, F.S. Wamboldt, J.J. Swigris, Denver, CO, p.A4916
- 9:30 The MUC5B Promoter Polymorphism Is Associated with Specific Interstitial Lung Abnormality Subtypes Across Populations/R.** Putman, G. Gudmundsson, T. Araki, M. Nishino, S. Sigurdsson, E. Gudmundsson, G. Eiriksdottir, T. Aspelund, J. Ross, R. San Jose Estepar, E.R. Miller, Y. Yamada, M. Yanagawa, N. Tomiyama, L. Launer, T. Harris, S. El-Chemaly, B.A. Raby, M.H. Cho, I. Rosas, G. Washko, D. Schwartz, E. Silverman, H. Hatabu, G. Hunninghake, Boston, MA, p.A4917
- 9:45 Agreement Between Pulmonologists for the Diagnosis of Interstitial Lung Disease: A Study of 275 Pulmonologists from 54 Countries/S.L.F.** Walsh, D. Hansell, K.R. Flaherty, M. Wilsher, R. Nusser, V. Poletti, F.J. Martinez, E. Bendstrup, K.K. Brown, H. Taniguchi, Y. Kondoh, B. Crestani, V. Cottin, D. Valeyre, H. Nunes, J.C. Grutters, L. Richeldi, T.M. Maher, C. Vancheri, M. Kokosi, C.J. Ryerson, K.A. Johansson, B.J. Ley, E.P. Judge, G. Margaritopoulos, M. Kreuter, J. Behr, A. Morais, M. Wijsenbeek, T.J. Corte, I. Glaspole, P. Spagnolo, S. Tomassetti, M. Molina-Molina, M. Selman, V. Kouranos, W.A. Wuyts, M. Jones, A.U. Wells, London, United Kingdom, p.A4918
- 10:00 Clinical Associations of Objectively Identified Interstitial Changes in Smokers/S.Y.** Ash, R. Harmouche, J. Ross, A.A. Diaz, G.M. Hunninghake, R.K. Putman, J. Onieva Onieva, F.J. Martinez, A.M.K. Choi, D.A. Lynch, H. Hatabu, I. Rosas, R. San Jose Estepar, G.R. Washko, Boston, MA, p.A4919
- 10:15 Body Mass Index-Percent Forced Vital Capacity-Respiratory Hospitalization: New Staging for Idiopathic Pulmonary Fibrosis Patients/T.** Kishaba, H. Nagano, Y. Nei, S. Yamashiro, Okinawa, Japan, p.A4920
- 10:30 Impact of Race on Sarcoidosis Phenotypes/L.L.** Koth, K. Gibson, G. Balasubramani, N.Y. Hamzeh, E.L. Herzog, D.R. Moller, K.C. Patterson, W.P. Drake, San Francisco, CA, p.A4921
- 10:45 Biomarkers of Extracellular Matrix Remodeling Are Associated with Acute Exacerbations of Idiopathic Interstitial Pneumonia/J.M.B.** Sand, Y. Tanino, T. Nikaido, K. Misa, Y. Sato, R. Togawa, X. Wang, D.J. Leeming, M. Munakata, Herlev, Denmark, p.A4922
- 11:00 Genome-Wide Association Study of Survival in Patients with Idiopathic Pulmonary Fibrosis/J.M.** Oldham, R. Allen, J.M. Lorenzo-Salazar, S.F. Ma, Y. Huang, Y. Zhang, N. Kaminski, M. Seldin, M.D. Tobin, C. Flores, L.V. Wain, R.G. Jenkins, I. Noth, Sacramento, CA, p.A7649

MINI SYMPOSIUM

C15 WHEN MICROBES ATTACK: HOST-PATHOGEN INTERACTIONS

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 143 A-C (Middle Building, Street Level)

Chairing: S.E. Evans, MD, Houston, TX
H. Koziel, MD, Boston, MA
A.E. Samarasinghe, PhD, Memphis, TN

Oral Presentations

- 9:15 Targeting Host ER Stress Pathway Is a Novel Therapeutic Strategy Against Influenza/A.R.** Ashtekar, R.K. Srivastava, M. Athar, K.S. Harrod, Birmingham, AL, p.A4923
- 9:30 Protection Against Viral Pneumonia Following Inhalation of Synergistic TLR Agonists Is Not Mediated by Induction of Type I Interferons/S.** Wali, Y. Wang, M.M. Leiva-Juarez, V.V. Kulkarni, S. Bhupanapadu Sunkesula, S. Batres, D.L. Goldblatt, J. Flores, M.J. Tuvim, S.E. Evans, Houston, TX, p.A4924
- 9:45 Methicillin-Resistant Staphylococcus Aureus Exploits NLRC4 Inflammasome to Dampen Pulmonary Host Defenses/S.** Paudel, L. Ghimire, S. Cai, L. Jin, S. Jeyaseelan, Baton Rouge, LA, p.A4925
- 10:00 Interleukin-13 Predisposes to More Severe Influenza Infection in Mice and Human Epithelial Cells by Suppressing Interferon Responses and Activating the MicroRNA-21/PI3K Signaling Pathway/M.R.** Starkey, K. Dua, A.C.-Y. Hsu, P.M. Nair, T.J. Haw, D.H. Nguyen, R.Y. Kim, J.C. Horvat, D.I. Godfrey, A. McKenzie, N.W. Lukacs, P.A. Wark, P.M. Hansbro, New Lambton Heights, Australia, p.A4926
- 10:15 Influenza A Virus Relocalizes Na,K-ATPase In Vitro and In Vivo to Support Its Replication - Impact on Lung Injury and Alveolar Edema Clearance/C.** Peteranderl, E. Lecuona, I. Kuznetsova, T. Wolff, R. Morty, J. Lohmeyer, W. Seeger, S. Pleschka, G.M. Mutlu, S. Budinger, J.I. Sznajder, S. Herold, Giessen, Germany, p.A4927
- 10:30 Mechanisms of IL-10 Mediated Immune Modulation During Persistent Murine Fungal Lung Infection: Going Beyond the Numbers/S.** Teitz-Tennenbaum, S.P. Viglianti, J.A. Roussey, M.A. Olszewski, J.J. Osterholzer, Ann Arbor, MI, p.A4928
- 10:45 Riboflavin Metabolism Variation Among Clinical Isolates of Streptococcus Pneumoniae Results in Differential Activation of MAIT Cells/M.** Harriff, C. McMurtrey, N. Hartmann, M. Sorensen, J.P. Mizgerd, W. Hildebrand, M. Kronenberg, D.M. Lewinsohn, Portland, OR, p.A4929
- 11:00 Alveolar Macrophages Recruit Neutrophils in a MyD88-Dependent Manner Following Gram-Negative Bacterial Infection/M.** Akbarpour, S.F. Chiu, A. McQuattie-Pimentel, Z. Lu, R. Fernandez, K. Gates, H. Perlman, A.V. Misharin, G.S. Budinger, A. Bharat, Chicago, IL, p.A4930



MINI SYMPOSIUM

C16 BRONCHOPULMONARY DYSPLASIA TURNS 50**9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER****Room 202 A (South Building, Level 2)****Chairing:** L.M. Noguee, MD, Baltimore, MD
A. Hibbs, MD, Cleveland, OH**Oral Presentations**

- 9:15 Sonic Hedgehog Signaling Regulates Alveolarization During Postnatal Lung Development/M.C. Kugler, C.A. Loomis, T.-A. Yie, J.S. Munger, New York, NY, p.A4931**
- 9:30 Smooth Muscle Cells Guide the Branching and Patterning of the Developing Human Lung/S. Danopoulos, D. Warburton, D. Al Alam, Los Angeles, CA, p.A4932**
- 9:45 S52F Point Mutation in the DNA-Binding Domain of FoxF1 Causes ACD/MPV Phenotype and Impairment in STAT3 Signaling/A. Pradhan, V. Ustiyani, C. Bolte, Y. Zhang, A. Porollo, Y.-C. Hu, T.V. Kalin, V.V. Kalinichenko, Cincinnati, OH, p.A4933**
- 10:00 Mesenchymal Stem Cell Exosome Treatment Restores Lung Architecture and Ameliorates Pulmonary Hypertension Associated with Bronchopulmonary Dysplasia/G.R. Willis, A. Fernandez-Gonzalez, S.H. Vitali, X. Liu, S.A. Mitsialis, S. Kourembanas, Boston, MA, p.A4934**
- 10:15 Long-Living Alveolar Macrophages Modulate Severity of Bronchopulmonary Dysplasia and Postnatal Lung Development in Mouse/A.V. Misharin, A. McQuattie-Pimentel, C.-I. Chen, P.A. Reyfman, K.R. Anekalla, J. Taylor, H.J. Cardona, S. Budinger, K. Farrow, K. Mestan, Chicago, IL, p.A4935**
- 10:30 The Effect of Extended Continuous Positive Airway Pressure (CPAP) on Lung Volumes in Stable Premature Infants: A Randomized Controlled Trial/R. Lam, D. Schilling, B. Scottoline, A. Platteau, M. Niederhausen, K.D. MacDonald, C.T. McEvoy, Portland, OR, p.A4936**

Featured Speaker

- 10:45 BPD Turns 50!/E. Motoyama, MD, Pittsburgh, PA,**

MINI SYMPOSIUM

C17 ADVANCES IN PHYSICAL ACTIVITY, PULMONARY REHABILITATION, AND EXERCISE TRAINING**9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS WASHINGTON****Liberty Ballroom M-P (Level M4)**

Mini Symposium

Chairing: L. Nici, MD, Providence, RI
F. Maltais, MD, Quebec, Canada**Oral Presentations**

- 9:15 Associations Among Physical Activity, Muscle Mass Index and Muscle Oxidative Capacity in COPD/A. Adami, M.-L.N. McDonald, G.R. Washko, R. Casaburi, J. Porszasz, R. Cao, H.B. Rossiter, Torrance, CA, p.A4937**
- 9:30 Both Moderate and Severe Exacerbations Accelerate Physical Activity Decline in COPD Patients/H. Demeyer, M. Costilla-Frias, Z. Louvaris, E. Gimeno-Santos, M. Tabberer, N. Ivanoff, R. Rabinovich, N. Karlsson, I. Serra, I. Vogiatzis, T. Troosters, J. Garcia-Aymerich, Barcelona, Spain, p.A4938**
- 9:45 Patterns of Change in Daily Step Count Among COPD Patients Enrolled in a 3-Month Physical Activity Intervention/E.S. Wan, A. Kantorowski, M. Teylan, R. Kadri, C.R. Richardson, E. Garshick, D.R. Gagnon, B. Coull, M.L. Moy, Boston, MA, p.A4939**
- 10:00 Online Versus Face to Face Pulmonary Rehabilitation for Patients with COPD: A Randomised Controlled Trial/T. Wilkinson, S. Bourne, R. DeVos, M. North, A. Chauhan, B. Green, T. Brown, V. Cornelius, Southampton, United Kingdom, p.A4940**
- 10:15 Home-Based Pulmonary Rehabilitation Intervention: Does It Maintain the Benefits Achieved During the Outpatient Program?/Y. De Souza, K. Maynard Da Silva, D. Condesso, B. Figueira, R.R. Alves, C.H. Costa, F. Cortopassi, Rio de Janeiro, Brazil, p.A4941**
- 10:30 Activity Maintenance After Pulmonary Rehabilitation - First Results of an Online Coaching Program/P.K. Saini, R. Priori, C. Barretto, J. Delbressine, L. Genugten, Van, M. Dekker, W. Stut, H. Schonenberg, S. Pitchers, M. Klee, M.A. Spruit, E.F.M. Wouters, Eindhoven, Netherlands, p.A4942**
- 10:45 Small Muscle Mass Exercise Training in Patients with Chronic Obstructive Pulmonary Disease: Evidence of Limited Muscle Plasticity/A. Nelson, J.G. Poole, L. Lawrenson, J. Hoff, P. Wagner, R. Richardson, Salt Lake City, UT, p.A4943**
- 11:00 Increased Mortality in Patients with Severe COPD Associated with High-Intensity Exercise: A Preliminary Cohort Study/L. Schaadt, R. Christensen, L.E. Kristensen, M. Henriksen, Copenhagen, Denmark, p.A4944**

MINI SYMPOSIUM

C18 MECHANISMS OF AIRWAY HYPERRESPONSIVENESS AND REMODELING**9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS WASHINGTON****Marquis Ballroom 6 (Level M2)****Chairing:** T.M. Murphy, MD, Durham, NC
R.A. Panettieri, MD, New Brunswick, NJ**Oral Presentations**

- 9:15 Bronchoconstriction per se Can Promote Airway Smooth Muscle Contraction and Proliferation Through the Effects of Mechanical Compression on Airway Epithelium/B. Lan, J. Mitchel, R. Hirsch, J.P. Butler, J.-A. Park, Boston, MA, p.A4945**



- 9:30** **Acute, Transient Modulation of Airway Smooth Muscle Contractility by Th2 Differentiated T-Cells**/G. Ijpma, L. Kachmar, S. Lee, S. Abd-Ali, O. Matusovsky, V. Gaudreault, E. Fixman, A.-M. Lauzon, Montreal, Canada, p.A4946
- 9:45** **Integrin $\alpha 5 \beta 1$ Is a Novel Target for Airway Hyperresponsiveness in Asthma**/A. Sundaram, C. Chen, A. Khalifeh-Soltani, A. Atakilit, X. Ren, W. Qiu, H. Jo, W. DeGrado, X. Huang, D. Sheppard, San Francisco, CA, p.A4947
- 10:00** **Blocking YKL-40 (Chitinase-Like Protein Chitinase 3) Attenuates IL-13-Induced Airway Hyper-Responsiveness in a Human Precision Cut Lung Slice Model**/C. Koziol-White, V. Nezhgovorova, L. Cohn, G. Chupp, R. Panettieri, New Brunswick, NJ, p.A4948
- 10:15** **Alterations of Arginine Metabolism Are Associated with Peripheral Airways Hyperresponsiveness in a Chronic Mouse Model of Allergic Airways Inflammation**/J.A. Scott, R. Chen, P. Castellanos, C.-W. Chow, H. Grasemann, Toronto, Canada, p.A4949
- 10:30** **Self-Limiting Actions of Glucocorticoids in Regulating Airway Hyperresponsiveness Could Be Due to Its Effects on Increasing CD151 Expression**/S.G.B. Tan, S. An, H. Lam, T. Tran, Singapore, Singapore, p.A4950
- 10:45** **The Effect of Maternal Hypoxia-Induced Intrauterine Growth Restriction and Sexual Dimorphism on Airway Responsiveness in Juvenile Mice**/K.C. Wang, A. Larcombe, J. Morton, S.T. Davidge, A.L. James, P. Noble, Subiaco, Australia, p.A4951
- 11:00** **Airway Smooth Muscle Tone Increases Airway Responsiveness in Young Healthy Adults**/M. Gazzola, K. Lortie, C. Henry, S. Mailhot-Larouche, D.G. Chapman, C.Y. Seow, P.D. Pare, G. King, L.-P. Boulet, Y. Bosse, Quebec, Canada, p.A4952

MINI SYMPOSIUM

C19 MOLECULAR MECHANISMS OF DYSREGULATED INFLAMMATION, PROLIFERATION, AND REPAIR IN THORACIC ONCOLOGY

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 202 B (South Building, Level 2)

Chairing: C. Bai, MD, PhD, Shanghai, China
M. Konigshoff, MD, PhD, Aurora, CO
S.D. Spivack, MD, MPH, Bronx, NY

Featured Speaker

9:15 **Overview**/C.A. Powell, MD, New York, NY,

Oral Presentations

- 9:30** **The ADAM17/IL-6 Trans-Signalling Axis as a Therapeutic Target in Lung Adenocarcinoma**/B. Jenkins, S. Alhassani, G. Brooks, A. Miller, L. McLeod, W. Ferlin, S. Rose-John, S. Ruwanpura, Clayton, Australia, p.A4953

- 9:45** **CD98hc: A Novel Treatment Target in Malignant Mesothelioma**/C. Rooney, L. Vuong, T. Sethi, A. Mackinnon, F. McCaughan, London, United Kingdom, p.A4954
- 10:00** **Myo-Inositol Reduces Pro-Tumoral IL6 Inflammation in a Mouse Model of Lung Cancer Chemoprevention**/E.J. Ostrin, N. Unver, O. Delgado, M. Caetano, K. Zeleke, A. Cumpian, X. Tang, H. Wang, H. Katayama, I. Wistuba, S.J. Moghaddam, S.M. Hanash, Houston, TX, p.A4955
- 10:15** **Epha2 Deficiency Promotes Natural Killer Cell Activity and Inhibits Malignant Pleural Mesothelioma Tumor Growth**/N. Nasreen, H. Lee, F. Kaye, K.A. Mohammed, Gainesville, FL, p.A4956
- 10:30** **DNA Repair Protein XPC Alters Pulmonary Cell Fate Following Cigarette Smoke Exposure and May Play a Role in Emphysema and Lung Cancer Development**/C.R. Sears, H. Zhou, A.J. Fisher, M.J. Justice, M. Van Demark, J. Saliba, G.E. Sandusky, I. Petrache, Indianapolis, IN, p.A4957
- 10:45** **Detection of Lung Cell Death in Advanced Lung Cancer Patients Using Methylation Patterns of DNA Circulating in Plasma**/Z.G. Fridlender, J. Magenheimer, B. Glaser, R. Shemer, Y. Dor, Jerusalem, Israel, p.A4958
- 11:00** **Targeted Therapy of Lung Cancer: The Role of Osteopontin for Cancer Evolution and Heterogeneity**/L. Shi, C. Chen, X. Wang, Shanghai, China, p.A4959

RAPID: RAPID ABSTRACT POSTER DISCUSSION

C21 OMICS IN LUNG DISEASE

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 151 A (Middle Building, Street Level)

Abstract Summaries 9:15-9:45
Poster Viewing/Discussion 9:45-11:15

Chairing: A.N. Gerber, MD, PhD, Denver, CO
C.P. Hersh, MD, MPH, Boston, MA
C. Mikacenic, MD, Seattle, WA

- 301** **Application of High-Resolution Metabolomics and Text Mining for Acute Respiratory Distress Syndrome**/K. Uppal, D.P. Jones, A. Esper, Atlanta, GA, p.A4960
- 302** **Severe Asthma-on-Chip: A Novel In Vitro Platform to Model Viral-Induced Exacerbations in Asthma**/R. Villenave, C. Lucchesi, D. Cheng, H.H. Lee, J. Nguyen, A. Varone, K. Karalis, S. Alves, M. Salmon, G.A. Hamilton, Boston, MA, p.A4961
- 303** **Comprehensive Sequencing Identifies Rare SERPINA1 Variants Associated with Asthma-Related Health Care Utilization in the Severe Asthma Research Program (SARP)**/V.E. Ortega, S. Pasha, M. Castro, S.C. Erzurum, J.V. Fahy, E. Israel, N.N. Jarjour, S.E. Wenzel, G. Hawkins, E. Bleecker, D. Meyers, Winston-Salem, NC, p.A4962



- 304 Integrative Genomic Analysis of Lung Tissue Gene Expression Identifies Potential COPD Genes/J.D. Morrow, M.H. Cho, X. Zhou, D. DeMeo, W. Qiu, B. Celli, N. Marchetti, G.J. Criner, R. Bueno, G. Washko, K. Glass, J. Quackenbush, E.K. Silverman, C.P. Hersh, Boston, MA, p.A4963**
- 305 Chronic Obstructive Pulmonary Disease Subtyping Through Multiple -Omics Data Integration/B.D. Hobbs, J.D. Morrow, B.R. Celli, R. Bueno, G.J. Criner, D. DeMeo, C.P. Hersh, E.K. Silverman, M.H. Cho, Boston, MA, p.A4964**
- 306 Whole Exome Sequencing Analysis of Severe COPD/D. Qiao, C. Lange, T.H. Beaty, J.D. Crapo, N.M. Laird, B.D. Hobbs, R. Busch, D. Lomas, Y. Liu, M. Spitz, A. Agusti, B.J. Make, P.M.A. Calverley, C.F. Donner, E.F.M. Wouters, J. Vestbo, P.D. Pare, R.D. Levy, S.I. Rennard, R. Tal-Singer, E.K. Silverman, M.H. Cho, Boston, MA, p.A4965**
- 307 Differential Gene Expression Between Cannabis and Tobacco Smoke Exposure/S. Sharma, T.L. Phang, J. Gaydos, A. McNally, E.L. Burnham, Aurora, CO, p.A4966**
- 308 Human Small Airway-on-a-Chip: A Novel Microphysiological System to Model Lung Inflammation, Accelerate Drug Development and Enable Inhalational Toxicology Analysis/K. Benam, R. Novak, R. Villenave, C. Lucchesi, C. Hubeau, J. Nawroth, M. Hirano-Kobayashi, T.C. Ferrante, Y. Choe, R. Prantil-Baun, J.C. Weaver, G.A. Hamilton, A. Bahinski, K.K. Parker, D.E. Ingber, Boston, MA, p.A4967**
- 309 Multi-Omic Biomarker Signatures Are Predictive of the Allergen-Induced Late Phase Asthmatic Response/A. Singh, C.P. Shannon, Y.W. Kim, M.L. DeMarco, K.-A. Le Cao, G. Gauvreau, J.M. Fitzgerald, L.-P. Boulet, P. O'Byrne, S.J. Tebbutt, Vancouver, Canada, p.A4968**
- 310 Whole Genome Sequencing Study on Bronchodilator Drug Response in Ethnically Diverse Children with Asthma/A.C.Y. Mak, M.J. White, Z.A. Szpiech, W. Eckalbar, M. Pino-Yanes, S. Oh, D. Hu, S. Huntsman, C. Eng, A. Davis, D. Serebrisky, E. Brigino-Buenaventura, F. Lurmann, H.J. Farber, J.R. Rodriguez-Santana, K. Meade, L.N. Borrell, M.A. LeNoir, P.C. Avila, R. Kumar, S. Sen, S. Thyne, W. Rodriguez-Cintron, P.-Y. Kwok, D.G. Torgerson, J. Galanter, N. Ahituv, E. Ziv, M.A. Seibold, N. Zaitlen, R.D. Hernandez, E.G. Burchard, San Francisco, CA, p.A4969**
- 311 Puberty-Associated DNA Methylation Changes in Females Are Near Estrogen Responsive Genes and Implicated in Immune Processes/E. Thompson, J. Nicodemus-Johnson, K.W. Kim, J.E. Gern, D.J. Jackson, R.F. Lemanske, Jr., C. Ober, Chicago, IL, p.A4970**
- 312 Identifying Subject-Specific Regulatory Networks of Asthma Control/D.C. Croteau-Chonka, K. Glass, B.A. Raby, Boston, MA, p.A4971**
- 313 Glucocorticoid Pharmacogenetic Loci Are Associated with Healthcare Utilization in Inhaled Corticosteroid Treated Asthma Subjects from Different Ethnic Groups/E.J. Pennington, V.E. Ortega, E.J. Ampleford, W.C. Moore, W.W. Busse, M. Castro, S.C. Erzurum, E. Israel, S.E. Wenzel, G. Hawkins, D.A. Meyers, E.R. Bleecker, Winston-Salem, NC, p.A4972**
- 314 Role of the CDHR3 Variant (Cys529→Tyr) in Early-Onset Adult Asthma in Japanese Populations/J. Kanazawa, H. Masuko, H. Kitazawa, H. Yamada, Y. Yatagai, Y. Kaneko, H. Iijima, T. Naito, T. Saito, E. Noguchi, S. Konno, M. Nishimura, T. Hirota, M. Tamari, T. Sakamoto, N. Hizawa, Tsukuba, Japan, p.A4973**
- 315 Gene Expression Study of Childhood Asthma and Atopy in a Rural Environment/S. Dwyer, R. Lauener, S. Willis-Owen, J. Genuneit, E. Horak, M. Ege, W. Cookson, E. von Mutius, M. Moffatt, London, United Kingdom, p.A4974**
- 316 Allelic Imbalance in COPD Candidate Genes/M. Parker, R.P. Chase, A. Lamb, B.D. Hobbs, M.H. Cho, E.K. Silverman, C.P. Hersh, P.J. Castaldi, Boston, MA, p.A4975**
- 317 Identification of Novel Single Nucleotide Polymorphisms Associated with Acute Respiratory Distress Syndrome by Meta-Analysis of Exome-seq Data/M. Xiong, D.P. Heruth, S. Chaudhary, Q.L. Zhang, Q.S. Ye, Kansas, MO, p.A4976**
- 318 Interleukin 6 Promoter Polymorphisms Modify the Effect of Smoking on the Risk of Adult Asthma/T.K. Lajunen, J.J.K. Jaakkola, M.S. Jaakkola, Oulu, Finland, p.A4977**
- 319 Transcriptional Responses to Lipopolysaccharide, Poly I:C and House Dust Mite Extract of Tissue Resident Memory CD4 and CD8 T Cells in Human Lungs/N. Schoettler, J. Huffman, C.L. Hrusch, A.I. Sperling, C. Ober, Chicago, IL, p.A4978**
- 320 Functional Exploration of the CDHR3 Asthma Risk Gene by CRISPR-Cas9 Gene Knockout in Primary Airway Epithelium/J.L. Everman, N. Jackson, S. Sajuthi, A. Wesolowska-Andersen, C. Rios, A. Stoner, L. Ringel, R. Herrin, M. Numata-Nakamura, C. Eng, J.R. Rodriguez-Santana, E.G. Burchard, D. Voelker, M.A. Seibold, Denver, CO, p.A4979**
- 321 Metabolomics as a Novel Method to Explore the Relationship Between Asthma and Vitamin D/R.S. Kelly, A.A. Litonjua, S. Weiss, J. Lasky-Su, Boston, MA, p.A4980**
- 322 TGF- β Genes in Obese Asthmatics Have Altered Expression Profiles Compared to Lean Asthmatics/S.B. Epstein, S. Ghose, B. Harmon, E. Nadler, M. Barberio, M. Goldberg, L. Maltz, R.J. Freisat, Washington, DC, p.A4981**
- 323 Transcriptional Analysis of Regulatory T Cells in Experimental Acute Lung Injury Resolution/J. Mock, C.F. Dial, H. Dang, M.K. Tune, C.M. Doerschuk, Chapel Hill, NC, p.A4982**
- 324 Quantitative Proteomics Reveals Novel Fibrotic Networks of Myeloid-Derived Suppressor Cell and Monocytes in IPF/I.E. Fernandez, R. Roy, F.R. Greiffo, M. Frankenberger, J. Behr, A.R. Forrest, O. Eickelberg, Munich, Germany, p.A4983**
- 325 A Recurrent De Novo Mutation in COPA Causes Follicular Bronchiolitis in an Icelandic Family/G. Gudmundsson, B. Jensson, G. Arnadottir, G. Sulem, I. Jonsdottir, P. Sulem, K. Stefansson, Reykjavik, Iceland, p.A4984**



POSTER DISCUSSION SESSION

C22 COPD PHENOTYPES

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 209 A-C (South Building, Level 2)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: M.K. Han, MD, MS, Ann Arbor, MI
D. Chandra, MD, MSc, Pittsburgh, PA
B.J. Make, MD, Denver, CO

701 Fissure Integrity and Emphysema Distribution in Patients with Severe Chronic Obstructive Pulmonary Disease/D. Gompelmann, M. Schuhmann, K. Kontogianni, C.P. Heussel, J. Tschirren, R. Eberhardt, F.J.F. Herth, Heidelberg, Germany, p.A4985

702 Characterization of COPD Patients Treated with Inhaled Triple Therapy Containing Inhaled Corticosteroids [ICS], Long-Acting Beta2-Agonists [LABA], and Long-Acting Muscarinic Antagonists [LAMA] in the UK/H. Mullerova, J. Maskell, W.H. Meeraus, D. Galkin, F.C. Albers, C. Gait, Uxbridge, United Kingdom, p.A4986

703 Does Mortality Differ Between Comorbidity Phenotypes in Patients with Advanced COPD?/B.D. James, N.J. Greening, N. Toms, G. Woltmann, R.C. Free, P. Haldar, M.C. Steiner, R.A. Evans, Leicester, United Kingdom, p.A4987

704 Longitudinal Lung Function and Mortality in Preserved Ratio Impaired Spirometry (PRISm) in the COPDGene Study/E.S. Wan, S. Fortis, J. Hokanson, D. DeMeo, J.D. Crapo, E.K. Silverman, Boston, MA, p.A4988

705 Various Thresholds of Blood Eosinophil Levels (Eos) Do Not Identify a Specific Clinical COPD Phenotype/M. Zysman, P.-R. Burgel, G. Deslee, D.M. Caillaud, P. Chanez, R. Escamilla, I. Court-Fortune, P. Nesme-Meyer, T. Perez, J.-L. Paillasseur, C. Pinet, G. Jebrak, N. Roche, Creteil, France, p.A4989

706 Blood Total Lymphocyte Count and Prognosis of Patients with COPD: An Analysis of Data from the Hokkaido COPD Cohort Study and the Rotterdam Study/M. Suzuki, L. Lahousse, H. Makita, S. Konno, K. Shimizu, H. Kimura, G.G. Brusselle, M. Nishimura, Sapporo, Japan, p.A4990

707 A Simple Global Measure of Functional Small Airway Disease (fSAD) in Chronic Obstructive Pulmonary Disease (COPD): A "Density-Mask" Based Approach/S. Bodduluri, J.M. Reinhardt, E.A. Hoffman, J.D. Newell, H.P. Nath, J.C. Sieren, M. Dransfield, S.P. Bhatt, Birmingham, AL, p.A4991

708 Ectopic Adiposity and Cardiometabolic Status in COPD: A CanCOPD Substudy/V. Coats, J.-P. Despres, N. Almeras, D.D. Sin, R. Rabasa-Lhoret, W.C. Tan, J. Bourbeau, F. Maltais, Quebec, Canada, p.A4992

709 Imaging Phenotypes Improve Survival Prediction by Multidimensional COPD Indices: An Analysis of the COPDGene Cohort/C. Martinez, A.A. Diaz, W.W. Labaki, C. Ejike, C. Meldrum, J. Curtis, S. Murray, G. Kinney, J. Hokanson, N.

Putcha, R. Bowler, N. Hansel, G. Washko, B.J. Make, E. Kazerooni, C.J. Galban, F.J. Martinez, E. Regan, M.K. Han, Ann Arbor, MI, p.A4993

710 GOLD Groups A and B in the SPIROMICS Cohort Demonstrate Significant Differences in Non-Respiratory Symptoms/C.

Martinez, W.W. Labaki, R.G. Barr, E.E. Carretta, D. Couper, J. Curtis, N. Hansel, R.E. Kanner, E. Kleerup, R. Paine, N. Putcha, S.I. Rennard, D.P. Tashkin, P.G. Woodruff, F.J. Martinez, M.K. Han, Ann Arbor, MI, p.A4994

711 Chronic Rhinosinusitis Is Associated with Higher Prevalence and Severity of Bronchiectasis in Patients with COPD/Y. Sun, X. Yang, Beijing, China, p.A4995

712 Probability of Emphysema in Patients with No Obstruction and Reduced DLCO/A.W. McLean, S. Alrawaf, M. Alsaggaf, R. Seeni, M. Delaney, J. Williams, G. Gutierrez, Washington, DC, p.A4996

713 Patients with a COPD Emphysematous Phenotype Have Worse Daily Respiratory Symptoms/N. Marchetti, P. Mulhall, P. Rali, S. Dhungana, A. Criner, G.J. Criner, Philadelphia, PA, p.A4997

714 Empiric Characterization of Distinct COPD Subphenotypes: The Lower Risk Groups/D.P. Blagev, D.S. Collingridge, S. Rea, Murray, UT, p.A4998

715 Integrated Real-Time Health Assessments to Stratify COPD Patients/N. Locantore, R.P. Bowler, T. Herrud, C. Schnell, M. Allinder, R. Sung, R. Tal-Singer, King of Prussia, PA, p.A4999

716 Phenotyping COPD Exacerbations Using Imaging and Blood-Based Biomarkers/N. Alotaibi, V. Chen, Z. Hollander, C.J. Hague, J.A. Leipsic, D. Murphy, M.L. DeMarco, J.M. Fitzgerald, B.M. McManus, R.T. Ng, D.D. Sin, Vancouver, Canada, p.A5000

717 Comparing the Impact of Defining Obesity by Body Mass Index Versus Waist-Hip Ratio on Respiratory Outcomes: An Analysis of the SPIROMICS Cohort/C. Ejike, W.W. Labaki, A. Fawzy, R.G. Barr, E. Blecker, C.B. Cooper, J. Curtis, N. Hansel, N. Putcha, E.A. Hoffman, R.E. Kanner, F.J. Martinez, R. Paine, P.G. Woodruff, E. Kazerooni, E. Regan, A.A. Diaz, M.K. Han, C. Martinez, Ann Arbor, MI, p.A5001

718 Characterizing Clinical and Imaging Phenotypes of COPD Within the DECAMP Consortium/G. Radin, F. Duan, E. Billatos, B. Snyder, C. Stevenson, C. Gatsonis, G.T. O'Connor, M. Lenburg, G. Washko, A. Spira, Boston, MA, p.A5002

719 Effect of Emphysema Heterogeneity and ADRB2 Polymorphisms on Bronchodilator Response in Patients with COPD/M. Nojiri, S. Mizuno, T. Oikawa, K. Nakagawa, K. Osanai, T. Ishizaki, H. Toga, Ishikawa, Japan, p.A5003

720 Anemia Is Associated with a Specific Phenotype Having Worse Outcomes in COPD: Analysis from SPIROMICS/N. Putcha, G.G. Paul, A. Lambert, A. Fawzy, K. Psoter, J.M. Wells, W.W. Labaki, C.M. Doerschuk, R.E. Kanner, M.K. Han, C. Martinez, L.M. Paulin, M.B. Drummond, F.J. Martinez, R.A. Wise, W. O'Neal, R.G. Barr, N. Hansel, Baltimore, MD, p.A5004

721 Prospective Diagnostic Algorithm to Differentiate Asthma, ACOS and COPD/S. Everaerts, L. Dupont, K. De Bent, K. Denaux, S. Verschueren, N. Lorent, P. Van Bleyenbergh, W. Janssens, Leuven, Belgium, p.A5005



- 722 Comparison of Clinical Characteristics and Prognosis Between ACOS and COPD in KOCOSS Cohort Study/M.K. Byun, S.Y. Yang, S.H. Kim, H.J. Kim, C.M. Ahn, K.-H. Yoo, K.S. Jung, H.J. Park, Seoul, Korea, Republic of, p.A5006**
- 723 Describing Asthma-COPD Overlap Syndrome in Low and Middle-Income Countries/B. Morgan, T. Siddharthan, M. Grigsby, A. Bernabe-Ortiz, J.J. Miranda, W. Checkley, Baltimore, MD, p.A5007**
- 724 Effect of Spirometry Measures on the Relationship Between Eosinophilia and All-Cause Mortality/P. Sharma, R. Qayyum, Chattanooga, TN, p.A5008**
- 725 Roll of Small Airways in Patients with Chronic Obstructive Pulmonary Disease Associated to Biomass Smoke/N.E. Guzman-Bouilloud, M. Velazquez-Uncal, A. Aranda-Chavez, J. Duenas-Morales, O. Perez-Bautista, R. Hernandez-Zenteno, F. Flores, R.H. Sansores, A. Ramirez-Venegas, Mexico City, Mexico, p.A5009**

POSTER DISCUSSION SESSION

C23 CRITICAL CARE: WHAT CAN BE MEASURED CAN BE IMPROVED - INVESTIGATING THE EPIDEMIOLOGY AND OUTCOMES OF PATIENTS WITH ACUTE CRITICAL ILLNESS

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 150 B (Middle Building, Street Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: A.J. Walkey, MD, MSc, Boston, MA
H.C. Prescott, MD, MSc, Ann Arbor, MI
C.E. Cox, MD, MPH, Durham, NC

- 201 Estimating the National Burden of Sepsis Using Clinical Data/C. Rhee, R. Dantes, L. Epstein, D.J. Murphy, C.W. Seymour, T.J. Iwashyna, S. Kadri, D.C. Angus, R.L. Danner, A. Fiore, J.A. Jernigan, S.S. Magill, G.S. Martin, E. Septimus, D. Warren, C. Chan, J.T. Menchaca, M. Klompas, Boston, MA, p.A5010**
- 202 The Effect of Neighborhood Socioeconomic Status on Sepsis-Attributable Mortality/P. Galiatsatos, K. Littleton, J. Pietri, M. Grant, E. Brigham, E.S. Chen, Bethesda, MD, p.A5011**
- 203 Trends in the Weekend Effect Observed in Sepsis from Years 2006 to 2013, a Retrospective NIS Study/S. Baig, A. Szabo, L. Rein, S. Ahmad, New Brunswick, NJ, p.A5012**
- 204 Epidemiology of Sepsis Biomarker Use in the United States, 2012-2015/E. Gluck, H.B. Nguyen, K. Yalamanchili, M. McCusker, J. Sherman, J. Madala, F.A. Corvino, R. Balk, Chicago, IL, p.A5013**
- 205 The Government Mandated Severe Sepsis and Septic Shock Early Management Bundle Performance Measure (SEP-1) Is Not Evidence Based/D.J. Pepper, C. Natanson, P. Eichacker, Bethesda, MD, p.A5014**
- 206 Evidence Supporting the Obesity Survival Paradox Among Over 11,000 Adults with Sepsis/D.J. Pepper, J. Sun, C. Rhee, M. Klompas, A.F. Suffredini, S. Kadri, Bethesda, MD, p.A5015**
- 207 Accuracy of the Centers for Medicare and Medicaid Services ICD-10-CM Codes in Identifying Sepsis Among Critically Ill Adults/A. Dunatchik, M.W. Semler, T.W. Rice, J.D. Casey, Nashville, TN, p.A5016**
- 208 Hospital Perceptions of Medicare's Sepsis Quality Reporting Initiative/I. Barbash, K. Rak, C. Kuza, J. Kahn, Pittsburgh, PA, p.A5017**
- 209 Prospective Evaluation of Septic Shock Definitions in Patients Admitted to a Medical Intensive Care Unit with Sepsis/A.M. Pulsipher, E.D. Kotloff, B.J. Anderson, J.A. Palakshappa, M.G.S. Shashaty, C.A.G. Ittner, J.D. Christie, N.J. Meyer, J.P. Reilly, Philadelphia, PA, p.A5018**
- 210 Most Patients with Sepsis Do Not Receive All Appropriate Antibiotics Within 3 Hours of Emergency Department Triage/S.J. Quinn, V. Esmero, C.Y. Pu, M. Kakol, H. Gonzalez, S. Wessel, C.M. Kapp, N. Dodia, S. Borgetti, J. Jacobson, R. Gueret, J.A. Greenberg, Chicago, IL, p.A5019**
- 211 Fluid Resuscitation and Mortality in Sepsis with End-Stage Renal Disease/J.J. Lee, S.L. Taylor, J.Y. Adams, Sacramento, CA, p.A5020**
- 212 Variable Fluid Resuscitation Practices Associated with Poor Risk-Adjusted Performance and Potential Harm in Critically Ill Septic Patients/J.N. Mansoori, W.T. Linde-Zwirble, E. Havranek, I.S. Douglas, Denver, CO, p.A5021**
- 213 Improved Survival of Patients with Severe Sepsis and Intermediate Lactate Levels in the Era of Sepsis Resuscitation Bundles/J. Paralkar, E. Wan, P. Patrawalla, S. Acquah, New York, NY, p.A5022**
- 214 A Regional Analysis of Patient Outcomes and Medicare Payments for Sepsis Patients Treated in Long-Term Care Hospitals and Skilled Nursing Facilities/B. Demiralp, F. He, L. Koenig, D. Hengesbach, J. Prister, Rockville, MD, p.A5023**
- 215 A Retrospective Review of Time Spent in the Emergency Department and Outcomes in Severe Sepsis and Septic Shock/R.Y.H. Kim, A. Ng, Y. Kothari, J.D. Price, A. Persaud, T. Wiemken, S. Furmanek, M. Saad, R. Cavallazzi, Louisville, KY, p.A5024**
- 216 Pre-ICU Frailty Is a Risk Factor for Reduced Likelihood of Discharge to Home After Sepsis/A.M. Small, J.A. Palakshappa, J.P. Reilly, B.J. Anderson, T.K. Jones, M.G.S. Shashaty, C.A.G. Ittner, J.D. Christie, N.J. Meyer, Philadelphia, PA, p.A5025**
- 217 Epidemiology and Predictors of Mortality Among Sepsis Patients in South East Nigeria/M.O. Iroezindu, G.C. Isiguzo, U.S. Unigwe, O.D. Onodugo, S.E. Isa, C.A. Daniyam, M.E. Ohanu, G.C. Mbata, Enugu, Nigeria, p.A5026**
- 218 Investigating the Impact of Different Suspicion of Infection Criteria on the Accuracy of qSOFA, SIRS, and Early Warnings Scores/M.M. Churpek, A.M. Snyder, S. Sokol, N.N. Pettit, D.P. Edelson, Chicago, IL, p.A5027**



- 219** **Identifying High-Risk Suspected Infection Patients Using Serial qSOFA Measurements and Group-Based Trajectory Modeling/D.R. Kievlan, L.A. Zhang, C.-C. Chang, D.C. Angus, C.W. Seymour, Pittsburgh, PA, p.A5028**
- 220** **The Association Between SpO₂/FiO₂ Ratio Time-At-Risk and Hospital Mortality in Mechanically Ventilated Patients/J.Y. Adams, A. Rogers, A. Schuler, G.P. Marelich, J.M. Fresco, S.L. Taylor, A.W. Riedl, J.M. Baker, G.J. Escobar, V. Liu, Sacramento, CA, p.A5029**
- 221** **Prospective Surveillance of All-Cause Pneumonia in Mechanically Ventilated Patients/K. Fisher, T. Trupka, P. Juang, S. Micek, M.H. Kollef, St. Louis, MO, p.A5030**
- 222** **Declining Risk of Acute Respiratory Distress Syndrome in Critically Ill Trauma Patients/E.D. Kotloff, C.M. Forker, N.J. Meyer, P.N. Lanken, D.N. Holena, J.D. Christie, M.G.S. Shashaty, J.P. Reilly, Philadelphia, PA, p.A5031**
- 223** **Role of Fluid Management in Risk for Tracheostomy in ARDS/A. Sharma, S. Patel, R. Vashisht, A. Duggal, R.D. Hite, Cleveland, OH, p.A5032**
- 224** **Imaging Prediction of ARDS Outcome/M. Cereda, Y. Xin, H. Hamedani, G. Bellani, S. Kadlecsek, M. Itkin-Ofer, J. Clapp, L. Guerra, N. Meeder, S. Turner, L. Hughes, I. Duncan, M. Pourfathi, S. Siddiqui, N. Drachman, A. Roberts, Q. Bey, A. Rodriguez, N. Tustison, J. Gee, B.P. Kavanagh, R.R. Rizi, Philadelphia, PA, p.A5033**
- 225** **Trends in Gastrostomy and Tracheostomy Utilization During Critical Illness, 2008-2015: A Single, Tertiary Care Center Study/A. Law, J. Stevens, A.J. Walkey, Boston, MA, p.A5034**
- 403** **Baseline Functional Impairment Is Associated with the Placement of Limitations on Aggressive Care in Critically Ill Adults/C. Winterbottom, A. Ahasic, M.P. Knauert, C.E. Pulaski, K. Araujo, M. Doyle, M. Pisani, New Haven, CT, p.A5037**
- 404** **Changes in Code Status During Terminal Hospitalization Predict Intensity at the End of Life in ICU Patients/S. Richter, Los Angeles, CA, p.A5038**
- 405** **Palliative Care in Cirrhosis: A NIS Database Study Looking at Intensive Care Resource Utilization/M. Holub, M. Kang, A. Sutherland, Newark, NJ, p.A5039**
- 406** **Primary Palliative Care Needs and Practices During Rapid Response Events in Hospitalized Patients/C.A. Austin, S. Choudhury, T. Lincoln, L. Chang, C.E. Cox, M. Weaver, L. Hanson, J. Nelson, S.S. Carson, Chapel Hill, NC, p.A5040**
- 407** **Time to Location of Goals of Care Documentation in the EMR for Patients Who Experienced a Rapid Response Event/S. Choudhury, C.A. Austin, S.S. Carson, Chapel Hill, NC, p.A5041**
- 408** **Comfort Measures Orders Prior to Death Are Less Frequent and More Delayed in ICU Patients with Limited English Proficiency/A. Barwise, M.E. Wilson, O. Gajic, P. Novotny, C. Jaramillo, Rochester, MN, p.A5042**
- 409** **Socioeconomic and Racial Differences in Mechanical Ventilation in the Last 30 Days of Life/C. Brown, L. Downey, R.A. Engelberg, J.R. Curtis, Seattle, WA, p.A5044**
- 410** **Differences in Family Involvement in the Care of Patients in the Intensive Care Unit Based on Self-Identified Race/Ethnicity/E. Nunez, T. Amass, G. Villa, R. McFadden, A. Palmisciano, R. De Gaudio, S. O'Mahoney, J.R. Curtis, M. Levy, Providence, RI, p.A5045**
- 411** **Influence of Linguistic Diversity on Advanced Care Decision Making Among Critically Ill Patients/S. Easaw, M. Farokhi, M. Warshawsky, P. Spiro, V. Kaul, Elmhurst, NY, p.A5046**
- 412** **End of Life Care Dynamics in Muslim Patients Admitted to a Tertiary Care Hospital in Saudi Arabia/I. Khalid, R. Qutob, F.N. Yamani, I.A. Qushmaq, T.J. Khalid, R. Fowler, Jeddah, Saudi Arabia, p.A5047**
- 413** **Parental Feelings About, and Understanding of Different Methods of Obtaining Consent to Observational Research in PICU/J. Hodson, C. Garros, J. Pugh, J. Duff, G. Garcia Guerra, A.R. Joffe, Edmonton, Canada, p.A5048**
- 414** **Parental Opinions About Types of Consent Acceptable for Observational Research in a PICU Before and After Background Information/C. Garros, J. Hodson, J. Pugh, J. Duff, G. Garcia Guerra, A.R. Joffe, Edmonton, Canada, p.A5049**
- 415** **Impact of Family Care Rituals (FCR) in the Intensive Care Unit (ICU) on Discordance-of-Care/T. Amass, G. Villa, R. McFadden, A. Palmisciano, R. De Gaudio, S. OMahony, J.R. Curtis, M. Levy, Providence, RI, p.A5050**
- 416** **Does Timing of the First Family Meeting Affect Family Satisfaction with Intensive Care Unit Care?/J.Z. Hillenkamp, L.J. Van Scoy, Hershey, PA, p.A5051**

RAPiD: RAPID ABSTRACT POSTER DISCUSSION

C24 CRITICAL CARE: IMPROVING FAMILY ENGAGEMENT AND PALLIATIVE AND END OF LIFE CARE IN THE ICU

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 151 B (Middle Building, Street Level)

Abstract Summaries 9:15-9:45

Poster Viewing/Discussion 9:45-11:15

Chairing: R.D. Stapleton, MD, PhD, Burlington, VT
D.B. White, MD, Pittsburgh, PA
A.C. Long, MD, MS, Seattle, WA

- 401** **Suitability and Outcomes of Cardiopulmonary Resuscitation in Cancer Patients at a Tertiary Oncology Center/M. Finan, K. Stoudt, L. Canecchia, N. Kosteletzky, K.S. Tan, S.M. Pastores, N.A. Halpern, L. Voigt, S. Chawla, New York, NY, p.A5035**
- 402** **Variability in Intensive Care Unit Utilization at the End of Life in Patients with a Diagnosis of Cancer: A Large Multi-State Hospital Network Experience/R.K. Weerasinghe, E. Craig, J.R. Rayburn, C.L. Wilshire, C.R. Gilbert, J.A. Gorden, Renton, WA, p.A5036**



- 417 **Important Patient Centered Outcomes When Making Decisions to Start or Stop Mechanical Ventilation in the Intensive Care Unit: A Qualitative Study**/M.E. Wilson, H. Kaur, A. Mayukha, B. Thorsteinsdottir, A. Kumbamu, O. Gajic, Rochester, MN, p.A5052
- 418 **Focus on Family-Centered Outcomes: Understanding Response Rates to Surveys About Symptoms of Psychological Distress Among Family Members of Critically Ill Patients**/A.C. Long, L. Downey, R.A. Engelberg, E. Nielsen, P. Ciechanowski, J.R. Curtis, Seattle, WA, p.A5053
- 419 **Addressing the Religious and Spiritual Needs of ICU Patients: A Survey of ICU Clinicians**/P. Choi, F. Curlin, C.E. Cox, Durham, NC, p.A5054
- 420 **Patient- and Caregiver-Reported Outcomes During Critical Illness Recovery: A Systematic Review**/R.C. Burson, L. Di Taranti, S. Buddai, M.B. Lane-Fall, Philadelphia, PA, p.A5055
- 421 **An Inductive Approach to Survey Development: Using Qualitative Findings in the Creation of a Survey to Assess Barriers, Facilitators and Current Care Processes Related to the Conduct of Interdisciplinary Family Meetings**/J.B. Seaman, R.M. Arnold, K.J. Rak, M.L. Nilsen, A. Argenas, A.-M. Shields, D.B. White, Pittsburgh, PA, p.A5056
- 422 **Nursing Perspectives Regarding End of Life Care in the Intensive Care Unit**/R. Sedhom, D. Barile, New Brunswick, NJ, p.A5057
- 423 **Difficulties in Decision Making and Goal Setting with Surrogates at End of Life: A Survey Study of Residents in Internal Medicine**/R. Sedhom, D. Barile, New Brunswick, NJ, p.A5058
- 424 **Doctors' Experiences of Moral Distress in End-of-Life Care Decisions in the Intensive Care Unit**/U. St Ledger, D.F. McAuley, J. Reid, A. Begley, L. Prior, B. Blackwood, Belfast, United Kingdom, p.A5059
- 103 **Attenuated Lymphocyte Immune Response in Mycobacterium Avium Complex-Lung Disease by Increasing Expression of Programmed Death-1 Receptor on Lymphocytes**/C.-C. Shu, J.-Y. Wang, M.-F. Wu, B.-L. Chiang, C.-J. Yu, Taipei, Taiwan, p.A5062
- 104 **Callithrix Jacchus: A Non-Human Primate Model of Mycobacterium Avium Complex Pulmonary Infection?**/M. Mangat, J. Peters, D.E. Griffith, San Antonio, TX, p.A5063
- 105 **Establishment of a Mycobacterium Avium Subsp. Hominissuis Host-to-Host Transmission Model in Caenorhabditis Elegans and Bacterial Colonization Associated Genes**/L.E. Bermudez, S. Rose, Corvallis, OR, p.A5064
- 106 **Autoimmune Nontuberculous Mycobacterial Disease: Characteristic Phenotypes of Cases with Anti-Interferon- γ Neutralizing Autoantibodies**/A. Aoki, T. Sakagami, K. Yoshizawa, K. Shima, N. Aoki, H. Moro, Y. Tanabe, T. Koya, T. Hasegawa, T. Kikuchi, Niigata, Japan, p.A5065
- 107 **Drinking Water Quality Attributes and Nontuberculous Mycobacterial Pulmonary Disease**/J.G.W. Minnery, T.K. Marras, E.R. Andrews, C. Burnett, K. Jagt, J.E. Johnson, S. Johnson, L. Li, E. MacIntyre, A. Marchand-Austin, S. Marshall, R. Copes, F.B. Jamieson, Toronto, Canada, p.A5066
- 108 **Detection of Aspiration in Patients with Mycobacterium Avium Complex Pulmonary Infection**/L. Lande, E.S. Rains, R. Kwait, W. Peng, J.O. Falkinham, M. Williams, O. Giger, D. Peterson, L. Greenspon, J. Sawicki, Wynnewood, PA, p.A5067
- 109 **Epidemiology of Pulmonary Nontuberculous Mycobacterial Disease in Patients with Cystic Fibrosis in the United States, 2010-2014**/J. Adjemian, K.N. Olivier, R. Prevots, Bethesda, MD, p.A5068
- 110 **Non-Tuberculous Mycobacteria in Chronic Obstructive Pulmonary Disease**/M.D. Schweitzer, V. Bagley, K. Balestrini, A.M. Guerrero, A. Sharifi, M. Campos, A. Quartin, M. Mirsaeidi, Miami, FL, p.A5069
- 111 **Non-Tuberculous Mycobacteria and Non-Cystic Fibrosis Bronchiectasis: A Close Relationship**/M.D. Schweitzer, K. Balestrini, A.M. Guerrero, L.V. Luna Diaz, S. Kesiraju, M. Campos, D. Schraufnagel, M. Mirsaeidi, Miami, FL, p.A5070
- 112 **Mycobacterium Shimoidei - a Rare but Increasingly Recognised Pulmonary Pathogen**/T.M. Baird, R. Thomson, Brisbane, Australia, p.A5071
- 113 **A BNA-PCR Based Rapid Identification System for the Detection of Macrolide Resistant Mycobacterium Avium-Intracellulare Complex**/T. Hiram, M. Kanazawa, H. Nakamura, M. Nagata, Toronto, Canada, p.A5072
- 114 **The Role of Nontuberculous Mycobacteria and Other Bacterial Pathogens in Aetiology of Tuberculosis (TB)- Like Syndromes in Resource-Poor Settings. A Case Study of Northeastern, Tanzania**/A.S. Hoza, S.G. Mfinanga, I. Moser, B. Konig, Morogoro, Tanzania, p.A5073
- 115 **Nontuberculous Mycobacteria Antibiotic Susceptibility Testing and Resistance in the United States**/S. Daniel-Wayman, A. Spaulding, A.M. Zelazny, K.N. Olivier, J. Adjemian, Y.L. Lai, S. Kadri, R. Prevots, Bethesda, MD, p.A5074

POSTER DISCUSSION SESSION

C25 NON-TUBERCULOUS MYCOBACTERIA: FROM BENCH TO CLINIC

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 144 A-C (Middle Building, Street Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: K.L. Winthrop, MD, MPH, Portland, OR
A. Floto, MD, PhD, Cambridge, United Kingdom
D.E. Griffith, MD, Tyler, TX

- 101 **Mycobacterium Avium Complex Species Virulence and Lipid Profiles**/J.R. Honda, L. Nieto, Y. Zhou, D. Hesser, N.A. Hasan, C. Mehaffy, K.M. Dobos, E.D. Chan, Aurora, CO, p.A5060
- 102 **Clinical Features of Anti-Glycopeptidolipid-Core IgA Antibodies for Mycobacterium Avium Complex Positive Patients**/ M. Amano, N. Fukuda, S. Kuriwa, T. Nishizawa, T. Ohba, R. Kawabe, S. Satoh, K. Akasaka, K. Matsushima, Saitama, Japan, p.A5061



- 116** Identifying Risk Factors that Decrease Survival in Mycobacterium-Avium Complex Infection in the Immunosuppressed/B.S. Albury, C. Ascoli, J. Melendez, C.R. Mejia, Guatemala City, Guatemala, p.A5075
- 117** Treatment Outcomes and Recurrence of M. Avium Complex Lung Disease by Clinical Phenotype/S.M. Moon, S.-Y. Kim, M.-A. Woo, S. Kim, B.W. Jhun, H.Y. Park, K. Jeon, H.J. Huh, C.-S. Ki, N.Y. Lee, M.J. Chung, K.S. Lee, S.J. Shin, C.L. Daley, H. Kim, O.J. Kwon, W.-J. Koh, Seoul, Korea, Republic of, p.A5076
- 118** Outcomes After Isolation of Mycobacterium Avium Complex from Sputum/G.P. Ranches, E. Henkle, K.L. Winthrop, Portland, OR, p.A5077
- 119** Treatment and Health-Related Quality of Life in Patients with Pulmonary Nontuberculous Mycobacterial Disease/E. Henkle, A. Quittner, E. Saez-Flores, G.P. Ranches, K.L. Winthrop, Portland, OR, p.A5078
- 120** The Relationship Between Interferon-g/Interleukin-17 Production and Clinical Effects of Antibiotic Therapy on Non-Tuberculous Mycobacterial Infection/H. Kobayashi, Suzuka, Japan, p.A5079
- 121** A Clofazimine-Containing Regimen for the Treatment of Mycobacterium Abscessus Lung Disease/B. Yang, B.W. Jhun, S.M. Moon, H. Lee, H.Y. Park, K. Jeon, D.H. Kim, S.-Y. Kim, S.J. Shin, C.L. Daley, W.-J. Koh, Seoul, Korea, Republic of, p.A5080
- 122** Comparison of Clinical Course and Treatment Outcome of Mycobacterium Abscessus Complex Lung Infection Depending on Subspecies/S. Kono, H. Matsui, M. Kawashima, H. Nagai, K. Watanabe, T. Kato, N. Watanabe, N. Oshima, K. Ota, S. Mitarai, Kiyose, Tokyo, Japan, p.A5081
- 123** Whole-Genome Sequencing Reveals Global Spread of Mycobacterium Abscessus Clones Amongst Patients with Cystic Fibrosis/D. Grogono, J. Bryant, D. Rodriguez-Rincon, I. Overall, K. Brown, P. Moreno, D. Verma, E. Hill, J. Drijkoningen, C. Haworth, S. Harris, D. Ordway, J. Parkhill, R.A. Floto, Cambridge, United Kingdom, p.A7650
- 124** Population-Based Incidence and Prevalence of Nontuberculous Mycobacterial Lung Disease in a Large US Managed Care Health Plan, 2008-2015/K.L. Winthrop, G. Eagle, X. Li, R. Zhang, Q. Zhang, Portland, OR, p.A7651
- 501** Risk or Protective Factor? Mild Respiratory Syncytial Virus Infection in Infancy and the Development of Recurrent Childhood Wheeze/C. Rosas-Salazar, T. Gebretsadik, L.J. Anderson, S. Jadhao, J.D. Chappell, E.K. Larkin, M.L. Moore, R.S. Peebles, T. Hartert, Nashville, TN, p.A5082
- 502** Lower Respiratory Tract Viral Infections in Children Cause Infiltration of Mast Cells in to the Alveolar Parenchyma - Role in Asthma Development?/C.K. Andersson, M. Mori, T. Mauad, J. Reed, A.A. Humbles, R. Welliver, L. Bjermer, J. Erjefalt, Lund, Sweden, p.A5083
- 503** Neutrophil Elastase Restores Muscarinic 3 Receptor (M3R) Expression that Has Been Suppressed by Interleukin (IL)-13/K. Komiya, T. Akaba, Y. Kozaki, B.K. Rubin, Richmond, VA, p.A5084
- 504** Activating Prostaglandin E2 Receptor Subtype EP4 Increases Mucus Secretion in Airway Goblet Cells/T. Akaba, K. Komiya, Y. Kozaki, B.K. Rubin, Richmond, VA, p.A5085
- 505** Stability of Remodeling-Associated and Immunomodulatory Gene Expression by Primary Bronchial Epithelial Cells from Asthmatic and Healthy Children Over Increasing Cell Passage/S.R. Reeves, K. Barrow, M. White, T. Kolstad, M. Naushab, J.S. Debley, Seattle, WA, p.A5086
- 506** Periodic Limb Movements in Children with Asthma and Sleep Disordered Breathing/H. Fanous, P. Kovacs, A. Jain, C. Purdy, I. Sami-Zakhari, Washington, DC, p.A5087
- 507** Exposure to Early Life Maternal Stress and Depression and Risk of Asthma/S. Ramratnam, K. Jaffee, C. Visness, J.E. Gern, Madison, WI, p.A5088
- 508** Asthma Exacerbation in Women During Pregnancy and Its Association with Adverse Perinatal Outcomes in Mother and Baby/K. Abdullah, J. Zhu, L.Y. Feldman, S.D.M. Dell, M.D. Loughheed, C. Liciskai, A.S. Gershon, T. To, Toronto, Canada, p.A5089
- 509** The Triple Roles of Preterm Birth in the Development of Childhood Asthma/H. He, M.E. Hughes, X. Wang, Chengdu, China, p.A5090
- 510** Oxygenation Index and Lung Recovery in Extracorporeal Life Support (ECLS) for Near Fatal Pediatric Asthma/R. Kohlberg-Davis, C.L. Carroll, H. Schlott, A.S. Cowl, Hartford, CT, p.A5091
- 511** Building Bridges for Asthma Care: Reducing School Absence for Children with Health Disparities/S.J. Szeffler, M. Cloutier, M. Villarreal, J. Hollenbach, M. Gleason, C. Haas Howard, C. Vinick, A. Calatroni, L. Cicutto, M. White, S. Williams, M. McGinn, C. Langton, D. Shocks, D. Stempel, H. Mitchell, Aurora, CO, p.A5092
- 512** A Personalized Approach to Asthma Control Over Time: Discovering Phenotypes Using Machine Learning/M.K. Ross, J. Yoon, K. Ho Moon, M. Van Der Schaar, Los Angeles, CA, p.A5093
- 513** Clinical Phenotypes of Asthma in Childhood and Adolescence: Clustering Analysis from the Paediatric U-BIOPRED Cohorts/S. Hashimoto, P. Brinkman, D. Lefaudeaux, A. Bansal, B. De Meulder, C. Murray, A. Bush, U. Frey, F. Singer, G. Hedlin, B. Nordlund, H. Bisgaard, W. Van Aalderen, N. Vissing, Z. Zolkipli, A. Selby, S.J. Fowler, D. Shaw, A.R. Sousa, S. Wagers, J. Corfield, I. Pandis, A. Rowe, M. Puig Valls, G. Pratico, C. Auffray, K.F. Chung, E. Bel, P.J. Sterk, L. Fleming, G. Roberts, Amsterdam, Netherlands, p.A5094

POSTER DISCUSSION SESSION

C26 ASTHMA IN INFANTS AND CHILDREN

9:15 a.m. - 11:15 a.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Room 201 (South Building, Level 2)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: D.K. Pillai, MD, Washington, DC
T.J. Moraes, MD, PhD, Toronto, Canada



- 514 Obstructive Phenotype as a Predictor of Asthma Control and Stability in Children/R.L. Sorkness, E. Zoratti, M. Kattan, P.J. Gergen, M. Evans, C. Visness, Madison, WI, p.A5095**
- 515 Latent Profile Analysis to Identify Heterogeneous Subgroups of Lung Function for Personalised and Targeted Early Intervention/D.C.M. Belgrave, R. Granell, A. Simpson, L. Lowe, I.E. Buchan, J. Henderson, A. Custovic, London, United Kingdom, p.A5096**
- 516 Antibiotic Use in Children with Asthma/E.J. Baan, H.M. Janssens, T. Kerckaert, J. De Jongste, M.C. Sturkenboom, K.M. Verhamme, Rotterdam, Netherlands, p.A5097**
- 517 Overuse of Oral Corticosteroids for Children with Asthma in a Large Medicaid Managed Care Program/H.J. Farber, E.A. Silveira, D.R. Vicere, V.D. Kothari, A.P. Giardino, Houston, TX, p.A5098**
- 518 Obesity and Airway Dysanapsis from Childhood to Adulthood/E. Forno, Y.Y. Han, J.C. Celedon, Pittsburgh, PA, p.A5099**
- 519 Blood Eosinophil "High" Asthma in Children: A Clinically Useful Phenotype/S.P. Shah, A.M. Fitzpatrick, Atlanta, GA, p.A5100**
- 520 Tiotropium RespiMat® Add-on Therapy Is Effective in Children and Adolescents with Severe Symptomatic Asthma, Irrespective of Immunoglobulin E Levels and Eosinophil Count/S. Goldstein, C. Vogelberg, E. Hamelmann, S.J. Szeffler, L. Mansfield, B. Voelker, G. El Azzi, R. Sigmund, M. Engel, M. Vandewalker, New York, NY, p.A5101**
- 521 Tiotropium RespiMat® Add-On Therapy Improves Lung Function in Adolescents and Children with Moderate Symptomatic Asthma, Irrespective of IgE Levels and Eosinophil Count/M. Vandewalker, C. Vogelberg, E. Hamelmann, S. Goldstein, B. Voelker, G. El Azzi, R. Sigmund, M. Engel, J.A. Bernstein, Columbia, MO, p.A5102**
- 522 Pharmacokinetic and Safety Evaluation of Tezepelumab in Adolescents with Mild to Moderate Asthma/S.L. Roseti, M.D. Howell, I. Stelmach, B. Agoram, L. Wang, R. Van Der Merwe, J. Parnes, P. Kuna, Gaithersburg, MD, p.A5103**
- 523 Decreased Exacerbations and Hospitalizations in Adolescents Enrolled in PROSPERO (Prospective Observational Study to Evaluate Predictors of Clinical Effectiveness in Response to Omalizumab)/A.T. Luskin, N.M. Griffin, A. Wagelie-Steffen, B.L. Trzaskoma, S.L. Limb, W.W. Busse, R.S. Zeiger, E. Gonzalez-Reyes, T.B. Casale, B.E. Chipps, Madison, WI, p.A5104**
- 524 The Effect of Omalizumab on Lung Function in Adolescents with Moderate-to-Severe Allergic Asthma/W.W. Busse, M. Humbert, P. Stephenson, A. Iqbal, B.L. Trzaskoma, L. Garcia Conde, J. Hepburn, B. Ortiz, F. Kianifard, S. Holgate, Madison, WI, p.A5105**
- 525 The Anthelmintic Niclosamide and Related Compounds Represent Potent TMEM16A Antagonists that Fully Relax Mouse and Human Airway Rings/K. Miner, D. Mohn, R. Elliott, D. Powers, J. Chen, B. Liu, P. Wang, K. Gaida, A. Hochheimer, L. Liu, K. Henckels, K. Labitzke, J.K. Sullivan, Thousand Oaks, CA, p.A7652**

POSTER DISCUSSION SESSION

C27 LET'S PRETEND WE'RE MARRIED: THE RIGHT VENTRICLE AND THE PULMONARY VASCULATURE

9:15 a.m. - 11:15 a.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 9-10 (Level M2)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

Chairing: P.J. Leary, MD, MS, Seattle, WA
N.C. Chesler, PhD, Madison, WI
P.A. Corris, MD, Newcastle upon Tyne, United Kingdom

1001 TP Receptor Antagonism Improves Right Ventricular Adaptation to Pressure Overload Via Changes in Calcium Signaling/E.J. Carrier, I. Macias-Perez, L. Pavliv, A.R. Hemmes, K. Kim, B.C. Knollmann, J.D. West, Nashville, TN, p.A5106

1002 Right Ventricular Longitudinal Peak Strain Predicts One-Year Mortality in Patients with Pulmonary Hypertension/P. Rajaram, T.J. Peck, M.A. Pernetz, M.S. Lava, M.R. Fisher, Atlanta, GA, p.A5107

1003 Right Ventricular Transient Exertional Dilation in Pulmonary Arterial Hypertension During Supine Exercise Stress Echocardiography: A Potential Diagnostic Test/R. El-Yafawi, J. Wirth, J. Dziodzio, D.A. Atherton, D. Rancourt, M.C. Cohen, Portland, ME, p.A5108

1004 Right Ventricular Pulmonary Artery Coupling During Vasodilator Testing: With Cardiovascular Magnetic Resonance Imaging and Inhaled Iloprost/J.-H. Li, Z.-W. Yang, Z.-Z. Wang, Y.-M. Sun, R. Naeije, Z.-C. Jing, Beijing, China, p.A5109

1005 The Prognostic Value of Right Ventricular Global Longitudinal Wall Shortening in Pulmonary Arterial Hypertension/S. Bachiri, C.E. Van Der Bruggen, O.A. Spruijt, H.J. Bogaard, A.V. Noordegraaf, F. Haddad, J.T. Marcus, Amsterdam, Netherlands, p.A5110

1006 Right Ventricular Angiogenesis Is Associated with Increased Vascular Endothelial Growth Factor Receptor 2 (VEGFR-2) Expression in a Murine Model of Chronic Hypoxia-Induced Pulmonary Hypertension/G.L. Peloquin, L. Johnston, M. Damarla, R.L. Damico, P.M. Hassoun, T.M. Kolb, Baltimore, MD, p.A5111

1007 Reduced BMPR2 Signaling Impairs Right Ventricular Heart Function and Exaggerates Cardiac Fibrosis Upon Chronic Pressure Overload/M. Boehm, X. Tian, M. Zhao, S. Dannewitz, J. Kuang, K. Kuramoto, S. Reddy, D. Bernstein, E. Ashley, E. Spiekeroetter, Stanford, CA, p.A5112

1008 Endothelial Cell Hypoxia-Inducible Factor (HIF) Activity Is Necessary for Right Ventricular Remodeling in a Murine Model of Chronic-Hypoxic Pulmonary Hypertension/T.M. Kolb, B.D. Singer, F.R. D'Alessio, M. Damarla, R.L. Damico, P.M. Hassoun, G. Semenza, L. Shimoda, Baltimore, MD, p.A5113



- 1009** **Tricuspid Regurgitation Velocity Versus Right Ventricular Systolic Pressure in Echocardiographic Diagnosis of Pulmonary Hypertension**/G. Agmy, R. Dweik, A. Tonelli, O. ElShinawy, L. Shahban, M. Ahmed, Assiut, Egypt, p.A5114
- 1010** **ECG Changes of Right Ventricular Strain Do Not Predict Hemodynamic or Clinical Improvement in Patients Undergoing Pulmonary Thromboendarterectomy**/F. Raza, H. Al-Maluli, A. Vaidya, F. Rogers, P. Forfia, Philadelphia, PA, p.A5115
- 1011** **The Impact of Right Ventricular Dysfunction on Six Minute Walk Distance and Hospitalization Rate in Liver Transplant Candidates**/F.J. Mao, K. Forde, M.J. Krowka, K. Krok, M. Patel, M. Sprys, G. Lin, J.K. Oh, M.B. Fallon, S.M. Kawut, Philadelphia, PA, p.A5116
- 1012** **Echo and Magnetic Resonance Imaging in Pulmonary Hypertension: The Relationship of 2 Dimensional -Speckle Tracking Echocardiography Strain Rate and Magnetic Resonance Ejection Fraction of the Right Ventricle**/T. Crowe, G. Jayasekera, A. Mackenzie, M. Brewis, C. Church, M. Johnson, P. Sonecki, A. Peacock, Glasgow, United Kingdom, p.A5117
- 1013** **Regional Heterogeneity of the Right Ventricle in Systemic Sclerosis Versus Idiopathic Pulmonary Arterial Hypertension**/M. Mukherjee, V. Mercurio, R. Tedford, A.A. Shah, R.L. Damico, S. Hsu, T.M. Kolb, S. Mathai, P.M. Hassoun, Baltimore, MD, p.A5118
- 1014** **The Effect of Upfront Combination Therapy on Right Ventricular Volumes in Patients with Pulmonary Arterial Hypertension**/A.E. Huis in 't Veld, M. Van De Veerdonk, J.T. Marcus, H.J. Bogaard, A. Vonk Noordegraaf, Amsterdam, Netherlands, p.A5119
- 1015** **Pulmonary Artery Stiffness Is Associated with Right Ventricular Fibrosis on Magnetic Resonance Imaging in Veterans with Pulmonary Hypertension**/S. Abbasi, R. Hebel, A. Vang, W.-C. Wu, M. Jankowich, G. Choudhary, Providence, RI, p.A5120
- 1016** **Right Ventricular Ejection Doppler Envelope by Echo Characterizes PA Hemodynamics in Portopulmonary Hypertension**/S. Mirza, M. Krowka, G. Kane, Rochester, MN, p.A5121
- 1017** **Pharmacological Inhibition of mTOR Kinase Selectively Suppresses RV-Specific Activation of mTORC1 Signaling, Reverses RV Remodeling and Improves RV Morphology and Function in Rats with Established PH**/A. Pena, A. Kobir, D. Goncharov, A. Goda, A. Delgado-Montero, B. Tayal, R. Vanderpool, J. Baust, B. Chang, A.L. Mora, J. Gorcsan, E.A. Goncharova, Pittsburgh, PA, p.A5122
- 1018** **Two-Dimensional Speckle Tracking Echocardiography Is Sensitive for Early Detection of Right Ventricle Pathological Dysfunction**/A. Yuan, H. Li, S. Yang, H. Zheng, X. Zeng, Z. Jing, X. Wang, Beijing, China, p.A7653
- 1019** **Potential for Recovery of Right Ventricular Function After Postnatal Hyperoxia Exposure**/K.N. Goss, S. Kumari, L. Tetri, R.K. Braun, T.A. Hacker, M. Eldridge, Madison, WI, p.A7654

RAPID: RAPID ABSTRACT POSTER DISCUSSION

C28 FROM TARGETS TO THERAPIES IN FIBROSIS

9:15 a.m. - 11:15 a.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 3-4 (Level M2)

Abstract Summaries

9:15-9:45

Poster Viewing/Discussion

9:45-11:15

Chairing: E. Herzog, MD, PhD, New Haven, CT
K. Atabai, MD, San Francisco, CA
K.K. Kim, MD, Ann Arbor, MI

- 901** **Search for Fibrogenic Mesenchymal Progenitor Cells in Idiopathic Pulmonary Fibrosis Through Single-Cell RNA-Seq**/D. Beisang, K. Smith, A. Gilbertson, P. Bitterman, Minneapolis, MN, p.A5123
- 902** **Pulmonary Fibrosis Following Targeted Type II Alveolar Epithelial Cell Injury Requires the Somatostatin B Binding Function of Plasminogen Activator Inhibitor-1 but Not Vitronectin**/J.A. Roussey, N. Subbotina, M. Dotson, A. Virk, J.J. Osterholzer, T. Sisson, Ann Arbor, MI, p.A5124
- 903** **Telomerase Reverse Transcriptase Deficiency in Type II Alveolar Epithelial Cells Enhanced Bleomycin-Induced Pulmonary Fibrosis**/T. Liu, F. Gonzalez De Los Santos, Z. Wu, Y. Zhao, S.H. Phan, Ann Arbor, MI, p.A5125
- 904** **Mice with Mutant E1A-Binding Protein-300 kD (p300(S89A)) Are Protected from Bleomycin-Induced Lung Fibrosis**/M. Sunohara, T. Sasaki, P. Flodby, B. Zhou, E.D. Crandall, M. Kahn, Z. Borok, Los Angeles, CA, p.A5126
- 905** **Prospective Identification and Characterization of Different Kinds of Mouse Lung Fibroblasts**/S. Matsushima, T. Akamatsu, Y. Enomoto, S. Meguro, H. Kawasaki, I. Kosugi, N. Enomoto, T. Fujisawa, Y. Nakamura, N. Inui, T. Iwashita, T. Suda, Hamamatsu, Japan, p.A5127
- 906** **KIF5A Enhances Collagen Secretion During Mesenchymal Transition of Human Pleural Mesothelial Cells**/Y. Tsukasaki, H. Kamata, T. Sakai, R. Ikebe, J. Wang, A. Jeffers, J. Boren, S. Owens, M. Higashihara, S. Idell, T.A. Tucker, M. Ikebe, Tyler, TX, p.A5128
- 907** **S100A4 Is Necessary for Lung Mesenchymal Progenitor Cell Fibrogenicity in IPF**/C.A. Henke, H. Xia, A. Gilbertsen, J. Herrera, E. Racila, K. Smith, T. Griffin, A. Benyumov, L. Yang, P. Bitterman, Minneapolis, MN, p.A5129
- 908** **Activated Human T Lymphocytes Inhibit TGF β -Induced Fibroblast to Myofibroblast Differentiation Via Prostaglandins E2 and D2**/S.H. Lacy, A.P. Epa, S. Pollock, T.H. Thatcher, C. Woeller, R.P. Phipps, P.J. Sime, Rochester, NY, p.A5130
- 909** **C/EBP Homologous Protein (CHOP) Regulates Pulmonary Fibrosis Following Repetitive Bleomycin Treatment**/H. Tanjore, A. Burman, S. Taylor, W. Lawson, T.S. Blackwell, Nashville, TN, p.A5131



- 910 Functional Role of Integrin Alpha 8 in PDGFRb+ Cells in Mouse Model of Lung Fibrosis/C.F. Hung, C. Wilson, Y.-H. Chow, L.M. Schnapp, Seattle, WA, p.A5132**
- 911 DUSP1 Inhibition Impairs Fibrosis Development by Altering Macrophage Programming/E.F. Redente, B.P. Black, M.A. Aguilar, D.W.H. Riches, Denver, CO, p.A5133**
- 912 Inhalation of Stem Cell-Secreted Factors Mitigates Disease and Promotes Regeneration in a Rodent Model of Pulmonary Fibrosis/P.-U. Dinh, J. Cores, M.T. Hensley, A. Vandergriff, J. Tang, T. Allen, M. Goshe, T. Caranasos, L.J. Lobo, K. Adler, K. Cheng, Raleigh, NC, p.A5134**
- 913 Inhibition of Lung Fibrosis by INS1009, an Inhaled Prodrug Hexadecyl-Treprostinil Formulated in a Lipid Nanoparticle, Administered Therapeutically in Rats/M. Corboz, D. LaSala, J. Zhang, K. DiPetrillo, Z. Li, V. Malinin, J. Brower, T. Barrett, W. Perkins, R. Chapman, Bridgewater, NJ, p.A5135**
- 914 Glycolysis-Induced Transglutaminase 2 Regulates Tissue Fibrosis in Pulmonary Hypertension/K.C. Penumatsa, M.E. Kharnaf, R. Warburton, D. Toksoz, C. Khsola, I.R. Preston, N.S. Hill, B.L. Fanburg, Boston, MA, p.A5136**
- 915 Delivery of IL-10 Using a Novel High Molecular Weight Hyaluronan Vehicle Reduces Lung Fibrosis in a Bleomycin Mouse Model of Lung Injury/E. Shamskhov, M. Orcholski, G. Kaber, K. Yuan, B. Danielson, H. Chapman, M. Nicolls, P. Bollyky, V. De Jesus Perez, Stanford, CA, p.A5137**
- 916 Alveolar Type 2 Cell Dynamics and Long-Term Effect of Allogenic Alveolar Type 2 Cell Transplantation in Murine Bleomycin-Induced Lung Injury/K. Hasegawa, A. Sato, S. Sato, K. Tanimura, K. Uemasu, Y. Hamakawa, S. Muro, Kyoto, Japan, p.A5138**
- 917 Discovery of a Small Molecule Inhibitor of the Wnt Pathway (SM04646) Delivered as an Inhaled Aerosol for the Treatment of Idiopathic Pulmonary Fibrosis (IPF)/B.Y. Tam, E. Creger, K. Chiu, L. Dellamary, S. KC, J. Stewart, V. Deshmukh, B. Hofilena, Y. Yazici, San Diego, CA, p.A5139**
- 918 A Role for Primary Cilia in the Pathogenesis of Pulmonary Fibrosis/S. Garantziotis, C.S. Trempus, Research Triangle Park, NC, p.A5140**
- 919 A New Highly Selective 5-Hydroxytryptamine 2B (5-HT2B) Receptor Antagonist with Anti-Fibrotic Effects in Models of Lung Fibrosis/C. Wenglen, L. Pettersson, H. Aroenius, G. Ekstrom, Lund, Sweden, p.A5141**
- 920 Senescent Lung Fibroblasts Reduce Alveolar Epithelial Cell Number in Co-Culture/E. Fogarty, D. Waters, C. Grainge, J.K. Burgess, C.M. Prele, G. Laurent, G. Westall, M. Schuliga, D. Knight, Newcastle, Australia, p.A5142**
- 921 Assessment of Responsiveness to Anti-Fibrotic Drugs with an Ex-Vivo 3D Pulmosphere Model in Idiopathic Pulmonary Fibrosis/R. Surolia, F. Li, Z. Wang, H. Li, G. Liu, Y. Zhou, T. Luckhardt, S. Bae, R.-M. Liu, S. Rangarajan, J.A. de Andrade, V.J. Thannickal, V.B. Antony, Birmingham, AL, p.A5143**
- 922 Spontaneous Alveolitis and Lung Injury Following Induction of Expression of the Surfactant Protein C Mutant SP-C^{I73T} in the Alveolar Epithelium: An Acute Exacerbation of IPF in Mice?/Y. Tomer, S. Jamil, A. Venosa, M.F. Beers, Philadelphia, PA, p.A5144**
- 923 Building a Better Mousetrap: Tamoxifen Induced Upregulation of the Surfactant Protein C (SFTPC) Mutant SP-C^{I73T} Produces an Idiopathic Pulmonary Fibrosis Lung Phenotype In Vivo/S.-I. Nureki, Y. Tomer, V. Nguyen, S.J. Russo, S. Mulugeta, M.F. Beers, Oita, Japan, p.A5145**
- 924 RNA-Sequencing of Cell Specific Compartments in IPF Formalin-Fixed, Paraffin-Embedded (FFPE) Lung Tissue Using Laser Capture Microdissection Identifies the Gene Expression Patterns of Alveoli and Fibroblast Foci/M. Vukmirovic, A. Fabre, X. Yan, G. Deluliis, T. Woolard, B. Hu, A. Mihaljinec, R. Homer, J.D. Herazo-Maya, F. Ahangari, D. Smart, F. Conforti, B.J. Marshall, A. Alzetani, D.E. Davies, L. Richeldi, N. Kaminski, M.G. Jones, New Haven, CT, p.A5146**
- 925 A New Xenograft Mouse Model for Idiopathic Pulmonary Fibrosis/A. Prasse, B. Jäger, V. Wirtz, S. Rittinghausen, S. Verleden, L. De Sadeleer, W.A. Wuyts, Hannover, Germany, p.A7655**

POSTER DISCUSSION SESSION

C29 ADVANCES IN PULMONARY IMAGING TO STUDY LUNG STRUCTURE AND FUNCTION

9:15 a.m. - 11:15 a.m. MARIOTT MARQUIS WASHINGTON

Marquis Ballroom 1-2 (Level M2)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: G.K. Prisk, DSc, PhD, La Jolla, CA
C. Hsia, MD, Dallas, TX
H.O. Coxson, PhD, Vancouver, Canada

801 Regional Associations Between CT Measures of Airway Structure and Hyperpolarized Helium-3 MRI Measures of Local Bronchodilator Response in Asthma/D. Mummy, T. Lampkins, W. Zha, M.D. Evans, R. Thomen, M. Schiebler, R.L. Sorkness, L.C. Denlinger, N.N. Jarjour, J.C. Woods, M. Castro, S.B. Fain, Madison, WI, p.A5147

802 Probability Mapping of Lung Functional Abnormalities in Asthma Using MRI: Lung Atlas Explorations of Non-Randomness/R.L. Eddy, D.P. Capaldi, K. Sheikh, S. Svenningsen, D.G. McCormack, G. Parraga, London, Canada, p.A5148

803 Patient-Specific Computational Simulations of Hyperpolarized 3He MRI Ventilation Defects in Healthy and Asthmatic Subjects/J.M. Oakes, D. Mummy, W. Zha, S.B. Fain, Boston, MA, p.A5149

804 Regional Comparisons of CT Air Trapping and MRI Ventilation Defect Percent in Asthma/V. Zavaletta, D. Mummy, T. Lampkins, W. Zha, M. Schiebler, N.N. Jarjour, L.C. Denlinger, S.B. Fain, Madison, WI, p.A5150

805 Heterogeneous Bronchoconstriction Measured by Ventilation Single Photon Emission Computed Tomography/Computed Tomography (VSPECT/CT) Is Reduced After Treatment in Asthma/C.E. Farrow, F.S. Tang, J.C. Watts, A. Meybody, M. Trifunovic, A. Bertolin, J. Dame Carroll, G.G. King, St. Leonards, Australia, p.A5151



- 806 MRI Measure of Small Airways Dimensions in the Asthmatic Lung/R.V. Cadman, M.D. Evans, R.L. Sorkness, R.F. Lemanske, Jr., N.N. Jarjour, D.J. Jackson, L.C. Denlinger, S.B. Fain, Madison, WI, p.A5152**
- 807 The Use of CT to Characterize Cluster Phenotypes in the Severe Asthma Research Program/A. Trivedi, A. Sheshadri, C. Goss, J. Sieren, M. Escher, R. Schutz, H. Li, K. Schechtman, W.C. Moore, E. Bleecker, E. Hoffman, M. Castro, St. Louis, MO, p.A5153**
- 808 Asthma Phenotypes in Adult Survivors of Premature Birth Using Functional Magnetic Resonance Imaging/A. Bhalla, K. Sheikh, H.M. Young, R.L. Eddy, D.G. McCormack, T.M. Luu, S. Katz, G. Parraga, London, Canada, p.A5154**
- 809 MRI Stratification of COPD Patients for Bronchoscopic Lung Volume Reduction: A Cautionary Note/C.J. Adams, D.P. Capaldi, R. Di Cesare, D.G. McCormack, G. Parraga, London, Canada, p.A5155**
- 810 Computed Tomographic Vascular Pruning Predicts Mortality in Smokers Without Chronic Obstructive Pulmonary Disease/C.E. Come, F.N. Rahaghi, R.K. Putman, R. San Jose Estepar, G. Washko, Boston, MA, p.A5156**
- 811 The Relationship Between Functional Small Airways Disease and Small Airways Pathology in COPD/D.M. Vasilescu, N. Marchetti, C.J. Galban, C. Meldrum, B. Ross, C. Martinez, W.W. Labaki, E. Kazerooni, G.J. Criner, F.J. Martinez, J.C. Hogg, M.K. Han, Vancouver, Canada, p.A5157**
- 812 Stereological Analysis of the Peripheral Lung Anatomy in Patients with Panlobular and Centrilobular Emphysema Using MDCT and microCT/D.M. Vasilescu, D. Kinose, M. Downey, N. Tanabe, A.B. Phillion, S. Verleden, B. Vanaudenaerde, J.D. Cooper, T.-L. Hackett, J.C. Hogg, Vancouver, Canada, p.A5158**
- 813 Gene Expression Signatures of Emphysema and Total Terminal Bronchiole Number in a Cross-Sectional Cohort of COPD: Combining Micro-CT Imaged Tissue Pathology with Transcriptomics/S. Booth, H.-K. Koo, J. Steinkamp, J. Kantrowitz, D.M. Vasilescu, M. Lenburg, J.C. Hogg, A. Spira, T.-L. Hackett, Vancouver, Canada, p.A5159**
- 814 Ventilation Heterogeneity in Smokers Screened for Lung Cancer by Low Dose Chest Computerized Tomography/H. Enuh, L. Mikulic, G. Garrison, C.M. Kinsey, G. Gentchos, K. Meehan, H. Pecott-Grimm, D.A. Kaminsky, Burlington, VT, p.A5160**
- 815 MUC5B Promoter Polymorphism rs35705950 Is Associated with CT Evidence of Interstitial Lung Abnormalities Using Visual Reads from the SPIROMICS Cohort/W. O'Neal, E.A. Hoffman, H. Dang, R.G. Barr, P. Basta, E. Bleecker, R.C. Boucher, R. Bowler, S.A. Christenson, E.E. Carretta, C.M. Doerschuk, M.B. Drummond, M.K. Han, N. Hansel, G. Hawkins, R.J. Kaner, F.J. Martinez, D. Meyers, P.G. Woodruff, V.E. Ortega, D. Couper, J.D. Newell, Chapel Hill, NC, p.A5161**
- 816 Is Ventilation Heterogeneity Related to Quality of Life Scores Post-Radiation Therapy in Non-Small Cell Lung Cancer Patients?/D.P. Capaldi, K. Sheikh, R. Di Cesare, D.A. Palma, G. Parraga, London, Canada, p.A5162**
- 817 A Multi-Parametric Hyperpolarized Gas MR Imaging Map for Prediction and Monitoring of Lung Function Deterioration/H. Hamedani, S. Kadlecsek, Y. Xin, M. Cereda, S. Siddiqui, M. Pourfathi, N. Drachman, M. Rossman, R.R. Rizi, Philadelphia, PA, p.A5163**
- 818 Imaging Intra-Breath Cyclic Changes in Regional Pulmonary Blood Volume: Effect of PEEP, Tidal Volume and Gravity GRAVITY/S. Bayat, L. Porra, L. Broche, L. Degrugilliers, G. Albu, M. Hallback, M. Wallin, W. Habre, Geneva, Switzerland, p.A5164**
- 819 Assessing Airway Remodeling in Asthma and the Response to Allergen Using Optical Coherence Tomography/M.J. Suter, D.C. Adams, A.J. Miller, J.A. Holz, M.V. Szabari, L.P. Hariri, J.L. Cho, R.S. Harris, J.W. Griffith, D.L. Hamilos, A.D. Luster, B.D. Medoff, Boston, MA, p.A5165**
- 820 Investigating Alveolar Mechanics with Time-Resolved Optical Coherence Tomography (OCT) and Intravital Microscopy (IVM) in Rats/C. Schnabel, E. Koch, Dresden, Germany, p.A5166**
- 821 Analyzing Acinar Dynamics at the Micrometer Scale/I. Vogiatzis, Oikonomidis, T.P. Cremona, G. Lovric, M. Stampanoni, J. Schittny, Bern, Switzerland, p.A5167**
- 822 Advanced Pulmonary Imaging Using Whole Body Photon Counting CT: Concepts and Initial Applications/D.L. Levin, A.F. Halaweish, S. Leng, S. Kappler, B. Schmidt, M. Sedlmair, K. Grant, R. Marcus, J.G. Fletcher, E. Ritman, C.H. McCollough, Rochester, MN, p.A5168**
- 823 Static Versus Dynamic PET Scanning for Quantification of Lung Inflammation in Experimental ARDS/A. Braune, T. Kiss, T. Bluth, J. Kotzerke, M. Gama De Abreu, Dresden, Germany, p.A5169**
- 824 Simultaneous Imaging Of Airway Liquid Absorption And Muco-Ciliary Transport Rates with PET/J.G. Venegas, J.L. Herraiz, M. Papisov, E. Lage, A. Santos, M.A. Lessa, S. Weise, C. Kosour, Boston, MA, p.A5170**
- 825 Imaging of Pulmonary Fibrosis with an ImmunoPET Probe Targeting the $\alpha v \beta 6$ Integrin/E. Boros, C.K. Probst, F. Qian, N. Rotile, P. Weinreb, S. Violette, A.M. Tager, P. Caravan, Charlestown, MA, p.A5171**

RAPID: RAPID ABSTRACT POSTER DISCUSSION

C30 LUNG CANCER SCREENING: WHO, WHY, WHERE, AND HOW MUCH

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 206 (South Building, Level 2)

Abstract Summaries 9:15-9:45

Poster Viewing/Discussion 9:45-11:15

Chairing: H.C. Cain, MD, New Haven, CT
H. Kathuria, MD, Boston, MA
D.E. Midthun, MD, Rochester, MN
J.A. Gorden, MD, Seattle, WA



- 601 SNP-Based Risk Score Out Performs a Clinical Model for Dying of Lung Cancer in the NLST-ACRIN Sub-Study (N=10,054)/R.P. Young, F. Duan, E. Greco, R.J. Hopkins, C. Chiles, G.D. Gamble, D. Aberle, Auckland, New Zealand, p.A5172**
- 602 The TREAT Model 2.0: Expanding Lung Cancer Prediction to High-Risk Clinics/A.W. Maiga, S.A. Deppen, S.F. Mercado, J. Blume, M.C. Aldrich, C. Montgomery, L.T. Vaszar, C. Williamson, S.M. Regis, B.J. McKee, J.M. Isbell, O.B. Rickman, R. Pinkerman, E.S. Lambright, J.C. Nesbitt, P.P. Massion, E.J. Grogan, Nashville, TN, p.A5173**
- 603 Lung Cancer Screening and the Effects of Competing Causes of Death in the ACRIN-NLST Sub-Study/R.J. Hopkins, R.P. Young, F. Duan, E. Greco, C. Chiles, D. Aberle, G.D. Gamble, Auckland, New Zealand, p.A5174**
- 604 Integrating Smoking Cessation Counseling and Treatment in a Lung Cancer Screening Program: An Effective Approach to Long-Term Smoking Cessation Success/J.T. Fathi, S.C. Blanshan, A.K. Wilson, C.L. Wilshire, C.R. Gilbert, R.W. Aye, A.S. Farivar, B.E. Louie, E. Vallieres, J.A. Gorden, Seattle, WA, p.A5175**
- 605 The Effects of Lung Cancer Screening Decision Intervention on Patient Knowledge, Intentions to Screen and Decisional Satisfaction/E. Banas, C. Hughes Halbert, L. Dai, N. Tanner, Charleston, SC, p.A5176**
- 606 Evidence of Emphysema in a Cohort of Participants without Symptoms Undergoing Low Dose Chest CT Screening for Lung Cancer/D. Steiger, J. Filopei, M. Siddiqi, R. Yip, D. Yankelevitz, C. Henschke, New York City, NY, p.A5177**
- 607 Lung Cancer Screening with Low Dose CT: Two Year Experience at Providence Veteran Affairs Medical Center/J.V. Baptiste, M. Jankowich, L.L. Nici, Providence, RI, p.A5178**
- 608 The Clinical Benefit and Cost-Effectiveness of Adding a Smoking Cessation Program to a Simulated Lung Cancer Screening Program in Saskatchewan, Canada/R. Bethune, L. Wu, D. Goodridge, C. Hergott, N. Osgood, B. Manns, Y. Tian, T. Sherin, E. Penz, Saskatoon, Canada, p.A5179**
- 609 Lung Cancer Screening with Low-Dose CT: Results in the Setting of Routine Practice at a Public Pulmonology Service in Brazil/M.M.R. Leite, F.M. Svartman, R.S. Gutierrez, A.P.G. Sartori, C.B. Heidtmann, R.L. Targa Ferreira, R.S. Coelho, F.V. Scornavacca, R.D. Marques, C.T.M. Oliveira, M.M. Tedesco, Porto Alegre, Brazil, p.A5180**
- 610 Implementation of a Mobile Lung Cancer Screening Computed Tomography Program at Northern California Federally Qualified Health Centers/M. Khairy, S. Shariff-Marco, I. Cheng, G. Lin, A. Hsing, B. Singh, A. Leung, V.S. Nair, Stanford, CA, p.A5181**
- 611 Gatekeeper Attitudes on Lung Cancer Screening in Underserved Community Health Centers/M. Khairy, S. Shariff-Marco, I. Cheng, A. Hsing, B. Singh, A. Leung, V.S. Nair, Stanford, CA, p.A5182**
- 612 A Clinical Reminder Improves Adherence to Lung Cancer Screening Guidelines/K. Johnson, N. Hughes, B. Williams, R. Beyth, M. Lo, A. Olson, Gainesville, FL, p.A5183**
- 613 Adherence to National Comprehensive Cancer Network Guidelines Within a Veterans' Administration Medical Center Program for Lung Cancer Screening/J.J. Saukkonen, S. Yoon, A. Jati, R. Goldstein, West Roxbury, MA, p.A5184**
- 614 Assessing Knowledge, Barriers, and Facilitators to Lung Cancer Screening Among Primary Care and Pulmonary Providers/M. Triplette, E.K. Kross, B. Mann, J.G. Elmore, C.G. Slatore, S. Shahrir, P.D. Frederick, P.E. Romine, K.A. Crothers, Seattle, WA, p.A5185**
- 615 Implementation Science and Challenges in Lung Cancer Screening: A Critical Review of the Literature/N.M. Rankin, C.G. Slatore, E.C. Stone, Camperdown, Australia, p.A5186**
- 616 Quantitative Global and Lobar Emphysema Score Is Associated with the Development of Lung Cancer and All Cause Mortality in a Large Lung Cancer Screening Cohort/C.F. Stefanescu, G.S. Rizzo, S.M. Regis, B.J. McKee, A.B. McKee, A.S. Patel, B. Wilson, K. Halligan, C. Wald, G. Washko, R. San Jose Estepar, L. Gazourian, Boston, MA, p.A5187**
- 617 Increasing Referrals to a Lung Cancer Screening Program in an Outpatient Clinic/J.T. Moyers, I. Hendrickson, M. Schoepflin-Sanders, Portland, OR, p.A5188**
- 618 Lung and Breast Screening Practices in Women: Targeting Providers to Improve Enrollment in a Clinical Lung Screening Program/C.C. Scott, A.B. Paulson, T.J. Osterman, K.L. Sandler, Nashville, TN, p.A5189**
- 619 Compliance with Lung Cancer Screening Implementation in an Urban Teaching Hospital Internal Medicine Clinic/C. Olazagasti, D. Sampat, J. Filopei, D. Chow, D. Steiger, New York, NY, p.A5190**
- 620 Quantitative Computed Tomography Measures of Body Composition and the Association with the Development of Lung Cancer and Mortality, in a Large Lung Cancer-Screening Cohort/G.S. Rizzo, C.F. Stefanescu, S.M. Regis, B.J. McKee, A.B. McKee, A.S. Patel, B. Wilson, K. Halligan, C. Wald, G. Washko, R. San Jose Estepar, L. Gazourian, Boston, MA, p.A5191**
- 621 Alpha-1 Antitrypsin Patients' Perceptions Regarding Lung Cancer Risk and Screening/S. Kariyawasam, A. Butler, C.B. Strange, D. Kahn, Danbury, CT, p.A5192**
- 622 Early Implementation of Lung Cancer Screening Across Federally Qualified Health Centers (FQHCs) in the U.S./S. Zeliadt, G. Birkby, J.M. Eberth, R. Hoffman, H. Park, E. Trapl, A. Brenner, D. Reuland, C.G. Slatore, S.A. Flocke, Seattle, WA, p.A5193**
- 623 Stratification of NLST-ACRIN Screening Participants Identifies the "Sweet Spot" of Screening by Identifying Early Stage Lung Cancers Most Amenable to Curative Surgery (N=10,054)/R.P. Young, R.J. Hopkins, F. Duan, E. Greco, C. Chiles, D. Aberle, G.D. Gamble, Auckland, New Zealand, p.A7656**



THEMATIC POSTER SESSION

C31 BASIC AND TRANSLATIONAL STUDIES ON THE ROLE OF THE EPITHELIUM

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area N, Hall B-C (Middle Building, Lower Level)

Poster Viewing

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: H. Kage, MD, PhD, Tokyo, Japan

- P1457** **The Role of Notch Signaling During Airway Epithelial Cell Repair After Injury**/T. Iosifidis, E.N. Sutanto, K.-M. Ling, L.W. Garratt, K. Looi, E. Kicic-Starcevic, K.M. Martinovich, N.C. Shaw, S.T. Montgomery, F.J. Lannigan, D. Knight, S. Stick, A. Kicic, Perth, Australia, p.A5194
- P1458** **Solithromycin Attenuates IL-13 Induced Goblet Cell Hyperplasia and MUC5AC Production, and Inhibited CLCA1 Suppression in Normal Human Bronchial Epithelial Cells**/Y. Kimura, M. Shinkai, A. Nagashima, M. Shinoda, T. Shimokawaji, N. Kobayashi, M. Kudo, M. Ikeda, K. Nakashima, H. Watanabe, K. Nagai, H. Nagakura, N. Horita, M. Yamamoto, T. Sato, T. Kaneko, Yokohama, Japan, p.A5195
- P1459** **microRNAs as Potential Epigenetic Targets to Restore the Airway Epithelium Integrity in Asthmatics**/F. Moheimani, T. Williams, J. Koops, A.T. Reid, P.M. Hansbro, P.A. Wark, D. Knight, New Lambton, Australia, p.A5196
- P1460** **The Isoprenoids FPP and GGPP Augment IL13-Induced Eotaxin-3 Production in Human Airway Epithelial Cells: A New Target for Treating Airway Eosinophilia?**/A.A. Zeki, M. Arif, S. Ott, Sacramento, CA, p.A5197
- P1461** **Inhibition of ABCC4 Attenuates Extracellular Cyclic AMP Transport and Pro-Inflammatory Immune Responses in Human Airway Epithelial Cells**/R. Huff, C.F. Rider, D. Yan, R. Newton, M. Giembycz, J.A. Hirota, Vancouver, Canada, p.A5198
- P1462** **The Regulation of IL-13 Signaling Via IL-13 Receptor Subunits in Airway Epithelial Repair**/S.-Y.J. Yang, A. Singh, D.R. Dorscheid, Vancouver, Canada, p.A5199
- P1463** **Bacterial and Viral Infection Enhances sST2 Production by Bronchial Epithelial Cells**/M. Watanabe, K. Nakamoto, M. Sada, S. Takata, T. Inui, T. Yokoyama, T. Saraya, H. Ishii, H. Takizawa, Tokyo, Japan, p.A5200
- P1464** **Exploring of Correlation Factors with Epithelial Cytokines, IL-33, IL-25 and TSLP Expressions in Asthmatic Bronchial Epithelial Cells**/K. Chibana, T. Watanabe, T. Shiobara, Y. Horigane, R. Arai, Y. Shimizu, A. Takemasa, Y. Ishii, Mibu Tochigi, Japan, p.A5201
- P1465** **T16Ainh-A01 Inhibits Airway Mucus Secretion and Goblet Cell Metaplasia in a Guinea Pig Asthma Model**/M. Kondo, K. Hara, M. Tsuji, K. Takeyama, E. Tagaya, J. Tamaoki, Tokyo, Japan, p.A5202

- P1466** **Effect of Clarithromycin on IL-13-Induced Goblet Cell Metaplasia in Guinea Pig Airway Epithelial Cells: Role of TMEM16A**/K. Hara, M. Kondo, M. Tsuji, J. Tamaoki, Tokyo, Japan, p.A5203
- P1467** **Phagocytosis of Organic Dust by Airway Epithelial Cells**/T.K. McGovern, M. Chen, S. Farahnak, K. Larsson, M. Adner, J.G. Martin, Montreal, Canada, p.A5204
- P1468** **Spleen Tyrosine Kinase Induces MUC5AC Expression in Human Airway Epithelial Cell**/Y.-D. Kim, Y.S. Choi, H.G. Na, C.H. Bae, S.-Y. Song, Daegu, Korea, Republic of, p.A5205
- P1469** **Human Airway Epithelial Cells Have Multiple Sources and Stores of the Intracellular Complement Protein C3**/H.S. Kulkarni, M.L. Elvington, M.K. Liszewski, S.L. Brody, J.P. Atkinson, St. Louis, MO, p.A5206
- P1470** **S. Aureus Induction of Hif1 α Drives Airway Epithelial Inflammatory Signaling**/M. Wickersham, A. Jurado, T. Wong, A. Miller, D. Parker, A.S. Prince, New York, NY, p.A5207
- P1471** **Distinct Mechanisms of IL-8 Synthesis by Pediatric Airway Epithelium Elicited by Helicobacter Pylori: Role of NOD1 and NFKappaB**/M.G. Dela Pena-Ponce, J. Ngo, M.T. Jimenez, L.M. Hansen, J.V. Solnick, L.A. Miller, Davis, CA, p.A5208
- P1472** **Absence of Epithelial c-Jun N-Terminal Kinase 1 Protects Against House Dust Mite- Induced Pulmonary Remodeling and Airway Hyper Responsiveness**/J.L. Van Der Velden, K.G. Lahue, R. Aboushousha, R.W. Schneider, C. Irvin, Y.M.W. Janssen-Heininger, Burlington, VT, p.A5209
- P1473** **Dynamic Regulation of Circadian Clock Genes in Chronic Airway Disease**/M. Kenfield, H. Yu, A. Ehlers, W. Xie, S. Gunsten, E. Agapov, A. Horani, M.J. Holtzman, S.L. Brody, J. Haspel, St. Louis, MO, p.A5210
- P1474** **IL-13 Induces a Unique Protein Secretome from Human Airway Epithelial Cells that Modulates Mucus-Related Proteins and Ciliary Motion**/J.L. Everman, L. Ringel, M. Chioccioli, R. Powell, C. Cruickshank-Quinn, R. Herrin, C. Rios, L. Feriani, M. Armstrong, X. Zhang, H.W. Chu, P. Cicuta, N. Reisdorph, M.A. Seibold, Denver, CO, p.A5211
- P1475** **Evaluation of Paraoxonase 2 (PON 2) in Human Bronchial Epithelial Cells (HBEc)**/D.E. Winnica, L. Que, J. Ingram, V. McQuade, F. Holguin, Aurora, CO, p.A5212
- P1476** **The Neurotrophin 4 - Pulmonary Neuroendocrine Cell Axis in Early Life Allergen-Induced Mucus Overproduction**/X. Ai, J. Barrios, L. Aven, R. Achey, S.H. Randell, J.-A. Park, L.A. Miller, Boston, MA, p.A5213
- P1477** **Epithelial Membrane Protein 2 Regulates Transepithelial Migration of Neutrophils into the Inflamed Airspace**/W.-C. Lin, K. Gowdy, J. Madenspacher, M. Lyons-Cohen, H. Nakano, D. Cook, J.P. Mizgerd, C. Williams, M.B. Fessler, Research Triangle Park, NC, p.A5214
- P1478** **Novel Role for Protein Kinase D in Regulating Airway Epithelial Cytokine Secretion and Barrier Integrity**/J. Veazey, T. Chapman, T. Smyth, S. Hillman, S. Georas, Rochester, NY, p.A5215



- P1479 Normal Human Bronchial Epithelium Release Tissue Factor Via ERK1/2 in Response to Lipopolysaccharide Stimulation/M.D. Davis, K. Komiya, T. Akaba, B.K. Rubin, Richmond, VA, p.A5216**
- P1480 Role of Spleen Tyrosine Kinase (SYK) in the Airway Epithelium in Asthma/A. Martinez-Anton, D. Gras, C. Garulli, P. Dubreuil, P. Chanez, Marseille, France, p.A5217**
- P1481 Loss of Miz1 Function in the Lung Epithelium Is Sufficient to Induce Emphysema/C. Chen, H.C. Do-Umehara, Q. Zhang, M. Matsuda, M. Sala, A.V. Misharin, H. Abdala-Valencia, P.A. Reyfman, K. Reddy Anekalla, J. Yu, F. Gonzalez, H. Perlman, P.H. Sporn, K.M. Ridge, N.S. Chandel, I. Petrache, R. Tudor, J.I. Sznajder, S. Budinger, J. Liu, Chicago, IL, p.A7657**
- P1482 Differential DNA Methylation in Bronchial Biopsies Between Persistent Asthmatics and Subjects in Asthma Remission/C.J. Vermeulen, J.M. Vonk, G.H. Koppelman, D.S. Postma, C.-J. Xu, N.H.T. Ten Hacken, W. Timens, I.H. Heijink, M. Nawijn, A. Van Oosterhout, K. Affleck, M. van den Berge, Groningen, Netherlands, p.A7658**

THEMATIC POSTER SESSION

C32 LUNG INJURY, ARDS, AND SEPSIS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area D, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

- P353 Optimization of a Protocol for Quantification of the Innate Immune Response in Human Whole Blood/T.A. Ajayi, K. Gabor, P. Rai, M.B. Fessler, Research Triangle Park, NC, p.A5218**
- P354 MKP-1 Regulates LPS-Mediated IL-1A? Production Through p38 Activation and HIF-1 α Expression/C.P. Bauerfeld, H. Talwar, L. Samavati, Detroit, MI, p.A5219**
- P355 Pulmonary Neutrophils of SP-D Deficient Mice Generate Increased Reactive Oxygen Species (ROS) and Neutrophil Extracellular Traps/M.A. Khan, P. Djiadeu, A. Rajkumar, C. Sobchak, D. Douda, L. Yip, S. Hawgood, H. Grasmann, N. Swezey, N. Palaniyar, Toronto, Canada, p.A5220**
- P356 JNK Regulates LPS- and Gram-Negative Bacteria-Mediated NADPH Oxidase-Dependent NETosis/M.A. Khan, A. Farahvash, D. Douda, J.-C. Licht, H. Grasmann, N. Swezey, N. Palaniyar, Toronto, Canada, p.A5221**
- P357 Type 2 Inflammatory Responses Protect Against Lethal Staphylococcus Aureus Infection/P. Krishack, A.I. Sperling, P.A. Verhoef, Chicago, IL, p.A5222**
- P358 Whole Blood miR-181a, miR-92a, and miR-424 Are Risk Factors of Acute Respiratory Distress Syndrome/Z. Zhu, L. Liang, R. Zhang, Y. Wei, L. Su, P. Tejera, Z. Wang, Q. Lu, A. Baccarelli, X. Zhu, E. Bajwa, B.T. Thompson, D.C. Christiani, Boston, MA, p.A5223**
- P359 An Early M1-Like Transcriptional Program in Alveolar Macrophages Is Associated with Good Outcomes in Acute Respiratory Distress Syndrome/E.D. Morrell, S.A. Gharib, F. Radella, R.D. Stapleton, M.M. Wurfel, Seattle, WA, p.A5224**
- P360 Variants in T_H17-Related Immune Genes and Risk for ARDS and Related Outcomes/M.L. Cohen, C. Mikacenic, J.D. Christie, C.S. Calfee, M.A. Matthay, N.J. Meyer, X. Lin, D.C. Christiani, M.M. Wurfel, Seattle, WA, p.A5225**
- P361 The Effect of Low Dose Diagnostic Level Radiation on the Lung and Spleen in an In Vivo Model/S. Muise, S. Puukila, J. McEvoy, A. Hooker, T. Bouchier, D. Boreham, D.-L. Dixon, Hamilton, Canada, p.A5226**
- P362 Age-Associated Changes in the Kidney in a Rodent Model of Pneumonia/H.M. Linge, K. Ochani, K. Lin, J.Y. Lee, M. Tembhre, A. Malhotra, P.C. Singhal, S.F. Liu, E.J. Miller, Lund, Sweden, p.A5227**
- P363 Particulate Matter-Induced Pulmonary Injury Via Egr-1/Necroptosis Pathway Leading to NF- κ B and AP-1 Activation/F. Xu, Z. Chen, H. Shen, HangZhou, China, p.A5228**
- P364 Inhibition of iNOS Prevents Atherosclerotic Plaque Destabilization Related to LPS Lung Exposure: Results of Novel 3D OPT Imaging/K. Moritani, D. Jaw, Y. Oh, J. Schipilow, N. Ford, S.P. Man, D.D. Sin, Vancouver, Canada, p.A5229**
- P365 LPS Lung Exposure Increases Oxidative Stress in Atherosclerotic Plaques of Apolipoprotein-E Deficient Mice, Leading to Plaque Rupture/J.E. Jaw, K. Moritani, Y. Oh, S.P. Man, D.D. Sin, Vancouver, Canada, p.A5230**
- P366 Identification of a Region Within the Thrombospondin-1 Type III Domain with Inhibitory Activity Against Pseudomonas Aeruginosa Elastase Activity/W. Bain, J. Darell, T. Olonisakin, Y. Qu, J.M. Pilewski, J. Lee, Pittsburgh, PA, p.A5231**
- P367 Innate Host Factors Present in Serum of Healthy Volunteers Control Growth of Carbapenemase-Producing Klebsiella Pneumoniae/T. Olonisakin, W. Bain, H. Li, Z. Xiong, M. Yu, Y. Qu, M. Hulver, Y. Doi, J. Lee, Pittsburgh, PA, p.A5232**
- P368 The Effects of Inhaled Glucocorticoids on Growth of Pseudomonas Aeruginosa/Y.J. Huang, L. Begley, Ann Arbor, MI, p.A5233**
- P369 RNF113A Regulates CXCR4/SDF-1 Signaling Through CXCR4 Ubiquitination and Degradation/T. Lear, S. Dunn, A. McKelvey, J. Evankovich, Y. Liu, B. Chen, Pittsburgh, PA, p.A5234**
- P370 Early Vascular Events Are Associated with Development of ARDS/R.E. Abdulnour, T. Gunderson, I. Barkas, J.Y. Timmons, C. Barnig, M.N. Gong, D.J. Kor, O. Gajic, D. Talmor, R. Carter, B.D. Levy, Boston, MA, p.A7659**
- P371 The Role of IL-33 in Hyperoxia-Induced Lung Injury and BPD/L.C. Eldredge, R.S. Creasy, F. Roan, S.F. Ziegler, Seattle, WA, p.A7660**



THEMATIC POSTER SESSION

C33 NOVEL BIOMARKERS IN LUNG DISEASE

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area N, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

- P1484** **Fluctuation Patterns of Clinical Markers in Asthmatic and Healthy Subjects Challenged with Rhinovirus Reveal Unique Differences/A.** Sinha, X. Binbin, V. Leoni, E.D. Eckert, U. Frey, R. Lutter, P.J. Sterk, Amsterdam, Netherlands, p.A5235
- P1485** **Aspergillus Fumigatus Alkaline Protease, Alp1 (Asp f13) as a Biomarker for Severe Asthma/T.** Basu, K.M. Druey, Bethesda, MD, p.A5236
- P1486** **CXCL10 and Severe Asthma, a Possible Agent for Steroid Insensitivity/M.** Gauthier, M. Raundhal, T.B. Oriss, P. Ray, S.E. Wenzel, A. Ray, Pittsburgh, PA, p.A5237
- P1487** **ASC: A Novel Marker for Inflammation in Bronchoalveolar Lavage Fluid/C.M.** Risaliti, S. Mitra, J.B. Torrelles, L. Alghothani, S.J. Campbell, M.D. Wewers, Columbus, OH, p.A5238
- P1488** **High Sputum DNA Concentrations in a Subset of Asthmatics with Neutrophilic Inflammation Is Associated with More Severe Morbidity/E.M.** Dunican, S. Kerr, M. Peters, S.A. Comhair, M.L. Fajt, A. Coverstone, A.T. Hastie, M.W. Johansson, B.D. Levy, J.V. Fahy, San Francisco, CA, p.A5239
- P1489** **Exploration of Plasma Metabolomics Profiles in Adult and Elderly Asthma/S.-H. Kim, B.-K. Kim, W.-J. Song, H.-W. Park, B.-S. Kim, H. Chung, Y.-S. Chang, M.-H. Nam, Seongnam, Korea, Republic of, p.A5240**
- P1490** **Sputum IL-17A Levels Correlate with Biomarkers of Non-Eosinophilic Inflammation in Patients with Asthma/G.** Hynes, S. Go, S.J. Thulborn, C. Borg, C. Connolly, R. Shrimanker, L. Xue, M. Bafadhel, I. Pavord, Oxford, United Kingdom, p.A5241
- P1491** **Identification of IL-17F/Frequent Exacerbator Endotype in Asthma/F.L.M.** Ricciardolo, A. Folino, F. Gallo, G. Ciprandi, A. Di Stefano, Orbassano (Torino), Italy, p.A5242
- P1492** **Impaired Fibrinolysis and Lower Levels of Plasma α_2 -Macroglobulin Are Associated with an Increased Risk of Severe Asthma Exacerbations/S.** Bazan-Socha, L. Mastalerz, A. Cybulska, L. Zareba, R. Kremers, M. Zabczyk, G. Pulka, T. Iwaniec, C. Hemker, A. Undas, Krakow, Poland, p.A5243
- P1493** **Elevation of Interleukin-33 and Thymic Stromal Lymphopoietin Levels in the lungs of Idiopathic Pulmonary Fibrosis/J.S.** Park, J.U. Lee, H.S. Chang, Y.J. Cho, S.T. Uh, Y.H. Kim, C.S. Park, Bucheon, Korea, Republic of, p.A5244
- P1494** **How to Approach Eosinophilic Versus Non-Eosinophilic Asthma in Clinical Practice Using Biomarkers?/S.** Demarche, F. Schleich, M. Henket, V. Paulus, T. Van Hees, R. Louis, Liege, Belgium, p.A5245

- P1495** **Distribution of Th2 Biomarkers in Severe Asthma Cohort/H.** Mullerova, N. Gunsoy, J.-Y. Shin, S. Bates, F.C. Albers, Uxbridge, United Kingdom, p.A5246
- P1496** **α -Val⁵⁴¹ a Novel Biomarker of Proteinase 3 Activity/P.R.** Newby, R.I. Carter, R.A. Stockley, Birmingham, United Kingdom, p.A5247
- P1497** **Sputum but Not Circulating Autoantibodies Associated with Exacerbations Risk in Patients with Chronic Obstructive Pulmonary Disease/Z.** Liang, F. Long, K. Deng, W. Jian, L. Zhou, J. Zheng, S. Huang, D. Cui, S. Jin, Y. Gao, M. Jiang, M.R. Stampfli, Q. Luo, T. Peng, R. Chen, Guangzhou, China, p.A5248
- P1498** **YKL-40 as a Biomarker of Airway Disease in Severe Asthma/M.M.T.C.** Cortez e Castro, G. Lockett, L. Lau, P. Howarth, J. Holloway, Lisbon, Portugal, p.A5249
- P1499** **Optimization of Innovative Airway Sampling for Biomarker Analyses: Nasosorption Analytical Methods Development/F.** Cai, T. Davancaze, K. Peng, J. Wang, M. Bremer, T. Staton, R. Erickson, V. Anania, K. Loyet, A. Au-Yeung, A. Morimoto, H. Scheerens, South San Francisco, CA, p.A5250
- P1500** **Evaluation of Systemic RANTES/CCL5 as a Possible Biomarker in Stable COPD Subjects/K.** Balestrini, A.M. Guerrero, M.D. Schweitzer, B. Masters, M. Latterich, L.V. Luna Diaz, L.A. Escobar, V. Bagley, M. Mirsaeidi, G. Holt, R. Calderon, M. Campos, Miami, FL, p.A5251
- P1501** **Serum Angiopoietin-2 Can Be a Biomarker in Acute Exacerbation of Interstitial Pneumonia/T.** Tateishi, T. Fujie, H. Saito, Y. Miyazaki, N. Inase, Tokyo, Japan, p.A5252
- P1502** **Molecular Alterations Across Multiple Tissues in Pulmonary Alveolar Proteinosis Patients Share Commonalities with Immune Related Lung and Autoimmune Disorders/S.** Sridhar, A. Malur, E. Grant, M.A. Michaels, H. Liu, P. Ryan, M. Kavuru, M.J. Thomassen, Gaithersburg, MD, p.A5253

THEMATIC POSTER SESSION

C34 MECHANISMS OF HOST DEFENSE IN BACTERIAL AND FUNGAL INFECTIONS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area E, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

- P525** **The Programmed Cell Death-1 Signaling Pathway in Chronic Pulmonary Fungal Infection/J.A.** Roussey, S.P. Viglianti, S. Teitz-Tennenbaum, J.J. Osterholzer, Ann Arbor, MI, p.A5254
- P526** **Targeted Blockade of the Programmed Cell Death-1 Receptor Improves Fungal Clearance in a Murine Model of Persistent Cryptococcal Lung Infection/J.A.** Roussey, S.P. Viglianti, S. Teitz-Tennenbaum, J.J. Osterholzer, Ann Arbor, MI, p.A5255



- P527** Human HIV1-Infection Is Associated with Reprogramming of Alveolar Macrophages Despite Systemic Control of Infection with Anti-Retroviral Therapy/E. Ucisik-Akkaya, J. Salit, S.A. Shenoy, Y. Strulovici-Barel, R.J. Kaner, S. O'Beirne, R.G. Crystal, New York, NY, p.A5256
- P528** Acutely Lethal H1N1 Influenza A Virus Infection Impacts Alveolar Type II Cell Mitochondrial Structure and Function in Mice/L.M. Doolittle, A. Bercz, E. Calomeni, D. Guttridge, I.C. Davis, Columbus, OH, p.A5257
- P529** Modulation of Nucleotide-Binding Oligomerization Domain Containing 2 (NOD2) Signaling Via a Heterozygous Knock-Out Mouse Model Provides Protection from Influenza A Virus Infection/K. Wiese, C.M. Koch, B.M. Coates, K.M. Ridge, Chicago, IL, p.A5258
- P530** EphA2 Deficiency Lessens MRSA Induced Pleural Necroptosis in Empyema/K.A. Mohammed, T. Ganguly, P.S. Sriram, W. Clapp, N. Nasreen, Gainesville, FL, p.A5259
- P531** The Mito-DAMP Cardiolipin Blocks IL-10 Production Resulting In Non-Resolving Bacterial Pneumonia/K. Chakraborty, Pittsburgh, PA, p.A5260
- P532** Suppression of Anti-Viral Responses in Lung Epithelial Cells Exposed to Tobacco Smoke Is Mediated Through the Aryl Hydrocarbon Receptor/P.F. Duffney, C.E. McCarthy, T.H. Thatcher, R.P. Phipps, P.J. Sime, Rochester, NY, p.A5261
- P533** IL-11 Is Required for Neutrophil Recruitment and Lung Protection During Pneumonia/K.E. Traber, E.M. Symer, Y. Kim, M.R. Jones, J.P. Mizgerd, L.J. Quinton, Boston, MA, p.A5262
- P534** Role of the IL-22 Binding Protein During Acute and Chronic Lung Infection/G. Trevejo-Nunez, K. Chen, J.K. Kolls, Pittsburgh, PA, p.A5263
- P535** Hypercapnia Decreases Antiviral Proteins and Increases Viral Replication in Macrophages Infected with Influenza A Virus Through an Akt Dependent Mechanism/M. Casalino-Matsuda, F. Gonzalez, M. Chi, A. Nair, K.L. Gates, S. Budinger, P.H. Sporn, Chicago, IL, p.A5264
- P536** RIG-I Knockout or Overexpression Enhances Survival in Influenza Virus Infection/W. Wu, X. Wang, W. Zhang, J.L. Booth, E. Duggan, S. More, L. Liu, M.-H. Zou, J. Metcalf, Oklahoma City, OK, p.A5265
- P537** Sensing of Apoptotic Cells Via Axl Kinase Triggers Cell Cycle Re-Entry of Airway Basal Cells in Mice/N. Fujino, T. Fujimori, A. Grabiec, R.A. Maciewicz, T. Hussell, Manchester, United Kingdom, p.A5266
- P538** Impact of Age, SP-A Gene Variant, and Oxidative Stress on Susceptibility of Mice After Klebsiella Pneumoniae Infection/N. Thorenoor, X. Zhang, T.M. Umstead, D.S. Phelps, J. Floros, Hershey, PA, p.A5267
- P539** Nanotubes Suppress the Pulmonary Immune Response and Increase Viral Infectivity of Exposed Mice/T. Sabo-Attwood, S. Humes, J. Lednicki, H. Chen, Gainesville, FL, p.A5268
- P540** Ubiquitination of the Interferon Gamma Receptor Alters IFN Gamma Signaling/J.D. Londino, D. Gulick, R. Mallampalli, Pittsburgh, PA, p.A5269
- P541** Escherichia Coli- and Staphylococcus Aureus-Derived Extracellular Vesicles Induce MUC5AC Expression Via ERK1/2 and p38 MAPK in Human Airway Epithelial Cells/Y.S. Choi, Y.-D. Kim, C.H. Bae, S.-Y. Song, Daegu, Korea, Republic of, p.A5270
- P542** Antiviral Efficacy of Rupintrivir and Oseltamivir in Human In Vitro Nasal Epithelia/S. Constant, B. Boda, S. Benaoudia, R. Bonfante, L. Kaiser, C. Tapparel, L. Wiszniewski, S. Huang, Plan-les-Ouates, Switzerland, p.A5271
- P543** Cigarette Smoke Enhances HIV-1 Infection of NHBE Cells and Suppresses CFTR Function/H.J. Unwalla, S. Chinnapaiyan, R. Dutta, M. Nair, A.M. Morris, Miami, FL, p.A5272
- P544** The Microbiome, Staphylococcus in Human Nasal Mucosa Can Enhance Type III Interferon-Related Immune Responses Against Influenza Viral Infection/H.J. Kim, S.W. Cho, H. Kim, Seoul, Korea, Republic of, p.A5273
- P545** Micro-RNA 216a Mediated Post-Transcriptional Regulation of Bone Morphogenetic Protein Receptor 2 Expression in Cocaine and HIV Tat Exposed Pulmonary Smooth Muscle Cells/M. Chinnappan, P. Dalvi, N.K. Dhillon, Kansas City, KS, p.A5274
- P546** The Airway Surface Liquid of Large and Small Airways Have Different Antimicrobial Activity/J. Noriega, L.G. Vargas Buonfiglio, X. Li, J. Zabner, A.P. Comellas, Iowa City, IA, p.A5275
- P547** The Effect of Corticosteroids on Internalisation of Non-Typeable Haemophilus Influenzae Into Epithelial Cells/J.L. Cane, L.J. Tregidgo, S.J. Thulborn, M. Bafadhel, Oxford, United Kingdom, p.A5276
- P548** The Role of Heme Uptake in Invasive Pulmonary Aspergillosis/K. Michels, Z. Zhang, R.E. Cagnina, M. Burdick, B. Mehrad, Charlottesville, VA, p.A5277
- P549** Early Life Respiratory Bacterial Infection-Induced Chronic Lung Disease Is Driven by a Novel TLR2/IL-13/miR-21/PI3K Signaling Pathway/M.R. Starkey, D.H. Nguyen, R.Y. Kim, P.M. Nair, T.J. Haw, J.C. Horvat, D.I. Godfrey, A. McKenzie, P.M. Hansbro, New Lambton Heights, Australia, p.A5278
- P550** Lung Infections in Severe Combined Immunodeficient (SCID) Rabbits/J. Song, D. Yang, J. Zhang, Y.E. Chen, J. Xu, Ann Arbor, MI, p.A5279
- P551** Regulatory T Cell Subsets Have Distinct Roles in Modulating the Immune Response to Influenza/J. Griffith, K. Nepal, M. Jones, L. Faustino, A.D. Luster, Boston, MA, p.A7661

THEMATIC POSTER SESSION

C35 ASTHMA AND ALLERGY CELLULAR INVESTIGATIONS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area K, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
 12:00-1:00: authors will be present for discussion with assigned facilitators



Facilitator: Y. To, MD, PhD, Tokyo, Japan

- P981 Lobular Heterogeneity in Inflammation and Cytokine Profile in Mouse Models of Allergic Airway Disease/K. Asosingh, N. Wanner, K. Queisser, K. Weiss, S.C. Erzurum, Cleveland, OH, p.A5280**
- P982 ArhGEF12 Is Necessary for TNF α -Induced RhoA Activation in Airway Smooth Muscle/V. Fong, A. Hsu, P. Ganesan, A. Grzegorzewska, X. Huang, D. Sheppard, M. Bhattacharya, San Francisco, CA, p.A5281**
- P983 Muscarinic M3 Receptor Blockage Inhibits the Development of M2 Macrophages in Allergic Inflammation/M. Jinno, S. Ohta, A. Tanaka, H. Satou, T. Uno, A. Fujiwara, Y. Uchida, R. Manabe, N. Kuwahara, K. Hirai, Y. Miyata, M. Yamaguchi, T. Homma, M. Yamamoto, T. Yokoe, H. Sagara, Tokyo, Japan, p.A5282**
- P984 Type 2 Innate Lymphoid Cells Up-Regulate DR3 Expression Upon Stimulation with IL-2/K. Machida, A. Baatjes, G.M. Gauvreau, R. Sehmi, P.M. O'Byrne, Hamilton, Canada, p.A5283**
- P985 The Activation of Pulmonary Type2 Innate Lymphoid Cells Through Toll-Like Receptors/T. Ishii, K. Hosoki, Y. Niikura, T. Nagase, N. Yamashita, Tokyo, Japan, p.A5284**
- P986 Human β -Defensin-3 Induces IL-8 Release and Apoptosis in Airway Smooth Muscle Cells/W. Wang, X. Qu, X. Dang, D. Shang, L. Yang, Y. Li, D. Xu, J.G. Matin, Q. Hamid, J. Liu, Y. Chang, Xi'an, China, p.A5285**
- P987 New Role of Adult Lung c-kit⁺ Cells in a Mouse Model of Airway Hyperresponsiveness/G. Spaziano, D. Cappetta, K. Urbanek, E. Piegari, G. Tartaglione, G. Esposito, F. Rossi, A. De Angelis, B. D'Agostino, Naples, Italy, p.A5286**
- P988 Functional Investigations of the Role of Thymic Stromal Lymphopoietin in Asthma/G. Nicolaou, J. Parker, W. Cookson, M. Moffatt, London, United Kingdom, p.A5287**
- P989 Determinants of Rhinovirus and Nucleic Acid Induced Cytokine Production in a Large Group of Healthy and Asthmatic Individuals/J.W. Upham, L. Murray, Y. Xi, J. Revez, M. Ferreira, Brisbane, Australia, p.A5288**
- P990 Modulation of Hyaluronan Deposition and Leukocyte Adhesion by Nitric Oxide/A. Majors, R. Chakravarti, D. Stuehr, L. Ruple, S. Erzurum, A.J. Janocha, M. Aronica, Cleveland, OH, p.A5289**
- P991 Antagonism of the TMEM16A Calcium-Activated Chloride Channel Attenuates Allergic Lung Inflammation/J. Danielsson, M. Mikami, C.W. Emala, New York, NY, p.A5290**
- P992 Alternative Activation of Peripheral Blood-Derived Macrophages Inhibits Rhinovirus- Induced CXCL10 Production/M. Walsh, C. Rajput, J.K. Bentley, T.C. Lewis, M.B. Hershenson, Ann Arbor, MI, p.A5291**
- P993 USP21and PIM2 Regulate the Function of Regulatory T Cells in Asthma/T. Chen, Shanghai, China, p.A5292**
- P994 Sex Differences in the Pulmonary Response to Ozone: Role of the IL-33/D. Kasahara, Y. Cho, T.A. Brown, S. Shore, Boston, MA, p.A5293**
- P995 HIF-2 α Modulates Allergic Inflammation in the Airways in a Mouse Model of Asthma/R. Al-Kolla, C. Dewitz, E. McEachern, L.E. Crotty Alexander, San Diego, CA, p.A5294**

- P996 Infection with Pandemic H1N1 Induces a Dysregulated IL-33 Response in Murine Lungs/K. Shahangian, H.H.R. Chen, D.A. Ngan, Y. Oh, J.A. Hirota, D. Knight, T.-L. Hackett, S.P. Man, D. Dorscheid, M. Niikura, J. Leung, D.D. Sin, Vancouver, Canada, p.A5295**
- P997 RGS4 Attenuates Allergen-Induced Airway Hyper-Responsiveness in Mice/G.S.L. Wong, L.A. Madigan, E.M. Gordon, S.J. Levine, K.M. Druey, Bethesda, MD, p.A5296**
- P998 Sulforaphane Abrogates Steroid Insensitivity in Cigarette Smoke-Induced Airway Inflammation Through Nrf2 Dependent Pathway/H. Sakurai, Y. Morishima, Y. Tsunoda, S.-Y. Lin, T. Kiwamoto, Y. Matsuno, M. Kawaguchi, Y. Ishii, N. Hizawa, Tsukuba, Ibaraki, Japan, p.A5297**
- P999 Bromodomain and Extra-Terminal Protein Inhibition Attenuates Neutrophil-Dominant Allergic Airway Disease in Mice/M.L. Manni, S. Mandalapu, A. Salmeron, J.M. Lora, J.K. Kolls, J.F. Alcorn, Pittsburgh, PA, p.A5298**
- P1000 Blocking CD28 Signal Enhanced the Effect of Glucocorticoid on Experimental Asthma/A. Mori, S. Kouyama, M. Yamaguchi, A. Ohtomo-Abe, Y. Nakamura, Y. Tomita, Y. Hamada, Y. Kamide, H. Hayashi, K. Watai, C. Mitsui, K. Sekiya, T. Tsubuai, Y. Fukutomi, M. Taniguchi, T. Ohtomo, O. Kaminuma, Sagamihara, Japan, p.A5299**
- P1001 Apoptosis Inhibitor of Macrophage (AIM) Is Involved in Eosinophilic Airway Inflammation in Ovalbumin-Induced Murine Model of Asthma/H. Kimura, M. Suzuki, S. Konno, T. Nagase, T. Miyazaki, M. Nishimura, Sapporo, Japan, p.A5300**
- P1002 Interaction of Type 2 Cytotoxic T Lymphocytes and Mast Cell Lipid Mediators Contributes to Pathogenesis of Eosinophilic Asthma/L. Xue, L. Stoeger, E. Marchi, W. Liu, S. Go, A. Kurioka, T. Leng, M. Salimi, R. Shrimanker, T. Powell, A. Ramasamy, G. Ogg, I. Pavord, P. Klenerman, Oxford, United Kingdom, p.A5301**
- P1003 IL-17F Induces IL-6 Via TAK1-NF κ B Pathway in Airway Smooth Muscle Cells/M. Nakajima, M. Kawaguchi, K. Ota, J. Fujita, S. Matsukura, S.-K. Huang, H. Masuko, T. Kiwamoto, Y. Matsuno, Y. Morishima, Y. Ishii, H. Satoh, T. Sakamoto, N. Hizawa, Tsukuba, Ibaraki, Japan, p.A5302**
- P1004 MUC18 Promotes Eosinophilic Inflammation in Type 2 Cytokine Exposed Airways/C.R. Stevenson, D. Jiang, R. Berman, N. Schaefer, H.W. Chu, Y. Ito, A. Sanchez, A. Dakhama, Denver, CO, p.A5303**
- P1005 Emerging Role of YKL-40 in IL-13 Induced Inflammation in Monocyte Cells/V. Nezhgovorova, X. Chen, Q. Liu, A. Liang, X. Yan, N. Niu, J.L. Gomez, L. Cohn, B. Hu, D. Unutmaz, G. Chupp, New Haven, CT, p.A5304**
- P1006 Pattern-Activated Neutrophil Extracellular Trap Formation Is Downregulated by Glucocorticosteroids in the Asthmatic Lungs/A. Vargas, J.-P. Lavoie, St-Hyacinthe, Canada, p.A5305**
- P1007 Aerosolized TLR Agonists Suppress Acute Sendai Virus Burden and Chronic Asthma-Like Lung Disease in Mice/J.R. Flores, D.L. Goldblatt, A.M. Jaramillo, G. Valverde, M.J. Tuvim, S.E. Evans, B.F. Dickey, Houston, TX, p.A5306**



- P1008 Tropism of Human Rhinovirus C in Lower Respiratory Tract/R.W.Y. Chan, K.P. Tao, J.G.S. Tsun, W.Y. Yu, H.C. Wang, Y.P. Song, M.C.F. Tong, C.S.H. Ng, P.K.S. Chan, W.M. Lee, T.F. Leung, Hong Kong, Hong Kong Prc, p.A5307**
- P1009 IL-38 May Enhance OVA-Induced Eosinophilic Inflammation in Mice/M. Matsuoka, T. Kawayama, M. Tominaga, S. Kaieda, Y. Tokunaga, Y. Kaku, H. Imaoka, T. Kinoshita, M. Okamoto, T. Hoshino, Fukuoka, Japan, p.A5308**
- P1010 The Effect of Sulforaphane on Airway Dysfunction in Mice After Chlorine Gas Exposure/S. Ano, A. Panariti, B. Allard, M. O'Sullivan, T.K. McGovern, Y. Hamamoto, Y. Ishii, W.S. Powell, J.G. Martin, Tsuchiura, Ibaraki, Japan, p.A5309**
- P1011 Theracurmin®, a Highly Absorptive Nanoparticle Curcumin, Reduces Th2 Inflammatory Responses and Airway Mucus Production in Ovalbumin-Induced Murine Model of Asthma/K. Takeyama, S. Ashino, K. Orimo, J. Yagi, J. Tamaoki, Tokyo, Japan, p.A5310**
- P1012 A Different Composition of Exhaled Breathe Codensate in Pediatric Patients with Asthma, Cystic Fibrosis and Healthy Controls/F. Kopriva, Olomouc, Czech Republic, p.A5311**
- P1013 Heparin Binding Epidermal Growth Factor (HB-EGF) Modulates the Interaction Between Dendritic Cells and CD4 T Cells/S. Farahnak, J.G. Martin, Montreal, Canada, p.A5312**
- P1014 Src-Dependent EGFR Transactivation Regulates Allergic Lung Inflammatory Via Downstream Signaling Pathways Involving PI3Kd/ERK1/2/NFκB in a Murine Asthma Model/A.Z. El-Hashim, M. Khajah, W. Renno, R. Babynson, M. Uddin, I. Benter, S. Akhtar, Kuwait, Kuwait, p.A5313**
- P1015 Cellular Analysis of Induced Sputum by Chipcytometry/M. Muller, C. Hennig, A. Mirenska, O. Holz, J.M. Hohlfeld, Hannover, Germany, p.A5314**
- P1016 Attenuation of Hyaluronan Synthase 2 (HAS2) Enhance Eosinophilic Airway Inflammation/Y. Tsunoda, T. Kiwamoto, H. Sakurai, S. Lin, Y. Matsuno, M. Kawaguchi, Y. Morishima, Y. Ishii, N. Hizawa, Tsukuba, Ibaraki, Japan, p.A5315**
- P1017 Basophils in Healthy Individuals, Asthma and COPD Display Marked Heterogeneity in Expression Pattern of Tryptase and Carboxypeptidase-3/P. Siddhuraj, M. Mori, L. Bjerner, J. Erjefalt, Lund, Sweden, p.A5316**
- P1018 Analyze the Effect of Tiotropium on the Der p 2 Induced Dendritic Cells Maturation In Vitro and Allergic Airway Inflammation In Vivo/C.-H. Lin, S.-H. Lin, Y.-R. Li, H.-H. Chang, P.-C. Chan, C.-C. Lin, Changhua, Taiwan, p.A5317**
- P1019 Effects of Matrix Metalloproteinase-2 in Bronchial Asthma Model/H. Fujimoto, T. Kobayashi, K. Fujiwara, Y. Takahashi, C.N. D'Alessandro-Gabazza, O. Taguchi, E.C. Gabazza, Tsu City, Japan, p.A5318**

THEMATIC POSTER SESSION

C36 ASTHMA AND ALLERGY: CASE SERIES AND REPORTS**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area K, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

- P1021 Mepolizumab for Refractory Asthma in Eosinophilic Granulomatosis with Polyangiitis (Churg-Strauss)/D. Saygin, A. Arunachalam, M. Boyle, S. McCarroll, S. Mickewright, S.C. Erzurum, K. Highland, S.B. Khatri, Cleveland, OH, p.A5319**
- P1022 Bone Marrow-Derived Mononuclear Cell Therapy in a Patient with Severe Asthma: A Case Report/F.S. Aguiar, A.S. Melo, A.M.S. Araujo, A.P. Cardoso, S.A.L.D. Souza, D. Xisto, F.F. Cruz, K.D. Asensi, L. Faccioli, A.B.D.S. Salgado, R.C.D.S. Goldenberg, B. Gutflen, M.C.P.P. Landesmann, M. Morales, P.R. Rocco, J.R. Lapa E Silva, Rio de Janeiro, Brazil, p.A5320**
- P1023 Use of Extra-Corporeal Membrane Oxygenation Support for Treatment of Status Asthmaticus: A Case Report/A. Lennox, G.D. Kitsios, M. Camiolo, M. Gauthier, P. Lamberty, S.E. Wenzel, Pittsburgh, PA, p.A5321**
- P1024 Allergic Bronchopulmonary Mycosis Caused by Cladosporidium/A. Berglund, A. George, A.J. Skabelund, Ft. Sam Houston, TX, p.A5322**
- P1025 An Overlap Case of Diffuse Panbronchiolitis and Asthma: Reciprocal Relationship Between Neutrophilic and Eosinophilic Inflammation/H. Hara, K. Takeyama, Y. Shimizu, K. Arimura, O. Yagi, E. Tagaya, M. Kondo, J. Tamaoki, Tokyo, Japan, p.A5323**
- P1026 Straw-ing for Air/R.A. Estrada, M. Velez, San Antonio, TX, p.A5324**
- P1027 Tick Bites and Delayed Anaphylaxis to Red Meat: Rare Alpha-Gal Allergy in Florida/S.W. Robison, Jacksonville, FL, p.A5325**
- P1028 Simultaneous Spontaneous Pneumomediastinum and Bilateral Pneumothoraces in Asthma: An Uncommon Complication of a Usual Presentation/S. Atluri, Z. Hashemi, H. Upadhyay, A. Rasheed, M. Shahzadi, M. Hug, V. Vasudevan, F. Arjomand, L. Gerolemou, Brooklyn, NY, p.A5326**
- P1029 Severe Life-Threatening Asthma Precipitated by a Topical Non-Steroidal Anti-Inflammatory Drug/N.Z.E. Foong, A.C.A. Yii, Singapore, Singapore, p.A5327**
- P1030 Biologics or Bronchial Thermoplasty? Using a Case-Based Approach to Select from Advanced Asthma Therapies/A.J. Oberle, P. Mathur, Indianapolis, IN, p.A5328**
- P1031 A Young Female with Difficult-to-Control Asthma/B. Bajantri, T. Bajaj, M. Adrish, Bronx, NY, p.A5329**
- P1032 Paecilomyces Hypersensitivity Syndrome: Allergic Fungal Sinusitis, Asthma, Eosinophilic Esophagitis, and Infection Post-Implantation of a Sinus Titanium Plate/N. Mirsaidi, C. Jo, A.M. Szema, South Setauket, NY, p.A5330**



- P1033 Exsanguination Post-Lobectomy from Intercostal Artery Laceration in a Patient with Common Variable Immunodeficiency Disease (Hypogammaglobulinemia)/M.W. Lee, J. Giraldo, A.M. Szema, South Setauket, NY, p.A5331**
- P1034 Asthma Improved; Tachypnea Continues - Is Albuterol the Culprit?/R. Radhakrishnan, N. Almaddah, Salem, MA, p.A5332**
- P1035 Adrenaline in Status Asthmaticus: A Case Report and Review of Literature/Q. Xun, C. Hu, J. Feng, Changsha, China, p.A5333**
- P1036 Mepolizumab Treatment in Severe Asthma: A Case Series/M. Venkata Subramani, D. Saygin, S. McCarroll, S. Mickelwright, L. Ibrahim, R.M. Taliercio, S.C. Erzurum, S.B. Khatri, Cleveland, OH, p.A5334**

THEMATIC POSTER SESSION

C37 NEW INSIGHTS IN THE EPIDEMIOLOGY, MANAGEMENT, AND OUTCOMES OF CYSTIC FIBROSIS, ILD, AND RESPIRATORY DISEASE

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area B, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: K.J. Ramos, MD, MS, Seattle, WA

- P107 Use of the International Classification of Diseases (ICD) Coding to Identify Causative Pathogens in Non-Cystic Fibrosis Bronchiectasis (NCFB): Limitations and Challenges/R. Germino, M. Blazer, A. Ogbonnaya, Whippany, NJ, p.A5335**
- P108 Treatment Patterns in Non-Cystic Fibrosis Bronchiectasis (NCFB): A 2-Year Assessment Post-Exacerbation/R. Germino, L. Liao, M. Blazer, A. Ogbonnaya, Whippany, NJ, p.A5336**
- P109 Preferences of Use of Social Media Among Patients with Cystic Fibrosis: A Pilot Study in Latin America/K. Plaza, J.A. Cano, M.I. Torres Villacreses, E. Calero, A. Cherrez, J.C. Calderon, C. Rosero, J. Gutierrez, I. Cherrez Ojeda, Samborondon, Ecuador, p.A5337**
- P110 Fostering Adherence to Help Exacerbation Reduction - Tool for Health Coaching in Cystic Fibrosis/C. Landon, J. Papador, R. Turner, Ventura, CA, p.A5338**
- P111 Disparities in Mortality of Hispanic Cystic Fibrosis Patients in the United States/J. Rho, C. Ahn, A. Gao, G.S. Sawicki, A. Keller, R. Jain, Dallas, TX, p.A5339**
- P112 The Ohio Medicaid Expansion Was Not Associated with Increased Health Insurance Coverage or Adherence to Routine Care in Adults with Cystic Fibrosis/S.S. Li, D. Tumin, C. Nemastil, K. Krivchenia, D. Hayes, Columbus, OH, p.A5340**
- P113 Cystic Fibrosis Care Teams' Perceptions of a Systematic Process to Identify Barriers Affecting Treatment Adherence/A.S. Casper, S. Beachy, A. Quittner, K.A. Riekert, Baltimore, MD, p.A5341**
- P114 Epidemiology and Evaluation of Screening and Treatment of NTM in Patients with Cystic Fibrosis/D. Low, D. Wilson, P. Flume, Charleston, SC, p.A5342**
- P115 Perspectives of Young Women with Cystic Fibrosis and Parents on Sexual and Reproductive Health Educational Resources/T.M. Kazmerski, K. Hill, O. Prushinskaya, J. Greenberg, S.A. Pitts, S. Borrero, E. Miller, G.S. Sawicki, Boston, MA, p.A5343**
- P116 A Model to Predict Tailored Survival in Patients with Advanced Stage Cystic Fibrosis/N. Hajizadeh, J. Wang, A. Mathew, D. Hadjilias, M. Akerman, M. Lesser, Manhasset, NY, p.A5344**
- Facilitator:** M. Valerio, MPH, PhD, San Antonio, TX
- P117 Testing Leading to the Diagnosis of Idiopathic Pulmonary Fibrosis in Medicare Patients/J. Mooney, E. Chang, D. Lalla, E. Papoyan, S.R. Reddy, J.L. Stauffer, J.T. Yan, M.S. Broder, Stanford, CA, p.A5345**
- P118 Treatments and Outcomes of Idiopathic Pulmonary Fibrosis in a Medicare Population Prior to Approval of Antifibrotic Therapies/J. Mooney, E. Chang, D. Lalla, E. Papoyan, K. Raimundo, S.R. Reddy, J.L. Stauffer, J.T. Yan, M.S. Broder, Stanford, CA, p.A5346**
- P119 Increased Hospitalizations Among Patients with Sarcoidosis: A Population-Based Retrospective Cohort Study 1976-2013/P. Ungprasert, S.J. Achenbach, C.S. Crowson, E.M. Carmona, E.L. Matteson, Rochester, MN, p.A5347**
- P120 Real-World Evidence on Adherence and Hospitalizations Following Treatment Initiation with 2 Newly Approved Medications for Idiopathic Pulmonary Fibrosis (IPF)/A. Eldar-Lissai, N. Wu, D. Gallagher, Cambridge, MA, p.A5348**
- P121 Management Patterns and Attitudes About IPF (Idiopathic Pulmonary Fibrosis) Among Pulmonologist and General Physicians in Latin America/M.I. Torres Villacreses, E. Calero, A. Cherrez, J.C. Calderon, S. Cherrez, V. Cottin, K. Plaza, I. Cherrez Ojeda, Guayaquil, Ecuador, p.A5349**
- P122 Real World Pirfenidone Use Among Patients with Idiopathic Pulmonary Fibrosis: Patient Demographics and Healthcare Resource Utilization Prior to Initiation of Pirfenidone/D. Lalla, L. Bengston, K. Raimundo, S. Korner, D. Liassou, C. Elliott, S.L. Limb, South San Francisco, CA, p.A5350**
- P123 Pirfenidone and Nintedanib Compliance and Persistence in a Real World Setting/D. Lalla, L. Bengston, K. Raimundo, S. Korner, D. Liassou, C. Elliott, S.L. Limb, South San Francisco, CA, p.A5351**
- P124 Estimated Cost-Offset Due to Pirfenidone Treatment in Patients with Idiopathic Pulmonary Fibrosis/R.N. Hansen, K. Raimundo, D. Lalla, S.D. Ramsey, S.D. Sullivan, Seattle, WA, p.A5352**
- P125 Living with Idiopathic Pulmonary Fibrosis (L-IPF): Developing a Patient-Reported Symptom and Impact Questionnaire to Assess Health-Related Quality of Life in IPF/B. Graney, N. Johnson, C.J. Evans, A. Ryan, A. Matsui, K. Raimundo, T. Churney, J.J. Swigris, Denver, CO, p.A5353**



P126 Predictors of Inappropriate Diagnosis and Management of Bronchiolitis/C. Rodriguez-Martinez, L. Sarmiento, G. Rojas-Soto, Bogota, Colombia, p.A5354

Facilitator: B.E. Jones, MD, MSc, Salt Lake City, UT

P127 Medical and Pharmacy Costs Associated with the Treatment of Adult Patients with Community-Acquired Pneumonia in the Outpatient Setting/T. Lodise, P. Classi, P. Blumberg, S. Murty, G. Tillotson, Albany, NY, p.A5355

P128 A Prospective Assessment of Healthcare Utilization and Costs Associated with Symptom Burden Measured by mMRC and CAT/R.H. Stanford, D. Mapel, M. Roberts, D. Pilon, F. Laliberte, P. Lefebvre, S. Sama, B. Emond, M.S. Duh, Research Triangle Park, NC, p.A5356

P129 Healthcare Utilization and Expenditures Among Patients with Bronchiectasis in US Clinical Practice/D. Weycker, F. Seifer, G. Hansen, Brookline, MA, p.A5357

P130 Timeline of Pulmonary Complications in Children and Young Adult with Hematopoietic Stem Cell Transplantation/W.R. Bae, Y.H. Chun, J. Yoon, H.H. Kim, J.T. Kim, Seoul, Korea, Republic of, p.A5358

P131 Spirometric and Image Findings Among Children and Adolescents Users of Inhaled Illicit Drugs/M.D.S.D.L. Cardoso, A.M. Ribas, E.R.N. Ditzel, C.A. Bustamante Junior, Y.M.N.A.T. De Lima, F.M. Salame, Manaus, Brazil, p.A5359

P132 Sex-Specific Difference of the Association Between Birth Weight and Lung Volume in Adults/K. Anabuki, M. Sakai, S. Akita, H. Onishi, T. Kubota, A. Yokoyama, Nankoku, Japan, p.A5360

P133 Capturing the Complexity of FEV1 Dynamics with Median Quantile Regressions Splines/N. Huynh, J. Billings, R. Jain, J.L. Koff, A.M. Mullen, D. Rosenbluth, C. Teneback, D.J. Conrad, San Diego, CA, p.A5361

P134 Assessment of the Feeding Swallowing Impact Survey as a Quality of Life Measure in Children with Laryngeal Cleft Before and After Repair/M.S. Fracchia, C. Hersch, G. Diercks, S. Hardy, C. Hartnick, Boston, MA, p.A5362

P135 Obese Patients Have Same Frequency of Post-Operative Respiratory Depression as Defined by Low Minute Ventilation Events/W. Saasouh, B.C. Harvey, A. Turan, Cleveland, OH, p.A5363

Facilitator: J.M. Foster, PhD, Sydney, Australia

P136 A Quality Improvement Project to Assess Obstructive Lung Disease Exacerbation Discharges/J.M. Chowdhury, M. Kosa, B. Simcox, V. Sheth, A. Maheshwari, M. Korman, Darby, PA, p.A5364

P137 Bronchoalveolar Lavage Fluid Cellular Analyses Differ by Laboratory Technique/L. Barss, K.A. Johansson, Calgary, Canada, p.A5365

P138 The Outpatient Clinic: Great Care Provided When Patients Are Reminded/Z. Ghazarian, T. Pandya, M. Hanna, R. Sekhon, Z. Syed, J.J. Mathew, R. Solis, Paterson, NJ, p.A5366

P139 Comparative Analysis of Quality of Service Between Nurse Practitioners and Physicians in a Specialty Clinic/L. O'Hare, D.P. Kirkpatrick, Birmingham, AL, p.A5367

P140 Pulmonary E-Consults in the VA/H. Shanawani, M. Ho, E.P. Carey, D. Aron, D.H. Au, Ann Arbor, MI, p.A5368

P141 Physician-Driven Purchasing for Safety: A Pilot Project to Review Medical Devices Prior to Government Purchasing/H. Shanawani, K. Sarmiento, B. Fields, Ann Arbor, MI, p.A5369

P142 Review of Instructions for Use (IFUs) of Intravascular Medical Devices (IMDs) After an FDA Safety Warning Using a Human Factors Engineering Heuristic/H. Shanawani, T. Bagian, Ann Arbor, MI, p.A5370

P143 Estimated Blood Loss (EBL) Documentation of Anesthesia Vs Surgery Improved Due to Electronic Medical Record (EMR) but Still Far from Accuracy - Revisiting Literature After 44 Years/I. Ratnani, F. Bokhari, S. Zaidi, Houston, TX, p.A5371

P144 Cardiovascular Thoracic Surgery Multidisciplinary Team Collaboration for the Fast Track Open Heart Patient/M. Richardson, Danville, PA, p.A5372

Facilitator: N. Thakur, MD, MPH, San Francisco, CA

P145 Barriers to Optimal Hypertension Management in Rural District Hospitals in Rwanda: A Cross-Sectional Study/J.P. Sibomana, Muhanga, Rwanda, p.A5373

P146 The Role of Exercise Right Heart Catheterization in Discerning Heart Failure with Preserved Ejection Fraction/E.M. Welt, O.A. Shlobin, C. King, N. Weir, N. Cossa, J. Kiernan, S. Nathan, Washington, DC, p.A5374

P147 Depression Associated with Cardiac Surgery and the Role of Fatalism/P.A. Trainor-O'Malley, New York, New York, NY, p.A5375

P148 A Novel Lifestyle Change Program Identifies and Improves Cardiovascular Risks in Middle-Aged Women/A. Eliasson, M. Kashani, C. Fuller, E. Walizer, E. Turner, N. Tschiltz, M. Grunewald, J. Halsey, R. Engler, T. Villines, M. Vernalis, Bethesda, MD, p.A5376

P149 Sarcoidosis Progression/J. Williams, S. Alrawaf, M. Alsaggaf, A.W. McLean, Z. AlShathri, J. Ahari, G. Gutierrez, Washington, DC, p.A5377

P150 Oxygen Prescribing Practice Continues to Be Poor - Does Training of Clinicians Need to Be Changed?/J. Rafique, A. Hashim, S. Chandran, Manchester, United Kingdom, p.A5378

P151 Lung Allocation Score (LAS) Variability by United Network for Organ Sharing (UNOS) Region and Lung Disease Diagnosis/K.J. Ramos, R. Somayaji, S.G. Kapnadak, E.D. Lease, M. Mulligan, S.L. Heltshe, M.L. Aitken, N. Mayer-Hamblett, C.H. Goss, Seattle, WA, p.A7662

P152 Respiratory Symptoms Among Patients with Ehlers-Danlos Syndromes (EDS)/T.P. Sheehan, A.J. Miller, S. Mills, E. Schaefer, A.E.F. Dimmock, R. Bascom, C. Francomano, J.R. Schubart, Hershey, PA, p.A7663

P153 Patients Who Suspect that They Have TB Get Earlier Diagnosis-Zambia/S. Mutembo, J.N. Mutanga, B. Mwangelwa, C. Kanene, J. Chinyonga, C. Whalen, Choma, Zambia, p.A7664



THEMATIC POSTER SESSION

C38 UNDERSTANDING THERAPEUTICS IN IPF9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER****Area M, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** M.K. Glassberg, MD, Miami, FL

P1279 Tolerability and Efficacy of Nintedanib in Japanese 14 Cases/K. Sakamoto, S. Izumi, M. Hashimoto, T. Kakuwa, Y. Tsujimoto, N. Nagano, S. Matsubayashi, K. Kobayashi, A. Shiozawa, E. Miyawaki, S. Yamamoto, T. Suzuki, S. Ishii, E. Morino, M. Suzuki, J. Takasaki, G. Naka, M. Ikura, Y. Takeda, M. Hojo, H. Sugiyama, Tokyo, Japan, p.A5379

P1280 Pharmacokinetics of Nintedanib in Subjects with Hepatic Impairment/K. Marzin, G. Kretschmar, R. Schlenker-Herceg, C. Dallinger, Biberach an der Riss, Germany, p.A5380

P1281 Effect of Dose Reductions and/or Interruptions on The Efficacy of Nintedanib in Patients with Idiopathic Pulmonary Fibrosis (IPF): Subgroup Analysis of The INPULSIS Trials/T.M. Maher, Y. Inoue, A.H. Case, W. Sakamoto, S. Stowasser, W.A. Wuyts, London, United Kingdom, p.A5381

P1282 The TOPICAL Study of Inhaled Drug (Salbutamol) Delivery in Idiopathic Pulmonary Fibrosis/T.M. Maher, M. Biddiscombe, W.A. Fahy, P. Lukey, R.P. Marshall, S. Meah, E. Oballa, J.K. Simpson, S. Yang, O. Usmani, London, United Kingdom, p.A5382

P1283 Cardiovascular Safety of Nintedanib in Subgroups by Cardiovascular Risk at Baseline in The TOMORROW and INPULSIS Trials/I. Noth, M. Wijsenbeek, M. Kolb, F. Bonella, L. Moros, D. Wachtlin, T.J. Corte, Chicago, IL, p.A5383

P1284 Clinical Experience with Nintedanib for Idiopathic Pulmonary Fibrosis in 3 UK Tertiary Interstitial Lung Disease Centres/H. Toellner, W. Beswick, M. Crooks, C. Donaldson, I. Forrest, S. Hart, C. Leonard, M. Major, A. Simpson, N. Chaudhuri, Manchester, United Kingdom, p.A5384

P1285 Pirfenidone in Patients Aged 80 Years and Older with Idiopathic Pulmonary Fibrosis (IPF): Safety Findings from Pooled Trial Databases/L. Lancaster, L.D. Morrison, A. Auais, B.L. Trzaskoma, S.L. Limb, B. Polman, K.R. Flaherty, Nashville, TN, p.A5385

P1286 Effect of Antifibrotic Therapy in Patients with Idiopathic Pulmonary Fibrosis Awaiting Lung Transplantation/Z. Dorey-Stein, J. Galli, G.J. Criner, Philadelphia, PA, p.A5386

Facilitator: J. Behr, MD, Munich, Germany/

P1287 Factors Affecting the Selection of Anti-Fibrotic Therapy for Idiopathic Pulmonary Fibrosis/R. Kaur, C. King, A. Brown, S. Ahmad, O.A. Shlobin, N. Weir, S.D. Nathan, Falls Church, VA, p.A5387

P1288 Real-World Tolerability of Anti-Fibrotic Therapy for Idiopathic Pulmonary Fibrosis/R. Kaur, C. King, A. Brown, O. Shlobin, S. Ahmad, N. Weir, S.D. Nathan, Falls Church, VA, p.A5388

P1289 Patient Preferred Choice of Treatment with Nintedanib or Pirfenidone for Idiopathic Pulmonary Fibrosis (IPF): A Prospective Observational Study with Outcomes Over 1 Year at a Single Tertiary Center/B.F. Collins, L. Ho, M. Mayo, C. Mikacenic, J. Hayes, L. Mulder, C. Spada, G. Raghu, Seattle, WA, p.A5389

P1290 Effect of Pirfenidone on All-Cause Mortality (ACM) and Forced Vital Capacity (FVC) in Idiopathic Pulmonary Fibrosis (IPF) Patients with Low FVC and/or Low DL_{CO}: Analysis of Pooled Data from ASCEND and CAPACITY/S.D. Nathan, U. Costabel, C. Albera, K.-U. Kirchgassler, W. Chou, P.W. Noble, Falls Church, VA, p.A5390

P1291 Global Safety Analysis of Pirfenidone in Patients with Idiopathic Pulmonary Fibrosis: Pooled Long-Term Results from Two Real-World Studies/V. Cottin, T.M. Maher, D. Koschel, L.D. Morrison, B.L. Trzaskoma, T. Haselkorn, K.-U. Kirchgaessler, L. Lancaster, Lyon, France, p.A5391

P1292 Risk Factors Associated with Pirfenidone Discontinuation in Patients with Idiopathic Pulmonary Fibrosis in a Real-World Setting/V. Cottin, A. Guenther, C. Albera, S. Tomassetti, A. Azuma, K. Bartley, T. Burgess, A. Oduyungbo, K.-U. Kirchgaessler, T.M. Maher, Lyon, France, p.A5392

P1293 Effect of Pirfenidone on a Novel Definition of Progression-Free Survival (PFS) in Patients with Idiopathic Pulmonary Fibrosis (IPF): Pooled Analysis from Phase III Trials/D.J. Lederer, B.L. Trzaskoma, K.-U. Kirchgassler, M. Kreuter, J.J. Swigris, New York, NY, p.A5393

P1294 An Open-Label, Phase II Study (PIPF-002) of the Safety of Pirfenidone in Patients with Idiopathic Pulmonary Fibrosis (IPF)/M.H. Gotfried, C.E. Girod, D.E. Antin-Ozerkis, A. Oduyungbo, P. Hormel, I. Strombom, J.L. Stauffer, K.-U. Kirchgassler, M. Padilla, Phoenix, AZ, p.A5394

Facilitator: G. Raghu, MD, Seattle, WA

P1295 Quartile Forced Vital Capacity Changes at 3, 6, 9, and 12 Months with Pirfenidone in Patients with Idiopathic Pulmonary Fibrosis: A Pooled Phase III Analysis/F. Bonella, R. Sussman, N. Ettinger, D. Zisman, B.L. Trzaskoma, W. Chou, D. Kardatzke, U. Costabel, Essen, Germany, p.A5395

P1296 Risk Factors for Hepatotoxicity of Nintedanib in Japanese Patients with Idiopathic Pulmonary Fibrosis/S. Ikeda, A. Sekine, T. Baba, H. Yamakawa, T. Oda, R. Okuda, H. Kitamura, T. Ogura, Yokohama, Japan, p.A5396

P1297 Effect of Patient Demographic and Functional Characteristics on Long-Term Efficacy of Nintedanib in Patients with Idiopathic Pulmonary Fibrosis (IPF): Subgroup Analysis from INPULSIS-ON/M. Kreuter, J.W. Song, J.T. Huggins, M. Quaresma, W. Stansen, S. Stowasser, B. Crestani, Heidelberg, Germany, p.A5397

P1298 Safety of the Combined Use of Pirfenidone and Nintedanib in Patients with Idiopathic Pulmonary Fibrosis (IPF): Results from an Interim Analysis After 12 Weeks/K.R. Flaherty, R. Sussman, A. Pesci, H. Nunes, O. Acosta, U. Petzinger, J. Stauffer, F. Gilberg, M. Bengus, L. Lancaster, Ann Arbor, MI, p.A5398



P1299 Improvement in Forced Vital Capacity (FVC) with Nintedanib in Patients with Idiopathic Pulmonary Fibrosis (IPF): Results from The INPULSIS Trials/K.R. Flaherty, M. Kolb, C. Vancheri, W. Tang, C.S. Conoscenti, L. Richeldi, Ann Arbor, MI, p.A5399

P1300 Clinical Efficacy of Nintedanib in Idiopathic Pulmonary Fibrosis Patients: A Prospective Observational Study/S. Noma, A. Tokumoto, T. Ebisudani, M. Nemoto, R. Tsuzuki, A. Otsuki, K. Nakashima, M. Misawa, M. Aoshima, Chiba, Japan, p.A5400

P1301 Evaluation of Pirfenidone Dose Adjusted by Body Weight or Body Surface Area in the Treatment for Japanese Patients with Interstitial Pneumonia/M. Uehara, N. Enomoto, M. Karayama, M. Kono, Y. Suzuki, H. Hozumi, K. Furuhashi, T. Fujisawa, Y. Nakamura, N. Inui, T. Suda, Hamamatsu, Japan, p.A5401

P1302 Rate of Decline in FVC in Non-IPF Pulmonary Fibrosis After Anti-Fibrotic Initiation/J.C. Brown, J. Kraft, M. Vega-Olivo, J. Galli, S. Simpson, G.J. Criner, Philadelphia, PA, p.A5402

Facilitator: L. Lancaster, MD, Nashville, TN

P1303 Pirfenidone in Idiopathic Pulmonary Fibrosis in the Real World/J.H. Song, J.-H. Park, E.Y. Heo, D.K. Kim, H.S. Hee Soon Chung, J.-K. Lee, Seoul, Korea, Republic of, p.A5403

P1304 Prescription of Pirfenidone and Nintedanib for the Treatment of Idiopathic Pulmonary Fibrosis (IPF): An Academic Center Experience/S. Strock, S.M. Nouraie, D. Huttenhower, X. Chen, K. Lawson, M. Melissa Priore, J. Chiarchiaro, K.L. Veraldi, K.O. Lindell, K.F. Gibson, D.J. Kass, Pittsburgh, PA, p.A5404

P1305 Pharmacokinetics of Aerosolized Interferon- γ in IPF/S. D'Annunzio, V. Kassapidis, M. Huie, G.C. Smaldone, R. Condos, New York, NY, p.A5405

P1306 Effect of Pirfenidone on Breathlessness as Measured by the UCSD-SOBQ Score in Patients with Idiopathic Pulmonary Fibrosis (IPF) with Moderate Lung Function Impairment/M.K. Glassberg, M. Wijsenbeek, F. Gilberg, U. Petzinger, K.-U. Kirchgassler, C. Albera, Miami, FL, p.A5406

P1307 Patients with Idiopathic Pulmonary Fibrosis and Forced Vital Capacity 50% Predicted: Is There a Role for Antifibrotic Therapy?/J. Galli, A. Pandya, Z. Dorey-Stein, M. Vega-Olivo, G.J. Criner, Philadelphia, PA, p.A5407

P1308 Long-Term Efficacy of Nintedanib Is Maintained in Patients with Idiopathic Pulmonary Fibrosis (IPF) Irrespective of Dose: Subgroup Analysis of INPULSIS-ON/B. Crestani, M. Kolb, B. Wallaert, M. Quaresma, W. Stansen, L. Richeldi, Paris, France, p.A5408

P1309 CC-90001, a Second Generation Jun N-Terminal Kinase (JNK) Inhibitor for the Treatment of Idiopathic Pulmonary Fibrosis/B. Bennett, K. Blease, Y. Ye, A. Azaryan, R. Ceres, F. Ramirez-Valle, G. Horan, P. Schafer, J.L. Van Der Velden, Y.M.W. Janssen-Heininger, Summit, NJ, Summit, NJ, p.A5409

THEMATIC POSTER SESSION

C39 BIOMARKERS AND PROGNOSTIC FACTORS IN ILD

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area M, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned

Facilitator: A.M. Tager, MD, Charlestown, MA

P1311 Serum Soluble IL-2 Receptor as a Biomarker in IgG4 Related Disease/T. Handa, S. Matsui, H. Yoshifuji, K. Tanizawa, Y. Kodama, H. Yamamoto, S. Minamoto, Y. Waseda, K. Ikezoe, K. Chin, T. Hirai, K. Kubo, T. Mimori, T. Chiba, M. Mishima, Kyoto, Japan, p.A5410

P1312 Expression of B-Cell Activating Factor Belonging to the TNF Family (BAFF) in Patients with Sarcoidosis/M. Ando, A. Goto, S. Uchida, H. Matsumoto, T. Ono, Y. Usagawa, K. Jo, Y. Takeno, C. Yasuda, E. Mizukami, M. Yamasue, K. Hashinaga, H. Yoshikawa, S. Toba, K. Umeke, S.-I. Nureki, R.-I. Takenaka, T. Ishii, K. Hiramatsu, E. Miyazaki, J.-I. Kadota, Oita, Japan, p.A5411

P1313 Validation of New Prediction Score in Inhalation Provocation Test for Chronic Hypersensitivity Pneumonitis/M. Ishizuka, Y. Miyazaki, N. Inase, Bunkyo, Japan, p.A5412

P1314 Patulous Esophagus on HRCT Is Not a Predictor of SSc-ILD Outcomes Despite Implications of Esophageal Dysfunction Causing SSc-ILD/K.B. Patel, J.B. Gleason, P. Almeida, S.P. Shekar, J.P. Mehta, Weston, FL, p.A5413

P1315 Anti-RBP Antibody Positivity in Patients with Idiopathic Interstitial Pneumonitis/R.S. Bermea, A. Adegunsoye, J.M. Oldham, C.T. Lee, L.J. Witt, L. Chen, S. Hsu, J.H. Chung, S. Montner, I. Noth, M.E. Strek, R. Vij, Chicago, IL, p.A5414

P1316 Anti-BPIFB1 Autoantibodies Were Identified in Three Cases with Idiopathic Interstitial Lung Disease/K. Yoshizawa, T. Sakagami, A. Aoki, K. Asakawa, T. Koya, T. Takada, T. Kikuchi, Niigata, Japan, p.A5415

P1317 Spontaneous Pneumomediastinum as a Potential Predictor of Mortality in Patients with Interstitial Pneumonia/Y. Tanaka, T. Shirai, K. Asada, S. Morita, T. Akita, Y. Shishido, A. Yamamoto, T. Akamatsu, M. Saigusa, R. Noguchi, T. Suzuki, Y. Shimoda, Y. Endo, H. Watanabe, Shizuoka City, Japan, p.A5416

P1318 Diagnostic Predictors of Pulmonary Hypertension-Associated Mortality in Interstitial Lung Disease/A. Adegunsoye, J.H. Chung, S. Montner, N. Narang, C.T. Lee, L.J. Witt, J.M. Oldham, L. Chen, S. Hsu, R. Bag, A. Husain, I. Noth, R. Vij, M.E. Strek, Chicago, IL, p.A5417

P1319 The Ratio of Forced Expiratory Volume in One Second to the Change in Forced Vital Capacity from Predicted Baseline Is an Earlier Marker of Disease Progression in Idiopathic Pulmonary Fibrosis than Change in Forced Vital Capacity Alone/R.L. Perez, G.W. Vicary, C.W. Barber, S. Furmanek, T. Wiemken, B. Mattingly, A. Persaud, B. Guinn, J. Roman, Louisville, KY, p.A5418



P1320 Correlation Between Serum Monomeric Periostin and the Prognosis in Patients with Acute Exacerbation of Fibrosing Interstitial Pneumonia/H. Shimizu, S. Sakamoto, T. Isshiki, N. Urabe, A. Suzuki, K. Gocho, G. Sano, K. Sugino, K. Isobe, Y. Takai, M. Okamoto, T. Hoshino, K. Izuhara, S. Homma, Tokyo, Japan, p.A5419

Facilitator: E. Herzog, MD, PhD, New Haven, CT

P1321 Association Between Markers of Collagen Turnover and Subclinical Interstitial Lung Disease: The Multi-Ethnic Study of Atherosclerosis (MESA) Lung Study/P. Madahar, D.A. Duprez, A. Podolanczuk, S.M. Kawut, G. Raghu, R.G. Barr, M.D. Gross, D.R. Jacobs, D.J. Lederer, New York, NY, p.A5420

P1322 B Cell Activating Factors in Patients with Autoimmune Pulmonary Alveolar Proteinosis/M. Hirose, A. Matsumuro, T. Arai, C. Sugimoto, M. Akira, K. Tsuyuguchi, Y. Matsuda, M. Naito, Y. Inoue, Sakai-shi, Osaka, Japan, p.A5421

P1323 Pronostic Value of Serum KL-6 in Interstitial Lung Diseases in a French Cohort/L. Morer, M. Miyara, L. Bondeelle, Y. Uzunhan, P. Ghillani-Dalbin, D. Valeyre, L. Musset, H. Nunes, Bobigny, France, p.A5422

P1324 Disease Activity in Autoimmune Pulmonary Alveolar Proteinosis Analyzed by a Multiplex Immunoassay System/K. Akasaka, K. Ohashi, T. Nishizawa, T. Oba, R. Kawabe, S. Satoh, M. Amano, K. Matsushima, T. Takada, Saitama, Japan, p.A5423

P1325 KL-6 as a Predictor of Progression in Scleroderma-Associated Interstitial Lung Disease/S. Watanabe, K. Saeki, Y. Waseda, H. Takato, Y. Ichikawa, A. Murata, J. Hara, T. Sone, M. Abo, H. Kimura, M. Yasui, K. Kasahara, Kanazawa, Japan, p.A5424

P1326 A Prospective Cohort Study to Assess the Use of Fluodeoxyglucose Positron Emission Tomography (FDG-PET) in Assessing Treatment Response in Patients with Systemic Sclerosis Associated Interstitial Lung Disease/H. Garthwaite, C. Denton, A. Groves, J. Porter, London, United Kingdom, p.A5425

P1327 Radiologic Mosaic Attenuation Predicts Disease Phenotype Differently in Fibrotic Versus Non-Fibrotic Hypersensitivity Pneumonia/M. Salisbury, B.H. Gross, A. Chughtai, E. Kazerooni, T. Gu, M. Xia, S. Murray, J.L. Myers, A. Lagstein, K.E. Konopka, E. Belloli, J.S. Sheth, E.S. White, C.H. Holtze, K.R. Flaherty, Ann Arbor, MI, p.A5426

P1328 Interstitial Pneumonia with Autoimmune Features as a Predictor for a Better Prognosis in Idiopathic Pulmonary Fibrosis with Surgical Lung Biopsy/T. Furukawa, H. Taniguchi, Y. Kondoh, T. Kimura, K. Kataoka, T. Yokoyama, T. Jokoh, J. Fukuoka, Y. Yamano, Y. Mori, Seto, Japan, p.A5427

P1329 Occupational Exposures and Subclinical Interstitial Lung Disease: The Multi-Ethnic Study of Atherosclerosis (MESA) Air- Lung Study/C. Sack, B. Doney, A. Podolanczuk, L. Hooper, N. Seixas, E.A. Hoffman, S. Kawut, S. Vedal, G. Raghu, R.G. Barr, D.J. Lederer, J.D. Kaufman, Seattle, WA, p.A5428

Facilitator: I. Rosas, MD, Boston, MA

P1330 Bronchoalveolar Lavage in Chronic Hypersensitivity Pneumonitis and IPF/H. Furusawa, H. Saito, M. Sema, T. Tateishi, Y. Miyazaki, N. Inase, Bunkyo, Japan, p.A5429

P1331 Risk of Coronary Artery Disease in Patients with Idiopathic Pulmonary Fibrosis: A Systemic Review and Meta-Analysis/P. Charoenpong, Brooklyn, NY, p.A5430

P1332 Prediction of IPF Progression Using HRCT Imaging Patterns in Elderly Population/G.H.J. Kim, W. Hsu, M. Brown, S. Weigt, J.A. Belperio, P. Lo, J.G. Goldin, Los Angeles, CA, p.A5431

P1333 Prediction of IPF Using Early Changes in Quantitative Imaging Patterns on High Resolution Computed Tomography/G.H.J. Kim, M. Brown, S. Weigt, J.A. Belperio, R.H. Huynh, Y. Shi, J.G. Goldin, Los Angeles, CA, p.A5432

P1334 Autopsy Series of Home Deaths in Idiopathic Pulmonary Fibrosis/J. Moolji, L. Puttagunta, J. Richman-Eisenstat, M. Kalluri, Edmonton, Canada, p.A5433

P1335 Mid-Flow Rates Do Not Predict Mortality in Idiopathic Pulmonary Fibrosis Patients/F.S. Nunes, A.W. Brown, C. King, E. Battle, O.A. Shlobin, S.D. Nathan, Falls Church, VA, p.A5434

P1336 Pulmonary Arterial Compliance as a Predictor of Survival in Idiopathic Pulmonary Fibrosis/A.N. Zouk, R. Sharif, T. Kulkarni, M.D.P. Acosta Lara, T.R. Luckhardt, J.A. De Andrade, Birmingham, AL, p.A5435

P1337 A Comparative Analysis of Rates of Diagnosis, Treatment Initiation, and Treatment Persistence in Idiopathic Pulmonary Fibrosis (IPF) Versus Non-Small-Cell Lung Cancer (NSCLC)/J. Denton, C. Phillips, A. Del Carlo, A. Mavaddat, E. Carter, F. Dejonckheere, V.C. Munk, E. Molnar, New York, NY, p.A5436

P1338 The Prognostic Value of Serum S100A12 in Patients with Idiopathic Pulmonary Fibrosis/Y. Yamamoto, T. Handa, Y. Nakatsuka, K. Tanizawa, A. Sokai, K. Ikezoe, S. Tokuda, S. Nagai, K. Chin, T. Hirai, Kyoto, Japan, p.A5437

Facilitator: R. Raj, MD, Chicago, IL

P1339 Impact of Mediastinal Lymph Node Enlargement on Prognosis of Idiopathic Pulmonary Fibrosis/S.-I. Sin, K.H. Lee, Y.J. Lee, H.I. Yoon, J.H. Lee, C.T. Lee, J.S. Park, Seoul, Korea, Republic of, p.A5438

P1340 Correlation Between Airway and Circulating Autoantibodies Levels in Patients with Stable Idiopathic Pulmonary Fibrosis/K. Deng, Z. Liang, F. Long, L. Zhou, W. Wu, M. Chen, S. Huang, D. Cui, Y. Gao, M. Jiang, T. Peng, Q. Luo, R. Chen, Guangzhou, China, p.A5439

P1341 Idiopathic Pulmonary Fibrosis Subtypes Identified by Network-Based Clustering of Suptum and Serum Autoantibodies Profiles/K. Deng, Z. Liang, F. Long, L. Zhou, M. Chen, W. Wu, S. Huang, D. Cui, Y. Gao, M. Jiang, T. Peng, Q. Luo, R. Chen, Guangzhou, China, p.A5440

P1342 Sputum but Not Circulating Autoantibodies Profiles Associated with GAP Score of Idiopathic Pulmonary Fibrosis/K. Deng, Z. Liang, F. Long, L. Zhou, W. Wu, M. Chen, S. Huang, D. Cui, Y. Gao, M. Jiang, T. Peng, Q. Luo, R. Chen, Guangzhou, China, p.A5441

P1343 Analysis of Serum Adiponectin and Leptin in Patients with Acute Exacerbation of Idiopathic Pulmonary Fibrosis/N. Enomoto, Y. Enomoto, M. Mikamo, Y. Oyama, M. Kono, H. Hozumi, Y. Suzuki, K. Furuhashi, T. Fujisawa, N. Inui, Y. Nakamura, T. Suda, Hamamatsu, Japan, p.A5442



- P1344** **Autoantibody Status Is Not Associated with Change in Lung Function or Survival in Patients with Idiopathic Pulmonary Fibrosis**/G.C. Goobie, C. Ford-Sahibzada, M. Fritzler, K.A. Johansson, C.D. Fell, Calgary, Canada, p.A5443
- P1345** **An Analysis of Idiopathic Pulmonary Fibrosis Mortality Data at the State Level**/D. Sprunger, A. Olson, E. Fernandez Perez, T. Huie, J.J. Swigris, Denver, CO, p.A5444
- P1346** **The Impact of Right Ventricular Diastolic Pressure on Mortality in Patients with Idiopathic Pulmonary Fibrosis**/S.R. Devarajan, B. Cannon, S. Cousins, J. Maniaci, C. Roberts, C. Spaulding, P. Vaidya, S.D. Nathan, Houston, TX, p.A5445
- P1347** **Risk Factors for Disease Progression in the Placebo Arm of a Clinical Trial Population with Idiopathic Pulmonary Fibrosis**/G. Raghu, K.K. Brown, V. Cottin, K.F. Gibson, S. Humphries, R.J. Kaner, D.J. Lederer, D. Lynch, P.W. Noble, J.W. Song, A.U. Wells, T.P. Whelan, S.D. Patterson, V. Smith, K. Goodman, Q. Gong, J.J. Zhang, J.S. Sundy, T.G. O'Riordan, F.J. Martinez, Seattle, WA, p.A5446

THEMATIC POSTER SESSION

C40 DYSPNEA: CLINICAL STUDIES

9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area G, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: A.E. Dimmock, MS, Hershey, PA

- P715** **Calculating the Rate of Change (RoC) Rather than the Sitting FVC in Patients with Amyotrophic Lateral Sclerosis (ALS)**/E.M. Elamin, C.S. Wilson, Y.C. Kang, K. White, W.M. Anderson, Tampa, FL, p.A5448
- P716** **Respiratory Manifestations of Stiff Person Syndrome (SPS)**/M.R. Woodford, K. Pack, A. Allen, G. Rakocevic, W.P. Sexauer, Philadelphia, PA, p.A5449
- P717** **Oxygen for Breathlessness in Patients with COPD Who Do Not Qualify for Home Oxygen Therapy: An Updated Cochrane Analysis**/M. Ekstrom, Z. Ahmadi, A. Bornefalk-Hermansson, D. Currow, Lund, Sweden, p.A5450
- P718** **Discrepancy Between Pulse Oximetry and Arterial Oxygen Saturation at Rest and During Exercise**/A. Bhattacharyya, J. Ramos, A.R. Tonelli, Cleveland, OH, p.A5451
- P719** **Predictive Value of Pretest Probability Scores in Patients Who Underwent CT Pulmonary Angiography for the Suspicion of Pulmonary Embolism**/A. Topeli, O. Kilic, E. Ortac Ersoy, K. Rollas, M. Durusu Tanriover, B. Erbil, Ankara, Turkey, p.A5452
- P720** **Quantitative Analysis of D-Dimer Elevation in Pulmonary Embolism: A Retrospective Analysis**/G.S. Thind, P. Patel, M. Loehrke, Kalamazoo, MI, p.A5453

- P721** **Predictor of Exertional Hypoxemia: DLCO Vs. DLCO/VA. A Retrospective Study**/S. Gezahegne, Z. Morris, D. Folt, N. Miller, A. Garbarino, B. DiGiovine, Detroit, MI, p.A5454

Facilitator: A.E. Holland, PhD, Melbourne, Australia

- P722** **DMQ-CAT Multidimensional Dyspnea Severity Predicts Risk of Acute Respiratory Events in COPD**/A. Norweg, A. Steffen, A. Jette, M.L. Moy, S. Grady, E. Garshick, New York, NY, p.A5455
- P723** **Inappropriate Utilization of High-Flow Nasal Cannula in Adult Population with Respiratory Failure**/M. Shahzadi, A. Rasheed, Z. Hashemi, H. Upadhyay, L. Gerolemou, V. Vasudevan, F. Arjomand, S. Muhammad, M. Kyaw, I. Bhatt, Brooklyn, NY, p.A5456
- P724** **Rest VE/VO₂ and ETCO₂ Are Superior to Exercise Gas Exchange Parameters for the Prediction of Pulmonary Vascular Disease in Pulmonary Hypertension**/F. Raza, A. Vaidya, P. Forfia, Philadelphia, PA, p.A5457
- P725** **Respiratory Symptoms in Relapsing Polychondritis: Data from an International Survey**/M. Ferrada, N. Sinaii, T. Christie, J. Katz, Bethesda, MD, p.A5458
- P726** **Post-Traumatic Stress Disorder Is Associated with an Increased Ventilatory Response to Exercise**/M. McMahon, A.J. Skabelund, J.T. Woods, A. Holley, J.H. Sherner, J. Collen, M.J. Morris, Bethesda, MD, p.A5459
- P727** **The Prevalence of Dyspnea Among Hospitalized Patients**/J. Stevens, T. Dechen, A.R. Sheridan, C. O'Donnell, R. Schwartzstein, M. Howell, R.B. Banzett, Boston, MA, p.A5460

THEMATIC POSTER SESSION

C41 LONG ACTING BRONCHODILATOR THERAPY IN COPD II

9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area L, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: N. Hanania, MD, MS, Houston, TX

- P1077** **Indacaterol/Glycopyrrolate Significantly Reduces Nocturnal Rescue Medication Use and Awakenings in Patients With Moderate-to-Severe COPD: Results from a Pooled Analysis of FLIGHT1 and FLIGHT2 Studies**/J.F. Donohue, E.M. Kerwin, S. Fucile, A. Yadao, C. Thach, A. Fowler Taylor, R. Fogel, F. Patalano, D. Banerji, Chapel Hill, NC, p.A5461
- P1078** **Significant and Sustained Bronchodilation with Indacaterol/Glycopyrrolate Versus Placebo: Pooled Analysis of FLIGHT1 and FLIGHT2 Studies**/J.F. Donohue, E.M. Kerwin, S. Fucile, A. Yadao, S. Maitra, T. Ayers, R. Fogel, F. Patalano, D. Banerji, Chapel Hill, NC, p.A5462



- P1079** Indacaterol/Glycopyrrolate Is More Effective than Placebo in Improving FEV₁ by 3200 mL from Baseline in Patients with Moderate-to-Severe COPD: FLIGHT1/FLIGHT2 Pooled Analysis/E.M. Kerwin, D.A. Mahler, S. Fucile, A. Yadao, C. Thach, A. Fowler Taylor, R. Fogel, F. Patalano, D. Banerji, Medford, OR, p.A5463
- P1080** Efficacy and Safety of SUN-101/eFlow® (Nebulized Glycopyrrolate) in Moderate-To-Very-Severe COPD: Results from the Glycopyrrolate for Obstructive Lung Disease Via Electronic Nebulizer (GOLDEN) 3 and 4 Studies/E.M. Kerwin, J.F. Donohue, T. Goodin, R. Tosiello, A. Wheeler, G.T. Ferguson, Medford, OR, p.A5464
- P1081** Once-Daily Indacaterol/Glycopyrronium Reduces the Rate and Risk of Moderate or Severe Exacerbations Compared with Twice-Daily Salmeterol/Fluticasone in a Subset of GOLD Group D COPD Patients With a History of 2 Exacerbations or 1 Hospitalization: The F/C. Vogelmeier, J. Wedzicha, J. Donohue, S. Fucile, A. Yadao, T. Ayers, C. Thach, A. Fowler Taylor, R. Fogel, F. Patalano, D. Banerji, Marburg, Germany, p.A5465
- P1082** Efficacy, Safety and Pharmacokinetics of a LAMA/LABA Glycopyrrolate/Formoterol Metered Dose Inhaler (GFF MDI) with and Without Aerochamber Plus® Flow-Vu® Valved Holding Chamber in Patients with Moderate-to-Very Severe COPD/F.A. Fakhri, S. Spangenthal, B. Sigal, C. Orevillo, P. Darken, A. Maes, C. Reisner, U.J. Martin, Winter Park, FL, p.A5466
- P1083** Indacaterol/Glycopyrrolate Significantly Improves Health Status and Dyspnea in Different Subgroups of Patients with Moderate-to-Severe COPD: Pooled Analysis of FLIGHT1 and FLIGHT2 Studies/D.A. Mahler, J.F. Donohue, S. Fucile, A. Yadao, S. Maitra, A. Fowler Taylor, R. Fogel, F. Patalano, D. Banerji, Lebanon, NH, p.A5467
- P1084** Improvement in Lung Function with Twice-Daily Indacaterol/Glycopyrrolate Versus Once-Daily Indacaterol in Patients with Moderate-to-Severe COPD: Results from the FLIGHT3 Study/D.A. Mahler, G.T. Ferguson, S. Fucile, A. Yadao, Q. Wang, T. Ayers, R. Fogel, F. Patalano, D. Banerji, Hanover, NH, p.A5468
- Facilitator:** J. Ohar, MD, Winston-Salem, NC
- P1085** Effect of Glycopyrrolate/Formoterol Fumarate Fixed-Dose Combination Metered Dose Inhaler (GFF MDI) Delivered by Novel Co-Suspension® Delivery Technology on Daily Symptoms in Patients with COPD/F.J. Martinez, L.M. Fabbri, G.T. Ferguson, C. Orevillo, P. Darken, U.J. Martin, C. Reisner, New York, NY, p.A5469
- P1086** A Prospective, Non-Interventional, Multi-Center Study to Evaluate the Effectiveness of Glycopyrronium Bromide for the Treatment of COPD Patients in Real-World Clinical Practice (GLARE: Glycopyrronium Bromide for the Maintenance Treatment of COPD in a Real-World Setting)/P.C. Chan, C.H. Lin, J.Y. Hsu, L.W. Hang, W.C. Huang, C.P. Chen, Changhua City, Taiwan, p.A5470
- P1087** Clinical Benefits of Acclidinium Bromide Twice Daily Compared with Tiotropium Once Daily in Patients with Moderate to Severe Chronic Obstructive Pulmonary Disease/H. Nakamura, Y. Mori, N. Nanki, T. Kamei, Kagawa, Japan, p.A5471
- P1088** In-Vitro Characterization of the eFlow® Closed-System (eFlowAr CS) Nebulizer with Glycopyrrolate Inhalation Solution (SUN-101)/S. Pham, G.T. Ferguson, E.M. Kerwin, T. Goodin, A. Wheeler, A. Bauer, Marlborough, MA, p.A5472
- P1089** Evaluation of the Safety of Long-Term Use of Perforomist® (Formoterol Fumarate) Inhalation Solution in Patients with Moderate to Severe Chronic Obstructive Pulmonary Disease (COPD)/N. Hanania, S. Sethi, A. Koltun, J. Ward, J. Spanton, D. Ng, Houston, TX, p.A5473
- P1090** Efficacy of Revenfenacin, a Novel Once-Daily Nebulized Long-Acting Muscarinic Antagonist: Results of Two Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Phase 3 Trials in Participants with Moderate to Very Severe Chronic Obstructive Pulmonary /G.T. Ferguson, K.K. Pudi, S. Pendyala, C.N. Barnes, E.J. Moran, B. Haumann, G.D. Crater, Farmington Hills, MI, p.A5474
- P1091** Safety of Indacaterol/Glycopyrrolate 27.5/15.6 µg Twice Daily in Patients with Moderate-to-Severe COPD: Analysis from the FLIGHT Studies/G.T. Ferguson, J.F. Donohue, S. Fucile, A. Yadao, S. Maitra, T. Ayers, R. Fogel, F. Patalano, D. Banerji, Farmington Hills, MI, p.A5475
- P1092** The Clinical Effectiveness of Fluticasone Furoate/Vilanterol (FF/VI) in Everyday Clinical Practice: Patient Reported Outcomes in the Salford Lung Study (SLS COPD)/A. Woodcock, I. Boucot, D. Browning, S. Collier, J. Sedgley, J. Millar, J. Lay-Flurrie, S. McCorkindale, J. Vestbo, Manchester, United Kingdom, p.A5476
- Facilitator:** C. Martinez, MD, MPH, Ann Arbor, MI
- P1093** Efficacy of Acclidinium Bromide 400 µg on the Relief of Cough Symptoms in Symptomatic Patients with Chronic Obstructive Pulmonary Disease: A Cough Severity Subgroup Analysis/J.A. Smith, L. McGarvey, A.H. Morice, S.S. Biring, J.A. Wedzicha, M. Notari, R. Segarra, B. Seoane, D. Jarreta, Manchester, United Kingdom, p.A5477
- P1094** Comparative Efficacy of Inhaled Bronchodilator Combination Therapy in Stable COPD/R. Fogel, T. Sayre, J. Franek, R. Diekemper, S.-M. Frent, P. Altman, East Hanover, NJ, p.A5478
- P1095** Safety Study of Batefenterol and Fluticasone Furoate Combination in Patients with COPD/C.C. Crim, M. Gotfried, S. Spangenthal, M.L. Watkins, A.H. Emmett, C. Crawford, C. Baidoo, R. Castro-Santamaria, Research Triangle Park, NC, p.A5479
- P1096** Integrated Safety Analysis Comparing Umeclidinium/Vilanterol with Tiotropium/D.E. Long, R. Ray, I.P. Naya, D.A. Lipson, Durham, NC, p.A5480
- P1097** Efficacy and Safety of Formoterol Fumarate in Acute Exacerbation of Chronic Obstructive Pulmonary Disease/D. Zujovic, V. Zugic, Belgrade, Serbia, p.A5481
- P1098** Clinical Effectiveness of Fluticasone Furoate/Vilanterol (FF/VI): The Impact on Exacerbations in COPD Patient Subgroups of the Salford Lung Study (SLS COPD)/N. Bakerly, A. Woodcock, S. Collier, D.A. Leather, J.P. New, J. Crawford, J. Vestbo, Salford and Manchester, United Kingdom, p.A5482



P1099 Effect of Treatment Withdrawal on Outcomes in the SUMMIT Study/J. Vestbo, J.A. Anderson, R.D. Brook, P.M.A. Calverley, B. Celli, C.C. Crim, M.T. Dransfield, N.S. Gallot, S. Kilbride, P. Lange, F.J. Martinez, D.E. Newby, J.C. Yates, Manchester, United Kingdom, p.A5483

P1100 Single Inhaler Triple Therapy (ICS/LAMA/LABA) in Patients with Advanced COPD: Patient Reported Symptom and Inhaler Preference Results from the FULFIL Trial/M. Tabberer, D. Lomas, H. Barnacle, R. Birk, N. Brealey, C.-Q. Zhu, S. Pascoe, N. Locantore, D.A. Lipson, Uxbridge, United Kingdom, p.A5484

THEMATIC POSTER SESSION

C42 DYSPNEA: CASE REPORTS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area G, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: S. Bose, MD, MPH, New York, NY

P730 A Case of Negative Pressure Pulmonary Edema Due to Diffuse Idiopathic Skeletal Hyperostosis/T. Sueyasu, Y. Yoshimatsu, K. Murakami, Y. Goto, M. Munechika, S. Nishizawa, K. Yoshimine, Y. Ko, M. Asaji, K. Tsuruno, H. Ide, H. Miyajima, Y. Mukasa, N. Ebi, K. Tobino, Iizuka, Japan, p.A5485

P731 Unilateral Diaphragmatic Paralysis: A Rare Manifestation of Lyme Neuroborreliosis/B.B. Patel, S. Umar, Roanoke, VA, p.A5486

P732 Bronchogenic Cyst as the Cause of Respiratory Compromise in an Adult/H. Saiyed, M. Bachan, R. Siegel, Z. Khan, Bronx, NY, p.A5487

P733 A Management Dilemma: Submassive Pulmonary Embolism with Right Heart Thrombus/A. Houser, M. Abidali, S. Uppalapu, Phoenix, AZ, p.A5488

P734 Stridor Mystery: Do We Really Need to Intubate?/R. Habibi, A.J. Altamirano, H. Friedman, P. Limbu, Evanston, IL, p.A5489

P735 Cocaine Related Coronary Artery Dissection and Renal Infarcts in Post Partum Female/M. Ali, M.A. Zulqarnain, Winston Salem, NC, p.A5490

P736 A Rare Case of Spontaneous Pneumomediastinum in a Healthy Young Man/A. Wahab, S. Chaudhary, S.J. Smith, Flint, MI, p.A5491

P737 A Rare Case of Pulmonary Embolism Induced Symptomatic Bradycardia/P. Catella, S. Wiesel, A.H. Siddiqui, M. Chalhoub, Staten Island, NY, p.A5492

P738 Serial Lobar Lavage as an Alternative to Whole Lung Lavage for the Treatment of Symptomatic Pulmonary Alveolar Proteinosis/P. Shah, J. Lee, D. Hostler, Honolulu, HI, p.A5493

P739 Double Aortic Arch Causing Dyspnea in a Middle Aged Women/M. Venkata Subramani, Cleveland, OH, p.A5494

P740 Pulmonary Alveolar Proteinosis (PAP) - a Rare Case of Adult Onset Congenital PAP/M. Kalani, R. Sharara, A. Fasanya, V. Gandhi, E. Bihler, Pittsburgh, PA, p.A5495

P741 A Case of Acute Eosinophil Pneumonia in a 27 Year-Old Pregnant Female/E. Salem, J. Stalica, Rochester, NY, p.A5496

Facilitator: P. Terry, MD, Baltimore, MD

P742 A Rare Case of Relapsing Polychondritis Presenting with Life Threatening Airway Collapse/A. Ali, F. Adeel, N. Kapa, M. Taleb, S. Rehman, J. Willey, H. Badi, Toledo, OH, p.A5497

P743 Giant Bulla with Hilar and Paratracheal Lymphadenopathy in a Young Male Smoker: A Rare Case Report/H. Khan, S. Chaudhary, A. Wahab, M. Khan, S.J. Smith, Flint, MI, p.A5498

P744 Wound Botulism After Heroine Skin Popping/K. Olson, M. Abidali, S. Uppalapu, Phoenix, AZ, p.A5499

P745 Giant Hepatic Cyst Causing Hypercapnic Respiratory Failure/O.B. Taha, S. Khanijao, N. Somal, R. Fazio, K. Kitchloo, Brooklyn, NY, p.A5500

P746 Idiopathic Subglottic Stenosis Presenting in Pregnancy/B. Noumi, A. Attaway, M. Nagaraja, R. Folz, Cleveland, OH, p.A5501

P747 Severe Dyspnea: A Bone of Contention/R.A. Estrada, D.J. Maselli, J. Peters, San Antonio, TX, p.A5502

P748 Incidental Finding of Bronchopulmonary Sequestration in Elderly Woman/P. Tunsupon, M.J. Mador, Buffalo, NY, p.A5503

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P750 Breathtaking Brassiere: A Mysterious Case of Dyspnea with a Surprisingly Simple Explanation/A. Damodaran, I. Rubinstein, Chicago, IL, p.A5505

P751 A Diamond in the Rough: Pulmonary Alveolar Proteinosis in Myelodysplastic Syndrome/P.P. Patel, A.I. Geyer, New York, NY, p.A5506

P752 When Anxiety Can Take the Breath Away Literally/M. Fariduddin, K. Yashi, Syracuse, NY, p.A5507

P753 A Vicious Cycle: An Uncommon Presentation of Thoracic Endometriosis/A.D. Moody, R. Pagan, A. Chen, A. Nassar, Jacksonville, FL, p.A5508

Facilitator: C. Bime, MD, MSC, Tucson, AZ

P754 Pulmonary Amyloid: A Rare Cause of Dyspnea and Hemoptysis/D. Nandiraju, B. Lashari, W. Ward, Abington, PA, p.A5509

P755 Insidious Respiratory Failure in a 54-Year-Old Woman: The Clue to Diagnose a Family with Pompe Disease/M. Asadi Gharabaghi, A. Farid Rohani, S. Peiman, S. Kafan, M. Yadollahzadeh, Tehran, Iran, p.A5510

P756 Chest Pain and Dyspnea Secondary to a Rare Complication of Pancreatitis/E. Au, San Francisco, CA, p.A5511

P757 A Very Rare Cause of Low Oxygen Saturation (SaO2) with Normal Partial Pressure of Oxygen (PaO2)/J. Tu, J. Martires, D. Yick, Sylmar, CA, p.A5512



- P758 Treponea and Intracardiac Shunt Following Lobectomy/I.S.** Bazan, P. Adamson, L.T. Tanoue, W.H. Fares, H. Knight, New Haven, CT, p.A5513
- P759 Unilateral Pulmonary Hypoplasia in Adulthood - A Case Report/G.** Advita, R. Ragulan, N. Meenakshi, S. Aruna, Chennai, India, p.A5514
- P760 Airway Obstruction from a Massive Hiatal Hernia/A.** Rothman, M. Harris, New York, NY, p.A5515
- P761 Laryngeal Lichen Planus with Glottic Stenosis/A.** Alsattli, D. Wiltse, D. CaJacob, Cincinnati, OH, p.A5516
- P762 Not Every Orthopnea Means Heart Failure/N.** Mesiha, N. Mazhar, S. Tiek, S. Hasan, D. Goldsmith, Trenton, NJ, p.A5517
- P763 Acute Promyelocytic Leukemia Masquerading as an Asthma Exacerbation/N.A.** Sathe, B. Kwok, N. Chitkara, New York, NY, p.A5518
- P764 A Case Report of Pancreaticopleural Fistula in a Patient with Chronic Autoimmune Pancreatitis/A.** Shychuk, G. Lowther, H.A.M. Fakih, H. Alnuaimat, A. Ataya, Gainesville, FL, p.A5519
- P765 Diaphragmatic Rupture into the Lung in Patient with Muscular Dystrophy/A.** Shychuk, G. Lowther, H. Alnuaimat, A. Ataya, Gainesville, FL, p.A5520
- Facilitator:** L. Barr, MD, Baltimore, MD
- P766 Benign Metastatic Leiomyoma in the Absence of Uterine Leiomyoma/M.** Nagaraja, R. Abdul Rahman, J. Tomashefski, J. Faress, Cleveland, OH, p.A5521
- P767 A Rare Case of Non-Asthma/B.F.** Rodrigues, F.A. Almeida, H. Choi, Cleveland, OH, p.A5522
- P768 Pulmonary Alveolar Proteinosis: Not a Common Cause of Dyspnea/A.** Khan, I. Romero-Legro, C. Schuring, A. Sodhi, Memphis, TN, p.A5523
- P769 An Unusual Case of Neuromuscular Restrictive Lung Disease/A.H.** Ewida, E. Salem, A. Salama, J. Lyons, Rochester, NY, p.A5524
- P770 Pulmonary Alveolar Proteinosis Presenting as Dyspnea and Thrush/R.T.** Stringer, V. Secasanu, N. Sood, Columbus, OH, p.A5525
- P771 A Leaky Situation: Diagnosing Pancreaticopleural Fistulas/D.** Meranda, D. Sese, N. Patel, M. Passero, Akron, OH, p.A5526
- P772 Hypoxia and the Liver/P.S.** Pandya, London, United Kingdom, p.A5527
- P773 What You Didn't Expect When You Were Expecting/C.A.** Brillante, C. Ascoli, Chicago, IL, p.A5528
- P774 Native Valve Endocarditis Secondary to Actinomyces Israelii Leading to Hemolytic Anemia in an Immunocompetent Host/S.** Toom, P. Singh, P. Irukulla, A. Avula, Y. Xu, Brooklyn, NY, p.A5529
- P775 Pancreaticopleural Fistula - A Rare Complication of Pancreatitis/S.** Patri, C. DiFelice, Y. Agrawal, B. Hays, Kalamazoo, MI, p.A5530
- P776 A Case of Constrictive Bronchiolitis from Burn-Pit Inhalational Exposure in Iraq Treated with Tacrolimus/J.C.** Fernandez, V. Ananthanarayanan, D.F. Dilling, Maywood, IL, p.A5531

THEMATIC POSTER SESSION

C43 DRUG INDUCED LUNG DISEASE: CASE REPORTS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area G, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: P.B. Camus, MD, Dijon, France

P778 Short Course of Amiodarone-Induced Severe Lung Toxicity in Post-CABG Patient/U. Batnyam, A. Rajasekaran, J. Mellone, Orlando, FL, p.A5532

P779 Hemoptysis, a Rare Presenting Symptom of Amiodarone Induced Pulmonary Toxicity/R.Z. Tariq, H.A. Cheema, R. Parikh, Chicago, IL, p.A5533

P780 Amiodarone-Induced Pulmonary Toxicity/B.A. Jaumally, A. Salem, Baltimore, MD, p.A5534

P781 Diffuse Alveolar Haemorrhage (DAH): A Rare Complication of Anticoagulant Therapy with Warfarin/P. Nayyar, A. Jain, S. Gupta, C. Roy, A. Kapola, Delhi, India, p.A5535

P782 Diffuse Alveolar Hemorrhage: Who Is the Culprit?/M.U. Khawar, A. Hyslop, D. McGraw, Cincinnati, OH, p.A5536

P783 Daptomycin-Induced Eosinophilic Pneumonia/A. Riehani, G. Cooke, J. Stewart, M. Sharma, East Lansing, MI, p.A5537

P784 Daptomycin-Induced Acute Eosinophilic Pneumonia: A Treatable Serious Side Effect/M. Rachid, K. Ahmad, A. Shah, A. Nahhas, Oak Lawn, IL, p.A5538

P785 A Case of Bicalutamide Induced Interstitial Lung Disease/G. Polatoglu, R. Singhal, R. Minkin, Brooklyn, NY, p.A5539

P786 A Case of Pemetrexed Induced Interstitial Pneumonitis/A. Magge, K. Gross, M. Perez, West Hartford, CT, p.A5540

P787 Pembrolizumab Induced Organizing Pneumonia/A. Rajagopal, A.P. Maskey, Lexington, KY, p.A5541

Facilitator: R.J. Kaner, MD, New York, NY

P788 PI3K δ Inhibitor Pulmonary Toxicity/M.T. Bender, L.M. Sanso, N. Narula, B.-G. Harvey, R.J. Kaner, New York, NY, p.A5542

P789 Dasatinib-Induced Pulmonary Arterial Hypertension Reversed Following Treatment with Pulmonary Vasodilators/A. Jose, H. Rafei, A.W. McLean, J. Ahari, Washington, DC, p.A5543

P790 Dasatinib-Induced Chylothorax in Chronic Myeloid Leukemia/Z.A. Qutrio Baloch, Brandon, FL, p.A5544

P791 Pneumonitis After Elotuzumab Treatment a Case Report/C. Risquez, K. Gudi, New York, NY, p.A5545

P792 Palbociclib Related Pneumotoxicity: A Rare Side Effect/I. Ahsan, F. Malik, S.I. Jafri, Abington, PA, p.A5546

P793 Nivolumab: A Killer Cure?/C. Everett, S. Adams, T. Simpson, San Antonio, TX, p.A5547



P794 Acute Hypoxemic Respiratory Failure in a Patient with Metastatic Carcinoma; a Case of Programmed Death Ligand-1 Induced Pneumonitis/B.A. Silverman, K. Ramakrishna, J. Sugunraj, D. Bandyopadhyay, Daville, PA, p.A5548

P795 Blincyto (Blinatumomab) Induced Pneumonitis Case Report/A. Olson, J. Chertoff, A. Ataya, C. Trillo, M. Barnes, Gainesville, FL, p.A5549

P796 Rare but Real: Pleural Effusion Associated with Bosutinib Therapy for Chronic Myeloid Leukemia (CML)/H.A.M. Fakhri, S. Daouk, N. Moguillansky, Gainesville, FL, p.A5550

Facilitator: M. Hamblin, MD, Kansas City, KS

P797 Lenalidomide Induced Interstitial Lung Disease/H. Shahzad, J. Goralnik, E. Nadler, A. Qureshi, Farmington, CT, p.A5551

P798 A Rare Cause of Organizing Pneumonia: Idelalisib, an Oral Inhibitor of Phosphoinositide 3-Kinase Delta/A. Shakespeare, R. Franco, P. Sikka, U. Bhat, Temple, TX, p.A5552

P799 Technetium-99m (99mTc) Macroaggregated Albumin (MAA) Underestimates Hepatopulmonary Shunting Leading to Severe Radiation Pneumonitis Following Yttrium-90 Radioembolization: A Case Report/J.S. Mendelson, R. Postelnicu, D. Sridhar, A. Moreira, D. Smith, A. Basavaraj, New York, NY, p.A5554

P800 Sepsis and Pneumonitis Due to Intravesical BCG/R. Parikh, B.T. Suratt, P.R. Menon, Burlington, VT, p.A5555

P801 Bleomycin: Too Toxic for Your Own Good/R.C. Brammer, H.A. Cheema, K. Vipul, York, PA, p.A5556

P802 Excipient Lung: A Case Of PICC Line Abuse/J. Katsis, R. Guzy, A. Husain, L. Rosen, Chicago, IL, p.A5557

P803 Substance-Abuse-Induced Subcutaneous Emphysema and Pneumomediastinum Mimicking an Acute Allergic Reaction/M.J. Kwak, S.J. Rabadi, N.P. George, R.F. Lodato, Houston, TX, p.A5558

P804 Crack Lung: A Rare but Potentially Fatal Complication of Cocaine Use/S. Soni, O. Siddiqui, H.K. Puttagunta, Urbana, IL, p.A5559

P805 Acute Pulmonary Toxicity Caused by Methamphetamine Inhalation/A.M. Labus, R. Sangani, C. Hodder, S. Hoffmann, Morgantown, WV, p.A5560

P806 Hemoptysis: An Unusual Presentation/K.J. D'Souza, R.V. Varma, Vancouver, Canada, p.A5561

P807 Naloxone Induced Noncardiogenic Pulmonary Edema/N. Jiwa, H. Sheth, R. Silverman, Waterbury, CT, p.A5562

P808 Pneumonitis and Acute Hypoxemic Respiratory Failure Following Synthol Intramuscular Injection in a Bodybuilder/A. Elfituri, S. Akkineni, H. Bebars, D. Heller, Fort Lauderdale, FL, p.A5563

P809 Silicone Embolism Syndrome: A Case Series/M. Tobon-Trujillo, L. Arias, L.F. Jaramillo, A. Juyo, C. Villaquiran-Torres, Bogota, Colombia, p.A5564

P810 The Iron Lung: When Iron Pill Aspiration Results in an Immediate Bronchoscopy. A Successful Medical Therapy to a Serious Condition/S. Abuseif, M. Elsayaf, G. De La Luz, Neptune, NJ, p.A5565

P811 Acute Eosinophilic Pneumonia Due to Extended-Release Exenatide/C. Askin, T. Sjulian, J. Hull, J. Reis, Sam Houston, TX, p.A5566

P812 Acute Inhalational Metallic Nickel Poisoning: Report of 4 Cases/J. Zhang, Y. Mei, X. Chen, G. Zhang, K. Sun, H. Sun, X. Liu, B. Shen, Nanjing, China, p.A5567

P813 Silver Nitrate Aspiration, a Potentially Life Threatening Complication/S. Bekkers, J.A. Rijken, J.M.A. Daniels, R.N.P.M. Rinkel, J.-J. Hendrickx, S.E.J. Eerenstein, Amsterdam, Netherlands, p.A5568

P814 Sotalol Induced Diffuse Alveolar Hemorrhage/T. Pelleg, R.S. Kadakia, F. Siddiqui, F. Biscardi, S. Ie, Roanoke, VA, p.A5569

Facilitator: S. Nonas, MD, Portland, OR

P815 Desvenlafaxine-Induced Chronic Hypersensitivity Pneumonitis and a Literature Review of Venlafaxine-Induced Interstitial Pneumonitis/A. Flora, D. Pipoly, Toledo, OH, p.A5570

P816 Mediastinal Granulomatous Inflammation Secondary to Ruptured Silicone Breast Implants/S. Chaudhary, A. Wahab, H. Khan, M. Khan, S.J. Smith, A. Ghatol, Flint, MI, p.A5571

P817 Open Sesame/K. Cerreta, Salt Lake City, UT, p.A5572

P818 Carboxyhemoglobin as High as K2/N. Juul, A. Friedenberg, Palo Alto, CA, p.A5573

P819 A Case of Systemic Hypereosinophilia Associated with Doxycycline Administration/M. Nelson, P. Hoof, A. Mora, Dallas, TX, p.A5574

P820 An Extremely Rare Case of Diffuse Alveolar Hemorrhage (DAH) in an Elderly Female/A. Rasheed, M. Shahzadi, Z. Hashemi, H. Upadhyay, V. Vasudevan, L. Gerolemou, F. Arjomand, Brooklyn, NY, p.A5575

P821 ARDS? A Case of Methotrexate-Induced Acute Pneumonitis/I. Afzal, I. Wong, Lake Erie, PA, p.A5576

P822 Anthracosis of the Lungs: An Important Histologic Feature for the Accurate Diagnosis of Respiratory Bronchiolitis Associated Interstitial Lung Disease/S. Daouk, H.A.M. Fakhri, D. Urbine, Gainesville, FL, p.A5577

P823 Azathioprine Induced Lung Injury/C. Chan, P. Nystrom, Dayton, OH, p.A5578

THEMATIC POSTER SESSION

C44 IMMUNODEFICIENCY: CASE REPORTS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area M, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators



- P1349 HIV-Associated Polymorphic B-Cell Lymphoproliferative Disorder/J. Nauseef, M.T. Bender, M.L. Turetz, B.-G. Harvey, A. Chadburn, New York, NY, p.A5579**
- P1350 Missed HIV Diagnosis with Devastating Acute Respiratory Failure from Pneumocystis Jiroveci/U.I. Madufo, C.R. Martin, I. Elueze, Longview, TX, p.A5580**
- P1351 Primary Pulmonary Kaposi's Sarcoma as the Initial Presentation of HIV Infection/A. Dirweesh, M. Khan, S. Fawwad, M. Smith, N. Karabulut, Trenton, NJ, p.A5581**
- P1352 Persistent Hypothermia and Non-Convulsive Seizures in Human Immunodeficiency (HIV) Virus Positive Patient/I. Malhotra, M. Amith Shenoy, S. Shankar, H. Desoky, P. Irukulla, P. Chandar, A. Rai, Y. Kupfer, P. Gozenput, B. Shamian, R. Bernstein, Brooklyn, NY, p.A5582**
- P1353 Co-Presentation of Eosinophilic Granulomatosis with Polyangiitis with HIV Disease/D. Zusin, W.E. Harner, A.I. Philip, Bethesda, MD, p.A5583**
- P1354 A Case of Idiopathic CD4 T-Cell Lymphopenia with Asymptomatic Sjogren's Syndrome Presenting as Cryptococcal Pneumonia/S. Bukhari, S. Zia, A. Dirweesh, S. Wallach, Trenton, NJ, p.A5584**
- P1355 An Unusual Case of Ocular Syphilis/P. Chandar, S. Kulandaisamy, M. Amith Shenoy, P. Irukulla, I. Malhotra, H. Desoky, C. Seneviratne, W. Pascal, K. Chawla, Y. Kupfer, Brooklyn, NY, p.A5585**
- P1356 Alveolar Hemorrhage Secondary to Infection by Strongyloides Stercoralis in Immunosuppressed Patient - Case Report/T.T. Mafort, L.V.T. Reis, L.F. Faria, B.M. Pinto, R.V. Silva, C.S. Miranda, J.G.P. Oliveira, Rio de Janeiro, Brazil, p.A5586**
- P1357 Spontaneous Gram Negative Meningitis in Immunocompetent Patient Following a Rat Bite Bite/I.M. Ibrahim, Y. Alsayed, A. Aldarsani, A. Abdelsalam, H. Omara, M.M. Abdallah, Jeddah, Saudi Arabia, p.A5587**
- P1358 Why Does this Patient Have Pneumocystis? A Challenging Case of Granulomatous Pneumocystis and Rash as the Initial Presentation of Common Variable Immunodeficiency in the Context of Peripheral T-Cell Lymphoma/G.A. Fernandez Romero, R. Gupta, S. Ocheltree, D. Salerno, A. Bains, G. D'Alonzo, Philadelphia, PA, p.A5588**
- P1359 Dabigatran as a Very Rare Cause of Autoimmune Hemolytic Anemia/M.A. Zulqarnain, M. Ali, Lexington, KY, p.A5589**
- P1360 Pulmonary Alveolar Proteinosis and Disseminated Mycobacteriosis: A Terminal Complication of Myelodysplastic Syndrome/M.S. Rizvi, P.D. Scanlon, Rochester, MN, p.A5590**
- P1361 An Expanding Pulmonary Abscess Associated with Hyperimmunoglobulin E Syndrome/M. Rendo, S. Wood, A. Young, San Antonio, TX, p.A5591**
- P1362 Diffuse Tree-in-Bud Opacities Due to Pulmonary Alveolar Proteinosis Secondary to GATA2 Deficiency/D. Kay, D. Karanovic, M. Roth, D. Mollura, C. Millo, S. Holland, K.P. Fennelly, Washington, DC, p.A5592**
- P1363 A Case of Presumed Infection with Bordetella Bronchiseptica in an Immunocompromised Human Subject/K. Doo, R. Pillai, A. Kazeros, R. Smith, New York, NY, p.A5593**
- P1364 Common Variable Immune Deficiency (CVID) as the Likely Cause of Recurrent Pneumonias and Rhinosinusitis with Underlying Cryptogenic Organizing Pneumonia (COP)/A. Rajasekaran, M.A. Zulqarnain, Orlando, FL, p.A5594**
- P1365 History Matters: A Shockingly Toxic "Strep" in the Right Direction/J. Miely, S. Pandya, Chicago, IL, p.A5595**
- P1366 Bronchiolitis Obliterans Organizing Pneumonia in Association with Common Variable Immunodeficiency Syndrome/J.A. Hernandez-Portales, C. Zarate-Hernandez, A.J. De Leon-Yanez, Monterrey, Mexico, p.A5596**
- P1367 Immunoglobulin G4-Related Lung Disease Mimicking Pulmonary Langerhans Cell Histiocytosis on Imaging/M. Asadi Gharabaghi, S. Rafieian, H. Kazemizadeh, S. Peiman, F. Salahshour, Tehran, Iran, p.A5597**
- P1368 IgG4-Related Pulmonary Nodules Mimicking Malignancy/R. Shah, E.J. Britt, Baltimore, MD, p.A5598**
- P1369 Granulomatous-Lymphocytic Interstitial Lung Disease in Common Variable Immunodeficiency: A Case Report/M. Kwon, A. Zaid, I. Mira-Avendano, A. Khor, J.P. Leventhal, Jacksonville, FL, p.A5599**
- P1370 Mistaken Identity: Granulomatous and Lymphocytic Interstitial Lung Disease (GLILD) and Common Variable Immune Deficiency (CVID) Initially Diagnosed as Sarcoidosis/N. Arger, K.D. Jones, K. Gundling, L.L. Koth, San Francisco, CA, p.A5600**
- P1371 An Unusual Mimicker of Asthma in an Active Duty Army Physician/C. Askin, J. Reis, Sam Houston, TX, p.A5601**

THEMATIC POSTER SESSION

C45 EBUS AND AIRWAY INTERVENTIONS: IP CASE REPORTS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area M, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J. Cicens, MD, Cleveland, OH

- P1373 Endobronchial Ultrasound-Detected Pulmonary Embolus in a Lung Transplant Patient/A.D. Sesay, B. Wendlandt, A. Belanger, L.J. Lobo, J.A. Akulian, R. Coakley, Chapel Hill, NC, p.A5602**
- P1374 Air Everywhere: Pneumomediastinum After EBUS Bronchoscopy/D. Smith, E. Rubio, S. Ie, A. Loschner, F. Siddiqui, D. Baheti, M. Foroozesh, Roanoke, VA, p.A5603**
- P1375 A Rare Posterior Mediastinal Mass Diagnosed by EBUS/A. Ramaswamy, M. Senitko, N. Neparidze, J. Puchalski, New Haven, CT, p.A5604**
- P1376 Symptomatic Bronchogenic Cyst with Vascular Compression and Actinomycosis Superinfection Treated with Endobronchial Ultrasound-Guided Transbronchial Needle Aspiration (EBUS-FNA)/A.J. Hayek, U. Bhat, T. Lat, P. Sikka, Temple, TX, p.A5605**



P1377 Biopsy of Supraclavicular Lymph Node in Patients Referred for Staging EBUS by Interventional Pulmonologists: A Case Series/R.J. Cho, F. Zamora, H. Gibson, E. Dincer, Minneapolis, MN, p.A5606

P1378 Endobronchial Ultrasound: An Alternative Modality for Bronchogenic Cyst Diagnosis/T. Abdo, C. Hamilton, L. Zhao, A. Awab, Oklahoma City, OK, p.A5607

P1379 Diagnosis of Mediastinal Recurrence of Seminoma with Endobronchial Ultrasound/A.H. Alraiyes, P. Tunsupon, Zion, IL, p.A5608

Facilitator: P. Shah, MD, London, United Kingdom

P1380 EBUS Elastography Helps Differential Diagnosis and Characterization of Pulmonary Artery Sarcoma (PAS)/E. Torricelli, M. Trigiani, M. Innocenti, S. Romani, V. Luzzi, F. Leoncini, M. Bezzi, Florence, Italy, p.A5609

P1381 Endobronchial Ultrasound; Wait but That's the Heart!!!/R. Mutneja, J. Goralnik, E. Nadler, A.S. Magge, O. Ibrahim, Farmington, CT, p.A5610

P1382 Spud Aspiration: Removal of a Raw Potato from the Airway/A. Tandon, R. Balestra, A. Aragaki, Cincinnati, OH, p.A5611

P1383 Foreign Body Aspiration Presenting As Empyema/B. Wolk, S. Clum, K. Cao, Tampa, FL, p.A5612

P1384 Cherry Pit Extraction Leading to Incidental Finding of Carcinoid Tumor Treated with Argon Plasma Coagulation Laser/A. Patel, G. Pierson, J. Gordon, Pueblo, CO, p.A5613

P1385 Unusual Case of Popcorn Gone Away/N. Biru, A.F. Shorr, J. Wang Memoli, Washington, DC, p.A5614

P1386 Endobronchial Leiomyoma in Pregnancy: Successful Therapeutic Bronchoscopic Resection/T. Hotze, D. Hyman, V. Bandi, Houston, TX, p.A5615

Facilitator: F. Maldonado, MD, Nashville, TN

P1387 Primary Endobronchial Schwannoma Successfully Removed Via Rigid Bronchoscopy on Veno-Venous Extracorporeal Membrane Oxygenation (VV-ECMO) Support/C.X. Giovacchini, B. Blough, L. Chen, M.M. Wahidi, Durham, NC, p.A5616

P1388 A Middle-Aged Man Presenting with Synchronous Endobronchial Lesions/S.J. Callahan, E. Dill, M. Stoler, N. Malik, Charlottesville, VA, p.A5617

P1389 Well-Differentiated Liposarcoma Causing Endobronchial Occlusion: A Case Report/L. Fernandez, L. Gutierrez, J. Maya, L.F. Sua, Cali, Colombia, p.A5618

P1390 Endotracheal Metastasis from a Primary Melanoma of the Sinonasal Cavity: A Case Report/L. Fernandez, L. Gutierrez, L.F. Sua, B. Perez, Cali, Colombia, p.A5619

P1391 Myeloid Sarcoma Presenting as an Endobronchial Lesion Causing Recurrent Post-Obstructive Pneumonia/A.M. Andruska, T. Desai, N. Serling-Boyd, Stanford, CA, p.A5620

P1392 Removal of an Endobronchial Chondroid Hemartoma with Cryoadhesion/T. Leclair, F. Kheir, Y.B. Gesthalter, A.Y.-O. Yakubu-Owolewa, M. Parikh, Burlington, VT, p.A5621

P1393 Recurrent Respiratory Papillomatosis/L.A.L. Somerville, H.C. Malpass, Charlottesville, VA, p.A5622

Facilitator: R. Semaan, MD, Pittsburgh, PA

P1394 Tracheal Papillomatosis/T. Cheng, M. Davoudi, J. Longoria, Orange, CA, p.A5623

P1395 Not All Endobronchial Lesions Should Be Biopsied: A Case of Massive Hemoptysis and Endobronchial Varices/J. Filopei, R. Patel, S. Acquah, New York, NY, p.A5624

P1396 A Rare Case of a Benign Primary Pleomorphic Adenoma of the Lung/S. Mahmoud Assaf, V. Kanchustambham, D. Stoeckel, N. Wilgus, E.B. Staros, St. Louis, MO, p.A5625

P1397 A Rare Cause of Tracheal Stenosis: Klebsiella Rhinoscleromatis/A.E. Foderaro, K. Corl, M. Geary, R. Rogers, D. Banerjee, M.H. Tukey, Providence, RI, p.A5626

P1398 Life or Death: A Case of Near Complete Tracheal Obstruction/T. Case, A.P. Maskey, Nicholasville, KY, p.A5627

P1399 Endobronchial Argon Plasma Coagulation for Post Intubation Tracheal Stenosis in a Patient on Dual Antiplatelet Therapy/A. Agarwal, K. Cruz Morel, R. Terrigno, W. Abouzgheib, Camden, NJ, p.A5628

P1400 Re-Expansion of a Unilateral Whole Lung Collapse After Endobronchial Intervention of a Non-Small Cell Lung Cancer/R. Mazo, A. Sadoughi, Bronx, NY, p.A5629

THEMATIC POSTER SESSION

C46 PLEURAL DISEASE: CASE REPORTS II

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area M, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: P. Shah, MD, London, United Kingdom

P1402 Duodenal Carcinoma Presenting with Pleurisy/E.L. Scholten, H. Wangberg, J. Joshua, M. Fuster, La Jolla, CA, p.A5630

P1403 Hidden Behind the Effusion Lies an Unexpected Diagnosis/M.A. Farinacci Vilaro, M. Yunes, L. Gerena Montano, M. Cruz Caliz, H.J. Maldonado-Quintana, K.X. Rivera Manzano, J.E. Nieves-Scharon, M. Rivera, San Juan, PR, p.A5631

P1404 Intercostal Artery Laceration: Rare Complication of Thoracentesis and Role of Ultrasound in Early Detection/W. Mansour, G. Samaha, S. El-Bitar, Z. Esper, R. Maroun, Staten Island, NY, p.A5632

P1405 Lemierre's Syndrome Complicated by Lung Entrapment/H. Gaztambide, Gainesville, FL, p.A5633

P1406 Hyperplasia of Lymphoid Follicles and Lymphangiectasia in the Parietal Pleura of Bucillamine-Induced Yellow Nail Syndrome/I. Hase, K. Kurasawa, H. Takizawa, B. Yamaguchi, Y. Ishii, Koriyama, Japan, p.A5634



- P1407 A Rare Case of Extraskelatal Mesenchymal Chondrosarcoma of the Pleura/R. Gupta, D.K. Lee, H. Patail, D. Buchnea, J.A. Gorga, S. Zulqarnain, New York, NY, p.A5635**
- P1408 Does Multiple Myeloma Affect the Respiratory System?/M. Abu Omar, M. Abu Ghanimeh, S. Ashraf, D. Dim, D. Arif, A. Gohar, G. Salzman, Kansas City, MO, p.A5636**
- P1409 Case Report: Intercostal Lung Herniation 14 Years After Mitral Valve Surgery/N.-T. Ha, M. Milan, T. Botta, Danbury, CT, p.A5637**
- P1410 Pleural Plaques Due to Asbestos Exposure in Infancy/E. Solbes, R. Harper, Sacramento, CA, p.A5638**

Facilitator: S. Gay, MD, Ann Arbor, MI

- P1411 Pleural Fibromatosis and Hydroxyurea Therapy/R. Anders, J. Keshavamurthy, Augusta, GA, p.A5639**
- P1412 Unusual Presentation of Pancreatic Pseudocyst Extending into the Pleural Space and Posterior Mediastinum/H. Oo, L. Dayal, K. Patel, Englewood, NJ, p.A5641**
- P1413 An Unusual Case of Mesothelioma/S. Campbell, T. Salim, B. Mba, L. Hernandez, S. Alnaimat, H. Deleon, Chicago, IL, p.A5642**
- P1414 Why Your Chihuahua May Not Be Your Best Friend/S. Iusim, D.R. Fraidenburg, Chicago, IL, p.A5643**
- P1415 Endobronchial Ultrasound Guided Pleural Fluid Aspiration/S. Baig, N. Nagella, O. Pistun, New Brunswick, NJ, p.A5644**
- P1416 Complex Chest Wall Reconstruction Case Report: Novel Use of Prosthetic Components Intraoperatively/R. Thanawala, E. Ziarnik, R. Ganim, G. Hochheiser, A. Doben, Springfield, MA, p.A5645**
- P1417 Malignant Mesothelioma - Novel Approach to Pleural Sampling/K. Linga, V. Gomez, J.P. Leventhal, Jacksonville, FL, p.A5646**
- P1418 Bronchopleural Fistula Presenting as Diffuse Subcutaneous Emphysema/A. Riehani, O. Wilcox, W.M. Odeh, M. Kehdi, J. Armstrong, East Lansing, MI, p.A5647**

Facilitator: L. Yarmus, DO, Baltimore, MD

- P1419 Vulvar Carcinoma Metastatic to the Pleura: First Report/I.R. Kugasia, G.A. Khan, L. Han, R. Malekan, L. DeLorenzo, O. Epelbaum, Valhalla, NY, p.A5648**
- P1420 A Case of Hepatic Hydrothorax with a Persistent Lymphocytic Exudative Effusion that Developed After Laparoscopic Cholecystectomy and Liver Biopsy/A. Goizueta, E. Copelin, J. Meharg, Providence, RI, p.A5649**
- P1421 Pleural Fluid Eosinophilia as a Rare Complication of Mesalamine in Patient with Ulcerative Colitis/I. Lalani, D. Lourdasamy, W. Ghali, Long Branch, NJ, p.A5650**
- P1422 Genetic Homology Between Bacteria in Pus from Empyema and Bacteria in the Oral Cavity of a Patient with Empyema Secondary to Posttraumatic Hemothorax/R. Katsuda, J. Inubushi, T. Eguchi, K. Terada, R. Kagami, Y. Fukuda, Y. Onishi, K. Miyake, Y. Yokoi, Y. Mizumori, H. Tsukamoto, S. Sasaki, T. Kawamura, Y. Nakahara, Himeji-shi, Japan, p.A5651**

- P1423 An Interesting Case of a Pleural Based Lesion as Seen on Chest X-Ray/P. Gurram, V. Wadhwa, V.S. Koppurapu, T. Pandey, Little Rock, AR, p.A5652**
- P1424 Diagnosis of Epithelioid Mesothelioma by Pleural Cryobiopsies Using Semi-Rigid Pleuroscopy/E.M. DeBiasi, G. Cai, K. Bramley, New Haven, CT, p.A5653**
- P1425 An Unusual Etiology of Delayed Progressive Chest Pain After Blunt Chest Trauma/H. Avella, S.R. Mummadi, Hillsboro, OR, p.A5654**
- P1426 Failure of Occam's Razor: Obstructive Urinothorax After a Nephrostomy/K. Singh, V. Lakticova, A. Agrawal, New Hyde Park, NY, p.A5655**
- P1427 An Unusual Cause of Chest Pain and Right Sided Pleural Effusion/M. Taleb, S. Rehman, A. Ali, H. Badi, Y. Abdel-Aziz, F. Safi, Toledo, OH, p.A5656**

Facilitator: J.A. Akulian, MD, MPH, Chapel Hill, NC

- P1428 Pleural Effusion in the Setting of Isolated Right Heart Failure: A Novel Mechanism/A. Ajakumar Menon, B. Seth, H.W. Farber, F. Schembri, Boston, MA, p.A5657**
- P1429 A Unique Presentation of Coccidioidomycosis/S. Copeland, R. Alalawi, Lubbock, TX, p.A5658**
- P1430 A Pragmatic Dilemma! Managing Persistent Post-Surgical Thoracic Empyema with Intrapleural Antibiotics and Eloesser Flap/H.A.M. Fakihi, S. Daouk, D. Urbine, Gainesville, FL, p.A5659**
- P1431 Safe Administration of Intrapleural Alteplase During Pregnancy/H. Torbic, H. Inaty, S. Raja, H. Choi, Cleveland, OH, p.A5660**
- P1432 Rare Case of Indwelling Pleural Catheter (IPC) Failure and Institutional Review of 250 IPC Cases/R. Hallifax, R. Asciak, J. Corcoran, R. Mercer, I. Psallidas, N.M. Rahman, Oxford, United Kingdom, p.A5661**
- P1433 Atypical Presentation of Pleural Tuberculosis: A Diagnostic Challenge in a German Student/J. Margapuri, M. Rath, J. Stoeckel, M. Bachan, Z. Khan, Bronx, NY, p.A5662**
- P1434 The Use of Ultrasound and Color Doppler to Localize Trans-Diaphragmatic Flow in Hepatic Hydrothorax/K.A. Gershner, H. Sauthoff, New York, NY, p.A5663**
- P1435 Is Chest Tube Thoracostomy Contraindicated in Cirrhotic Patients? A Case of Spontaneous Bacterial Empyema in a Cirrhotic Patient Managed Via Chest Tube Thoracostomy/G. Venious, D. Herman, J.W. McCallister, Columbus, OH, p.A5664**
- P1436 A Rare Case of Superbug Acinetobacter Baumannii Related Empyema/M. Kashif, D. Arya, M. Khaja, Bronx, NY, p.A5665**

Facilitator: J. Puchalski, MD, New Haven, CT

- P1437 Rapid Developing Empyema by Group F Beta Hemolytic Streptococci (Streptococcus Milleri)/M. Azharuddin, P. Dy, P. Shukla, A. Mathur, Long Branch, NJ, p.A5666**
- P1438 Candida Krusie Fungal Empyema Caused by Esophageal Tear/I. Shahoub, H.S. Bukamur, F. Zeid, Huntington, WV, p.A5667**



- P1439** **Recurrent Respiratory Failure and Bilateral Pleural Effusions in a Patient with IgG4-Related Disease/A.** Cannavo, R. Patell, P. Rampersad, H. Choi, Cleveland, OH, p.A5668
- P1440** **An Unusual Presentation of Unilateral Pleural Effusion/T.** Phupitakphol, F. Kotova, A. Atsawarungruangkit, A. Somers, Framingham, MA, p.A5669
- P1441** **Salmonella Empyema: A Case of a Superinfected Pleural Effusion/M.** Tirumandas, M. Bernstein, Stamford, CT, p.A5670
- P1442** **An Unusual Case of Pulmonary Nodules/M.M.** Howsare, U. Gauhar, Louisville, KY, p.A5671
- P1443** **A Different Kind of Premenstrual Syndrome/J.A.** Williams, V. Shannon, Houston, TX, p.A5672
- P1444** **Salmonella Pleurisy After Thoracotomy for Anterior Mediastinal Thymoma/J.** Yang, I. Britton, San Diego, CA, p.A5673

THEMATIC POSTER SESSION

C47 COPD: PHYSIOLOGIC ASSESSMENT9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area L, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: N. Marchetti, DO, Philadelphia, PA

- P1102** **Prevalence of Low Peak Inspiratory Flow Rate in Ambulatory Patients with COPD/L.L.** Tung, A. Duarte, J. Mills, J. Martinez, G. Sharma, Galveston, TX, p.A5674
- P1103** **Comparative Measurement Properties of Constant Work-Rate Cycling and Endurance Shuttle Walking in Patients with COPD: Data from the TORRAC TO Study/F.** Maltais, D.E. O'Donnell, A. Hamilton, Y. Zhao, R. Casaburi, Quebec, Canada, p.A5675
- P1104** **Persistent Versus Transient Diagnosis of Airway Obstruction in Subjects at Risk of Chronic Obstructive Pulmonary Disease (COPD): Associations with Clinical Outcomes/H.** Reddel, A. Crockett, C. Thamrin, T. Schermer, Sydney, Australia, p.A5676
- P1105** **Vital Capacity Response to Bronchodilator as a Predictor of Dynamic Hyperinflation on Stage 1 Cardiopulmonary Exercise Testing/A.** Kouri, M. Stanbrook, Toronto, Canada, p.A5677
- P1106** **Artificial Intelligence Detects Lung Diseases Using Pulmonary Function Tests/M.** Topalovic, J.-M. Aerts, M. Decramer, T. Troosters, W. Janssens, Leuven, Belgium, p.A5678
- P1107** **Effects of Continuous Positive Airway Pressure on Respiratory Mechanics and Neural Respiratory Drive in Patients with Stable Chronic Obstructive Pulmonary Disease/X.** Chen, P. Luo, Y. Chen, Y. Huang, K. Wang, Y. Hu, W. Xu, Guangzhou, China, p.A5679
- P1108** **Closing the Gap Between the American Thoracic Society Criteria and Global Initiative for Chronic Obstructive Lung Disease Criteria in Defining Obstruction: Does Additional PFT Characterization Refine the Diagnosis?/N.** Mahmoud, C. Bime, C.E. Berry, Tucson, AZ, p.A5680
- P1109** **Impact of Breath Pattern Modification on CO₂ Elimination: A Single Breath VCO₂ Bench Model/B.** Tiep, M. Barnett, Monrovia, CA, p.A5681
- Facilitator: X. Soler, MD, PhD, San Diego, CA
- P1110** **A Model to Predict Residual Volume from Forced Spirometry Measurements/J.** Evankovich, S.M. Nouraie, C. Karoleski, F.C. Sciurba, Pittsburgh, PA, p.A5682
- P1111** **Comparison of Pre- and Post-Bronchodilator Dysanapsis Ratios with Common Spirometric Measures/A.** Mishra, M. Eberlein, V. Kim, M.K. Han, R. Bowler, A.P. Comellas, S. Fortis, Iowa City, IA, p.A5683
- P1112** **Clinical Implications of Diaphragm Morphology Assessed by Computed Tomography in the Canadian Cohort of Obstructive Lung Disease (CanCOLD)/A.A.** Donovan, G. Johnston, D. Jensen, H.O. Coxson, S. Gottfried, B.J. Petrof, F. Maltais, J. Bourbeau, B.M. Smith, Montreal, Canada, p.A5684
- P1113** **Exercise-Induced Changes in Muscle-Specific microRNA Expression in COPD Patients/S.E.** Jolley, M.R. Lammi, S.C. Okpechi, S. Stender, A.H. Boulares, B.P. DeBoisblanc, P.E. Molina, L. Simon, New Orleans, LA, p.A5685
- P1114** **Spirometry in Patients at High Risk of Diagnostic Error for Chronic Obstructive Pulmonary Disease (COPD) Versus Usual Care in Primary Care: A Pilot Randomized Control Trial (RCT)/A.** Bunyan, M.J. Joo, Berwyn, IL, p.A5686
- P1115** **Correlation Between Pulmonary Function and the Software-Based Quantification of the Degree of Emphysema and Airway Wall Thickening in Patients with COPD/Y.** Wada, Y. Kitaguchi, M. Yasuo, N. Kobayashi, K. Tateishi, K. Urushihata, A. Ushiki, H. Yamamoto, M. Hanaoka, Matsumoto, Japan, p.A5687
- P1116** **Low DL_{CO} but Preserved K_{CO} in Chronic Airflow Limitation: Effects of Disease Severity/J.** Ladha, D. Berton, D. O'Donnell, A. Neder, Kingston, Canada, p.A5688
- P1117** **Comparison of the Obstruction Results in Spirometry Defined by LLN and GOLD Criteria in Mexican Population, at the Hospital General de Mexico, in the Period 2013-2016 ¿What Would We Missed?/Y.** Mares, M. Diaz, R.R. Hernandez, Mexico City, Mexico, p.A5689
- Facilitator: V. Pinto-Plata, MD, Springfield, MA
- P1118** **Effects of Walking Exercise and Diaphragmatic Training on Improving Reflux Symptoms Among COPD Patients/Y.-H.** Lin, C. Jeng, C.-L. Tsai, Taipei, Taiwan, p.A5690
- P1119** **"Quantitative Chest-CT for Differentiation Between Patients with Chronic Pulmonary Graft-Vs.-Host Disease (GvHD) Vs. Chronic Obstructive Lung Disease (COPD)"/M.** Horger, C. Kloth, K. Nikolaou, W. Spengler, W. Thaiss, J. Hetzel, Tuebingen, Germany, p.A5691
- P1120** **Reproducibility of Automated Analysis of Neural Respiratory Drive from Parasternal Intercostal Muscle Electromyography Over Multiple Self-Measurements by Stable COPD Patients/S.** Devot, P. Nisha, R. Priori, C. Barretto, R. Derkx, G. Kooijman, J. Van De Laar, W. Sims, N. Hart, Cambridge, United Kingdom, p.A5692



- P1121 Does FEV1 in Addition to Fixed Ratio and/or Lower Limit of Normal of FEV1/FVC Improve Prediction of Mortality: The NHANES-III-Linked-Mortality Cohort/Y.** Odeyemi, O. Lewis, K. Dodd, J. Obi, J. Ngwa, R. Gillum, A. Mehari, Washington, DC, p.A5693
- P1122 Fixed Ratio Vs. Lower Limit of Normal of FEV1/FVC Criteria for COPD and Mortality: The NHANES-III-Linked-Mortality Cohort/O.** Lewis, Y. Odeyemi, K. Dodd, K. Spencer, J. Ngwa, A. Mehari, R. Gillum, Washington, DC, p.A5694
- P1123 Systematic Literature Review of the Rate of Decline of FEV₁ in COPD/H.** Quasny, K. Bonar, B. Celli, P.M.A. Calverley, P.W. Jones, E. Hilton, H. Mullerova, F.J. Martinez, J.C. Yates, C. Compton, Research Triangle Park, NC, p.A5695
- P1124 Risk Stratification for Airflow Obstruction-Related Outcomes Based on a Renewed Japanese Spirometric Reference by Using the Lambda-mu-Sigma Method/N.** Hashimoto, Y. Okada, K. Sakamoto, Y. Hasegawa, Nagoya, Japan, p.A5696

THEMATIC POSTER SESSION

C48 COPD: CASE REPORTS I

9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area L, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: C. Martinez, MD, MPH, Ann Arbor, MI

- P1126 Extremely High Plasma Desmosine Level in a Patient with COPD and an Acute Incarcerated Inguinal Hernia/R.** Janssen, M. Spanbroek, J.M. Van Den Ouweland, Nijmegen, Netherlands, p.A5697
- P1127 Use of Continuous High-Frequency Oscillation (CHFO) and Continuous Positive Expiratory Pressure (CPEP) Therapy in a Patient Admitted for COPD Exacerbation: Quality Improvement and Unexpected Benefit/C.** Landon, Ventura, CA, p.A5698
- P1128 Life2000: An Ambulatory Ventilator's Role in Improving Outcomes for Pulmonary Compromised Patients/C.** Landon, R. Gregg, Ventura, CA, p.A5699
- P1129 Novel Use of Isoflurane Through Extra-Corporeal Membrane Circulation for Treatment of Severe Bronchospasm/P.** Duvvuri, S. Basnet, G. Gilbert, G. Boudier, Winchester, VA, p.A5700
- P1130 An Unusual Cause of Obstruction/J.** Lee, N. Ali, H. Nazir, M. Christina, P. Patel, Newark, NJ, p.A5701
- P1131 A GOLD Stage 3 COPD Patient «Cured» by One-Way Endobronchial Valves/E.** Marchand, J.-P. D'Odemont, M.V. Dupont, Namur, Belgium, p.A5702
- P1132 A Case of Severe Chronic Obstructive Pulmonary Disease (COPD) Associated with Excessive Dynamic Airway Collapse (EDAC)/V.** Baez Sosa, B.A. Jaumally, Baltimore, MD, p.A5703

- P1133 A Case of Cutis Laxa with Juvenile Emphysema Arising from Frameshift Mutations in Exon 30 of the Elastin Gene (ELN)/H.** Namkoong, M. Ishii, K. Yagi, S. Chubachi, A. Tsuji, K. Kosaki, T. Betsuyaku, Tokyo, Japan, p.A5704

Facilitator: C.E. Come, MD, MPH, Boston, MA

- P1134 Alpha 1-Antitrypsin Pi MZ vs Pi ZZ: Ramifications of a Mistaken Identity/K.L.** Niehaus, N. Velasco, M. Rashkin, M. Brantly, R. Hebbeler-Clark, B.C. Trapnell, Cincinnati, OH, p.A5705
- P1135 Severe Bullous Lung Disease Associated with Neurofibromatosis Type 1/J.A.** Kelbe, M. Ellis, J. Prudom, S. Ahmad, Milwaukee, WI, p.A5706
- P1136 An Unusual Complication of Inhaled Corticosteroids in an HIV Infected Patient/M.S.** Ali, F.D. Ciftci, S. Kooragayalu, B. Mba, A. Kohli, U. Ghorri, A.S. Ali, R.A. Franco, Milwaukee, WI, p.A5707
- P1137 Chronic Carbon Monoxide Retention in an Active Smoker: Is The Contribution of COPD and Sleep Disordered Breathing Underappreciated?/S.** Verga, R. Sedhom, W. Khan, New Brunswick, NJ, p.A5708
- P1138 Alpha 1 Antitrypsin Deficiency with Normal Levels Presenting as a Diagnostic Challenge/S.** Menon, S. Marupudi, M.I. Ahmad, F. Khan, A. Malik, Winston-Salem, NC, p.A5709
- P1139 Holey Moly! A Case of the Vanishing Lung/J.** Paralkar, N. Ramesh, A. Miller, New York, NY, p.A5710
- P1140 Airway Tethering Following Insertion of Endobronchial Coils for Emphysema/C.** Carbone, J. Killam, G.C. Michaud, New Haven, CT, p.A5711
- P1141 Post-Endoscopic Lung Volume Reduction Coil Associated Inflammatory Response/J.** Killam, C. Carbone, G.C. Michaud, New Haven, CT, p.A5712

THEMATIC POSTER SESSION

C49 COPD: TREATMENT

9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area L, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: R. Kalhan, MD, MS, Chicago, IL
A. Gurgun, MD, Izmir, Turkey

- P1143 Guaifenesin and Its Role as a Treatment in Mucus Hypersecretion Associated with Chronic Obstructive Pulmonary Disease/J.** Whipple, T. Terraciano, J. Hunt, A. Shephard, E. Guenin, Parsippany, NJ, p.A5713
- P1144 Inhaled 7% Hypertonic Saline Is Safe to Administer in Patients with Moderate to Severe Chronic Obstructive Pulmonary Disease (COPD)/E.** Cole, R.C. Boucher, F. Fuller, A.G. Henderson, Chapel Hill, NC, p.A5714



P1145 Non-Invasive Positive Pressure Ventilation for Patients with Severe Hypercapnia Undergoing Lung Volume Reduction Surgery/S. Shimizu-Saito, P. Diaz, M. Rittinger, S. Cackler, S. Moffatt-Bruce, Columbus, OH, p.A5715

P1146 Long-Term Impact of Non Invasive Open Ventilation (NIOV™) on Dyspnea in Patients with Chronic Obstructive Pulmonary Disease and Idiopathic Pulmonary Fibrosis/K. Lam, A. Breiburg, W. Kuschner, C. Zone, G. Dhillon, Palo Alto, CA, p.A5716

P1147 Effects of Domiciliary Nasal High Flow (NHF) in Chronic Hypercapnic COPD Patients on Quality of Life and Gas Exchange in a Randomized Crossover Study/G. Nilius, U. Domanski, M. Schroeder, K.-J. Franke, S. Tatkov, Hagen, Germany, p.A5717

P1148 May Desaturation During 6-Minute Walk Test Predict Nocturnal Desaturation in COPD Patients?/L.V.T. Dos Reis, A.C. Faria, E.J.C. Bessa, F.D.O. Chibante, R. Rufino, C. Costa, Rio de Janeiro, Brazil, p.A5718

P1149 The Impact of Testosterone Therapy on Hospitalization Rates in Older Men with Chronic Obstructive Pulmonary Disease/M.F. Zaidan, J. Baillargeon, N.-W. Chen, R.J. Urban, Y.-F. Kuo, G. Sharma, Galveston, TX, p.A5720

P1150 Coil Lung Volume Reduction for Patients with Severe Emphysema: Pre-Operative Quantitative Computer Tomography (CT) Analysis/K. Kontogianni, K. Russell, D. Gompelmann, R. Eberhardt, S. Wood, F.J.F. Herth, Heidelberg, Germany, p.A5721

Facilitator: C.L. Rochester, MD, New Haven, CT

P1151 Endobronchial Valves Therapy for Advanced Emphysema: A Meta-Analysis/S.W. Low, J.Z. Lee, H. Desai, J. Knepler, Tucson, AZ, p.A5722

P1152 Endobronchial Valves for Emphysema: An Individual Patient Level Reanalysis of Randomised Controlled Trials/N.S. Hopkinson, D.-J. Slebos, Z. Zoumot, C. Davey, P. Shah, K. Klooster, London, United Kingdom, p.A5723

P1153 Effect of Roflumilast on Exacerbations in Patients with Severe COPD and a History of Hospitalization Receiving Inhaled Combination Therapy: A Pooled Analysis of Two Randomized Phase 4 Studies/F.J. Martinez, K.F. Rabe, P. Calverley, L.M. Fabbri, S. Sethi, E. Pizzichini, A. McIvor, A. Anzueto, V. Alagappan, S. Saddiqui, C. Reisner, S. Zetterstrand, J. Roman, N. Bagul, S.I. Rennard, New York, NY, p.A5724

P1154 Predictors of Treatment with Nebulized Long-Acting Beta2 Agonists Among Medicare Beneficiaries with Chronic Obstructive Pulmonary Disease/M. Navaie, T.P. Gilmer, V. Ganapathy, Z. Xu, G. Sharma, S. Cho-Reyes, B.R. Celli, New York, NY, p.A5725

P1155 Roflumilast and Chronic Obstructive Pulmonary Disease Exacerbation: Who at Risk for Indication?/A. Sadigov, R. Bagirov, Baku, Azerbaijan, p.A5726

P1156 Comparison of Inhaler Use and Patient Satisfaction Between Genuair and Respimat Inhalers in Patients with COPD: A Randomized Crossover Study/H. Ohbayashi, S. Kudo, M. Ishikawa, Mizunami, Japan, p.A5727

P1157 Long Term Oxygen Therapy: A Study on Oxygen Therapy Knowledge and Compliance in Urban Community Hospital/A. Karki, V. Patel, K. Sherani, T. Ullah, A. Fein, Jamaica, NY, p.A5728

P1158 Comparison of Incidence of Adverse Effect and Discontinuation Rate of Roflumilast Between 250 and 500 Microgram/H. Joo, C.K. Rhee, Seoul, Korea, Republic of, p.A5729

Facilitator: A.P. Comellas, MD, Iowa City, IA

P1159 Designing an Acute Intervention Trial in Patients Hospitalised for AECOPD: Experience from the Ph2 AETHER Study of Acumapimod (BCT197) p38 MAP Kinase Inhibitor/J.M. Parkin, M. Vaz, C. Orford, D. Quinlan, C. Farrell, I. Hodgson, W. Moore, J.A. Wedzicha, London, United Kingdom, p.A5730

P1160 Long-Term Azithromycin Therapy to Reduce Acute Exacerbations in Patients with Severe Chronic Obstructive Pulmonary Disease/N. Naderi, A. Joubert, S.-M.-Y. Mostafavi-Pour-Manshadi, I. Ouellet, I. Drouin, P. Zhi Li, D.A. Assayag, J.B. Bourbeau, Montreal, Canada, p.A5731

P1161 Oxygen and Hypercapnia: Practicing "Safe Sats"/G. Rocker, H. Kennedy, J. Demmons, Halifax, Canada, p.A5732

P1162 Real-World Evidence of Medication Effects on Asthma-Chronic Obstructive Pulmonary Disease Overlap Syndrome: Data from 374,903 Patients/V.Y.-F. Su, Taipei, Taiwan, p.A5733

P1163 Response Patterns of Respiratory Symptoms to Administration of Antibiotic Therapy in Outpatient Chronic Obstructive Pulmonary Disease Patients/P. Mulhall, A. Criner, J. Leung, G.J. Criner, Philadelphia, PA, p.A5734

P1164 Predictors of Inhaled Steroid and Bronchodilator Use in Symptomatic Smokers with Preserved Pulmonary Function. SPIROMICS/C.M. Lo Cascio, E. Bleeker, D. Couper, N. Hansel, E.A. Hoffman, R.E. Kanner, E. Kleerup, F.J. Martinez, R. Paine, S.I. Rennard, R. Bowler, J.A. Krishnan, M. Dransfield, A.P. Comellas, D.P. Tashkin, M.K. Han, P.G. Woodruff, R.G. Barr, New York, NY, p.A5735

P1165 Polypharmacy and Renal Impairment in Patients with Chronic Obstructive Pulmonary Disease Newly Treated with Long-Acting Anticholinergics/F. Savaria, A. Forget, M.-F. Beauchesne, L. Blais, Montreal, Canada, p.A5736

P1166 Long-Acting Anticholinergics in Patients with Chronic Obstructive Pulmonary Disease: Adherence and Persistence Beyond the First Year of Treatment/F. Savaria, A. Forget, M.-F. Beauchesne, L. Blais, Montreal, Canada, p.A5737

Facilitator: B.J. Make, MD, Denver, CO

P1167 Severity of Respiratory Symptoms in Moderate-to-Very Severe Chronic Obstructive Pulmonary Disease (COPD) Patients Treated with SUN-101 (glycopyrrolate/eflow®): Findings from the Phase 3 GOLDEN Studies/J.F. Donohue, G.T. Ferguson, E.M. Kerwin, A. Ozol-Godfrey, V. Ganapathy, Chapel Hill, NC, p.A5738

P1168 Adherence to Inhaled Therapy and Clinical Outcomes in Chronic Obstructive Pulmonary Disease/B. Cushen, G. Greene, I. Sulaiman, M. Mokoka, I. Killane, E. MacHale, R. Costello, Dublin, Ireland, p.A5739



- P1169** **Nocturnal Use of the Passy Muir Valve in a Long Term Acute Care Facility: Is It Safe?**/B.J. Gerstenhaber, C. Tansley, M. Keenan, L. Trow, L. Cullen, M.P. Knauert, WALLINGFORD, CT, p.A5740
- P1170** **Interrupting Sedentary Behavior and Clinically Important FEV1 Decline in Adults: The EPIMOV Study**/V.Z. Dourado, E.F. Sperandio, M. Romiti, A.R.D.T. Gagliardi, R.L. Arantes, Santos, Brazil, p.A5741
- P1171** **Factors Predicting Nocturnal Hypoxemia Time in Smokers with and Without COPD**/M. Marin-Oto, J. Gonzalez, E. Lopez-Zalduendo, J. Berto, O. Claveria, A.B. Alcaide, A. Campo, J. Zulueta, J. De Torres, Pamplona, Spain, p.A5742
- P1172** **Intensified Combination Therapy with Inhaled Corticosteroids and Long-Acting β_2 -Agonists at the Onset of URTI to Prevent Exacerbations of COPD - A Randomized, Placebo Controlled Study**/D. Stolz, H. Hirsch, D. Schilter, R. Louis, J. Rakic, L. Boeck, E. Papakonstantinou, C. Schindler, L. Grize, M. Tamm, Basel, Switzerland, p.A7708
- P1173** **A Novel Smartphone Based Auto-Titrating Oxygen System Reduces Intermittent Hypoxia During Activities of Daily Living in Patients on Long-Term Oxygen Therapy**/M.E.U.-H. Moghal, A.R. Goburdhun, M. Morrell, R. Dickinson, A.K. Simonds, London, United Kingdom, p.A7709
- P1174** **Efficacy of CHF5993, A Novel Triple Extrafine Combination Treatment in COPD Patients at High Risk of Exacerbations: A Sub-Group Analysis of the TRINITY Study**/M. Scuri, M. Spinola, S. Vezzoli, A. Muraro, S. Petruzzelli, J. Vestbo, Parma, Italy, p.A7710
- P375** **Burn Size and Albumin Level Were Associated with Liberation from Mechanical Ventilation in Patients with Respiratory Failure in the Formosa Fun Coast Water Park Explosion**/Y.-H. Chen, J.-Y. Feng, H.-C. Hu, C.-L. Tsai, F.-M. Hung, K.-Y. Yang, K.-C. Kao, K.-L. Huang, J.-Y. Chien, C.-J. Yu, Taipei, Taiwan, p.A5745
- P376** **Outcomes in Burn-Injured Patients Who Develop Sepsis**/M. Afshar, M.A. Rech, M.J. Mosier, S. Zelisko, R.S. Cooper, G. Netzer, E.J. Kovacs, Chicago, IL, p.A5746
- P377** **Difference in Neointimal Coverage Pattern between Zotarolimus Eluting Stents and Everolimus Eluting Stents using Optical Coherence Tomography: A Meta-Analysis**/P. Agasthi, A.F. Chaudhry, S. Aloor, K. Lee, G. Kumar, R. Sachdeva, Atlanta, GA, p.A5747
- P378** **Experience with Temporary Inferior Vena Cava Filters: Indications, Complications and Retrieval Rates at a Community Hospital**/M. Pekez, R. Bansal, C.A. Fay, L.J. Becker, K. Thakur, Upland, PA, p.A5748
- P379** **Catheter-Directed Thrombolytic Therapy for Treatment of High Risk Pulmonary Embolism: A 3 Year Review from a U.S. Tertiary Care Center**/D. Smith, S. Aziz, R. Mantilla, T. Spooner, T. Bishop, Roanoke, VA, p.A5749
- P380** **Acute Respiratory Distress After Coronary Artery Bypass**/Y.-S. Chien, J.-Y. Li, Taipei City, Taiwan, p.A5750
- Facilitators:** S.M. Brown, MD, MS, Murray, UT
K.M. Akgun, MD, MS, West Haven, CT
- P381** **Exhaled Nitric Oxide in Patients Undergoing Cardiac Surgery**/L. Arcencio, C. Bottura, D.A. Vento, H.M.A. Chagas, L.S. Mateus, P.R.B. Evora, A.J. Rodrigues, Ribeirao Preto, Brazil, p.A5751
- P382** **Evaluation of the Risk of Hyperoxia-Induced Hypercapnia in Obese Cardiac Surgery Patients**/M.-H. Denault, P.-A. Bouchard, M. Simon, F. Lellouche, Quebec, Canada, p.A5752
- P383** **Reasons for, and Perceived Versus Actual Efficacy of Fluid Boluses Following Cardiac Surgery: Prospective Observational Study**/S. Bihari, S. Purwar, M.-S. To, R.A. Baker, N. Robba, S. Prakash, A.D. Bersten, Bedford Park, Australia, p.A5753
- P384** **Effects of Different Fluids on Lung and Kidney Function, Morphology, and Biological Markers in Experimental Acute Respiratory Distress Syndrome**/R. Mendes, M.V. Oliveira, G.A. Padilha, C.L. Santos, L.A. Maia, F.F. Cruz, N.N. Rocha, P.C. Olsen, V.L. Capelozzi, P. Pelosi, P.R. Rocco, P.L. Silva, Rio de Janeiro, Brazil, p.A5754
- P385** **Tranexamic Acid Dosing for Chronic Renal Dysfunction Patients Undergoing Cardiac Surgery with Cardiopulmonary Bypass: Pharmacokinetic Modelling and New Dosing Strategy**/A. Jerath, K.S. Pang, Q. Yang, M. Wasowicz, Toronto, Canada, p.A5755
- P386** **Predicting Diuretic Responsiveness in Acute Kidney Injury Patients in the Intensive Care Unit**/S. Wongvibulsin, Y. Xu, S. Saria, Baltimore, MD, p.A5756
- P387** **Limited Utility of Renal Ultrasound in Evaluation of ICU Patients with Acute Kidney Injury**/A. Wolfe, A. Mahoney, M. Exline, Columbus, OH, p.A5757

THEMATIC POSTER SESSION

C50 CRITICAL CARE: NON-PULMONARY CRITICAL CARE PROBLEMS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area D, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: T. Bice, MD, Chapel Hill, NC
T.W. Rice, MD, MSc, Nashville, TN

- P373** **Outcome of Patients with Blunt Chest Trauma Encountered at Emergency Department and Possible Risk Factors Affecting Mortality**/Y.-M. Tsai, H.-K. Huang, H. Chang, S.-C. Lee, T.-W. Huang, Taipei City, Taiwan, p.A5743
- P374** **Sepsis and Ventilator Associated Events in Burn Injury Patients with Acute Respiratory Failure in a Color-Dust Explosion at a Waterpark in Taiwan**/K.-Y. Yang, J.-Y. Feng, J.-Y. Chien, H.-C. Hu, C.-L. Tsai, F.-M. Hung, K.-C. Kao, K.-L. Huang, C.-J. Yu, Taipei, Taiwan, p.A5744



Facilitators: T.S. Valley, MD, MSc, Ann Arbor, MI
M. Pisani, MD, New Haven, CT

- P388 A Pilot Project Showing Proximal Tubule Solute Clearance Differs from Filtration in Acute Kidney Injury of Critical Illness/P.K. Bhatraju, A. Hoofnagle, B.R. Kestenbaum, M.M. Wurfel, Seattle, WA, p.A5758**
- P389 Urine Biomarkers TIMP-2 and IGFBP7 Early Predict Acute Kidney Injury in Cancer Patients in the ICU/S. Mehta, S.M. Pastores, N. Kostecky, S. Cho, L. Ramanathan, E. Jaimes, N.A. Halpern, New York, NY, p.A5759**
- P390 A Pilot Study Using the Urine Biomarker Panel - Tissue Inhibitor of Metalloproteinase-2 and Insulin-Like Growth Factor-Binding Protein 7 for Assessment of Acute Kidney Injury Risk in Immunocompromised ICU Patients/M.M. Bastola, L.P. Beasley, J. Sun, D. Jaswal, A.F. Suffredini, Bethesda, MD, p.A5760**
- P391 Pharmacokinetics of Omega-3 Fatty Acids in Patients with Sepsis Compared with Healthy Controls/R. Parikh, J.H.T. Bates, B.T. Suratt, M.E. Poynter, R.D. Stapleton, Burlington, VT, p.A5761**
- P392 The Mycology Profile of Invasive Candidiasis in Two Tertiary-Care ICUs: A Prospective Cohort Study/H.M. Al-Dorzi, H. Sakkiha, R. Khan, T. Aldabbagh, A. Toledo, P. Ntinika, S. Al Johani, A. Almutairi, S. Khalil, F. Siddiqui, Y.M. Arabi, Riyadh, Saudi Arabia, p.A5762**
- P393 Characteristics of Hospital Readmission Within 30 Days Following an Acute Exacerbation of CHF/H. Edriss, A. Castillo, K. Selvan, K. Nugent, Lubbock, TX, p.A5763**
- P394 Incidence of Right Ventricular Dysfunction in Patients with Takotsubo Cardiomyopathy: A Retrospective Analysis/G.S. Thind, R. Roach, Kalamazoo, MI, p.A5764**
- P395 The Prognosis of Infective Endocarditis Requiring Medical Intensive Care Unit Admission/S. Pasha, A. Kelly, A. Puranik, E.P. Cassity, P.E. Morris, Lexington, KY, p.A5765**
- P396 Vasopressin or Epinephrine as a Second Vasopressor in Septic Shock: A Pilot Study/A.Z.-H. Fe, A. Desai, J. Mathew, S. Salzman, Mineola, NY, p.A5766**
- Facilitators:** D.C. Scales, MD, PhD, Toronto, Canada
G.E. Weissman, MD, Philadelphia, PA
- P397 Hemodynamic Instability Following Vasopressin Withdrawal in Septic Shock/B.D. Bissell, P. Moran, C. Magee, M.L. Thompson Bastin, J. Flynn, A.H. Flannery, Lexington, KY, p.A5767**
- P398 A Comparison of Anthrax Immune Globulin IV Recipients Versus Non-Recipients During the 2009-10 Anthrax Outbreak in Injection Drug Users in Scotland/X. Cui, L. Nolen, W. Bower, J. Sun, P. Eichacker, Bethesda, MD, p.A5768**
- P399 Gram-Negative Rod Bacteremia: Epidemiology, Risk Factors, and Appropriateness of Initial Empiric Therapy/M. Turakhia, C.M. Chan, M.P. Schreiber, A.F. Shorr, Washington, DC, p.A5769**
- P400 The Effect of Sound Masking on Sleep Consolidation in Patients Weaning from Prolonged Mechanical Ventilation/H. Shaikh, F. Ghods, A. Jubran, M. Tobin, F. Laghi, Hines, IL, p.A5770**
- P401 Sleep in Critically Mechanically Ventilated Patients Receiving Continuous Intravenous Light Sedation/A. Guo, H. Yang, X. Wang, B. Tang, Y. Li, Beijing, China, p.A5771**

- P402 Sleep Assessment in Critically Ill Patients the Night Before a Spontaneous Breathing Trial: A Pilot Feasibility Report/M. Dres, T. Kendzerska, N. Rittayamai, E. Chau, D. Grieco, S. Mehta, E. Wilcox, U. Edke, R. Leung, L.J. Brochard, Toronto, Canada, p.A5772**
- P403 Sleep Quality Perception in the ICU: A Quality Improvement Project/K. Treger, L.M. Jones, A. Bajwa, V. Seeram, J. Cury, A. Agarwal, M. Louis, Jacksonville, FL, p.A5773**
- P404 Circadian Rhythms in the Medical Intensive Care Unit: Measurement Via Actigraphy/M.P. Knauert, N. Redeker, H.K. Yaggi, K. Araujo, M.A. Pisani, New Haven, CT, p.A5774**
- P405 Non-Circadian Light Exposure in the ICU: Point-Prevalence Morning, Noon and Night/M.T. Altman, C.E. Pulaski, M. Pisani, M.P. Knauert, New Haven, CT, p.A5775**

THEMATIC POSTER SESSION

C51 CRITICAL CARE: MORE NON-PULMONARY CRITICAL CARE PROBLEMS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area D, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: M. Neff, MD, MSc, Palo Alto, CA
L. Vande Vusse, MD, MPH, Seattle, WA

- P407 Antidotal Effects of Methylene Blue During Lethal Forms of Cyanide Poisoning/P. Haouzi, T. Sonobe, N. Tubbs, Hershey, PA, p.A5776**
- P408 Methadone Use in the ICU: Not as Scary as You Think/P.H. Patel, S. Cull, R. Sbertoli, S. Patolia, Z. Jamkhana, St. Louis, MO, p.A5777**
- P409 Addiction Care for Critically-Ill Patients with Opioid Overdoses: A Single Institution Experience/A. Reichheld, J. Marshall, D. Hsu, S. Roche, J. Bertone, S. O'Donoghue, J. Stevens, Boston, MA, p.A5778**
- P410 Critical Illness Secondary to Synthetic Cannabinoid or "K2" Ingestion: A Report of 30 Adult Patients/I. Kourouni, B.M. Mourad, H. Khoulil, J. Shapiro, J. Mathew, New York, NY, p.A5779**
- P411 Outcomes on CIWA Protocol and Dexmedetomidine for Alcohol Withdrawal/A. Mohammed, A. Maheshwari, A.A. Hameed, A. Malik, A. Bhardwaj, D.J. Valentino, Darby, PA, p.A5780**
- P412 Outcomes of Critically Ill Obese Patients on CIWA Protocol for Alcohol Withdrawal/A. Maheshwari, A. Mohammed, A.A. Hameed, A. Malik, A. Bhardwaj, D.J. Valentino, Darby, PA, p.A5781**
- P413 Development and Implementation of an Alcohol Withdrawal Protocol Using the 5-Item Brief Alcohol Withdrawal Scale (BAWS)/E.S. Chen, D. Applewhite, A.A.H. Alvanzo, C. Welsh, T. Niessen, D.A. Rastegar, Baltimore, MD, p.A5782**



- P414** **Scheduled Diazepam Does Not Add to Midazolam/Lorazepam Symptom-Titrated Regimens for Alcohol Withdrawal Syndrome/** M. Mozzone, D. Manthous, C. Manthous, New London, CT, p.A5783

Facilitators: J.D. Thornton, MD, MPH, Cleveland, OH
M.W. Semler, MD, Nashville, TN

- P415** **Outcomes of Diabetic Ketoacidosis in a Busy Inner-City Intensive Care Unit, Can We Predict Mortality?**/H.S. Arshad, J. Rodriguez, A. Smith, S. Venkatram, G. Diaz-Fuentes, Bronx, NY, p.A5784

- P416** **Does NPH in Post Diabetic Ketoacidosis Patients Provide Better Glycemic Control than Levemir?**/N.P. Kalra, J. Kaur, A. Yazji, C. Youssef, M. Bautista, Youngstown, OH, p.A5785

- P417** **ROTEM in the Management of Upper Gastrointestinal Bleeding in the Intensive Care Unit**/B.R. Deaton, N.E. Villalobos, A.K. Mytinger, G.K. Youngs, R. Vazquez Guillamet, Albuquerque, NM, p.A5786

- P418** **Peripheral Eosinophilia Associated with 2016 H1N1 Influenza**/B.R. Deaton, A.K. Mytinger, S. Ahmed, M. Boivin, Albuquerque, NM, p.A5787

- P419** **Retrospective Study of Outcomes in the Medical Intensive Care Unit for Cirrhotic and Noncirrhotic Liver Failure Patients**/A.M. Figueroa, O. Abramian, K. Bakhsh, M.J. Stephen, Philadelphia, PA, p.A5788

- P420** **High Versus Low Mean Arterial Pressures in Hepatorenal Syndrome: A Randomized Controlled Trial**/B. Varajic, J. Mann, K. Guilkey, A. Persaud, S.P. Furmanek, T.L. Wiemken, R. Cavallazzi, M. Saad, Louisville, KY, p.A5789

- P421** **Use of Thromboelastography in Patient with Liver Cirrhosis for Guiding Blood Products Transfusion Prior to Procedures in Medical Intensive Care Unit**/I. Yousef, M. Ghabril, K. Diab, Indianapolis, IN, p.A5790

- P422** **Risk Factors for Postpartum HELLP Syndrome Following Cesarean Delivery in Patients with Pregnancy Induced Hypertension**/N. Fujimura, Y. Hiramoto, T. Nakagaki, J. Yoshino, Kurume, Japan, p.A5791

Facilitators: D. Hotchkin, MD, Portland, OR
R.S. Stephens, MD, Baltimore, MD

- P423** **Elective Vs. Non-Elective Hospitalizations in Patients with Hereditary Hemorrhagic Telangiectasia (i.e. HHT, Osler-Weber-Rendu Disease)**/D.R. Apala, B.S. Pannu, A. Kotecha, W. Brinjikji, V.N. Iyer, Rochester, MN, p.A5792

- P424** **Hemophagocytic Lymphohistiocytosis in Critical Illness: A Retrospective Chart Review**/E. Hermann, J. Li, D.C. Abrams, C. Agerstrand, A. Eisenberger, M. O'Donnell, New York, NY, p.A5793

- P425** **Physiologic Changes Induced by the Block of Regional Pulmonary Blood Flow During Wedge Pressure Measurement: An Experimental Study**/T. Langer, T. Mauri, V. Castagna, M. Lazzeri, O. Biancolilli, E. Carlesso, M. Mirandola, P. Brambilla, F. Zadek, A. Zanella, A. Pesenti, Milan, Italy, p.A5794

- P426** **Possible Mechanism of Postoperative Immune paralysis in Patients Undergoing Total Knee Arthroplasty**/Y. Tamai, K. Uchida, Y. Kusakabe, T. Totsu, K. Chang, H. Inui, S. Tanaka, Y. Yamada, Bunkyo-ku, Tokyo, Japan, p.A5795

- P427** **Transfusion Practice in Non-Trauma Related Hemorrhagic Shock**/N. Farooq, J. Aulakh, C. Higgins, P. Galiatsatos, A. Martinez, Baltimore, MD, p.A5796

- P428** **Restrictive Red Blood Cell Transfusion Strategies in Patients with Cardiovascular Disease: A Meta-Analysis**/I. Cortes Puch, B.M. Wiley, H.G. Klein, J. Welsh, R.L. Danner, J. Sun, P. Eichacker, C. Natanson, Bethesda, MD, p.A5797

- P429** **Low Versus High-Chloride Content Intravenous Solutions for Critically Ill and Perioperative Adult Patients: A Systematic Review and Meta-Analysis**/L. Kawano-Dourado, F.G. Zampieri, L.C.P. Azevedo, T.D. Correa, M. Figueiro, M.W. Semler, J. Kellum, A.B. Cavalcanti, Sao Paulo, Brazil, p.A7665

THEMATIC POSTER SESSION

C52 CRITICAL CARE CASE REPORTS: UNUSUAL GI CAUSES OF CRITICAL ILLNESS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area O, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: C.R. Rackley, MD, Durham, NC
J.A. Palakshappa, MD, MSCE, Philadelphia, PA

- P1545** **Ruptured Gastroduodenal Artery Aneurysm- Rare but Deadly Complication of Duodenal Ulcers**/P.S. Minhas, J.K. Virdi, Abington, PA, p.A5798

- P1546** **A Massive Inguinal Hernia Causing Acute Kidney Injury: A Case Report**/J. Im, N.Y. Madisi, G.B. Chun, New York, NY, p.A5799

- P1547** **Chest Pain and Shortness of Breath, in a Young Lady, Don't Forget to Ask About Contraception**/S. Rehman, T.P. Vacek, N.S. Khan, A. Ali, M. Taleb, H. Badi, A. Kubbara, R. Assaly, J. Hammersley, Toledo, OH, p.A5800

- P1548** **Acute Liver Failure Complicating Heatstroke in a Patient with Congenital Lymphatic Malformation**/S. Chandrasekaran, I. Kourouni, J. Cardasis, New York, NY, p.A5801

- P1549** **Exertional Heat Stroke Causing Acute Liver Failure Needing Orthotopic Liver Transplantation**/N.R. Bongu, M.G. Aljanabi, J. Fogarty, Greenville, NC, p.A5802

- P1550** **Evidence of Pneumoperitoneum in Critical Care Ultrasound**/H. Abdin, P. Patel, Houston, TX, p.A5803

Facilitator: S. Honiden, MD, MSc, New Haven, CT

- P1551** **High PaO2 for Non-Invasive Management of Pneumatoxis Intestinalis**/B.A. Gray, K. Boka, Houston, TX, p.A5804

- P1552** **Biliptysis: A Rare Finding with Valuable Information**/C.V. Choong, G.T. Chai, S.J.W. Lew, A.Y.H. Lim, Singapore, Singapore, p.A5805



- P1553** **The Black Esophagus - A Glimpse in the Darkness/M.** Ghobrial, S. Krishnan, Cleveland, OH, p.A5806
- P1554** **An Unusual Case of Gastro-Pleural Fistula Masquerading as Pneumonia Following Bariatric Surgery/N.** Jiramethee, I. Mira-Avendano, J. Phelan, Jacksonville, FL, p.A5807
- P1555** **Massive Chyloperitoneum in a 74-Year-Old Male After Abdominal Aortic Aneurysm Repair/H.** Leuva, Z. Khan, M. Bachan, New York, NY, p.A5808

THEMATIC POSTER SESSION

C53 CRITICAL CARE: DELIRIUM AND THE EXPECTED AND UNEXPECTED CONSEQUENCES OF SEDATION/ANALGESIA IN THE ICU

9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area D, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: B.H. Singer, MD, PhD, Ann Arbor, MI
E. Wilcox, MD, MSc, Toronto, Canada

- P431** **Glutamate Excitotoxicity May Play a Role in Delirium and Cognitive Impairment in Sepsis/B.J.** Anderson, J.A. Palakshappa, J.P. Reilly, C.A.G. Ittner, K. Ramphal, T. Dunn, T.K. Jones, M.G.S. Shashaty, D.L. Kolson, J.D. Christie, N.J. Meyer, Philadelphia, PA, p.A5809
- P432** **Effect of Recent Alcohol, Smoking and Psychotropic Drug Use on Delirium in ICU/J.** Lee, S.M. Choi, Y.S. Park, C.-H. Lee, S.-M. Lee, J.-J. Yim, C.-G. Yoo, Y.W. Kim, Seoul, Korea, Republic of, p.A5810
- P433** **Statin Therapy Does Not Reduce Risk of Delirium in the Critically Ill Patients: A Systematic Review and Meta-Analysis/S.** Upala, A. Sanguankeo, Bangkok, Thailand, p.A5811
- P434** **Assessability and Validation of Intensive Care Delirium Screening Checklist (ICDSC) and the Confusion Assessment Method for ICU (CAM-ICU) in a Danish Neuro-Intensive Care Unit/L.K.** Larsen, V.G. Froekjaer, J.S. Nielsen, Y. Skrobik, Y. Winkler, K. Moeller, M. Petersen, I. Egerod, Copenhagen, Denmark, p.A5812
- P435** **The Windowless Patient: Assessing Delirium in the Medical ICU Using the Confusion Assessment Method/K.** Bakhsh, O. Abramian, A. Figueroa, E. Randhawa, M. Sherman, J. Most, Philadelphia, PA, p.A5813
- P436** **The Use of Brain Magnetic Resonance Imaging in the Evaluation of Delirium Among Critically Ill Patients/A.** Mahoney, M. Exline, Columbus, OH, p.A5814
- P437** **Perioperative Neuroimaging with Functional Near-Infrared Spectroscopy (fNIRS) for the Study of Post-Operative Delirium in Elderly TAVR Patients/M.** Sundel, C. Goodson, W. Coomer, E. Irvine, N. Rendradjaja, A. Yoshimura, Z. Tieges, A. MacLulich, R. Hasan, A. Kamiya, K. Neufeld, Baltimore, MD, p.A5815

- P438** **Relationship Between Mean Arterial Pressure and Delirium in Mechanically Ventilated Patients/E.** MacKenzie, K.S. Wolfe, S. Patel, J.T. Poston, A.S. Pohlman, J.B. Hall, J.P. Kress, B.K. Patel, Chicago, IL, p.A5816
- P439** **Use of Daily Awakening Trial (DAT) as Sedation Minimization Strategy in Patients with Severe and Moderate Acute Respiratory Distress Syndrome (ARDS): An Observational Cohort Study/O.** Mooney, C. Hrymak, K. Dalebozik, K. Olafson, E. McIntyre, Winnipeg, Canada, p.A5817

Facilitators: J.P. Kress, MD, Chicago, IL
R. Clouser, DO, Burlington, VT

- P440** **Delirium Duration and the Related Factors in Patients with Critical Illness/T.** Liang, D. Sun, W. Chai, Beijing, China, p.A5818
- P441** **Standardized Sleep Protocol Reduces Delirium and Length of Stay in the ICU/A.** Bhardwaj, A. Maheshwari, A. Patel, A. Mohammed, D.J. Valentino, Philadelphia, PA, p.A5819
- P442** **An Assessment of Vasoactive Medication Dose in Mechanically Ventilated Patients Undergoing Daily Interruption in Sedation/Z.T.** Lonjers, K.S. Wolfe, B.K. Patel, A.S. Pohlman, J.B. Hall, J.P. Kress, Chicago, IL, p.A5820
- P443** **Implementation of the ABCDEF Bundle Leads to Increased Antipsychotic Use in the ICU/M.** Zheng, M. Tan, L. Tang, J. Rogan, C. McDaniel, M. Baram, Philadelphia, PA, p.A5821
- P444** **Evaluation of the Priming Principle on Propofol Pain During Intravenous Induction/D.O.** Agbo, O.O. Oyeniran, A.M. Ngeh, Jos, Nigeria, p.A5822
- P445** **Evaluation of the Priming Principle on the Induction Dose Requirement of Propofol/D.O.** Agbo, O.O. Oyeniran, A.M. Ngeh, Jos, Nigeria, p.A5823
- P446** **Intravenous Olanzapine for Acute Agitation in the Intensive Care Unit/M.E.** Prekker, L.R. Klein, H.A. Veazey, J.A. Vipond, L.L. Carlson, J.B. Cole, Minneapolis, MN, p.A5824
- P447** **Changes in Nurses Attitudes and Self-Reported Sedation Administration Practices: 2005 to 2016/J.** Guttormson, L.L. Chlan, M.F. Tracy, B. Hetland, Milwaukee, WI, p.A7666
- P448** **Discordance Between Sedation Depth and Ventilatory Drive in Critically Ill Adults Undergoing Mechanical Ventilation/A.** Khalil, J.R. Beitler, La Jolla, CA, p.A7667

THEMATIC POSTER SESSION

C54 CRITICAL CARE: TRANSLATIONAL INSIGHTS INTO ARDS AND SEPSIS - FROM BENCH TO BEDSIDE

9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area D, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators



Facilitators: K.A. Hibbert, MD, Boston, MA
K. Kurahashi, MD, PhD, Narita, Japan

P450 Do Published Animal Studies Employing Bacteria-Challenged, Antibiotic-Treated Animal Models Support Inclusion of B. Anthracis Toxin-Directed Agents in the Strategic National Stockpile: A Systematic Review and Meta-Analysis/W. Xu, L. Ohanjanian, J. Welsh, X. Cui, P. Eichacker, Bethesda, MD, p.A5825

P451 Studies in a Canine Model of B. Anthracis Toxin Associated Shock Support Inclusion of Anthrax Immunoglobulin (AIG) in the Strategic National Stockpile/D.A. Suffredini, D. Jaswal, W. Xu, K.E. Remy, X. Cui, S.B. Solomon, I. Cortes Puch, J. Sun, P. Eichacker, Bethesda, MD, p.A5826

P452 B. Anthracis Edema Toxin but Not Lethal Toxin Depresses the Contractile Response of Rat Aortic Tissue to Phenylephrine in an In-Vivo and in an Ex-Vivo Aortic Ring Model/D.A. Suffredini, X. Cui, Y. Li, Y. Fitz, P. Eichacker, Bethesda, MD, p.A5827

P453 Metabolomics as a Diagnostic Tool for Biomarker Discovery in Sepsis/L. Morales, S. Naz, Y. Rojas, A. Ferruelo, D. Molina, L. Martinez Caro, A. Garcia, N. Nin, C. Barbas, J.L. Izquierdo-Garcia, J. Ruiz-Cabello, A. Artigas, J.A. Lorente, Barcelona, Spain, p.A5828

P454 Depletion of Substrates of the Glycolytic Pathway and the Citric Acid Cycle Impairs Hepatic Glucose Metabolism in Pseudomonas Aeruginosa Septic Shock in Dogs/S.N. Mink, K. Kasian, Z.-Q. Cheng, Winnipeg, Canada, p.A5829

P455 Recombinant SOD Protein Is Nebulisable by Aerogen Solo Nebuliser and Retains Anti-Inflammatory Properties/J. Devaney, M. Tilbury, B. Higgins, R. MacLoughlin, J. Laffey, J.G. Wall, D. O'Toole, Galway, Ireland, p.A5830

P456 Deletion of Equilibrative Nucleoside Transporter 1 in Erythrocytes Protects Bleomycin-Induced Acute Lung Injury/F. Luo, N.-Y. Chen, T. Mills, J. Molina, Y. Xia, M. Blackburn, Houston, TX, p.A5831

P457 Attenuation of In Vitro Lipopolysaccharide (LPS) -Induced Inflammation by Histone Deacetylases (HDACs) Via Regulating uPA/PAI-1 Activities/W.-F. Fang, C.-Y. Lin, Y.-T. Fang, K.-T. Huang, H.-L. Huang, Y.-T. Chang, C.-H. Huang, M.-C. Lin, Kaohsiung, Taiwan, p.A5832

Facilitators: L. Ware, MD, Nashville, TN
K. Patel, MD, PhD, Philadelphia, PA

P458 Groups for Acute Kidney Injury Based on Dynamic Clinical Pattern and Immune Status Predict Outcomes in Septic Patients Admitted to Intensive Care Unit (ICU)/W.-F. Fang, C.-H. Huang, C.-Y. Lin, Y.-T. Fang, K.-T. Huang, Y.-H. Wang, Y.-T. Chang, C.-C. Wang, M.-C. Lin, Kaohsiung, Taiwan, p.A5833

P459 Adequate Energy Intake on Day 7 Predict Favorable Outcomes Despite of Nutrition Risk Score and Immunity Status in Septic Patients Admitted to Intensive Care Unit (ICU)/W.-F. Fang, K.-Y. Hung, C.-Y. Lin, Y.-T. Fang, H.-C. Kao, K.-T. Huang, Y.-H. Wang, Y.-T. Chang, C.-C. Wang, M.-C. Lin, Kaohsiung, Taiwan, p.A5834

P460 EP4 Receptor Mediates Endothelial Barrier-Enhancing and Anti-Inflammatory Effects of Oxidized Phospholipids (OxPAPC)/Y. Ke, G. Gawlak, Y. Tian, N. Sarich, A. Birukova, K. Birukov, Chicago, IL, p.A5835

P461 Role of End Binding Protein-1 in EC Permeability Response to Barrier Disruptive and Barrier-Enhancing Agonists/T. Ohmura, Y. Tian, S. Son, N. Sarich, A. Birukova, Chicago, IL, p.A5836

P462 P53 Protects and Enhances Endothelial Barrier Function by Stimulating Rac1 Signaling and Inhibiting RhoA Activity/N. Barabutis, C. Dimitropoulou, G.S. Thangjam, B. Gregory, J.D. Catravas, Norfolk, VA, p.A5837

P463 Targeted Supplementation with Phosphatidylglycerol and Surfactant Protein B as Surfactant Replacement Therapy in ARDS/C.C. Smallcombe, M.C. Seeds, M.V. Novotny, M. Echaide, D.C. Files, B.M. Waite, J. Perez Gil, R.D. Hite, Cleveland, OH, p.A5838

P464 Double-Hit Mouse Model of Cigarette Smoke Priming for Acute Lung Injury/P. Sakhatsky, Z. Wang, D. Borgas, J. Lomas-Neira, Y. Chen, A. Ayala, S.I.S. Rounds, Q. Lu, Providence, RI, p.A5839

P465 Cigarette Smoking Is Associated with Biological Heterogeneity Amongst Blunt Trauma Patients with ARDS/F. Moazed, C. Hendrickson, M. Nelson, A. Conroy, M. Arambulo, M. Cohen, C.S. Calfee, San Francisco, CA, p.A5840

Facilitators: G.F. Curley, MD, PhD, Toronto, Canada
M.M. Wurfel, MD, PhD, Seattle, WA

P466 Anticoagulants Elicit Extracellular Hemoglobin Accumulation in the Rat Brain: A Predisposing Factor for Cognitive Impairment in MICU Survivors?/I. Rubinstein, K.M. Ware, D.L. Feinstein, G. Weinberg, S.V. Brodsky, Chicago, IL, p.A5841

P467 Acute Lung Injury by Gastric Juice Instillation: Activation of Apoptosis During Injury Resolution/P. Ayala, J. Torres, R. Vivar, G. Borzone, Santiago, Chile, p.A5842

P468 Red Blood Cell Hemoglobin-Bound Nitric Oxide in Human Blood Stored for Acute Normovolemic Hemodilution (ANH)/H. Zhu, S.E. Hill, J. Caswell, T.J. McMahon, Durham, NC, p.A5843

P469 Peripheral Blood Mononuclear Cells Demonstrate Reversible Mitochondrial Distress in Patients with Sepsis/L. Chen, B.D. Kraft, K. Welty-Wolf, H.B. Suliman, C. Piantadosi, Durham, NC, p.A5844

P470 T Lymphocyte Activation but Not Programmed Cell Death Protein-1 Expression Significantly Associated with the Mortality in Sepsis/H.-T. Chang, Y.-J. Chen, K.-P. Chung, C.-J. Yu, New Taipei City, Taiwan, p.A5845

P471 Relative Telomere Length in Medical and Emergency Surgical Patients Mechanically Ventilated on the Critical Care Unit/C. Snelson, N.A. Duggal, H. Chahal, V. Pearce, U. Shaheen, D. McWilliams, E. Reeves, J. Lord, Birmingham, United Kingdom, p.A5846

P472 A Subset of Peripherally Circulating Neutrophils Signaling the Glycoprotein Olfactomedin 4 (OLFM4) Predicts Mortality in Sepsis/K.N. Kangelaris, R. Clemens, X. Fang, A. Jauregui, T. Liu, K. Vessel, T. Deiss, K. Liu, H. Zhuo, C.S. Calfee, C. Lowell, M.A. Matthay, San Francisco, CA, p.A7668



- P473 Higher Positive End-Expiratory Pressures Affect the Distribution of Lung Inflammation During Spontaneous Breathing in an Experimental Model of Severe Acute Respiratory Distress Syndrome/C.C.A. Morais, G. Plens, M.R. Tucci, T. Yoshida, J.B. Borges, O.P. Ramos, S.M. Pereira, C.L.A.S. Lima, S. Gomes, M. Vidal Melo, M.B.P. Amato, E.L.V. Costa, Sao Paulo, Brazil, p.A7669**

THEMATIC POSTER SESSION

C55 CRITICAL CARE: CRITICAL CARE IN LOW AND MIDDLE INCOME COUNTRIES

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area D, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: E.D. Riviello, MD, MPH, Boston, MA

- P475 Sepsis Assessment and Identification in Low Resource Settings: The SAILORS Study/K.E. Rudd, C.W. Seymour, A. Papali, V. Hantrakun, P. Teparrukkul, S. Booraphun, M. Augustin, L. Colas, C.H. Jean-Francois, A.C. Verceles, N.P.J. Day, M.T. McCurdy, D. Limmathurotsakul, T.E. West, D.C. Angus, Seattle, WA, p.A5847**
- P476 Statistical Comparison and Mortality Trends Between the Quick Sepsis Related Organ Failure Assessment (qSOFA) and Systemic Inflammatory Response Syndrome (SIRS) Amongst Haitian ICU Patients/A. Aneizi, R. Izurieta, C. Staley, A.C. Verceles, M.T. McCurdy, A. Papali, Baltimore, MD, p.A5848**
- P477 Impact and Feasibility of Low Fidelity Simulation of Medical Emergencies for Haitian Anesthesia Residents/S. Loriston, S. Reynolds, Cap Haitien, Haiti, p.A5849**
- P478 Implementation of Critical Care Outreach Service in a Developing Country/A. Jeddian, T. Marshall, K. Hemming, A. Lindenmeyer, A. Rashidian, L. Sayadi, N. Jafari, R. Malekzadeh, Tehran, Iran, p.A5850**
- P479 Percutaneous Tracheostomy in Intensive Care Unit: Experience from India/M. Gupta, U.A. Gupta, M. Ahmad, D.P. Gupta, I. Hasan, Ghaziabad, India, p.A5851**
- P480 Noninvasive Ventilation in Acute Respiratory Failure: Experience from a Tertiary Care Hospital in India/D. Bhattacharyya, Delhi Cantt, India, p.A5852**
- P481 Noninvasive Ventilation Use: A Brazilian Web- Survey/E.B. Caser, A.M. Isola, A.B. Cavalcanti, R.G. Rodrigues, S.V. Baldisserotto, C. Johnston, C.S.V. Barbas, Vitoria, Brazil, p.A5853**
- Facilitators:** A. Leligdowicz, MD, PhD, Toronto, Canada
J. Diaz, MD, San Francisco, CA
- P482 A New Global and Comprehensive Model for ICU Ventilator Performance Evaluation/E. L'Her, N.S. Marjanovic, Brest, France, p.A5854**

- P483 Evaluation of Intensive Care Unit Outcomes and Mortality at a Referral Hospital in Western Kenya/H. Lalani, W. Waweru-Siika, T. Mwogi, P. Kituyi, P. Kussin, Durham, NC, p.A5855**
- P484 Neurologic Critical Care: Outcomes of Patients Admitted to the Intensive Care Unit of a Referral Hospital in Western Kenya/H. Lalani, W. Waweru-Siika, T. Mwogi, P. Kituyi, C. Oduor, P. Kussin, C. Graffagnino, Durham, NC, p.A5856**
- P485 Electrocardiographic Abnormalities in Adults with COPD in Nigeria: Prevalence, Patterns and Influence on Outcomes/G.A. Amusa, B.I. Awokola, J.A. Onuh, S.U. Uguru, C.A. Adindu, A.F. Okoh, M.O. Akanbi, Jos, Nigeria, p.A5857**
- P486 Burden and Outcomes of Co-Morbid Cardiovascular Diseases in Adults with COPD in Nigeria/G.A. Amusa, C.A. Adindu, B.I. Awokola, J.A. Onuh, S.U. Uguru, A.F. Okoh, M.O. Akanbi, Jos, Nigeria, p.A5858**
- P487 ICU-Acquired Weakness Diagnosis: A Multicenter Survey of Clinicians' Perceived Barriers in Nigeria/A.A. Akinremi, T.K. Hamzat, O. Erinle, Suva, Fiji, p.A5859**
- P488 How Trauma Patients Are Discharge Home Regards to Functionality?/R.A. Caserta Eid, J.A.D.S. Junior, B.N.G.M. Caldeira, M. Steinman, K.T. Timenetsky, Sao Paulo, Brazil, p.A5860**
- P489 Critical Care Characteristics and Outcomes in a Resource-Constrained Rural Setting in Kenya Over 10 Years/E. Mbugua, G. Otieno, S. Letchford, B.W. Lee, M. Newton, E.D. Riviello, V. Liu, Kijabe, Kenya, p.A7670**

THEMATIC POSTER SESSION

C56 CRITICAL CARE CASE REPORTS: ARDS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area O, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: D.G. Fein, MD, Bronx, NY
H. Enuh, MD, Burlington, VT

- P1557 Adenovirus Pneumonia Complicated with Acute Respiratory Distress Syndrome/F. Afridi, M. Sharif, R. Hanna, G. Chaaya, Orlando, FL, p.A5861**
- P1558 ARDS Due to Adenovirus in a Patient with COVID Treated Successfully with Cidofovir and IVIG/R. Abdul Rahman, A. Attaway, R. Schilz, Cleveland, OH, p.A5862**
- P1559 Adenovirus Pneumonia as a Rare Cause of ARDS Requiring Extracorporeal Membrane Oxygenation/N.A. Smith, J. Meeker, M. Sehring, J. Chambers, V. Kakollu, J. Crabb, Peoria, IL, p.A5863**
- P1560 Hypoxemic Respiratory Failure Secondary to Zika Virus Infection/J. Ramos-Rossy, W. Rodriguez-Cintrón, J. Flores-Gonzalez, J. Torres-Palacios, San Juan, PR, p.A5864**



- P1561 Lifesaving Prone Positioning in a Young Adult with ARDS and Human Metapneumovirus Pneumonia/L.** Kallur, N.K. Bentley, A. El-Abbassi, D. Youssef, Johnson City, TN, p.A5865
- P1562 Spontaneous Extrathoracic Lung Herniation in a Man with Coal Worker's Lung/L.** Kallur, A. Vanlandingham, N.K. Bentley, A. El-Abbassi, Johnson City, TN, p.A5866
- P1563 Acute Respiratory Distress Syndrome Complicating Babesiosis and Lyme Coinfection/A.A. Munshi, B. Latimer, C. Bosse, Abington, PA, p.A5867**
- P1564 Killer Garden Fungus- Aspergillus ARDS in an Immunocompetent Patient After Mulch Inhalation/P.S. Minhas, J.K. Virdi, Abington, PA, p.A5868**
- P1565 Achromobacter Xylosoxidans and Enterovirus-Rhinovirus Co-Infection Causing ARDS in a Patient with an Underlying Genetic Condition/J. Jaramillo, J. Garellek, New York, NY, p.A5869**

Facilitators: D.H. Chong, MD, New York, NY
T. Dolinay, MD, PhD, Philadelphia, PA

- P1566 The Failing Heart from a Bleeding Lung/A.** Arjuna, H. Seethamraju, J. Lee, Newark, NJ, p.A5870
- P1567 Fatal Pulmonary Cryptococcosis in an Immunocompetent Patient/S.** Medrek, U. Ayyala, Houston, TX, p.A5871
- P1568 Rare Case of Acute Eosinophilic Pneumonia/R.** Shah, M. Esposito, A. Talwar, E. Singas, New Hyde Park, NY, p.A5872
- P1569 Acute Eosinophilic Pneumonia in a Hookah Smoker/M.** Ali, Z. Saleh, A. Laktineh, N. Huda, Detroit, MI, p.A5873
- P1570 An Atypical Presentation of Acute Eosinophilia Pneumonia in a Traveler from the United Arab Emirates (UAE)/I.** Kourouni, S.R. Dudekonda, E.M. Mohanraj, New York, NY, p.A5874
- P1571 Inhalational Heroin-Induced Acute Respiratory Distress Syndrome/K.** Sacco, C. Sanchez-Alvarez, J. Garland, Jacksonville, FL, p.A5875
- P1572 Negative Pressure Pulmonary Hemorrhage During Esophagogastroduodenoscopy in a Patient with Obstructive Sleep Apnea/A.** Souka, O. Mahmod, D. Markley, A. Toscano, C. Decotiis, Morristown, NJ, p.A5876
- P1573 Diffuse Alveolar Hemorrhage as a Result of Seronegative Pulmonary Renal Syndrome/G.W.** Williams, M.L. Rogers, I. Romero-Legro, Memphis, TN, p.A5877

Facilitators: Y. Yeragunta, MD, Los Angeles, CA
J. Bringue, PhD, Sabadell, Spain

- P1574 Anti-Synthetase Syndrome (ASS) Presenting as Acute Respiratory Distress Syndrome (ARDS) in a Patient Without Myositis Features/V.** Kanchustambham, S. Patolia, S. Saladi, St. Louis, MO, p.A5878
- P1575 An Unexpected Cause of ARDS/D.P.** Croft, M.A. Morgan, M.J. Apostolakis, C. Quill, Rochester, NY, p.A5879
- P1576 A Rare Case of Lymphangitic Carcinomatosis from Adenocarcinoma of the Lung Presenting as ARDS/M.** Young, M. Beg, H. Arshad, Pittsburgh, PA, p.A5880

- P1577 Pulmonary Lymphangitic Carcinomatosis in Metastatic Breast Cancer/D.** Chandra, J. Dickinson, Omaha, NE, p.A5881
- P1578 Unusual Etiology of ARDS: Aspiration of Non-Gastric Contents/A.J.** Shah, R. Doobay, M.P. Paul, Syracuse, NY, p.A5882
- P1579 Bile in the Bronchus: A Rare Cause of ARDS/K.** Rizg, L. Stemboroski, E. Bueno, A. Ramdass, V. Seeram, Jacksonville, FL, p.A5883
- P1580 Acute Interstitial Pneumonia Versus Acute Respiratory Distress Syndrome: Is There a Difference?/O.J.L.** Mitchell, R. Sternschein, N. Kunzler, Y. Zhao, A. Uppal, New York, NY, p.A5884
- P1581 Novel Use of Inhaled Nitric Oxide as Salvage Therapy for Peripartum Acute Respiratory Distress During Cesarean Section/A.** Mehrotra, J.M. Lanfranco, I. Romero-Legro, R.S. Gill, P. Khanna, Memphis, TN, p.A5885
- P1582 Pushing the Limits of Low Tidal Volume Ventilation in the Acute Respiratory Distress Syndrome/V.L.** Gargon, T.C. Crawford, A. Eberle, J.L. Hanssen, R.G. Brower, Baltimore, MD, p.A5886

THEMATIC POSTER SESSION

C57 CRITICAL CARE CASE REPORTS: HEMATOLOGY, ONCOLOGY, RHEUMATOLOGY, AND IMMUNOLOGY

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area O, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: J.A. Gold, MD, Portland, OR
L. Richman, MD, New York, NY

- P1584 Rosai-Dorfman Disease with Associated Hypercoagulability: A Rare Presentation of a Benign Disease/R.** George, R. Sedhom, W. Khan, New Brunswick, NJ, p.A5887
- P1585 Thrombosis Associated with Congenital Prothrombin Deficiency: A Severe Procoagulant Defect Contrasting with Thrombosis in a Congenital Prothrombin Deficient Family/L.** Wang, J.-M. Liu, J. Rong, R. Han, Q. Zhao, S. Gong, J. He, Shanghai, China, p.A5888
- P1586 Deep Venous Thrombosis?? Think Outside the Box!/A.** Salama, Y. Levin, F. Makdisy, Rochester, NY, p.A5889
- P1587 Acquired Fibrinogen Deficiency in Multiple Myeloma/P.A.L.** Macauley, S. Shankar, O. Samuels, N. Somal, S. Bhardwaj, M. Amith Shenoy, Brooklyn, NY, p.A5890
- P1588 Hyperbilirubinemia Causing Discordance of Anti-Xa and PTT in a Patient on Extracorporeal Life Support/P.** Thangudu, B. Butcher, Pittsburgh, PA, p.A5891
- P1589 The Case of the Curtailed Clotting Cascade/C.** Brandsdorfer, K. Gross, S. Naik, Farmington, CT, p.A5892



P1590 Kill Two Birds with One Stone/N. Mesiha, S. Tiekku, P. Parang, D. Goldsmith, N. Nagella, Trenton, NJ, p.A5893

P1591 Hypotension Transfusion Reaction: A Rare Transient Reaction Seen with Leukoreduced Blood Products/S. Palasamudram Shekar, K.B. Patel, J.B. Gleason, J.P. Mehta, Weston, FL, p.A5894

P1592 Plasma Exchange: A Novel Approach for the Reversal of Severe Multi-Organ Failure Associated with a Sickle Cell Crisis/J.A. Derfel, S. Koenig, G. Zaidi, New Hyde Park, NY, p.A5895

P1593 Hypereosinophilia the Great Masquerader/A. Tandon, Cincinnati, OH, p.A5896

Facilitators: S. Chawla, MD, New York, NY
R. Stevens, MD, Baltimore, MD

P1594 Respiratory Failure Due to Anterior Mediastinal Masses: A Critical Care Dilemma/N. Vissicelli, K. Miller, Richmond, VA, p.A5897

P1595 Recurrent Malignant Thymoma Presenting as Myasthenia Gravis/J. Albors, J. Martinez-Gonzalez, W. Rodriguez-Cintron, O. Cantres-Fonseca, San Juan, PR, p.A5898

P1596 Diagnosis of Mediastinal Mass with Point of Care Ultrasound During Cardiac Arrest/A. Rothman, L. Miyakawa, P. Patrawalla, Y.I. Lee, New York, NY, p.A5899

P1597 Mediastinal Hemangioma: Rare Presentation to an Unusual Diagnosis/A.J. Shah, M.P. Paul, Syracuse, NY, p.A5900

P1598 Carcinoid Crisis - A Spontaneous Turn Of Events/N. Adlakha, C. McLeod, S. Patel, New York, NY, p.A5901

P1599 Blush or Flush? A Preventable Case of Carcinoid Crisis/J. Goralnik, I. Prenovitz, P. Grover, E. Nadler, A. Sharma, Farmington, CT, p.A5902

P1600 Post-Operative Anuria Due to a Combination of Urinoma and Acute Tubular Necrosis After Retroperitoneal Tumor Resection/M.B. Keller, K.H. Hammerich, M.A. Waldman, L.P. Beasley, A.R. Metwalli, A.F. Suffredini, Bethesda, MD, p.A5903

P1601 A Well-Travelled Uterine Sarcoma/A.K. Sabharwal, A.K. Arumugam Raajasekar, D.W. Chitty, I. Malhotra, Brooklyn, NY, p.A5904

P1602 And It's Back Again: A Case of a Recurring Vestibular Schwannoma/E. Leung, J. Herzog, St. Louis, MO, p.A5905

P1603 Double Unique Presentation of a Case with Acute Liver Injury Unmasking Non-Small Cell Lung Cancer Presenting with Malignant Pericardial Effusion/N. Din, C. Salmon, N. Ahmad, J. Orsini, Brooklyn, NY, p.A5906

Facilitators: E. Summerhill, MD, Pawtucket, RI
R. Parikh, MBBS, Burlington, VT

P1604 Anchoring to Death: An Unfortunate Case of Predecisional Information Distortion in the Diagnosis of End-Stage Lung Cancer/J. Riggs, S. Steiner, B. Oppenheimer, New York, NY, p.A5907

P1605 Fulminant Cardiogenic Shock, Purpura and Multisystem Organ Failure in Primary Systemic Amyloidosis/A.K. Chen, J. Patterson, M.J. Reed, Y. Mehta, Danville, PA, p.A5908

P1606 Fatal Disseminated Intravascular Coagulopathy: A Rare Presentation of Systemic Amyloidosis/V. Hoang, R. Hester, T. Teague, N. Kalakota, P. Patel, Houston, TX, p.A5909

P1607 Hemophagocytic Lymphohistiocytosis (HLH)- Cytokine Storm Still Often Underrecognized/H.S. Bukamur, I. Shahoub, F. Zeid, Huntington, WV, p.A5910

P1608 B Cell Lymphoma Associated Hemophagocytic Lymphohistiocytosis (HLH) Presenting as Fulminant Liver Failure/W. Mulvoy, S. Kapoor, Houston, TX, p.A5911

P1609 Airway Exchange Catheter Used in a Lymphoma Patient with Acute Respiratory Failure Who Failed to Be Mechanically Ventilated/H.-C. Huang, S.-C. Chang, C.-S. Huang, Taipei, Taiwan, p.A5912

P1610 Broadening the Differential: EBV-Associated Diffuse Large B-Cell Lymphoma of the Elderly/J.T. Watson, J.M. Guileyardo, W.C. Haden, P. Aguilar, Dallas, TX, p.A5913

P1611 A Rare Case Report: Idiopathic Multicentric Castleman Disease Complicated with Acute Respiratory Distress Syndrome Under Extracorporeal Membrane Oxygenation Support/P.K. Chen, W.K. Yu, Taipei City, Taiwan, p.A5914

P1612 A 38-Year-Old Man with TAFRO Syndrome Successfully Treated with Tocilizumab and Recombinant Thrombomodulin/Y. Takayama, T. Kubota, Y. Ogino, H. Ohnishi, K. Togitani, A. Yokoyama, Nankoku City, Japan, p.A5915

P1613 Metastatic Pancreatic Cancer: Mimicking the Great Mimicker/J. Loeb, M. Gallegos, D. Loeffler, A. Usmani, Chicago, IL, p.A5916

Facilitators: S.M. Pastores, MD, 10065, NY
S.K. Sahetya, MD, Baltimore, MD

P1614 A Rare Case of Angioedema in a Patient with Neuroendocrine Tumor/S. Bukhari, A. Dirweesh, H. Conaway, Trenton, NJ, p.A5917

P1615 Anakinra for the Treatment of Systemic Lupus Erythematosus Complicated by Macrophage Activation Syndrome/K.J. Young, S. Savajiyani, V.S. Sambhara, R. Raschke, Phoenix, AZ, p.A5918

P1616 Adult Stills...When You Least Suspect It/R.J. Perez, R. Foley, Farmington, CT, p.A5919

P1617 Secondary Infection and Typical Laboratory Finding Obscuring the Diagnosis of Granulomatous with Polyangiitis (GPA)/N. Biru, C. Chan, C.J. Woods, Washington, DC, p.A5920

P1618 Hypocomplementemic Urticarial Vasculitis Syndrome: A Rare Potentially Lethal Disease/Z. Atif, T. Arab, A. Cheema, F. Bagheri, A. Shalnov, Jamaica, NY, p.A5921

P1619 Double Trouble: Bullous Pemphigoid and Acquired Factor VIII Inhibitor in a Rapidly Decompensating Patient/B. Hambley, A. Popa, A. Attaway, Cleveland, OH, p.A5922

P1620 A Case of Oral Sparing Toxic Epidermal Necrolysis/M. Chopra, R. Garcia-Orr, S. Sultan, Phoenix, AZ, p.A5923

P1621 Pyoderma Gangrenosum Complicating Pacemaker Insertion, Masquerading as Necrotizing Fasciitis and Distributive Shock in a Patient with Myelodysplastic Syndrome/C.N. Myers, S. Velani, C.V. Teba, Cleveland, OH, p.A5924

P1622 Toddler by Nomenclature, Veteran by Pathology/R. Gorthi, G.T. Williams, A.A.S. Williams, Worcester, MA, p.A5925



THEMATIC POSTER SESSION

C58 CRITICAL CARE CASE REPORTS: NOTABLE CAUSES AND COMPLICATIONS IN ACUTE RESPIRATORY FAILURE

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area O, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: J. Liebler, MD, Los Angeles, CA
M. Tamae Kakazu, MD, Grand Rapids, MI

P1624 Ambu Bag for Fast Diagnosing a Rare Iatrogenic Tracheoesophageal Fistula Secondary to a Tracheostomy/N.M. Gharra, S. Zheludkov, T. Bogoslavsky, Pardes Hanna, Israel, p.A5926

P1625 Application of High Frequency Oscillatory Therapy In-Line with Mechanical Ventilator for Secretion Removal in Burn Patients/W. Englert, T. Morella, P. Patel, R. Tero, Livingston, NJ, p.A5927

P1626 Tension Pneumoperitoneum Following Difficult Intubation: Uncommon Complication from a Common Procedure/J.K. Mwangi, Z. Jamkhana, St. Louis, MO, p.A5928

P1627 The Power of Negative Intrathoracic Pressure and a Rare Cause of Pulmonary Edema/G.F. Shaughnessy, P.D. Scanlon, Rochester, MN, p.A5929

P1628 A Case of Lung Lobe Torsion Without a History of Thoracic Surgery/Y. To, S. Soeda, M. To, N. Ogura, S. Mikami, H. Hara, K. Izumi, M. Matsumoto, K. Sugano, T. Ishiwata, Y. Kozu, R. Atsuta, Tokyo, Japan, p.A5930

P1629 How Much Is too Much? A Case of the Obesity Hypoventilation Syndrome Requiring Extremely High Ventilatory Pressures/T. Tsang, D. Grooms, J. Sill, Norfolk, VA, p.A5931

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P1631 Weaning Mechanical Ventilation During VV-ECMO: The Successful Use of APRV/A. Pannu, S. Shaefi, J.E. Previtera, R. Ritz, T. Sarge, Boston, MA, p.A5933

P1632 Passage of Air from Thorax to Tongue; A Rare Case of Oropharyngeal Subcutaneous Emphysema/G. Sikka, Z. Khan, M. Bachan, L. Varma, Bronx, NY, p.A5934

Facilitators: R.R. Miller, MD, MPH, Murray, UT
O. Gajic, MD, Rochester, MN

P1633 A Balancing Act: Weighing the Cost of Dynamic Hyperinflation Versus Permissive Hypercapnia in a Patient with Status Asthmaticus and Elevated Intracranial Pressure/D. Umene, B.J. Marsh, S. Nonas, Portland, OR, p.A5935

P1634 Open Lung, Happy Lung...An Underutilized Strategy for Improving Oxygenation in ARDS/N. Jayaprakash, R.A. Oeckler, Rochester, MN, p.A5936

P1635 Under Pressure: A Fatal Case of Tracheal Dilatation/J. Johnson, B. Gill, S. Patel, Maywood, IL, p.A5937

P1636 Refractory Status Asthmaticus and Use of Inhaled Sevoflurane/J.M. D'Souza, M. Pawar, Singapore, Singapore, p.A5938

P1637 Extracorporeal Membrane Oxygenation (ECMO) as a Bridge to Surgical Intervention in the Critically Ill Patient/I. Bronshteyn, L.-K. Tran, S. Milan, S. Shahzad, Brooklyn, NY, p.A5939

P1638 A Case of Acute Pulmonary Embolism Causing Refractory Hypercapnia in a Patient with Known COPD/P. Gozenput, M.A. Shenoy, S. Shankar, I. Malhotra, H. Desoky, R. Bernstein, B. Shamian, A. Rai, P. Chandar, P. Irukulla, C. Seneviratne, Y. Kupfer, Brooklyn, NY, p.A5940

P1639 Leaking to Death: A Possible Case of Clarkson Syndrome (Idiopathic Capillary Leak Syndrome)/C.R. Howe, Grand Rapids, MI, p.A5941

P1640 Successful VATS with Lobectomy on VV-ECMO for Hypoxemic Respiratory Failure/E.M. Rakowski, D. Smith, M. Zervos, B. Zakhary, New York, NY, p.A5942

P1641 Extra Corporeal Membrane Oxygenation (ECMO) in a Non-HIV Pneumocystis Pneumonia Patient with Severe Acute Respiratory Distress Syndrome/T. Li, Z. Tong, Beijing, China, p.A5943

Facilitators: J. Reis, MD, San Antonio, TX
P. Sinha, MBChB, London, United Kingdom

P1642 ARDS Requiring V-V ECMO Caused by Adenovirus in an Immune Competent Patient/U. Adil, R. Kempainen, Minneapolis, MN, p.A5944

P1643 Resolution of Acute Respiratory Failure Due to Granulomatosis with Polyangiitis While on Extracorporeal Membrane Oxygenation as a Bridge to Transplantation/J.C. Fain, G. Belopolsky, N.S. Sharma, S.C. Bellot, J. Barney, C.R. Baker, E. Diaz-Guzman, C.W. Hoopes, K.M. Wille, Birmingham, AL, p.A5945

P1644 Transfusion Related Acute Lung Injury Successfully Managed with Extracorporeal Membrane Oxygenation/O.J.L. Mitchell, A. Oskuei, B. Zakhary, New York, NY, p.A5946

P1645 Under Pressure: Can the Plateau Be Higher than the Peak Pressure?/H. Sajjad, G.A. Schmidt, M. Eberlein, Iowa City, IA, p.A5947

P1646 Veno-Venous Extracorporeal Membrane Oxygenation Support in Untreated HIV and Pneumocystis Pneumonia/M. Desai, H.J. Dalton, R. Singh, L. Ryan, C. Murphy, Falls Church, VA, p.A5948

P1647 Metoclopramide-Induced Pheochromocytoma Crisis: ECMO Rescue for ARDS/M. Dawson, J. Menaker, J. O'Connor, R. Duncan, C. Kolokythas, Z. Kon, Baltimore, MD, p.A5949

P1648 Silent Spaces Derived from Electrical Impedance Tomography During a PEEP Titration Trial in an ARDS Patient: A Case Report/S. Spadaro, G. Scaramuzzo, A. Waldmann, E. Marangoni, S.H. Bohm, C.A. Volta, Ferrara, Italy, p.A5950

P1649 Add-On Tiotropium Bromide for Impending Respiratory Failure Secondary of Asthma Attack/N. Sovira, Bogor, West Java, Indonesia, p.A5951



P1650 Tracheal Rupture: A Deadly Complication of a Routine Procedure/E.S. Josan, H. Storer, A. Mahajan, J. Green, L. Miller, Johnson City, TN, p.A5952

Facilitators: M. Langston, MD, Bronx, NY
E. Sacks, MD, Pittsburgh, PA

P1651 Beware of the Steeple Sign in the Adult: Danger May Be Looming/M. Hasan, J. Alukal, Y.R. Sedhai, M. Korman, Darby, PA, p.A5953

P1652 Tracheal Compression Due to Megaesophagus: A Case Report/P. Gurram, S. Subramany, V. Wadhwa, T. Pandey, L. Johnson, Little Rock, AR, p.A5954

P1653 Rapid Ultrasound Confirmation of Main Stem Intubation in Life Threatening Massive Hemoptysis/V. Reddy, T. Hossain, R. Postelnicu, V. Mukherjee, D. Pradhan, New York, NY, p.A5955

P1654 Choked on Chicken Skin: A Cruel End or a Content Beginning of a New Journey!!!!/J. Shah, Chattanooga, TN, p.A5956

P1655 Intraoral Ulcer Due to Non-Invasive Positive Pressure Ventilation: An Overlooked Complication/K. Masaki, A. Chiyotani, K. Sakurai, D. Arai, H. Takahashi, K. Fukunaga, T. Betsuyaku, I. Nakachi, Tochigi, Japan, p.A5957

P1656 Tension Hydrothorax Leading to Cardiac Arrest Reversed with Chest Tube Placement/T. Hossain, O. Sinokrot, S. Phalakornkul, New York, NY, p.A5958

P1657 A New Association? A Case of Influenza-A Associated Purpura Fulminans Following Extracorporeal Membrane Oxygenation/M. Qi, M. Hsu, M. Reyes, S. Jiang, D. Roe, W.G. Carlos, Indianapolis, IN, p.A5959

P1658 Extracorporeal Membrane Oxygenation in Patients with Acute Severe Asthma/A. Magge, R. Pascanu, E. Salerno, West Hartford, CT, p.A5960

P1659 A Rare Case of Schmidt's Syndrome Causing Circulatory Failure Successfully Rescued with ECMO/L. Jalota, D.W. Lee, Fresno, CA, p.A5961

P1660 Here Comes the Trickster: A Case of Non-Surgical Pneumoperitoneum in a 69 Year Old Woman/F. Khalid, S. Rehman, S. Gupta, Cleveland, OH, p.A5962

THEMATIC POSTER SESSION

C59 SILICOSIS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area E, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: E.L. Petsonk, MD, Morgantown, WV

P491 Accelerated Silicosis in Teflon-Coated Pan Manufacturing: Case Report/G. Sari, C. Simsek, B. Gebesoglu, S. Gulgosteren, B. Uzmezoglu, D. Celik, Ankara, Turkey, p.A5963

P492 Regulatory Role of Heme Oxygenase-1 in Silica-Induced Lung Injury/K. Nakashima, T. Sato, H. Sasaki, M. Ikeda, A. Nagashima, H. Watanabe, K. Nagai, H. Nagakura, N. Horita, N. Kobayashi, M. Yamamoto, M. Kudo, M. Shinkai, T. Kaneko, Yokohama, Japan, p.A5964

P493 Prevalence of Silicosis Among Commercial Health Insurance Beneficiaries/L.R. Kepple, M.L. Casey, J.M. Mazurek, Morgantown, WV, p.A5965

P494 Use of Diagnostic and Procedure Codes for Detecting Silicosis Among Commercial Health Insurance Beneficiaries/L.R. Kepple, M.L. Casey, J.M. Mazurek, Morgantown, WV, p.A5966

P495 The Analysis of Cholesterol and ox-LDL Levels in Alveolar Macrophages from Patients with Silicosis/H. Liu, X. Hao, W. Tian, Tangshan, China, p.A5967

Facilitator: M. Akgun, MD, Erzurum, Turkey

P496 Lidocaine Differentially Affects Acute and Late Phases of Experimental Silicosis in Mice/T.P.T. Ferreira, L.L. Mariano, B.T. Ciambarella, J.C.F. Alves-Filho, C. Hogaboam, M. Martins, P.M.R. Silva, Rio de Janeiro, Brazil, p.A5968

P497 Preventive and Early Therapeutic Effects of β -Glucan on Silica-Induced Oxidative Stress and Pulmonary Fibrogenesis in Rats by Enhancement of Thioredoxin System/X. Hao, H. Liu, W. Tian, Tangshan, China, p.A5969

P498 Proteomic Profile of Lung Fibroblasts Induced by TGF- β 1 and Potential Roles in Rats Exposed to Silica/F. Yang, H. Xu, D. Xu, Tangshan, China, p.A5971

P499 Severe Diffuse Emphysema and Complicated Silicosis from Workplace Diatomaceous Earth Exposure/K. Vonfeldt, C. Rose, Denver, CO, p.A5972

P500 Pulmonary Silicosis Masquerading as Miliary Tuberculosis/J. Tu, D. Jun, J. Martires, D. Yick, Sylmar, CA, p.A5973

THEMATIC POSTER SESSION

C60 INDOOR AIR POLLUTANTS: BIOMASS AND WOOD SMOKE

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area E, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: N.E. Alexis, PhD, Chapel Hill, NC

P502 Can a Cleaner Burning Biomass-Fuelled Cookstove Reduce Airway Macrophage Black Carbon?/A.L. Whitehouse, L. Miyashita, C. Ndamala, A.W. Naunje, J.R. Balmes, S. Gordon, K.J. Mortimer, J. Grigg, London, United Kingdom, p.A5974



P503 **A Cleaner Burning Biomass-Fueled Cookstove Intervention to Prevent Pneumonia in Children Under 5 Years Old in Rural Malawi (CAPS): A Cluster Randomised Controlled Trial/K.J. Mortimer, C. Ndamala, A.W. Naunje, J. Malava, C. Katundu, W. Weston, D. Havens, D. Pope, N. Bruce, M. Nyirenda, D. Wang, A. Crampin, J. Grigg, J.R. Balmes, S. Gordon, Liverpool, United Kingdom, p.A5975**

P504 **Clean Cookstove Household Air Pollution Intervention Decreases the Risk for Bacterial Pneumonia but Not Viral Pneumonia/A. Lee, D. Jack, S. Owusu-Agyei, B. Wylie, S.N. Chillrud, R. Whyatt, K. Ae-Ngibise, A. Quinn, A. Yawson, E. Boamah, O. Agyei, R. Tokarz, S. Kaali, P.L. Kinney, K.P. Asante, New York, NY, p.A5976**

P505 **Endothelial Function as a Short-Term Cardiovascular Outcome Measure in an Interventional Cookstove Trial/C.H. Miele, M. Inanorno, R.G. Weiss, R. Gilman, G. Valdivia, R.A. Wise, V. Davila-Roman, W. Checkley, Baltimore, MD, p.A5977**

P506 **Improved Certified Biomass Fuel Stoves Dismissed More Easily Gastro-Esophageal Reflux Disease Symptoms than Respiratory Symptoms/J.-D. Ju, C.M. Zhang, L.M. Lopez, R.A. Accinelli, Lima, Peru, p.A5978**

P507 **Hematologic Parameters and Respiratory Symptoms in Users of Both Gas and Biomass Fuel Stoves Versus Only Gas Stove Users/J.-D. Ju, C.M. Zhang, L.M. Lopez, C. Kochi, S. Choi, M.C. Mauricio, R.A. Accinelli, Lima, Peru, p.A5979**

P508 **Three Months After the Implementation of Certified Biomass Fuel Stoves Associates with the Improvement of Ocular Symptoms but Not Respiratory Symptoms/C.M. Zhang, J.-D. Ju, L.M. Lopez, R.A. Accinelli, Lima, Peru, p.A5980**

P509 **People with Respiratory and Ocular Symptoms Have a Higher Exposure Index to Biomass Fuel Combustion/C.M. Zhang, J.-D. Ju, L.M. Lopez, S. Choi, M.C. Mauricio, C. Kochi, R.A. Accinelli, Lima, Peru, p.A5981**

Facilitator: N. Putcha, MD, MHS, Baltimore, MD

P510 **Respiratory Symptoms Frequency in Users of Gas Stoves Only Is Lesser than Gas Plus Biomass Fuel Combustion Stoves Users/C. Kochi, J.-D. Ju, L.M. Lopez, C.M. Zhang, M.C. Mauricio, S. Choi, D. Garay, V. Gonzalez, P. Briones, R.A. Accinelli, Lima, Peru, p.A5982**

P511 **Cardiovascular Health Effects of Dung Biomass Smoke Exposure: Effect Modification by Age/P. Khaing, S. Mazumder, B. Dube, B. Yan, S. Taneja, S. Chillrud, N. Bhandari, J. D'Armiento, A. Lee, New York, NY, p.A5983**

P512 **Smoke, Biomass Exposure and COPD Risk in the Primary Care Setting: The PUMA Study/M. Montes De Oca, G. Zabert, D. Moreno, M. Lauchó-Contreras, M.V. Lopez Varela, F.A. Surmont, Caracas, Venezuela, p.A5984**

P513 **Ophthalmologic, Cutaneous and Gastric Symptoms Frequency Is Higher Among Gas and Biomass Fuel Exposure Users Compared to Gas Only Users in a Shanty Town in Arequipa, Peru/M.C. Mauricio, J.-D. Ju, L.M. Lopez, C.M. Zhang, C. Kochi, S. Choi, D. Garay, R.A. Accinelli, Lima, Peru, p.A5985**

P514 **Inhibition of the Aryl Hydrocarbon Receptor Rescues Impaired Anti-Viral Responses of Human Small Airway Epithelial Cells Exposed to Dung Biomass Smoke/C.E. McCarthy, P.F. Duffney, T.H. Thatcher, R.P. Phipps, P.J. Sime, Rochester, NY, p.A5986**

P515 **In Vivo Effects of Dung Biomass Smoke Inhalation/C.E. McCarthy, P.F. Duffney, T.H. Thatcher, R.P. Phipps, P.J. Sime, Rochester, NY, p.A5987**

P516 **The Differential Toxicity of Inhaled Household Air Pollutants: Wood Smoke, Tobacco and Electronic Cigarettes/J.W. Chang, M. Davids, J. Grigg, R. Van Zyl-Smit, Cape Town, South Africa, p.A5988**

P517 **The Burden of Non-Communicable Lung Disease in Malawian Adults in the Context of Widespread Exposure to Household Air Pollution (HAP)/G.S. Flitz, D. Havens, C. Ndamala, A. Nuanje, M. Lesosky, J.R. Balmes, K.J. Mortimer, Berkeley, CA, p.A5989**

Facilitator: K.J. Cummings, MD, MPH, Morgantown, WV

P518 **Cooking Behaviors Contribute to Particulate Matter Levels in the Homes of Urban Asthmatic Children in California/S. Holm, J.R. Balmes, E. Seto, D. Gillette, D. Lindeman, K. Hartin, E. Fong, San Francisco, CA, p.A5990**

P519 **Investigating the Use of a Portable Carbon Monoxide Exposure Monitor Among Commercial Food Vendors in Benin City, Nigeria: A Pilot Survey/N. Mokogwu, S. Semple, Benin, Nigeria, p.A5991**

P520 **Exposure to Household Air Pollution During Pregnancy Is Associated with Hypoxic Signature in the Placenta of Pregnant Nigerian Women/A. Dutta, G. Khramstova, K. Brito, S. Chinthala, S. Rana, C.O. Olopade, Chicago, IL, p.A5992**

P521 **Exposure to Household Air Pollution Alters Angiogenic Factors in Placenta of Pregnant Nigerian Women/A. Dutta, K. Brito, G. Khramstova, S. Chinthala, S. Rana, C.O. Olopade, Chicago, IL, p.A5993**

P522 **Contribution of Lighting Sources to Indoor Air Pollution in Rural Uganda/D. Muyanja, J.G. Allen, J. Vallarino, B. Kakuhikire, D.C. Christiani, A.C. Tsai, P.S. Lai, Mbarara, Uganda, p.A5994**

P523 **Factors Associated with High Use of Kerosene for Cooking in Nigeria and Attitude Towards the Use of Cleaner Fuel/O. Ozoh, T. Okwor, O. Adetona, O. Ojo, V. Nwude, A. Akinkugbe, C. Amadi, C. Esezobor, Lagos, Nigeria, p.A5995**

THEMATIC POSTER SESSION

C61 TUBERCULOSIS CASE REPORTS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area E, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: R.A. Accinelli, MD, Lima, Peru

P553 **Returning to a Basic Diagnostic Approach for Pulmonary Tuberculosis/P. Sen, U. Majumdar, P. Rendon, A.I. Saeed, Albuquerque, NM, p.A5996**

P554 **A Community Acquired Pneumonia: What Can We Learn?/M. Dang, H. Upadhyay, A. Patel, Z. Hashemi, A. Rasheed, M. Shahzadi, L. Gerolemou, F. Arjomand, V. Vasudevan, Brooklyn, NY, p.A5997**



- P555 Tuberculosis - The Great Masquerader/B. Wolk, K. Cao, Tampa, FL, p.A5998**
- P556 How Sure Can You Be that It Is Not TB!/A.H. Siddiqui, M. Rehan, F. Siddiqui, G. Debal, D. Elsayegh, Staten Island, NY, p.A5999**
- P557 A Rare Complication of a Common Disease/S. Chakraborty, London, United Kingdom, p.A6000**
- P558 Late Diagnosis of Endobronchial Tuberculosis Leading to Tracheal Stenosis and Left Lung Collapse/K.C. Ma, L.K. Torres, E. Shostak, B.-G. Harvey, New York, NY, p.A6001**
- P559 Pericarditis Due to Paradoxical Reaction of Mediastinal Tuberculous Lymphadenitis and Endobronchial Tuberculosis/T. Oba, H. Matsushima, M. Amano, K. Akasaka, Saitama, Japan, p.A6002**

Facilitator: L.N. Friedman, MD, Milford, CT

- P560 Koch's with Kikuchi Disease Together in a Young Male/L.N.S. Tirunagari, A. Hasan, Hyderabad, India, p.A6003**
- P561 Medically Managed Empyema Necessitans from Mycobacterium Tuberculosis in an Immunocompetent Host/R. Holman, M.N. Megally, P. Webster, M. Warshawsky, E. Awerbuch, Elmhurst, NY, p.A6004**
- P562 An Unusual Case of Pleural Tuberculosis: Clinical Suspicion Still Trumps Technology/S.-A. East, S. Jagpal, O. Pistun, New Brunswick, NJ, p.A6005**
- P563 A Rare Case of Tuberculosis in Ribs and Soft Tissues of the Thorax/L. Fernandez, J.D. Yara, D. Arboleda, L.F. Sua, M. Velasquez, L. Gutierrez, Cali, Colombia, p.A6006**
- P564 5 Years Old Girl with Human Immunodeficiency Virus (HIV) and Multi Drug Resistance (MDR) Tuberculosis: First Case Report in Indonesia/H. Agustin, E. Burhan, G.A. Desianti, D. Septiyanti, Jakarta, Indonesia, p.A6007**
- P565 Fatal Sepsis from Mycobacterium Tuberculosis in an HIV-Negative Alcoholic Female/G.J. Mitchon, J.L. Barlow, Seattle, WA, p.A6008**
- P566 Disseminated Tuberculosis-Typical or Atypical Presentation - We Need to Be Aware!/S. Hadigal, E. Harman, Gainesville, FL, p.A6009**

Facilitator: C. Yoon, MD, MPH, San Francisco, CA

- P567 Disseminated Mycobacterial Infection in a Patient with Prior Sarcoidosis. Complicated or Misdiagnosed?/M. Kwon, C. Colaco, N. Patel, V. Arunthari, B. Colaco, Jacksonville, FL, p.A6010**
- P568 Flourish or Perish: A Case of Brisk Miliary Tuberculosis Development with Steroid Treatment in a PPD Negative Patient with Non-Caseating Granuloma/F. Kukhon, M. Barbour, A. Mohamed, J. Miskovsky, T. Minami, K. Alhourani, A. Chahin, Pawtucket, RI, p.A6011**
- P569 A Case of Iatrogenic Disseminated Mycobacterium Bovis Infection/C.B. Ni Ealaithé, L.J. Chawke, J.P. Sweeney, T.M. O'Connor, Cork City, Ireland, p.A6012**
- P570 A Case of Latent Tuberculosis Activation During Oral Tyrosine Kinase Inhibitor Treatment in a Patient Diagnosed Non-Small Cell Lung Cancer/H.Y. Lee, C.D. Yeo, J.W. Kim, Uijeongbu-si, Gyeonggi-do, Korea, Republic of, p.A6013**

- P571 Acute Respiratory Distress Syndrome Due to Severe Pulmonary Tuberculosis Treated with Extracorporeal Membrane Oxygenation/N. Omote, Y. Kondoh, N. Hashimoto, H. Taniguchi, Y. Hasegawa, Nagoya, Japan, p.A6014**
- P572 Quantiferon Conundrums with Latent Mycobacterium Tuberculosis Diagnosis/R. Riar, P. Shrestha, E.O. Ortiz-Diaz, M. Pradhan, G.R. Pesola, New York, NY, p.A6015**
- P573 A Case of a Rare Isoniazid Related Neurotoxicity/A. Andriotis, N. Ahmed, A. Kazeros, New York, NY, p.A6016**

THEMATIC POSTER SESSION

C62 CASE REPORTS: PULMONARY INFECTIONS - MISCELLANEOUS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area E, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: P. Peyrani, MD, Louisville, KY

- P575 Pulmonary Langerhans Cells Histiocytosis; an Important Differential in Patients with Human Immunodeficiency Virus/K.M. Patel, D. Subedi, Syracuse, NY, p.A6017**
- P576 Bronchopulmonary Kaposi's Sarcoma Without Cutaneous Lesions/R. Mantilla, D. Smith, A.P. Noriega Aldave, D. Grider, M. Cossio, Roanoke, VA, p.A6018**
- P577 Successful Medical Treatment of Multiple Pulmonary Hydatid Cysts with Albendazole/S. Tahsini Tekantapeh, M.E. Hejazi, S. Hasani, Y. Hejazi, Tabriz, Iran, p.A6019**
- P578 Dog Heartworm in the Lung/D.N. Smith, S. Zulqarnain, S. Kuperberg, A. Lee, Brooklyn, NY, p.A6020**
- P579 Human Erlichiosis Presenting with Mediastinal Lymphadenopathy and Pleural Effusions/N.M. Vasquez, M. Fadila, W. Parker, Columbia, MO, p.A6021**
- P580 Lung Infiltrates Secondary to Dengue Fever: Case Report/R.A.B. De Athayde, J.R.B. Oliveira Filho, B.M. Piloto, R.S. Tartaglia, R.R. Miranda, B.N. Endlich, P.P. Neffa, A.N. Costa, Sao Paulo, Brazil, p.A6022**
- P581 Pulmonary Arterial Hypertension in Patient with Both HIV and Schistosomiasis Infection/J. Ataucuri-Vargas, C.-P. Wu, Bronx, NY, p.A6023**
- P582 I Have Never Heard of Pulmonary Leishmaniasis, Have You?/M. Abu Omar, M. Goyal, A. Qasrawi, O. Abughanimeh, M.A. Javed, G. Salzman, Kansas City, MO, p.A6024**

Facilitator: R. Nusrat, MD, Princeton, NJ

- P583 Acute Respiratory Distress Syndrome Secondary to Influenza A (H1N1 2009) Complicated by Diabetic Ketoacidosis: A Fatal Case of Swine Flu/S. Wiesel, P. Catella, F. Siddiqui, D. EL-Sayegh, Staten Island, NY, p.A6025**



- P584 Bacterial Pneumonia with Influenza Coinfection Complicated by Aspergillosis, ARDS, and Septic Shock in a Cirrhotic/K.** Hou, A. Sutherland, Newark, NJ, p.A6026
- P585 A Man with Recurrent Chest Infections/P.S. Pandya, London, United Kingdom, p.A6027**
- P586 Unusual Cause of Cavitory Lung Lesion/M.M. Ali, N. Sajjad, F.A. Khaja, Smithfield, NC, p.A6028**
- P587 An Unexpected Culprit for Empyema in an Immunocompromised Patient/A. Aljaafareh, D. Becnel, P. Stevenson, E. Harman, Gainesville, FL, p.A6029**
- P588 "A Costly Shave": A Rare Cause of Atypical Lemierre's Syndrome/A. Sharma, J. Goralnik, E. Nadler, Farmington, CT, p.A6030**
- P589 Diffuse Interstitial Pulmonary Infiltrates: Don't Always Blame Infection!/R. Sekhon, T. Pandya, Z. Ghazarian, M. Hanna, Z. Syed, J.J. Mathew, Paterson, NJ, p.A6031**
- P590 Golden S Sign: An Unusual Cause of Right Upper Lobe Collapse/J. Mallen, I.G. Berim, Omaha, NE, p.A6032**
- P591 Fatal Mycotic Pulmonary Artery Aneurysm in an Intravenous Drug User/A. Olarewaju, M. Iannuzzi, B. Sah, Syracuse, NY, p.A6033**
- P592 Can Two Be in One? Infected Bronchogenic Cyst and Carcinoid Tumorlets/V.K. Kolipara, T. Barreiro, Youngstown, OH, p.A6034**

Facilitator: L.N. Segal, MD, New York, NY

- P593 Pulmonary Cavitation: A Diagnostic Conundrum/M. Kalani, R. Sharara, A. Fasanya, V. Gandhi, K. Malik, Pittsburgh, PA, p.A6035**
- P594 Putting the Urine Antigen Test on Blast/N. Dodia, D.R. Fraidenburg, Chicago, IL, p.A6036**
- P595 An Unusual Case of Necrotic Mediastinal Lymphadenopathy/A.H. Cho, A. Alwassia, N. Abaalkhail, R. Khosla, Washington, DC, p.A6037**
- P596 A Grapefruit Sized Cyst Weighing on the Heart/S.G. Meka, E. Alsharekh, P. Chittick, Royal Oak, MI, p.A6038**
- P597 A Tale of Two Microbes: Dilemmas of a Co-Infected Cavitory Lung Lesion/N.M. Salas, H.K. Busby, M.S. Harkins, Albuquerque, NM, p.A6039**
- P598 Pulmonary Nocardiosis with Cutaneous Mycobacterium Haemophilum in an Immunocompromised Patient/W.J. Chang, N. Foulad-Pour, H. Montenegro, Cleveland, OH, p.A6040**
- P599 North African Shepherd with Hemoptysis/J. Lel, D.N. Kotton, Boston, MA, p.A6041**
- P600 Xanthogranulomatous Inflammation in the Lung/A. Bhatt, M.M. Howsare, U. Gauhar, Louisville, KY, p.A6042**
- P601 Tracheal Necrosis: A Pathologic Mediastinal Window/K. Warrior, S. Pandya, B. Tran, Chicago, IL, p.A6043**

Facilitator: R.G. Wunderink, MD, Chicago, IL

- P602 Pulmonary Nodules in Ectopic Adrenocorticotrophic Hormone Syndrome: Tumor or Infection?/J.T. Guevarra, T.J. Harkin, New York, NY, p.A6044**

- P603 The Great Mimicker with a New Hiding Place - a Case of Actinomyces and Aspergillus Infection/K.K. Parekh, M. O'Sullivan, New York, NY, p.A6045**
- P604 Septic Pulmonary Emboli - A Cause for Recurrent Bilateral Pneumothorax/R. Bhatt, A. Espe, M. Hoover, S. Kapoor, Houston, TX, p.A6046**
- P605 An Unusual Cause of Persistent Fever: Pseudomembranous Tracheitis/K. Singh, M. Makaryus, P. Malhotra, S. Sahni, P. Gill, A. Talwar, New Hyde Park, NY, p.A6047**
- P606 A Case of Chronic Obstructive Pulmonary Disease Exacerbation Due to Corynebacterium Propinquum Infection/S. Baig, S. Hossain, J. Sunderram, New Brunswick, NJ, p.A6048**
- P607 Listeria Monocytogenes Empyema and Peritonitis in a Patient with Cirrhosis/C. Donatelli, R. Abdul Rahman, J. Kazakov, Cleveland, OH, p.A6049**
- P608 An Unexplained Finding in a Patient with Suspected Foreign Body/K. Krivchenia, S. Khalfoun, J.M. Ruda, E. Allen, Columbus, OH, p.A6050**
- P609 Endobronchial Histoplasmosis Presenting as Respiratory Distress in an 8 Month Old Infant/G.M. Brottman-Kagan, C. Oberg, S. Davies, T. Lander, Minneapolis, MN, p.A6051**
- P610 The Brain Reveals the Secrets of the Heart/Y.L. Tay, P.V. Parekh, J. Koh, T.B. Low, Singapore, Singapore, p.A6052**

THEMATIC POSTER SESSION

C63 VIRAL RESPIRATORY INFECTIONS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area E, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: M.L. Metersky, MD, Farmington, CT
J. Salas Hernandez, MD, Tlalpan, Mexico

- P612 Survey on Influenza (IV) and Pneumococcus (PV) Vaccination Coverage in Adults, Over the Years, at a University Hospital in Buenos Aires/M. Dianti, M. Perin, M. Pombo, A. Casey, S. Leiva, D. Burgos, E. Membriani, A. Grosso, C.M. Luna, Buenos Aires, Argentina, p.A6053**
- P613 Epidemiological and Clinical Characteristics of Influenza Cases in a Spanish Tertiary Hospital/I. Martin Robles, P. Sanjuan, R. Suarez, N. Mengual, R. Golpe, J. Pita, L. Perez De Llano, Lugo, Spain, p.A6054**
- P614 Effects of Air Pollution and Environmental Parameters on Models Estimating Influenza-Associated Hospitalizations/R. Somayaji, M. Neradilek, A. Szpiro, K. Lofy, C. Goss, M. Jackson, D. Shay, J. Duchin, K.M. Neuzil, J. Ortiz, Seattle, WA, p.A6055**
- P615 Scenario of Pandemic 2009 H1N1 in Himachal Pradesh, India in 2015: Is It Resurgence?/S.A. Ganju, N. Gautam, D.V. Singh, S. Walia, A. Kanga, Shimla, India, p.A6056**



- P616** **The Airway DNA Virome in Healthy Smokers and Nonsmokers**/B.C. Keller, A. Gregory, G. Zhao, B.G. Wu, M. Sullivan, J. Clemente, L.N. Segal, Columbus, OH, p.A6057
- P617** **The Influence of Neighborhood-Level Social and Demographic Factors on Spatial and Temporal Trends of Influenza Hospitalization in the United States**/C.D. Sloan, R. Chandrasekhar, E.F. Mitchel, D. Ndi, L. Miller, E. Anderson, S. Zansky, K. Lung, M. Schroeder, K. Yousey-Hindes, J. Meek, M. Bargsten, A. Thomas, C. Felsen, M. Monroe, M. Spencer, P. Kirley, C. Cummings, S. Garg, W. Schaffner, M.L. Lindegren, Provo, UT, p.A6058
- P618** **A Worldwide Perspective on Hospitalized Patients with Viral Community-Acquired Pneumonia**/D. Radovanovic, G. Sotgiu, M. Di Pasquale, A. Gramegna, S. Terraneo, F. Blasi, P. Santus, S. Aliberti, L.F. Reyes, M.I. Restrepo, Milan, Italy, p.A6059
- P619** **Venous Thromboembolism Is an Independent Risk for Higher Morbidity and Mortality in Critically Ill Patients with Respiratory Viral Infection**/S.G. Meka, L. Qu, M. Sims, B. Dalal, Royal Oak, MI, p.A6060
- Facilitator:** C.R. Marion, DO, PhD, New Haven, CT
- P620** **Early Administration of Oseltamivir in Hospitalized Patients with Influenza Reduces Hospital Length of Stay**/D. Reynolds, A. Bartley, L. Dou, O. Gajic, H. Yadav, Rochester, MN, p.A6061
- P621** **Diagnosis and Comorbidities of Viral Respiratory Tract Infections in Hospitalized Patients: A Tertiary Hospital Experience**/Z. Esber, K.A. Bryant, M. Vollenweider, T. Jones, C. Hunley, R.A. Khan, Orlando, FL, p.A6062
- P622** **Does Introduction of Respiratory Viral Assay Affect the Use of Antibiotics in Patients Admitted with Acute Exacerbation of COPD - a Single Center, Before-After Experience**/M. Tickoo, S. Kurz, Boston, MA, p.A6063
- P623** **Viral Respiratory Infections in Hospitalized Symptomatic Respiratory Patients**/F.P. Lomar, R. Alencar, A. Serpa Neto, T.D. Correa, J.R. Pinho, J. Pasternak, C.S.V. Barbas, Sao Paulo, Brazil, p.A6064
- P624** **Metapneumovirus Infection in Hospitalized Symptomatic Respiratory Patients**/F.P. Lomar, R. Alencar, A. Serpa Neto, T.D. Correa, J.R. Pinho, J. Pasternak, C.S.V. Barbas, Sao Paulo, Brazil, p.A6065
- P625** **Bacterial Coinfection in Pandemic 2016 Severe Complicated Influenza in Taiwan**/W.-C. Chen, K.-Y. Yang, Taipei City, Taiwan, p.A6066
- P626** **Effect of Ribavirin and Interferon on the Outcome of Critically Ill Patients with MERS**/Y.M. Arabi, S. Shalhoub, A. Al Omari, Y. Mandourah, F. Al-Hameed, A. Sindi, B. Alraddadi, A. Al Motairi, K. Al Khatib, A. Abdul Mommin, I.A. Qushmaq, A. Mady, O. Solaiman, A. Al Aithan, H.H. Balkhy, R. Al-Raddadi, A. Rajab, G.A. Al Mekhlafi, A. Al Harthy, A. Kharaba, A. Al-Jabbary, R. Pinto, M. Sadat, H. Al Mutairi, E. Al Qasim, J. Jose, A.M. Deeb, L. Merson, F.G. Hayden, R. Fowler, A.S. Aldawood, Riyadh, Saudi Arabia, p.A6067

THEMATIC POSTER SESSION

C64 **PEDIATRIC CASE REPORTS: BPD AND CONGENITAL LUNG DISEASES****9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area F, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: S.A. McGrath-Morrow, MD, Baltimore, MD

- P633** **Cauliflower Lung: A Pediatric Pulmonary Presentation of Cutaneovisceral Angiomatosis with Thrombocytopenia (CAT)**/D.B. Ezroj, M.A.A. Tablizo, M.V. Dorfman, Fresno, CA, p.A6068
- P634** **A Pleural Effusion Hiding a Congenital Lung Lesion: A Congenital Lung Lesion Hiding a Rare Malignancy**/E. Len, S. Jagpal, O. Pistun, M. Ramagopal, M. Deen, New Brunswick, NJ, p.A6069
- P635** **Even If It Looks and Quacks Like ILD, It May Not Be**/B. Seay, D. Ezmigna, M. Tsifansky, S. Delgado, M. Abu-Hasan, Gainesville, FL, p.A6070
- P636** **Primary Pulmonary Lymphangiectasis in a Male Infant with Transposition of Great Arteries**/R.A. Alshumrani, A.I. Cristea, G. Montgomery, S.D. Davis, Indianapolis, IN, p.A6071
- P637** **A Non-Pulmonary Etiology for Persistent Tachypnea**/A.O. Delecaris, G. Subbarao, Indianapolis, IN, p.A6072
- P638** **A Two Year Old Boy with Persistent Respiratory Symptoms Caused by a Congenital Airway Anomaly**/C. Kuklinski, St. Louis, MO, p.A6073
- P639** **Six-Month Old Infant with Familial ACTA2 R179H Mutation, Severe Pulmonary Hypertension, Pulmonary Interstitial Glycogenosis, Moderate-to-Severe Pulmonary Hypoplasia, and Prune Belly Sequence**/A.G. Cornell, A.L. Kirby, D.A. Sauer, K.R. Schmitz, G.H. Deutsch, K.W. Holmes, Portland, OR, p.A6074
- Facilitator:** T.E. Tipple, MD, Birmingham, AL
- P640** **A Mediastinal Giant Mature Cystic Teratoma Revealed After Pleural Effusion Treated Twice as Tuberculosis**/P.D.M. Katoto, Bukavu, Congo, Republic of, p.A6075
- P641** **Unusual Pulmonary Manifestation of Chromosome 13q34 Duplication in a Newborn**/N. Kotwal, R. Megalaa, F. Ogunlesi, A.C. Koumbourlis, Washington, DC, p.A6076
- P642** **The Intersection of Cystic Fibrosis and Shwachman-Bodian-Diamond Syndrome: Exploring CF-Like Phenotypes with Negative Genotypes**/J. Barker, J. Monk, C. Curry, K. Au Yeung, S. Lehto, M.A.A. Tablizo, Madera, CA, p.A6077
- P643** **Congenital Pulmonary Lymphangiectasia with CD4 Lymphopenia Presenting in Adulthood**/G. Stroh, M. Dulohery, Rochester, MN, p.A6078



P644 The Difficulty in Diagnosing Pulmonary Sequestration/A.A. Fajilan, J. Fu, Y. Carter, J. Vintch, Torrance, CA, p.A6079

P645 An Unusual Cause of Hypercarbia in Premature Twins/S. Kilaikode, P.J. Shukla, G.R. Nino, G. Perez, Washington, DC, p.A6080

Facilitator: A.P. Popova, MD, Ann Arbor, MI

P646 Pre- and Post-Surgical Repair Visualization of Neonatal Tracheoesophageal Fistula/Esophageal Atresia (TEF/EA) Via MRI/N.S. Higano, A.J. Bates, J.A. Tkach, R. Fleck, A. Hahn, S.B. Fain, J.C. Woods, P.S. Kingma, St. Louis, MO, p.A6081

P647 An Uncommon Cause of Massive Hemoptysis/J.L. MacLeod, G. Bajwa, R. El-Bizri, Providence, RI, p.A6082

P648 Dyskeratosis Congenita Presenting with Pulmonary Arteriovenous Malformation (PAVMs): A Case Report/L. Fernandez, K. Monroy, C.L. Grizales, Cali, Colombia, p.A6083

P649 Management and Outcomes of Congenital Chylothorax in the NICU: A Case Series/K. Gipson, H. Myers, S. Hay, S. Bates, T.B. Kinane, Boston, MA, p.A6084

P650 If It Ain't Broke, Don't Fix It: A Case of Pneumonia Resulting from Biopsy of Dilated Bronchioles Distal to an Atriotic Bronchus/Y. Samra, C. Harden, M. Barnes, H. Alnuaimat, A. Ataya, Gainesville, FL, p.A6085

P651 Incidental Bronchocele: A Case Report/M. Hanna, I. Mashchenko, A. Trtchounian, M. Ismail, Paterson, NJ, p.A6086

P658 Non-Cystic Fibrosis Meconium Ileus Like Syndrome Found in the Chinese Patient/S. Malhotra, Chicago, IL, p.A6092

P659 Vomiting Associated with Cough- Not Always Post-Tussive/A.M. Mulholland, A. Ainsworth, N. Pillarisetti, Auckland, New Zealand, p.A6093

Facilitator: H. Chaney, MD, Washington, DC

P660 A 13-Year-Old Boy with Primary Ciliary Dyskinesia and Stubbornly Persistent Worsening Lung Function/H. Artinian, E. Sohn, Los Angeles, CA, p.A6094

P661 From Normal FEV1 to Lung Transplant in 134 Days/S. Zak, C. Siracusa, Cincinnati, OH, p.A6095

P662 An Unusual Cause of High Fever in a Patient with Cystic Fibrosis (CF): Kawasaki Disease/C.M. Osborne, P.C. Stillwell, E. Zemanick, S.R. Dominguez, Aurora, CO, p.A6096

P663 Double Trouble: A Case of Ehlers-Danlos Syndrome Type IV in Cystic Fibrosis/R. Perkins, J.M. Majure, Jackson, MS, p.A6097

P664 Cystic Fibrosis Diagnosed by Appendectomy/E.A. Dominguez Silveyra, J.B. Bishara, M. Pirzada, C. Valsamis, Mineola, NY, p.A6098

P665 Use of High Flow Nasal Insufflation and Improved Lung Function and Growth in Cystic Fibrosis/S.M. Paranjape, L.E. Ortiz, H. Schneider, Baltimore, MD, p.A6099

Facilitator: L. Caverly, MD, Ann Arbor, MI

P666 Treating Mycobacterium Abscessus in a Child with Cystic Fibrosis: First Experience in Our Center/G. Monge-Espinoza, G. Loria-Chavarria, M.E. Soto-Martinez, A. Solis-Moya, F. Hidalgo, C. Brenes, A. Matamoras, P. Salazar, A. Garcia, J.P. Gutierrez-Schwanhauser, M. Soto-Quiros, A. Hoepker, San Jose, Costa Rica, p.A6100

P667 Single Promoter Region CFTR Mutation in an African American Boy with CFTR-Related Metabolic Syndrome/J. Bouso, C. Makris, O. Elidemir, Pensacola, FL, p.A6101

P668 A Case of Pulmonary Nodules and Opacities in a Young Adult Female with Primary Ciliary Dyskinesia/M.V. Talamo Guevara, L. Camarda, S. Malhotra, M.A. Nevin, Chicago, IL, p.A6102

P669 Non-Resolving Pneumonia as the Presentation of Pulmonary Glomus Cell Tumor/M.Y. Prero, C.M. Oermann, Kansas City, KS, p.A6103

P670 Minocycline for ESBL Klebsiella Pneumonia in an Infant: Ethical Dilemmas?/J. Nikhilesh, A. Govinda, A. Nanera, Indore, India, p.A6104

P671 From a Pain in the Leg to a Plugged Up Lung: An Unusual Complication of MRSA Pneumonia/L. De Keyzer, D. Rao, Dallas, TX, p.A6105

Facilitator: M. Buu, MD, Palo Alto, CA

P672 Pericardial and Pleural Effusion in an Adolescent with Mycoplasma Pneumoniae Infection/H. Rao, J. Ericson, K. Hollern, C. O'Hara, Hershey, PA, p.A6106

P673 An Infant with a Vanishing Cystic Chest Lesion/V. Passi, K.A. King, L. Berman, L.E. Grissom, Wilmington, DE, p.A6107

THEMATIC POSTER SESSION

C65 PEDIATRIC CASE REPORTS: BRONCHIECTASIS, CYSTIC FIBROSIS, AND LUNG INFECTIONS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area F, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: J.F. Chmiel, MD, MPH, Cleveland, OH
A.P. Lever, MD, Tlalpan, Mexico

P653 A STAT1 Gain-of-Function Mutation in Multifactorial Bronchiectasis in a Five Year-Old/R. Kretzmer, J. Church, M. Bansal, Los Angeles, CA, p.A6087

P654 A Novel DNAI1 Mutation in a 6-Year-Old with Recurrent Pneumonia Diagnosed with Primary Ciliary Dyskinesia/K. Gipson, T.B. Kinane, A. Cook, Boston, MA, p.A6088

P655 A Case of Severe, Diffuse Bronchiectasis in a 3 Year Old Female/M. Hjelm, E. Allen, Columbus, OH, p.A6089

P656 The Unknown Overlap Between Primary and Motile Ciliary Dysfunction/S. Malhotra, Chicago, IL, p.A6090

P657 The Validity of a Positive Sweat Chloride Test in a Medically Complex Patient When Determining the Diagnosis of Cystic Fibrosis/S. Malhotra, Chicago, IL, p.A6091



- P674** **Viral Respiratory Illness Causing Airflow Obstruction and Recurrent Hospitalization of a Child to Pediatric Intensive Care**/S.E. Morgan, S. Mosakowski, B.L. Giles, G.M. Mutlu, P.A. Verhoef, Chicago, IL, p.A6108
- P675** **Diagnostic Dilemma: Pulmonary Nodules in a Child with Sickle Cell Disease**/M. Sagar, T.A. Pham, L.T. Nguyen, C. Ogborn, Temple, TX, p.A6109
- P676** **Respiratory Failure in Patients with Cytomegalovirus Pneumonitis**/M. Villamil-Osorio, S.M. Restrepo-Gualteros, O. Ramirez - Camacho, Bogota, Colombia, p.A6110

THEMATIC POSTER SESSION

C66 PEDIATRIC CASE REPORTS: DIFFUSE LUNG DISEASES

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Area F, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

- P678** **Diffuse Granulomatous Lung Disease: Sarcoidosis, Mycobacterial Disease or Both?**/J.H. Rayment, F. Ratjen, Toronto, Canada, p.A6111
- P679** **Kaposiform Pulmonary Lymphangiomatosis: A Systemic Disease Amenable to Mechanical Manipulation?**/P. Stafler, H. Blau, H. Mussaffi, A. Rothstein, Y. Lakovsky, E. Atar, E. Bruckheimer, M. Itkin, Petach Tikva, Israel, p.A6112
- P680** **COPA Mutation Causing Interstitial Lung Disease in an Infant**/C. Quintana Grijalva, T. Simoneau, Hartford, CT, p.A6113
- P681** **Chemotherapy-Related Pleuroparenchymal Fibroelastosis in a Patient Referred for Lung Transplant**/S. Das, E. Melicoff-Portillo, H. Nguyen, R. Guillermin, K. Eldin, Houston, TX, p.A6114
- P682** **Eosinophilic Pneumonia: A Multiple Cause Scenario**/I. Milligan, D. Bush, P.C. Stillwell, M. Wechsler, C. Galambos, J.B. Soep, D. Atkins, St. Louis, MO, p.A6115
- P683** **The Basement Flight - Bird Fancier's Lung in a Teenager**/C. Pande, L.E. Ortiz, D. Hindman, M. Jassal, Baltimore, MD, p.A6116
- P684** **Severe Respiratory Disease and Evidence of Interstitial Lung Disease in a Patient with Rubinstein-Taybi Syndrome**/L. Bradford, W. Stoudemire, T.J. Vece, C.E. Loughlin, Chapel Hill, NC, p.A6117
- P685** **Persistent Pulmonary Hypertension as a Result of Pulmonary Interstitial Glycogenosis**/G.G. Still, P. Sammut, Omaha, NE, p.A6118
- P686** **A Rare Cause of "Antibiotic Resistant" Pneumonia**/C. Arevalo-Marcno, J. Fierro, D. Brito-Guzman, J.G. Bustamante, Philadelphia, PA, p.A6119
- P687** **Where There Is Smoke, Think Fire: Progressive Diffuse Lung Disease in an Adolescent Nepali Refugee**/A. Messinger, O. Kupfer, K. Messacar, J. Abbott, J. Cataldi, C. Galambos, R. Deterding, H. Hoch, Aurora, CO, p.A6120

- P688** **Hypoxemia in Lipoid Pneumonia: Role of Intrapulmonary Bronchopulmonary Anastomoses**/D. Bush, R. Deterding, J.P. Weinman, C. Galambos, Aurora, CO, p.A6121
- P689** **Idiopathic Pleuroparenchymal Fibroelastosis in Adolescent Male**/T. Thoma, E. Arteaga-Solis, New York, NY, p.A6122
- P690** **Anti-TNF Therapy in Childhood Interstitial Lung Disease (NSIP)**/F. Neemuchwala, C. Lumeng, Ann Arbor, MI, p.A6123
- P691** **Smoking Teenager with Diffuse Cystic Lung Disease**/L.E. Ortiz, E.T. Zambidis, L.M. Sterni, Baltimore, MD, p.A6124
- P692** **Late Presentation of Lymphatic Abnormalities in a Child with Noonan Syndrome and a R1T1 Mutation**/K. Harman, S. Maroo, J. Terry, M. Van Allen, C.L. Yang, Vancouver, Canada, p.A6125
- P693** **Infliximab Induces Remission in Steroid-Dependent Pulmonary Sarcoidosis in Pediatric Patient**/A.R. Strang, C. Rose, Wilmington, DE, p.A6126
- P694** **Spirometry Is Critical: Atypical Dyspnea in a Teenager with Hereditary Pulmonary Arterial Hypertension**/A.R. Strang, M.A. McCulloch, A. Chidekel, Wilmington, DE, p.A6127
- P695** **Nonspecific Interstitial Pneumonia (NSIP) of Unusual Presentation**/S.M. Restrepo-Gualteros, M. Villamil-Osorio, A. Parra, S. Pulido, O. Ramirez - Camacho, Bogota, Colombia, p.A6128
- P696** **Atypical Presentation of an Uncommon Disease: A Case of Idiopathic Chronic Eosinophilic Pneumonia**/Y. Colon-Cortes, M.A. Hasan, A. Thatayatikom, Gainesville, FL, p.A6129
- P697** **Rubinstein-Taybi Syndrome and Unusual Lung Biopsy Finding of Pulmonary Alveolar Proteinosis and Severe Pulmonary Injury**/J.M. Wesley, R. Morrison, W. Furman, J.S. Hagood, D.C. Stokes, Memphis, TN, p.A6130
- P698** **Subpleural Cysts on Chest Tomography in Seven Months Old Baby with Tachypnea**/E. Concepcion, G. Deutsch, H. Lee, New York, NY, p.A6131
- P699** **A Rare Cause of Recurrent Hemoptysis**/Y.A. Yu, C.E. Loughlin, Chapel Hill, NC, p.A6132
- P700** **Sevoflurane-Induced Diffuse Alveolar Hemorrhage in a Child**/J. Bouso, J. Foland, R. Patterson, O. Elidemir, Pensacola, FL, p.A6133

THEMATIC POSTER SESSION

C67 SUPPURATIVE LUNG DISEASES IN CHILDREN

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Area B, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: S. Peterson-Carmichael, MD, Indianapolis, IN

- P75** **Restless Leg Syndrome and Periodic Limb Movement Disorder in Cystic Fibrosis Patients**/I. Sami-Zakhari, H. Fanous, Washington, DC, p.A6134



- P76** **Step It Up: Higher Step Count Is Significantly Correlated with Better Exercise Capacity in Individuals with Cystic Fibrosis/K.E. Powers, T. Herzog, H. Loosen, K. Von Berg, B. Weir, K.A. Riekert, P.J. Mogayzel, Baltimore, MD, p.A6135**
- P77** **The Impact of Frequent Home Spirometry on Medication Adherence, Health Outcomes and Quality of Life Among Adolescents with Cystic Fibrosis/A. Shakkottai, S.Z. Nasr, Ann Arbor, MI, p.A6136**
- P78** **Comparison Between Lung Function in Children with Cystic Fibrosis and Primary Ciliary Dyskinesia/N. Beydon, M. Fuger, G. Thouvenin, A. Tamalet, C. Aupiais, H. Corvol, Paris, France, p.A6137**
- P79** **Respiratory Syncytial Virus Infects Human Placental Choriocarcinoma Cells/T.J. Harford, V. Bokun, F. Rezaee, J.J. Moore, G. Piedimonte, Cleveland, OH, p.A6138**
- P80** **Are Our Children Safe? Estimated Computed Tomography (CT) Radiation Doses in the Diagnosis of Non-Cystic Fibrosis(CF) Bronchiectasis/L. Duncan-Were, A. Ainsworth, A.M. Mulholland, B. Lunt, C. Byrnes, N. Kennelly, R. Metcalfe, N. Pillarisetti, Auckland, New Zealand, p.A6139**
- P81** **Automated Airway Scores of Bronchiectasis in Children with Cystic Fibrosis Using a Machine Learning Classifier/E. DeBoer, E. Mastej, S. Sagel, S. Humphries, Aurora, CO, p.A6140**
- P82** **A Pilot Digital Tele-Exercise Program in Children with Cystic Fibrosis/J.J. Chen, S. Radom-Aizik, A. Sladkey, J. Nam, T.T. Vu, E. Nussbaum, D.M. Cooper, Irvine, CA, p.A6141**
- P83** **The Effect of Long Term Use of Inhaled N-Acetylcysteine on Cystic Fibrosis Lung Disease/T.A. Laguna, J. McNamara, L. Zhang, N. Demirel, Minneapolis, MN, p.A6142**
- P84** **Transitioning Young Adults with Bronchiectasis - Challenges and Pitfalls/A. Ainsworth, B. Farrant, C. Byrnes, N. Pillarisetti, Auckland, New Zealand, p.A6143**
- P85** **Degree of Dyspnea Assessed During Each Step of Methacholine Bronchial Provocation in Children Complaining of Clinical Asthma Symptoms/Y.J. Choi, Y.Y. Koh, D.I. Suh, Seoul, Korea, Republic of, p.A6144**
- P86** **Vaccine Adherence and Hesitancy Among Parents and Children with Cystic Fibrosis/A. Shenoy, H. Chidekel, L. Handy, D. Geiser, A. Chidekel, Wilmington, DE, p.A6145**
- P87** **Outcomes of Physical Therapist Administered Home Chest Therapy for Children and Adults with Cystic Fibrosis/C.J. Richards, S.O. Riley, A. Gould, J. Nadeau, C. Doolittle, M.S. Fracchia, L. Sicilian, I. Neuringer, A. Lapey, H. Dorkin, A. Uluver, G.S. Sawicki, L. Yonker, Boston, MA, p.A6146**
- P88** **Differential Inflammatory Response During Acute RSV Infection in Adult and Pediatric Mice/V. Brady, L. Sharma, W. Liu, C.S. Dela Cruz, New Haven, CT, p.A6147**
- P89** **Viral Co-Infection in Infants with Acute Bronchiolitis/L. Petrarca, R. Nenna, A. Frassanito, A. Pierangeli, T. Arcuri, C. Scagnolari, P. Papoff, C. Moretti, F. Midulla, Rome, Italy, p.A6148**
- P90** **Pulmonary Hydatid Disease in Children at Inkosi Albert Luthuli Central Hospital, Kwazulu Natal: A Retrospective Study/M. Ndlovu, R. Masekela, S. Thula, Durban, South Africa, p.A6149**
- P91** **An Analysis of the Temporal Neutrophil Response in the Airways of Infants with Bronchiolitis/E.C. Cavallaro, M.D. Lawrence, K.D. Forsyth, D.L. Dixon, Adelaide, Australia, p.A6150**
- P92** **Long-Term Morbidity of Respiratory Viral Infections During Chemotherapy in Children with Leukaemia: A Historical Prospective Cohort Study/B. Lin, B. Kennedy, J. McBride, L. Dalla-Pozza, T. Trahair, G. McCowage, E. Coward, P.D. Robinson, L. Plush, K. Hardaker, J. Widger, A. Jaffe, H. Selvadurai, Sydney, Australia, p.A6151**
- P93** **Systematic Review of Instruments Aimed at Evaluating the Severity of Bronchiolitis/M.P. Sossa-Briceno, C. Rodriguez-Martinez, G.R. Nino, Bogota, Colombia, p.A6152**
- P94** **Significance of Species Identification Within the Mycobacterium Avium Complex in Cystic Fibrosis/M. Azar, T. Spilker, J. LiPuma, L. Caverly, Ann Arbor, MI, p.A6153**
- P95** **Albuterol Utilization in Management of Young Children Who Present to Pediatric Emergency Department with Acute Bronchiolitis: Risk Factors and Outcomes/S. Gueye-Ndiaye, A. Petrova, M. Pepper, E. Leva, New Brunswick, NJ, p.A6154**
- Facilitator:** J. Taylor, MD, Kansas City, MO
- P96** **Radiological Findings in Pediatric Patients with Cytomegalovirus Pulmonary Infection/S.M. Restrepo-Gualteros, M. Villamil-Osorio, M. Gonzalez-Santos, G.R. Nino, C. Rodriguez-Martinez, Bogota, Colombia, p.A6155**
- P97** **Serum Brain-Derived Neurotrophic Factor (BDNF) Levels May Be Associated with the Number of Common Colds Within the First Year/S.L. Simpson, F. Rezaee, M. Alejandro-Rodriguez, H. Sedar, M.J. Allen, W.L. Spencer, S. Worley, G. Piedimonte, Cleveland, OH, p.A6156**
- P98** **Mechanical Insufflation- Exsufflation Vs Conventional Chest Physiotherapy for the Treatment of Respiratory Tract Infections in Children with Cerebral Palsy/R. Siriawat, J. Deerojanawong, N. Prapphal, S. Sritippayawan, S. Huntragool, Bangkok, Thailand, p.A6157**
- P99** **Ambroxol-Stimulated Increases in CBA and CBF Via pH Increase and [Cl-]i Decrease in Airway Ciliary Cells of Mice/S. Hosogi, T. Nakahari, Y. Marunaka, Kyoto City, Japan, p.A6158**
- P100** **Expiratory Flow Limitation (EFL) Plays a Key Role in Limiting Exercise Tolerance in Children with Cystic Fibrosis/L. Appendini, S. Dal Farra, G. Ferreyra, M. Goia, G. Cremona, E. Bignamini, Saluzzo, Italy, p.A6159**
- P101** **Application of Pharmacokinetics And Pharmacodynamics to Determine Dose Optimization Using Beta Lactams in Pediatric Cystic Fibrosis Population/C. Jensen, H. Fanous, H. Chaney, I. Sami-Zakhari, G. Perez, S. Louie, A. Hahn, Washington, DC, p.A6160**
- P102** **LCI in Symptomatic Preschool Children with Cystic Fibrosis/J.H. Rayment, S. Stanojevic, G. Retsch-Bogart, S.D. Davis, F. Ratjen, Toronto, Canada, p.A6161**
- P103** **Cytoplasmic Ciliary Inclusions in Isolation Are Not Sufficient for the Diagnosis of Primary Ciliary Dyskinesia in Children/T.J. Vece, S. Sagel, M.A. Zariwala, K. Sullivan, M. Knowles, S.D.M. Dell, R. Yusupov, M. Leigh, Chapel Hill, NC, p.A6162**



- P104** **Surrogate Measures of Pulmonary Function Computed from Functional Electrical Impedance Tomography in Children with Cystic Fibrosis**/J.E. Hoppe, P.A. Muller, J.L. Mueller, M.M. Mellenthin, R. Murthy, M. Capps, B. Wagner, M. Alsaker, R.R. Deterding, S. Sagel, Aurora, CO, p.A7673
- P105** **SPX-101 Is a Novel ENaC-Targeted Therapeutic for Cystic Fibrosis that Restores Mucus Transport**/M.P. Walker, T. Stuhlmiller, J. Sesma, D. Scott, R. Tarran, Durham, NC, p.A7674

THEMATIC POSTER SESSION

C68 PEDIATRIC CASE REPORTS: AUTOIMMUNE DISEASES AND IMMUNODEFICIENCIES

9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area F, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: D.I. Craven, MD, Cleveland, OH

- P701** **Bronchiolitis Obliterans Following Steven Johnson Syndrome**/D. Ezmigna, M. Abu-Hasan, Gainesville, FL, p.A6161
- P702** **A Pediatric Case of Refractory Autoimmune Pulmonary Alveolar Proteinosis**/C. Lee, St. Louis, MO, p.A6162
- P703** **An Unusual Case of Dyspnea and Hypoxemia in a Teenager**/C. Arevalo-Marcno, P.C. Cheng, S. Arevalo, Philadelphia, PA, p.A6163
- P704** **What Triggered Massive Hemoptysis in Goodpasture Syndrome with Isolated Pulmonary Involvement?**/A.T. Aslan, T. Sismanlar, D. Gezgin Yildirim, N. Buyan, Ankara, Turkey, p.A6164
- P705** **MECP2 Duplication Syndrome: A Rare Cause of Immune Dysfunction and Recurrent Lower Respiratory Tract Infections**/E. Hamberger, M. Buu, Palo Alto, CA, p.A6165

Facilitator: G. Montgomery, MD, Indianapolis, IN

- P706** **Granulomatous Lymphocytic Interstitial Lung Disease in a Pediatric Case of Common Variable Immunodeficiency**/M. Silva Carmona, R. Tillman, T.J. Vece, L. Forbes, N. Rider, R. Guillerman, J. Hicks, I. Chinn, Houston, TX, p.A6166
- P707** **Persistent Pneumonia in a Boy with Chronic Granulomatous Disease**/K.W. Savary, M. Kattan, Y.Y. Demirdag, New York, NY, p.A6167
- P708** **Syntaxin Binding Protein 1 Mutation in a 3- Year-Old Female with Recurrent Viral Pneumonia**/K. Gipson, J. Farmer, T.B. Kinane, Boston, MA, p.A6168
- P709** **Airway Obstruction, Weight Loss, and Gastroparesis in an Undiagnosed Adolescent with HAE**/C. Cox, A.M. Szema, South Setauket, NY, p.A6169
- P710** **Neuromyelitis Optica with Recurrent Pneumonias: More than Meets the Eye**/L. Farhat, J. Dara, A. De, Bronx, NY, p.A6170

Facilitator: M. Arteta, MD, Ann Arbor, MI

- P711** **Asthma with Autoimmune Inflammatory Response (AAIR) Syndrome: A Novel Phenotype for Pediatric Asthma?**/C.Y. Spencer, J. Millman, K. Vega, L. Barinstein, K. Haines, M.B. Beasley, A.G. Vicencio, New York, NY, p.A6171
- P712** **Fatal Asthma in a Pediatric Patient with Lung Aspergillosis and Primary Immunodeficiency**/S. Pulido, Bogota, Colombia, p.A6172
- P713** **Chronic Bronchitis Secondary to Stevens-Johnson Syndrome**/J.B. Bishara, C. Halaby, M. Pirzada, Mineola, NY, p.A6173
- P714** **Remission in Pediatric Patient with Idiopathic Pulmonary Capillaritis Treated with Pulse Steroids, Rituximab and IVIG**/A.R. Strang, T.J. Vece, J. Gustave, Wilmington, DE, p.A6174

THEMATIC POSTER SESSION

C69 CONTROVERSY: ASSESSING AND TREATING THE FAILING RIGHT VENTRICLE

9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area J, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: A.R. Hemnes, MD, Nashville, TN

- P895** **Reversal of Right Ventricular Fibrosis in Pulmonary Arterial Hypertension**/N.V. Shults, Y.F. Ibrahim, V. Rybka, Y.J. Suzuki, Washington, DC, p.A6175
- P896** **Right Ventricular Outflow Tract- Velocity Time Integral and Pulmonary Artery Systolic Pressure Ratio: A Novel Non-Invasive Marker of Pulmonary Arterial Compliance in Pulmonary Arterial Hypertension Vs. Pulmonary Hypertension in Heart Failure with Preserve**/P.T. Bhattacharya, A. Fox, M.S. Tanna, G.S. Troutman, F.J. Mao, J.N. Menachem, E.Y. Birati, P. Forfia, A. Vaidya, J.A. Mazurek, Philadelphia, PA, p.A6176
- P897** **Proteins Involved in Dysfunctional RV Hypertrophy in Pulmonary Arterial Hypertension**/M. Talati, C. Jetter, N. Penner, S. Cordell, E. Brittain, A.R. Hemnes, Nashville, TN, p.A6177
- P898** **Baseline Afterload Not Resting Right Ventricular Function Determines Successful Long-Term Transition from Parenteral to Oral Treprostinil**/L. Hansen, T. Maestas, S. Knapp, H. Erickson, A. Desai, F. Rischard, Tucson, AZ, p.A6178
- P899** **Prognostic Value of Right Ventricular Function Hemodynamic Markers in Pulmonary Arterial Hypertension. Survival Analysis**/J.L. Hernandez-Oropeza, Mexico City, Mexico, p.A6179
- P900** **Relation of Three-Dimensional Echocardiography Evaluation of Right Ventricular Volumes to Right Ventricular Strain in Pediatric Pulmonary Hypertension**/P.-N. Jone, C. Bremen, M. Mulvahill, D. Ivy, Aurora, CO, p.A6180



- P901** **Changes in Right Ventricular Function Assessed by Echocardiography After Treatment in Chronic Thromboembolic Pulmonary Hypertension/B.** Lamia, A. Benguigui, L.-C. Molano, C. Viacroze, J.-F. Muir, G. Menard, P. Bonnet, J. Quieffin, A. Cuvelier, Rouen, France, p.A6181
- P902** **Right Ventricular Shape Represents a Simple 2-D Echo Parameter to Differentiate a Pulmonary Vascular from Pulmonary Venous Cause of PH/F.** Raza, C. Dillane, A. Mirza, Y. Brailovsky, S. Weaver, M. Keane, P. Forfia, Philadelphia, PA, p.A6182
- P903** **Progressive Right Ventricular Changes in a SUGEN/Hypoxic Rat Model of Pulmonary Arterial Hypertension Determined by Cardiac Magnetic Resonance Imaging/G.** Jayasekera, K.S. Wilson, H. Buist, J. Liles, G.R. Budas, S. Fairfax, C. Hughes, M. Nilsen, C. Church, L. Gallagher, J. Mullin, M. MacLean, W. Holmes, D. Welsh, A. Peacock, Glasgow, United Kingdom, p.A6183

THEMATIC POSTER SESSION

C70 CALL MY NAME: CASE REPORTS IN PULMONARY VASCULAR DISEASE

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area J, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: R.L. Damico, MD, PhD, Baltimore, MD

- P905** **Pulmonary Vascular Malformations in Pulmonary Arterial Hypertension: To Embolize or Not?/M.** Moll, R. Sternschein, D. Systrom, Boston, MA, p.A6184
- P906** **Hemoptysis: A Case Of Bronchial Dieulafoy/P.** Makkar, L. Torres Potter, M. Smina, B. Chiong, New York, NY, p.A6185
- P907** **Holt-Oram Syndrome and Pulmonary Artery Sling with Tracheal Stenosis: A Rare Combination of Two Rare Congenital Disorders/P.** Ratanawatkul, B. Pussadhamma, Khon Kaen, Thailand, p.A6186
- P908** **A Sweet Remedy for Severe Pulmonary Arterial Hypertension/I.** Singh, E. Gay, A. Waxman, Boston, MA, p.A6187
- P909** **Systemic Thrombolysis for Suspected Massive Pulmonary Embolism in a Patient with Diffuse Large B-Cell Lymphoma with Brain Metastasis and Severe Thrombocytopenia/A.** Al-Fares, C. Lee, Toronto, Canada, p.A6188
- P910** **Running Ourselves to Death: Does Long Distance Running Increase the Risk of Venous Thromboembolism?/A.** Taeb, D. Regn, J.M. Sill, Norfolk, VA, p.A6189
- P911** **Good Fences Make Good Neighbors: How an Iatrogenic Atrial Septal Defect Can Impact the Pulmonary Circulation/B.A.** Kelly, R. Awdish, S. Hegab, Detroit, MI, p.A6190
- P912** **Is that a Wire in My Lung - Pulmonary Embolism from Bone Cement/E.S.** Josan, M. McCommons, Johnson City, TN, p.A6191

- P913** **The Inception Unraveled: The Rare Within the Rare/U.** Chaddha, I. Puscas, A. Prosper, C. Costales, W. Elatre, S. Ganesh, B. Yaghamour, Los Angeles, CA, p.A6192
- P914** **A Rare Cause and Complex Presentation of Pulmonary Hypertension: Pulmonary Capillary Hemangiomatosis/A.E.** Foderaro, A. Johnghar, M. Whittenhall, C.E. Ventetuolo, D. Banerjee, J. Klinger, Providence, RI, p.A6193
- P915** **Could There Be an Autosomal Dominant Syndrome of Pulmonary Malinosculatation/A.** Fasanya, M. Veer, V. Gandhi, R. Sharara, T. Dumont, Pittsburgh, PA, p.A6194
- P916** **Worsening Dyspnea in a Patient with Connective Tissue Disease and Pulmonary Arterial Hypertension/C.M.** Worsham, J. Lel, E.S. Klings, Boston, MA, p.A6195

Facilitator: H. Poor, MD, New York, NY

- P917** **Thrombus in Transit Through Patent Foramen Ovale Leading to Concomitant Pulmonary Embolism and Left Ventricle Thrombus/P.** Soni, S. Chadha, A. Rai, V. Kumar, G. Crooke, M. Moskovits, N. Aggarwal, K. Chawla, Y. Kupfer, Brooklyn, NY, p.A6196
- P918** **Traumatic Pseudoaneurysm of the Pulmonary Artery/J.S.** Kurman, J.J. Patel, Milwaukee, WI, p.A6197
- P919** **Rivaroxaban Treatment Failure: A Case Report/M.** Elahee, A. Talat, R. Kartan, Youngstown, OH, p.A6198
- P920** **A Case of Treatment Failure with Apixaban/A.** Talat, M. Elahee, T. Nafsi, Youngstown, OH, p.A6199
- P921** **Catheter-Directed Thrombolysis in a Patient with Massive Pulmonary Embolism with Cardiac Arrest/R.** Mishra, E. Amadi, M. Adrish, Bronx, NY, p.A6200
- P922** **Late Presentation of Pulmonary Capillary Hemangiomatosis and Successful Treatment with Doxycycline/S.V.** Freeman, B.B. Graham, Aurora, CO, p.A6201
- P923** **Wellens' Warning T-Waves; An Unusual Electrocardiographic Manifestation of Pulmonary Embolism/Y.R.** Sedhai, R. Golamari, S. Basnyat, S. Kaur, P.T. Bhattacharya, Darby, PA, p.A6202
- P924** **Unilateral Pulmonary Artery Agenesis, An Unusual Cause of Unilateral Acute Respiratory Distress Syndrome (ARDS)/L.N.** Saladi, S. Roy, G. Diaz-Fuentes, Bronx, NY, p.A6203
- P925** **Newer Is Not Always Better - A Case Report/A.** Al Twal, R. Chakravarty, G. Trikha, Syracuse, NY, p.A6204
- P926** **Complete Reversal of HIV- Related Pulmonary Hypertension/A.** Alchakaki, G. Saydain, Detroit, MI, p.A6205
- P927** **Pulmonary Veno-Occlusive Disease Masquerading as Chronic Thrombo Embolic Pulmonary Hypertension/A.** Abu Sayf, S.A. Razvi, W. Al-Darzi, S. Hegab, R. Awdish, Detroit, MI, p.A6206
- P928** **A Case of Chronic Thromboembolic Pulmonary Hypertension Presented with Enlarged Systemic Collaterals in Computed Tomographic Pulmonary Angiography/S.** Subramaniam, S. Karuppasamy, S. Mariappan, Thanjavur, India, p.A6207



Facilitator: T. Thenappan, MD, Minneapolis, MN

- P929** **Use of Catheter Directed Thrombolysis to Treat Massive Pulmonary Embolism Complicated by Severe Refractory Hypercapnia/K. Gopalratnam, B. Alkinj, J.S. Kwon, Bridgeport, CT, p.A6208**
- P930** **Pulmonary Venous Varix: An Uncommon Pulmonary Vascular Abnormality as a Cause of Ischemic Stroke/S. Palasamudram Shekar, J.P. Mehta, J.B. Gleason, Weston, FL, p.A6209**
- P931** **Fibrosing Mediastinitis Induced Pulmonary Hypertension and Respiratory Failure Successfully Treated with Pulmonary Venous Stent and Rituximab Therapy/N.S. Surapaneni, Z. Zhang, H. Hayreh, Los Angeles, CA, p.A6210**
- P932** **Anticoagulation Treatment of a Post-Lobectomy Pulmonary Artery Stump Thrombus/S.R. Viola, P.J. Costantini, R.D. Pugatch, A. Sachdeva, Baltimore, MD, p.A6211**
- P933** **Successful Catheter-Directed Thrombolysis for Pulmonary Embolism During Pregnancy/A. Garbarino, N. Miller, G. Tatem, Detroit, MI, p.A6212**
- P934** **Reviving the Dying Art: A Case of Pulmonary Arterial Hypertension Diagnosed on Physical Exam/J. Angotti, A. Singh, J.F. Turner, C. Callison, E. Schriver, T. Dudley, Knoxville, TN, p.A6213**
- P935** **Pulmonary Arterial Hypertension and Acute Respiratory Distress Syndrome in a Patient with Adult-Onset Stills Disease/G. Lowther, A. Shychuk, H.A.M. Fakih, J. Cope, H. Alnuaimat, A. Ataya, Gainesville, FL, p.A6214**
- P936** **Pulmonary Artery Aneurysm in a Patient with Pulmonary Arterial Hypertension/M. Tobon-Trujillo, D.L. Rey, C. Villaquiran-Torres, Bogota, Colombia, p.A6215**
- P937** **The Use of Venovenous Extracorporeal Membrane Oxygenation in an Adult with Severe Acute Chest Syndrome/N. Leiter, J. Menaker, N.G. Shah, Baltimore, MD, p.A6216**
- P938** **Protein Z Deficiency: An Uncommon Cause of Diffuse Thrombotic Disease/I. Akkad, M. Amith Shenoy, P. Chandar, W. Pascal, K. Chawla, M. Bergman, Brooklyn, NY, p.A6217**
- P939** **Hiding in Plain Sight/R. Gorthi, C. Aguilar Lopez, Worcester, MA, p.A6218**
- P940** **An IVC Filter Gone Wrong/B. Jalil, Y. Kothari, B. Al-Adili, K. El-Kersh, Louisville, KY, p.A6219**

THEMATIC POSTER SESSION

C71 CRYSTAL BALL: CLINICAL FEATURES OF PULMONARY VASCULAR DISEASE II

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area J, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: H.J. Bogaard, MD, PhD, Amsterdam, Netherlands

- P942** **Compliance of an Extremely Dilated Main Pulmonary Artery in Pulmonary Arterial Hypertension/J.A. Groeneveldt, J.W.T. Van Der Wel, J.T. Marcus, F.S. De Man, A. Vonk-Noordegraaf, B.E. Westerhof, N. Westerhof, Amsterdam, Netherlands, p.A6220**
- P943** **Circulating Micro-RNA in Pulmonary Arterial Hypertension in Patients Who Receive Add-On Therapy with Exercise Training, or Nightly Oxygen or Acetazolamide/G. Grunig, C.A. Eichstaedt, S. Saxer, K.E. Bloch, S. Ulrich, E. Gruenig, S. Pylawka, New York, NY, p.A6221**
- P944** **Antiphospholipid Antibody: Implications in Patients Referred for Evaluation of Pulmonary Hypertension/A. Adial, K. Singh, S. Verma, S.M. Rizvi, P. Gill, N. Kohn, A. Talwar, New Hyde Park, NY, p.A6222**
- P945** **Prevalence of HIV-Associated Pulmonary Hypertension as Assessed by Transthoracic ECHO/N. Singh, S. Shah, J. Green, Brooklyn, NY, p.A6223**
- P946** **Prevalence, Phenotypic Characteristics and Prognostic Impact of Hypoxemia in Patients with Idiopathic or Heritable Pulmonary Arterial Hypertension/G. Khirfan, T. Naal, J. Newman, G.A. Heresi, R.A. Dweik, A.R. Tonelli, Cleveland, OH, p.A6224**
- P947** **Treatment of Exercise Pulmonary Arterial Hypertension in a Mixed Population of Patients Improves Cardiopulmonary Hemodynamics/M.G. Risbano, W.D. Wallace, Pittsburgh, PA, p.A6225**
- P948** **Biomarker-Specific Differences Between Transpulmonary and Peripheral Arterial-Venous Blood Sampling/D.F. Meoli, E.L. Brittain, Y.R. Su, A.R. Hemnes, K. Monahan, Nashville, TN, p.A6226**

Facilitator: A.J. Peacock, MD, Glasgow, United Kingdom

- P949** **A Survey of Treatment and Listing Patterns of Patients with Pulmonary Hypertension for Liver Transplantation/P. Rajaram, A. Trammell, R. Subramanian, M.R. Fisher, Atlanta, GA, p.A6227**
- P950** **Screening for Pulmonary Hypertension in Liver Transplant Candidates: A Survey of Practice Patterns in the United States/P. Rajaram, A. Trammell, R. Subramanian, M.R. Fisher, Atlanta, GA, p.A6228**
- P951** **Pulmonary Vascular Malformations in Adults with HbSS and Intrapulmonary Shunting: A Novel Finding/R. Abdul Rahman, B. Hambley, R. Schilz, J. Little, R. Gilkeson, M. Ginwalla, Cleveland, OH, p.A6229**
- P952** **Central and Peripheral Limitations to Exercise Intolerance in Pulmonary Hypertension/S. Sithamparanathan, G. Gorman, M. Trenell, D. Jakovljevic, P.A. Corris, Newcastle upon Tyne, United Kingdom, p.A6230**
- P953** **Autoimmune Thyroid Disease After Initiation of Epoprostenol for Treatment of Pulmonary Arterial Hypertension (PAH): A Case Series/A. Ajakumar Menon, S.L. Lee, L.E. Braverman, H.W. Farber, Boston, MA, p.A6231**
- P954** **Co-Relation of Different Parameters of Pulmonary Hypertension/A. Iftikhar, M. Cheema, Z. Muzaffar, F. Chaudhry, A. Smith, Roslyn, NY, p.A6232**



- P955** **Characteristics and Outcomes of Pulmonary Hypertension Patients in a Tertiary Referral Center/N. Maniar, C. Clarke, E. McDaniel, J.S. Smith, K. El-Kersh, Louisville, KY, p.A6233**

Facilitator: R.J. Oudiz, MD, Torrance, CA

- P956** **Congenital Heart Disease Associated Pulmonary Arterial Hypertension and Eisenmengers Syndrome -An Alternative Therapeutic Approach/S.A. Suliman, E. McDaniel, K. El-Kersh, J.S. Smith, Louisville, KY, p.A6234**
- P957** **Risk Factors of Exercise Induced Venous-to-Systemic Shunt in Pulmonary Hypertension/J. Rong, L. Wang, Q.-H. Zhao, S.-G. Gong, J. Guo, Shanghai, China, p.A6235**
- P958** **Clinical Analysis of Behcet Disease Associated with Pulmonary Vascular Disease/L. Wang, J.-M. Liu, J. Rong, Q. Zhao, S. Gong, W.-H. Wu, Shanghai, China, p.A6236**
- P959** **Scleroderma Pulmonary Hypertension: High Prevalence of Imaging and Pulmonary Function Abnormalities/N. Ramesh, L.L. Seijo, G. Sharma, R. Sidhu, D. Steiger, R. Sulica, New York, NY, p.A6237**
- P960** **Pulmonary Hypertension Is an Independent Risk Factor for Post-TAVR Atrioventricular Block/R. Parikh, H.N. Khatoon, B. Varghese, C.J. Kavinsky, K. Krishnan, R. Tandon, Chicago, IL, p.A6238**
- P961** **Discordance Between Pulmonary Capillary Wedge Pressure and Left Ventricular End-Diastolic Pressure in a Cohort of Patients with Pulmonary Hypertension/A. Jose, C. King, O. Shlobin, A. Brown, N. Weir, J. Kiernan, N. Cossa, S.D. Nathan, Washington, DC, p.A6239**

Facilitator: R.P. Frantz, MD, Rochester, MN

- P962** **Baseline Characteristics in Pulmonary Hypertension Groups I and IV at Fundacion Valle del Lili, a Reference Hospital in Latin America/L. Fernandez, L. Gutierrez, D.C. Carrillo, W. Martinez, F. Sanabria, J.E. Gomez, Cali, Colombia, p.A6240**
- P963** **National Trends in Diagnostic Methods for Pulmonary Hypertension, 2002-2015/D. Kim, K. Lee, E.S. Klings, D. Miller, R.S. Wiener, Boston, MA, p.A6241**
- P964** **Patterns and Predictors of Guideline-Discordant Prescribing of Phosphodiesterase Type 5 Inhibitors for Pulmonary Hypertension in the VA/D. Kim, M. Freiman, D. Miller, E.S. Klings, A. Rose, W.R. Powell, R.S. Wiener, Boston, MA, p.A6242**
- P965** **Real World Status and Management of Pulmonary Hypertension in Southwest of China/Y. Xiang, Chongqing, China, p.A6243**
- P966** **Social Deprivation, Equity of Access, and Prognosis in Scottish Patients with PAH/K. Pellino, C. Church, T. Crowe, G. Jayasekera, A. Peacock, M. Johnson, A. Mackenzie, Madison, WI, p.A6244**
- P967** **Appropriate Screening for Pulmonary Arterial Hypertension in Systemic Sclerosis Patients/C. Lee, J. Elwing, Cincinnati, OH, p.A6245**

THEMATIC POSTER SESSION

C72 PHYSICAL ACTIVITY AND EXERCISE CAPACITY

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area G, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: T.W. Effing, PhD, Adelaide, Australia

- P825** **Is Achieving the Minimally Important Increase in the Six Minute Walk Test Essential for a Training Effect?/N. Morris, L. Adams, J. Paratz, Z. McKeough, J. Walsh, Chermide, Australia, p.A6246**
- P826** **The Minimum Important Difference of the Incremental Shuttle Walk Test Distance in Patients with COPD/R.A. Evans, T.C. Dunstan-Harvey, S.J. Singh, Leicester, United Kingdom, p.A6247**
- P827** **Comparison Between SenseWear and FitBit Physical Activity Monitors in Chronic Obstructive Pulmonary Disease/D. Fuhr, W. Michaelchuk, M. Stickland, Edmonton, Canada, p.A6248**
- P828** **Barriers to Physical Activity in Chronic Obstructive Pulmonary Disease Patients/M.M. Reboredo, G.D. Yecker, D.R. Brega, J.S. Pires, L.A. Oliveira, G. Coquito, L.M.F. Lucinda, B.V. Pinheiro, Juiz de Fora, Brazil, p.A6249**
- P829** **Understanding Barriers and Facilitators to Pulmonary Rehabilitation Referral, Uptake and Participation Using the Theoretical Domains Framework: A Systematic Review/N.S. Cox, C. Oliveria, A. Lahham, A.E. Holland, Melbourne, Australia, p.A6250**

Facilitator: F. Franssen, MD, PhD, Horn, Netherlands

- P830** **Contribution of FEV₁ to Exercise Performance in Health and Disease/G.L. Jones, V. Patel, N.L. Jones, K. Killian, Hamilton, Canada, p.A6251**
- P831** **Young Smokers Have Reduced Exercise Capacity?/R. Luzorio, T. Katsivalis, A. Goes, S. Alves, F. Brizola, E. Guimaraes, J. Pereira, J.L. Magalhaes Junior, Y. De Souza, Cabo Frio, Brazil, p.A6252**
- P832** **Assessment of Daily Physical Activity in Lung and Heart Transplant Recipients in the First Year Post-Transplant/C.W. Frankel, S.M. Palmer, L.D. Snyder, P.J. Smith, Durham, NC, p.A6253**
- P833** **The Influence of Improved Physical Activity on Early Post-Operative Outcomes in Lung Transplantation/J.E. Park, E.H. Lee, L. Jung Mo, J.Y. Jung, P. Moo Suk, S.H. Lee, C.M. Ahn, S. Kim, D.H. Lee, S.C. Lee, J.C. Shin, H.C. Paik, E.K. Kim, J.H. Song, Seoul, Korea, Republic of, p.A6254**
- P834** **Performance of Wearable Activity Monitors in Laboratory and Field Based Exercise Tests in Subjects with COPD or Asthma/J.L. Kreindler, J. Yonchuk, M. Heasley, D. Fernando, S. Kumar, J. McKinnell, G. Bentley, P. Kitchiner, N. Locantore, R. Tal-Singer, King of Prussia, PA, p.A6255**



P835 Comparison of the Results of 6-Minutes Step Test in Healthy Individuals Using Pedometers in Mobile Application/P. Marins, M. Macedo, T. Antonyelle, J. Scheibner, V. Borduam, R. Vicente, J.L. Magalhaes Junior, C. Giovana, Y. De Souza, Cabo Frio, Brazil, p.A6256

Facilitator: H.B. Rossiter, PhD, Torrance, CA

P836 The Utility of a Diagnostic Algorithm in Cardiopulmonary Exercise Testing Interpretation in Patients with Exercise Intolerance/M. Ghamloush, A. LeVee, N.S. Hill, Boston, MA, p.A6257

P837 Muscle Percentage of Destroyed Lung Patients with Pulmonary Hypertension and Its Relation to Exercise Capacity/D. Septiyanti, W. Aniwidyaningsih, B. Antarkisa, B.B. Siswanto, I.H. Siahaan, Jakarta, Indonesia, p.A6258

P838 Baseline Submaximal Exercise Tolerance as an Outcome Measure in a Cystic Fibrosis Exercise Study/L.C. Bishay, A. Gould, O. Prushingskaya, K. Hill, J. Greenberg, J. Ng, G.S. Sawicki, A. Uluer, Boston, MA, p.A6259

P839 Comparison of Peak Exercise Performance When Utilizing Different Approaches of Calculating Ventilatory Reserve in Patients with Stable COPD/T.C. Harvey-Dunstan, S.J. Deacon, R.A. Evans, M.C. Steiner, S.J. Singh, M.D. Morgan, Leicester, United Kingdom, p.A6260

P840 Assessment of Clinical Factors Predictive of Improved Exercise Capacity After Pulmonary Rehabilitation/H. Carmona, A.B. Mehta, R. Strykowski, R. Gerber, M. Cage, A.J. Walkey, E.S. Klings, Boston, MA, p.A6261

THEMATIC POSTER SESSION

C73 NEW MECHANISMS AND THERAPIES IN COPD

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area L, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: V.B. Antony, MD, Birmingham, AL

P1176 Involvement of Extracellular ATP in Mucus Production During Rhinovirus Infection/H. Aizawa, A. Koarai, Y. Shishikura, M. Yamaya, H. Sugiura, M. Watanabe, Y. Hashimoto, T. Numakura, T. Makiguchi, K. Abe, M. Yamada, T. Kikuchi, Y. Hoshikawa, Y. Okada, M. Ichinose, Sendai, Japan, A6262

P1177 Decreased Level of Irisin, a Skeletal Muscle Cell-Derived Myokine, Is Involved in Emphysema Associated with Chronic Obstructive Pulmonary Disease Through Epithelial Apoptosis/Y. Sugiyama, K. Asai, K. Kojima, A. Sugitani, H. Kubo, Y. Kyomoto, S. Yoshida, K. Yamada, N. Yoshii, T. Watanabe, M. Uji, Y. Tochino, H. Kanazawa, K. Hirata, Osaka, Japan, A6263

P1178 Histone Deacetylase 2 Suppresses IL17A-Mediated Airway Remodeling in COPD/T. Lai, B. Tian, C. Cao, Y. Hu, F. Xu, W. Li, S. Ying, Z. Chen, H. Shen, Hangzhou, China, A6264

P1179 Role of Acrolein in Cigarette Smoke-Induced Mucociliary Clearance Defects/V. Lin, V.S. Raju, L. Tang, Y. Li, L. Wilson, T. Berryhill, M. Mazur, P.L. Jackson, S. Barnes, J.E. Blalock, S. Rowe, Birmingham, AL, A6265

P1180 Ribosomal Protein S3 Gene Silencing Protects Against Cigarette Smoke-Induced Acute Lung Injury/J. Dong, W. Liao, H.Y. Peh, W.S.D. Tan, W.S.F. Wong, Singapore, Singapore, A6266

P1181 sRAGE as Biomarker for COPD, Introducing Novel LC-MS-Based Methods for the Quantification of Serum sRAGE Levels/S.D. Pouwels, F. Klont, N. Van De Merbel, P. Horvatovich, N.H.T. Ten Hacken, R. Bischoff, Groningen, Netherlands, A6267

P1182 Function of LYPD2 (LY6/PLA UR Domain Category 2) in Maintaining Normal Airway Differentiation/J. Salit, M.S. Walters, H. Zhang, Y. Tang, R.G. Crystal, New York, NY, A6268

P1183 Prevalence of Pneumocystis Jirovecii Colonization in Patients with Chronic Obstructive Pulmonary Disease (COPD) in Bogota, Colombia/A. Canas, J.F. Burbano, C. Hernandez, J.E. Cita, J.R. Garzon, Bogota, Colombia, A6269

P1184 Smad3 and P38 Pathways Mediate Cigarette Smoke-Induced Decreases in CFTR and BK Channel Activities Leading to Mucociliary Dysfunction/J. Sailland-Tschudi, A. Grosche, N. Baumlín-Schmid, J.S. Dennis, A. Schmid, S. Krick, M. Salathe, Miami, FL, A6270

P1185 In Vitro Aerodynamic Analysis of Co-Spray Dried Fluticasone Propionate (FP) and Salmeterol Xinafoate (SX) Dry Powder Inhalation Aerosols with Lactose-Alternative Excipient/M. Malapit, E.K. Mallory, P. Muralidharan, H. Phan, D. Hayes, Jr., H.M. Mansour, Tucson, AZ, A6271

P1186 Activating Transcription Factor 3 Represses Cigarette Smoke-Induced IL6 and IL8 Expression Via Suppressing Nuclear Factor- κ B (NF- κ B) Activation/Y. Wu, C. Cao, Z. Chen, S. Ying, H. Shen, W. Li, Hangzhou, China, A6272

Facilitator: B. Crestani, MD, PhD, Paris, France

P1187 Protective Role of a Disintegrin and Metalloprotease 17 (ADAM17) in Elastase-Induced Emphysema in Mice/S. Suzuki, M. Ishii, T. Asakura, H. Namkoong, S. Okamori, K. Yagi, H. Kamata, S. Kagawa, K. Horiuchi, N. Hasegawa, T. Betsuyaku, Tokyo, Japan, A6273

P1188 Interaction Between Tiotropium Bromide and Olodaterol in Human Bronchial Smooth Muscle/M. Calzetta, P. Rogliani, F. Facciolo, M.G. Matera, M. Cazzola, Rome, Italy, A6274

P1189 Interaction Between Tiotropium Bromide and Olodaterol in Small Human Airways/L. Calzetta, P. Rogliani, F. Facciolo, M.G. Matera, M. Cazzola, Rome, Italy, A6275

P1190 Tiotropium and Olodaterol Attenuate Smoke-Induced Alveolar Cell Inflammation in Mice/Y. Hamakawa, A. Sato, K. Uemasu, K. Hasegawa, S. Sato, M.P. Pieper, S. Muro, Kyoto, Japan, A6276



- P1191 Adenine Nucleotide Translocase and Actin Interacting Protein-1 as New Targets in the Protection of Airway Epithelial Cells Against Smoking-Related Disease and COPD/C.R.** Kliment, J. Nguyen, T.A. Wyatt, K.L. Bailey, S.M. Claypool, S.D. Shapiro, V.K. Sidhaye, D.N. Robinson, Baltimore, MD, A6277
- P1192 Role of Allosteric GPCR Modulation in Cross Talk Between I²-Adrenergic and Muscarinic Receptors in Airway Smooth Muscle/H.** Kume, O. Nishiyama, T. Isoya, Y. Higashimoto, Y. Tohda, Osakasayama, Japan, A6278
- P1193 Ergothioneine Induces Antioxidant Enzymes in Human Lung Epithelial Cells In Vitro/M.A.** Selo, S. Nickel, C.G. Clerkin, C. Ehrhardt, Dublin, Ireland, A6279
- P1194 Role of Apoptosis Inhibitor of Macrophage (AIM) in Chronic Obstructive Pulmonary Disease (COPD)/H.** Ge, M. Suzuki, H. Kimura, S. Konno, M. Nishimura, Shanghai, China, A6280
- P1195 Vitamin D Abrogates Cigarette Smoke-Induced IL-8 Secretion of the Bronchial Epithelium/C.** Mathysen, J. Serre, S. Everaerts, K. Maes, B. Vanaudenaerde, G. Gayan-Ramirez, W. Janssens, Leuven, Belgium, A6281
- P1196 Restoration of HDAC2 by Vam3 Improves Corticosteroid Sensitivity/C.** Tan, L. Xuan, C. Yao, B. Xu, H. Wang, Q. Hou, Beijing, China, A6282
- P1197 Simple Prediction of MMP-9/TIMP-1 Ratio Derived from One of Biomarkers (The Study Is Limited to the Examination of MMP-9 and TIMP-1 from the Saliva Among Ex-Smokers with Chronic Obstructive Pulmonary Disease)/M.** Mulyadi, M. Azhary, S. Sunnati, Banda Aceh, Indonesia, A6283

Facilitator: K.L. Gates, MD, Chicago, IL

- P1198 Effect of Interleukin 13 on Human Tracheal Epithelial Cells/O.H.** Wittekindt, H. Schmidt, K. Mellert, V.E. Winkelmann, K. Thompson, M. Frick, P. Dietl, Ulm, Germany, A6284
- P1199 A Comprehensive Evaluation of Primary Alveolar Type II Epithelial Cell Models Amenable to Drug Discovery/C.M.T.** Bauer, S. Daya, C. Mwase, S. Kobari, K. Feldman, M. Dowling, Cambridge, MA, A6285
- P1200 Inflammatory Response by Different e-Cigarette Flavoring Chemicals Identified by GC-MS in e-Liquids on Human Lung Epithelial Cells and Fibroblasts/I.K.** Sundar, J. Gerloff, R. Freter, E.R. Sekera, A.E. Friedman, T. Pagano, R. Robinson, I. Rahman, Rochester, NY, A6286
- P1201 NLRP 3 Inflammasome Activity Is Up Regulated in COPD and COPD Exacerbations/A.** Bar-Shai, S. Langier, M. Siterman, M. Stark, S. Etkin, Y. Schwarz, N. Nachmias, Ashkelon, Israel, A6287
- P1202 Up-Regulation of the Cholinergic System in a Model of Ex-Vivo Virus-Induced COPD Exacerbation - Role of Tiotropium Bromide/M.** Contoli, A. Marcellini, G. Caramori, A. Papi, Ferrara, Italy, A6288
- P1203 Establishment and Characterization of a Novel 3D Human In Vitro Small Airway Model/S.** Constant, S. Huang, B. Boda, J. Vernaz, P. Alouani, L. Wiszniewski, Plan-les-Ouates, Switzerland, A6289

- P1204 The Role of Human Antigen R (HuR) in Chronic Obstructive Pulmonary Disease (COPD)/N.** Aloufi, P. Nair, K. Radford, D.H. Eidelman, C.J. Baglione, Montreal, Canada, A6290
- P1205 Molecular Mechanism of Carcinoembryonic Antigen-Related Cell Adhesion Molecule 1 Isoforms-Regulated Inflammation Response in Acute Exacerbation of Chronic Obstructive Pulmonary Disease/Y.** Zhu, X. Wang, Shanghai, China, A6291
- P1206 Adminstrating Glucocorticoids May Increase the Risk of Pulmonary Infection by Increasing the Expression of SDC1/D.** Liu, J. Zhang, H.-X. Liu, J.-M. Qu, Shanghai, China, A6292
- P1207 The Chemokine Receptor CXCR2 Regulates Formation of Neutrophil Extracellular Traps in COPD Patients/F.** Pedersen, B. Waschki, S. Marwitz, T. Goldmann, A. Kirsten, K.F. Rabe, A. Malmgren, K. Richter, M. Uddin, H. Watz, Grosshansdorf, Germany, A6293
- P1208 Increased Platelet-Monocyte Interaction in Stable COPD in Absence of Platelet Hyper-Reactivity/F.** Aleva, G. Temba, Q. De Mast, S. Simons, P. De Groot, Y. Heijdra, A. Van Der Ven, Nijmegen, Netherlands, A6294

Facilitator: J.L. Simpson, PhD, Newcastle, Australia

- P1209 The Release of PAD2 and PAD4 from Neutrophils by Primary Granule Degranulation: A Link Between Alpha-1 Antitrypsin Deficiency and the Anti-CCP Autoimmune Response/D.J.L.** Hunt, D.A. Cardiff, E. Reeves, N.G. McElvaney, Dublin, Ireland, A6295
- P1210 Using Repopulated Epithelium on Bronchial Scaffolds to Study Epithelial Cell-Extracellular Matrix (ECM) Interactions in Chronic Obstructive Pulmonary Disease (COPD)/U.** Hedstrom, O. Hallgren, O. Vaarala, G. Westergren-Thorsson, X.-H. Zhou, Lund, Sweden, A6296
- P1211 Cigarette Smoke Medium Induces Apoptosis Via the Translocator Protein (TSPO) in Airway Epithelial Cells/Y.** Cui, K.W.K. Liu, M.S.M. Ip, J.C.W. Mak, Hong Kong, Hong Kong Prc, A6297
- P1212 Critical Role of the Class A Scavenger Receptor on Alveolar Macrophages in Chronic Obstructive Pulmonary Disease/L.** Xie, M. Zhou, Shanghai, China, A6298
- P1213 Ascorbic Acid Protects Human Lung Epithelial Cells In Vitro from Tobacco Smoke-Induced Oxidative Damage/A.** Yildiz Pekoz, O. Akbal, S. Sancar, M.A. Selo, C.G. Clerkin, S. Nickel, C. Ehrhardt, Istanbul, Turkey, A6299
- P1214 Toll-Like Receptor 9, a Key to Attenuate Disease Progression in a Murine Model of COPD/T.** Sato, K. Nakashima, Y. Shibata, H. Sasaki, M. Ikeda, A. Nagashima, H. Watanabe, K. Nagai, H. Nagakura, N. Horita, N. Kobayashi, M. Yamamoto, M. Kudo, M. Shinkai, T. Kaneko, Yokohama, Japan, A6300
- P1215 TGF-Beta Suppresses CFTR Biogenesis and Function by Post-Transcriptional Gene Silencing/R.** Dutta, S. Chinnapaiyan, V.S. Raju, H.J. Unwalla, Miami, FL, A6301
- P1216 Eosinophilic COPD Exacerbation: New Phenotype and Different Approach to Treatment/R.** Parikh, J. Miely, J. Torres, T.G. Shah, R. Tandon, Chicago, IL, A6302



P1217 AAT I²-Sheet A Blocking Peptides Prevent PiZ-AAT Polymerization In Vitro/Y. Lu, L.R. Wang, C. Swaisgood, G. Marek, M.L. Brantly, Gainesville, FL, A6303

P1218 Network Analysis of DNA Methylation in COPD Identifies Modules Associated with Apoptosis and Chemokine Function/J. Liu, J.L. Gomez, New Haven, CT, A7675

THEMATIC POSTER SESSION

C74 ADVANCES IN TRANSLATIONAL COPD

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area L, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: B. Crestani, MD, PhD, Paris, France

P1219 Pharmacological Studies with Revefenacin (TD-4208) in Rat Isolated Trachea and Human Isolated Bronchus: Animal to Human Translation of Potent and Long Acting Muscarinic Receptor Antagonistic Properties in Airway Tissues/M.T. Pulido-Rios, M. Luttmann, S.S. Hegde, South San Francisco, CA, A6304

P1220 Effects of Acumapimod (BCT197), an Oral p38 Inhibitor, on Tobacco Smoke and Lipopolysaccharide-Induced Lung Inflammation in a Corticosteroid-Resistant Rat Model/J.M. Parkin, E.L. Hardaker, London, United Kingdom, A6305

P1221 Progenitor-Derived Pulmonary Macrophage Transplantation as a New Therapeutic Intervention for Chronic Obstructive Pulmonary Disease/J. Routhier, M. Hamel-Augier, M. Boucher, D.R. Gendron, M.-J. Beaulieu, M.-E. Pare, S. Aubin, D. Marsolais, M.C. Morissette, Quebec, Canada, A6306

P1222 Role of Cytokines in the Lung and Systemic Inflammation in Patients with COPD/A. Morello Gearhart, R. Fernandez-Botran, P. Peyrani, T. Wiemken, A. Reyes, U. Gauhar, H. Rivas-Perez, J. Roman, J.A. Ramirez, R. Cavallazzi, Louisville, KY, A6307

P1223 Effect of a Retinoid X Receptor Partial Agonist on the Development of Emphysema and Airway Inflammation in a Murine Model of Emphysema/D. Morichika, A. Kanehiro, H. Kakuta, A. Taniguchi, U. Fujii, N. Oda, N. Miyahara, K. Kiura, M. Tanimoto, Okayama, Japan, A6308

P1224 Development of NEATstik - a Novel Lateral Flow Device for the Detection of Active Neutrophil Elastase in Patients with Respiratory Disease/K.L. Moffitt, W. Tong, T. Ferguson, D. McCafferty, C. Robb, S.L. Martin, B. Walker, Belfast, United Kingdom, A6309

P1225 Effects of Dexamethasone and Azithromycin Treatment in Cigarette Smoke-Exposed and Additionally NTHi or Influenza Virus/NTHi-Infected Mice/H. Bucher, B. Jung, M.P. Pieper, K.J. Erb, Biberach, Germany, A6310

P1226 Specific Immune Response Against Pseudomonas Aeruginosa in Severe COPD/L. Millares, S. Marti, C. Ardanuy, J. Linares, S. Santos, J. Dorca, M. Garcia, E. Monso, Sabadell, Spain, A6311

P1227 Renal and Pulmonary Endothelial Dysfunction in COPD Is Ameliorated by Enalapril Therapy/F. Polverino, M. Lauch-Conreras, H. Petersen, V. Bijol, L. Sholl, M. Divo, V. Pinto-Plata, M. Choi, Y. Tesfaigzi, B.R. Celli, C.A. Owen, Boston, MA, A6312

P1228 Genome Maintenance Gene Regulation in Normal Bronchial Epithelial Cells by CEBP and TP53 Transcription Factor Families is Different in COPD Subjects/J. Willey, J. Yeo, T. Chen, E.L. Crawford, X. Zhang, S. Khuder, A. Levin, Toledo, OH, A6313

P1229 Association Between Thr241Met Variant of XRCC3 Homologous Recombination Repair Gene and Smokers or Heavy Smoker Schizophrenia Patients in Turkish Population/M.A. Uysal, P. Cetinay Aydin, M. Pehlivan, S. Kurnaz, H. Yavuzlar, U. Sever, F.K. Yavuz, S. Uysal, N. Aydin, S. Pehlivan, Istanbul, Turkey, A6314

P1230 The Biological Effects of Double Dose Augmentation Therapy for Subjects with Alpha-1 Antitrypsin Deficiency/M. Campos, P. Geraghty, G. Holt, E. Donna, E. Mendes, L.A. Escobar, S. Ma, P.R. Newby, G. Turino, R.A. Stockley, Miami, FL, A6315

P1231 Relationships Between Ease of Use, Preference and Inhaler Usage Errors in COPD and Asthma/J. van der Palen, H. Svedsater, M. Thomas, H. Chrystyn, R. Sharma, C.-Q. Zhu, N. Barnes, Enschede, Netherlands, A6316

P1232 A Novel Proteogenomics Approach Identifying Key Proteins in Severe COPD/C.A. Brandsma, V. Guryev, W. Timens, D.S. Postma, R. Bischoff, M. Yakovleva, G. Marko-Varga, T. Fehniger, M. van den Berge, P. Horvatovich, Groningen, Netherlands, A6317

Facilitator: C.M. Shaver, MD, PhD, Nashville, TN

P1233 Anatomic Gradients, Cell Specificity and Smoking Modulation of Human Airway Epithelium Expression of ADH7, the Rate Limiting Enzyme for Generation of Retinoic Acid/S. Owusu, G. Wang, J. Salit, R.G. Crystal, New York, NY, A6318

P1234 Serum IL-33 in Stable COPD with Sputum Eosinophilia/D. Tworek, S. Majewski, K. Szewczyk, Z. Kurmanowska, A. Antczak, P. Kuna, Lodz, Poland, A6319

P1235 Systemic Immune Response and Clinical Manifestations of Acquisition of Nontypeable Haemophilus Influenzae in Chronic Obstructive Pulmonary Disease/A. Tariq, C. Wrona, S. Sethi, Buffalo, NY, A6320

P1236 Comparison of Aerosolization of rhCC10 Protein with Two Types of Vibrating Mesh Nebulizer/B. Kalampanayil, J. Fink, C. Telfer, T. Miller, A.L. Pilon, Rockville, MD, A6321

P1237 Hydrogen Sulfide Attenuates Smoking Induced Pulmonary Vascular Remodeling by the Inhibition of Oxidative Stress/Y. Chen, M. Li, C. Liao, F. Lin, Y. Bai, W. Mi, Y. Sun, Y. Qi, Beijing, China, A6322

P1238 Can Urinary Peptides Discriminate Between COPD Patients with and Without Inherited Alpha1-Antitrypsin Deficiency?/J. Chorostowska-Wynimko, A. Carleo, T. Koeck, H. Mischak, M. Czajkowska-Malinowska, A. Rozy, T. Welte, S. Janciauskiene, Warsaw, Poland, A6323



- P1239** **Effect of Patient Interface on Potential Lung Delivery of Inhaled Medication from a Valved Holding Chamber (VHC) to an Adult Anatomic Oropharyngeal Model**/M.W. Nagel, J. Suggett, R. Ali, V. Avvakoumova, London, Canada, A6324
- P1240** **Tracheal Ultrasound in Chronic Bronchitis**/R. Vazquez Guillamet, K. Rudolph, Y. Tesfaigzi, P.M. Meek, H. Petersen, C. Vazquez Guillamet, J. Abukhalaf, A. Sood, M. Sopori, Albuquerque, NM, A6325
- P1241** **Alpha 1 Antitrypsin (A1AT) Increases Macrophages Efferocytosis Via Mannose Binding Lectin (MBL) - Mannose Receptor (MAR) Signaling**/A.M. Mikosz, R. Sandhaus, L.A. Maier, N.Y. Hamzeh, I. Petrache, K. Serban, Denver, CO, A6326
- P1242** **Effects of Chronic Smoking Exposure on the Lung and Cecal Microbiomes in Mice**/F.S. Leitao Filho, S.W. Ra, A. Tam, J. Yang, D.A. Ngan, J. Wright, A. Churg, M. Sze, J. Leung, S.P. Man, D.D. Sin, Vancouver, Canada, A6327
- P1243** **Recombinant ApoA-I Milano/Phospholipid Complex (MDCO-216) Therapy for Smoking-Related Lung Diseases: A Preclinical Study**/E. Jubinville, M. Talbot, M. Hamel-Augier, M. Maranda-Robitaille, J.-C. Berube, M.-J. Beaulieu, M.-E. Pare, S. Aubin, D. Kallend, Y. Bosse, B. Arsenault, M.C. Morissette, Quebec, Canada, A6328
- P1244** **Effects of a PPARI3 and LXR Agonists Combination Therapy on the Pulmonary Response to Cigarette Smoke**/E. Jubinville, M. Maranda-Robitaille, M. Talbot, C. Thibault, M. Page, M.-J. Beaulieu, S. Pilote, S. Aubin, M.-E. Pare, B. Drolet, C. Simard, M.C. Morissette, Quebec, Canada, A6329
- P1245** **CHF-6297, a Novel Selective p38 α (MAPK14) Inhibitor Designed for Inhalation Delivery, Effectively Counteracts IL-1 β -Evoked Acute Lung Inflammation**/F. Facchinetti, A. Martucci, N. Moretto, G. Aquino, P. Puccini, A. Murgo, C. Capaldi, E. Armani, M. Fitzgerald, H. Finch, C. Fox, R. Patacchini, G. Villetti, M. Civelli, Parma, Italy, A6330
- P1246** **Investigating the Role of Alpha-1 Antitrypsin in the Regulation of Complement Activation**/L. Fee, M.E. O'Brien, T.P. Carroll, M. Molloy, C. O'Connor, E. Reeves, N.G. McElvaney, Dublin, Ireland, A6331
- Facilitator:** R.L. Zemans, MD, Denver, CO
- P1247** **Iron Loading Is Increased in Lung Tissue of COPD Patients**/S. Venkatesan, X. Zhou, S.M. Cloonan, H.K. Olsson, Molndal, Sweden, A6332
- P1248** **BAL Biomarkers Associated with the Progression of Emphysema in HIV-Infected Individuals**/D. Khabbaza, S. Crouser, J. Drake, M. King, A. Ferketich, M. Gavrilin, M.D. Wewers, P. Diaz, Columbus, OH, A6333
- P1249** **Role of Sphingomyelin Synthase Regulated Micro Domain Signaling in Cigarette Smoke Induced Inflammation**/R. Wadgaonkar, P. Geraghty, I. Kabir, R. Foronjy, Brooklyn, NY, A6334
- P1250** **Strategies to Identify Common Low Effect COPD Risk Variants**/D. Morales, R. Zolondek, D. Craig, S. Qiu, A. Baugh, A. Levin, A. Fedorov, S. Khuder, B. Mopidevi, J. Willey, Toledo, OH, A6335
- P1251** **Cytometry Time-of-Flight (CyTOF) Evaluation of Peripheral Blood Mononuclear Cells**/C. Zhang, M. DeWane, A. Nassar, R.R. Montgomery, P.J. Lee, M. Sauler, Norwalk, CT, A6336
- P1252** **Augmentation Therapy Increases Hydrogen Peroxide Accumulation in Peripheral Blood Mononuclear Cells of ZZ Alpha-1 Antitrypsin Deficiency Patients**/F.J. Dasi, S. Pastor, A. Reula, S. Castillo, A. Escribano, Valencia, Spain, A6337
- P1253** **Alpha1-Antitrypsin Reduces Endoplasmic Reticulum Stress and Release of Inflammatory Cytokines in Cystic Fibrosis Primary Bronchial Epithelial Cells In Vitro**/I. Nita, A. Gazdhar, C. Vonarburg, R. Spirig, S. Miescher, T. Geiser, Bern, Switzerland, A6338
- P1254** **TRPV1 Antagonism with XEN-D0501 in Chronic Obstructive Pulmonary Disease: Translation from Pre-Clinical Model to Clinical Trial**/J.A. Smith, M.A. Birrell, M.A. Wortley, S.A. Maher, R. Dockry, P. Turner, P. Round, J. Ford, M.G. Belvisi, Manchester, United Kingdom, A6339
- P1255** **Dissociation Between Airway and Circulating Autoantibodies Levels in Stable COPD Patients**/Z. Liang, F. Long, K. Deng, W. Jian, L. Zhou, J. Zheng, S. Huang, D. Cui, Y. Gao, M. Jiang, M.R. Stampfli, T. Peng, Q. Luo, R. Chen, Guangzhou, China, A6340
- P1256** **Decreased Degranulating Cells and Mast Cell Population in the Small Airway Wall of Mild-Moderate COPD Is Indicative of Dysfunctional Immunity**/M.S. Eapen, E. Tan, C. Ward, E.H. Walters, S.S. Sohal, Hobart, Australia, A6341
- P1257** **Alpha-1 Antitrypsin Augmentation Therapy Modulates Neutrophil Lipid Raft Structure and Cell Adhesion in Patients with Alpha-1 Antitrypsin Deficiency**/M.M. White, B. Jundi, M.E. O'Brien, N.G. McElvaney, E. Reeves, Dublin, Ireland, A6342
- P1258** **Role of the Atypical Chemokine Receptor ACKR2 on Cigarette Smoking-Induced COPD in Mice**/T.P.T. Ferreira, D.S. Coutinho, A.C.S. Arantes, B.T. Ciambarella, M.F. Serra, P.M.R. Silva, M. Locati, M. Martins, Rio de Janeiro, Brazil, A6343
- P1259** **LncRNA NEAT1 Promotes IL-8 Expression in Fibroblasts Derived from COPD Patients and in Response to Cigarette Smoking**/N. Ijiri, A. Panariti, A. Mogas, P. Nair, Q. Hamid, J. Martin, C. Bagloli, Montreal, Canada, A7676
- P1260** **Inhaled Alpha-1-Antitrypsin Restores Lower Respiratory Tract Protease- Anti-Protease Homeostasis and Reduces Inflammation in Alpha-1 Antitrypsin Deficient Individuals: A Phase 2 Clinical Study Using Inhaled Kamada-API**/M. Brantly, J. Stocks, F. Rouhani, J. Lascano, A. Jeffers, J. Nolte, S. Owens, T.A. Tucker, N. Tov, Gainesville, FL, A7677

THEMATIC POSTER SESSION

C75 FIBROSIS: CURRENT AND FUTURE APPROACHES

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area A, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators



Facilitator: E. Charbek, MD, St. Louis, MO

- P1** **CD82 Is a Novel Mediator of Fibroblast Proliferation/K.**
Heinzemann, N. Noskovicova, M. Lehmann, M. Lindner, R. Hatz, J. Behr, M. Konigshoff, O. Eickelberg, Munich, Germany, p.A6344
- P2** **Flow Cytometric Time-Course Analysis of Rat Alveolar Immune Cells During Bleomycin-Induced Lung Injury and Fibrotic Remodeling/E.** Lopez Rodriguez, M. Ochs, L. Knudsen, C. Kloth, Hannover, Germany, p.A6345
- P3** **Targeting Novel Discoidin Domain Receptor-2 Expressing Cellular Subsets in Pulmonary Fibrosis/L.T.** McDonald, S.D. Johnson, D.L. Russell, A.C. LaRue, Charleston, SC, p.A6346
- P4** **Survival Mechanisms for Idiopathic Pulmonary Fibrosis Fibroblasts and the Unfolded Protein Response (UPR)/S.** Bui, L. Tran, L. Rodriguez, B. Aljebur, S.D. Nathan, G. Grant, Fairfax, VA, p.A6347
- P5** **PTEN-Induced Putative Kinase 1 Modulates Opening of the Mitochondrial Permeability Transition Pore in Pulmonary Epithelial Cells/D.C.** Zank, M. Bueno, E.K. Steer, C.T. Chu, A.L. Mora, Pittsburgh, PA, p.A6348
- P6** **V-Maf Avian Musculoaponeurotic Fibrosarcoma Oncogene Homolog F (MafF) Is a Transcriptional Regulator of the Relaxin Receptor, RXFP1/J.** Tan, H. Bahudhanapati, J. Tedrow, J. Dutta, T.-Y. Chen, Y. Zhang, D. Kass, Pittsburgh, PA, p.A6349
- P7** **Monocyte Immunophenotyping Reflects Aberrant Activation Patterns in Interstitial Lung Disease Patients/F.R.** Greiffo, I.E. Fernandez, M. Frankenberger, A. Ortega-Gomez, J. Behr, O. Soehnlein, O. Eickelberg, Munich, Germany, p.A6350
- P8** **Transforming Growth Factor β Suppresses Peroxisome Proliferator-Activated Receptor γ Expression Via Both SMAD Binding and Novel TGF- β Inhibitory Elements/A.T.** Reddy, S.P. Lakshmi, R.C. Reddy, Pittsburgh, PA, p.A6351
- P9** **Identification and Validation of Unique and Shared M2 Macrophage Biomarkers Between Murine Models and Human Disease Using Bioinformatic Gene Expression Analysis/P.** Parthasarathy, A. Dvorkin-Gheva, J. Murphy, E. Ayaub, K. Tandon, S.O. Alowami, L. Janssen, A. Naqvi, M.D. Inman, M.R.J. Kolb, N.A. Khalidi, M.J. Larche, K. Ask, Hamilton, Canada, p.A6352

Facilitator: A.M. Casey, MD, Boston, MA

- P10** **Abnormal Resistance of Idiopathic Pulmonary Fibrosis Fibroblasts in Response to Radiation-Induced Apoptosis/R.** Nho, J. Im, J.Y. Yhee, K. Kim, J. Lawrence, Minneapolis, MN, p.A6353
- P11** **C/EBP Homologous Protein (CHOP) Mediates Hypoxia-Induced Apoptosis and Fibronectin Expression in Alveolar Epithelial Cells/A.** Burman, W. Lawson, H. Tanjore, T.S. Blackwell, Nashville, TN, p.A6354
- P12** **Successful Treatment of Bleomycin-Induced Lung Fibrosis by a Modified Antioxidant/R.K.** Braun, R.T. Raines, J.C. Lukesh, F. Tsao, M. Eldridge, K.C. Meyer, Madison, WI, p.A6355
- P13** **Pro-Fibrogenic and Estrogen Receptor Signaling Pathways Converge in Lung Epithelial Cells/L.C.** Smith, S. Moreno, T. Sabo-Attwood, Gainesville, FL, p.A6356

- P14** **Idiopathic Pulmonary Fibrosis Fibroblasts Are Resistant to TRAIL-Mediated Apoptosis by the Alteration of Forkhead Box O3a (FoxO3a) Dependent Death Receptor 4 (DR4)/J.** Im, J.Y. Yhee, K. Kim, R. Nho, Minneapolis, MN, p.A6357
- P15** **The Gain-of-Function Muc5B Polymorphism Rs35705950 Increases Inflammatory Signaling and Wound Repair Capacity in Cultured Respiratory Cells/J.P.** Huber, J.S. Kurche, J. Romero, I. Yang, D.A. Schwartz, Aurora, CO, p.A6358
- P16** **Effect of Cigarette Smoke in Lung Fibroblasts and Epithelial Cells Role of CCL2 in Development of Idiopathic Pulmonary Fibrosis/S.S.** Garcia Trejo, M.A. Checa Caratachea, V.M. Ruiz Lopez, A. Pardo Cemo, M.E. Selman Lama, Mexico City, Mexico, p.A6359
- P17** **PBI-4425, a Novel First-in-Class Anti-Inflammatory/Anti-Fibrotic Compound, Inhibits Collagen I and CTGF Production in Human Fibroblasts, and Reduces Lung Fibrosis in the Bleomycin-Induced Lung Fibrosis Model/M.** Leduc, M. Tremblay, B. Grouix, F. Sarra-Bournet, A. Felton, P. Laurin, L. Gagnon, Laval, Canada, p.A6360
- P18** **Identifying Non Canonical Targets of the TGF-Beta Pathway Critical to Human Lung Fibroblast Activation/C.** Kitson, Q. Luo, M. Thompson, G. Dalton-Kay, J. Thompson, J. Li, R. Ammar, M. Fuentes, Pennington, NJ, p.A6361

Facilitator: S. Cerri, MD, PhD, Modena, Italy

- P19** **Extracellular Matrix Metalloproteinase Inducer (EMMPRIN) Promotes EMT and Metabolic Reprogramming in Lung Epithelial Cells/N.A.** Hasaneen, G. Girmun, I. Zaitseva, N. Kaur, D. Elmonshed, C.E. Roel, H.D. Foda, Stony Brook, NY, p.A6362
- P20** **CSL312, a Novel Anti-FXII Antibody, Blocks FXII-Induced IL-6 Production from Primary Non-Diseased and Idiopathic Pulmonary Fibrosis Fibroblasts/M.** Wong, J. Jaffar, L. McMillan, N.J. Wilson, M.J. Wilson, G. Westall, C. Panousis, Melbourne, Australia, p.A6363
- P21** **Harnessing Machine Learning to Develop Prognostic Models of Mortality Outcome Utilising Biomarkers Identified in the PROFILE Idiopathic Pulmonary Fibrosis (IPF) Cohort/S.** Genway, L. Edwards, W.A. Fahy, R.P. Marshall, R.G. Jenkins, T.M. Maher, Stevenage, United Kingdom, p.A6364
- P22** **Respiratory Function and Quantitative Measurement of Fibrosis in a Rat Model of Bleomycin-Induced Lung Fibrosis/M.C.** McElroy, M. Anderson, A. Young, P. Nath, S. Madden, A. Milne, L. Sherry, Edinburgh, United Kingdom, p.A6365
- P23** **Alveolar Epithelial Cell Endoplasmic Reticulum Stress Impairs Antiviral Immunity in the Lung/J.** Kropski, C. Calvi, D.-S. Cheng, A. Serezani, R. Zaynagetdinov, I.V. Polosukhin, V.V. Polosukhin, H. Tanjore, W. Lawson, T.S. Blackwell, Nashville, TN, p.A6366
- P24** **Early Interstitial Changes in Family Members of Patients with Familial Interstitial Pneumonia/J.** Kropski, C. Markin, E. Garnett, N. Liu, D. Mitchell, W. Mason, J. Worrell, J. Solus, J.A. Phillips, III, J. Cogan, L.R. Young, J.E. Loyd, W. Lawson, T.S. Blackwell, Nashville, TN, p.A6367



- P25** **The Endocannabinoid/CB₁R System Is Overactive in Hermansky-Pudlak Syndrome Associated Pulmonary Fibrosis in Humans/N.J. Coffey, B.R. Gochuico, T. Jourdan, J.K. Park, K.J. O'Brien, W.A. Gahl, G. Kunos, R. Cinar, Rockville, MD, p.A6368**
- P26** **Optimization of Formulation for a Novel Inhaled Therapeutic for Idiopathic Pulmonary Fibrosis/A. Komissarov, S. Hengsawar, Surasarang, G. Florova, S. Shetty, S. Idell, R.O. Williams, Tyler, TX, p.A6369**
- P27** **Telomere Length in Chronic Hypersensitivity Pneumonitis Explant Lungs/L. De Sadeleer, D. Martens, J.E. McDonough, S. Verleden, T. Nawrot, B. Vanaudenaerde, W.A. Wuyts, Leuven, Belgium, p.A6370**

Facilitator: D.B. Chairman, MD, Columbia, MO

- P28** **Preclinical Studies Reveal Low Phosphate Diet as a Potential Therapy for Pulmonary Alveolar Microlithiasis/Y. Uehara, N.M. Nikolaidis, A. Saito, L.B. Pitstick, H. Wu, H. Amlal, K. LaSance, J.C. Woods, J. Guo, F.X. McCormack, Cincinnati, OH, p.A6371**
- P29** **Validating a Novel Dried Blood Spot Card Test for the Diagnosis of Autoimmune Pulmonary Alveolar Proteinosis (Autoimmune PAP) Within the National PAP Registry/B. Carey, A. Toth, C. Chalk, K. Uchida, B.C. Trapnell, Cincinnati, OH, p.A6372**
- P30** **Predicting Undiagnosed Early Pulmonary Fibrosis in Familial Interstitial Pneumonia Relatives Using Peripheral Blood Mononuclear Cell Gene Expression/S.K. Mathai, C.M. Moore, J. Powers, A. Walts, J. Woodward, C. Markin, A.L. Peljto, D.A. Lynch, J.H. Chung, J. Kropski, K.K. Brown, M.P. Steele, J.E. Loyd, M.I. Schwarz, T.E. Fingerlin, I. Yang, D.A. Schwartz, Aurora, CO, p.A6373**
- P31** **Regulation of Fibrocyte Accumulation in the Fibrotic Lung Microenvironment by Netrin-1/GRB2 Is Associated with Progression of Scleroderma Interstitial Lung Disease/H. Sun, H. Pan, H. Ding, F.-B.A. Carol, C. Ryu, M. Gulati, W.H. Fares, D.A. Carrano, X. Peng, E. Herzog, New Haven, CT, p.A6374**
- P32** **Quantification of Differential Fibrotic Lesions by Image Analysis in the Mouse Bleomycin Model of Pulmonary Fibrosis/L. Sherry, M. Anderson, A. Young, P. Nath, J. Baily, M.C. McElroy, S. Brockbank, S. Cruwys, Glasgow, United Kingdom, p.A6375**
- P33** **Tissue Expression of TH2 Markers: Comparison Between Idiopathic Pulmonary Fibrosis and Fibrotic Hypersensitivity Pneumonitis/A. Fraccaro, A. Montero-Fernandez, A.G. Nicholson, T.M. Maher, A.U. Wells, P. Sestini, P. Kelleher, M. Saetta, E.A. Renzoni, London, United Kingdom, p.A6376**
- P34** **Chronic Inhalation of Recombinant Human Granulocyte/Macrophage Colony Stimulating Factor (GM-CSF) and GM-CSF Antibody in Nonhuman Primates/R. Tazawa, K. Nakagaki, Y. Ito, M. Iizuka, A. Hashimoto, R. Nakano, T. Tanaka, K. Akasaka, S. Takeuchi, K. Nakata, Niigata, Japan, p.A6377**
- P35** **Molecular Imaging of CXCR4 by Gallium-68-Pentixafor PET in Patients with Idiopathic Pulmonary Fibrosis Treated with Pirfenidone/A. Prasse, T. Welte, D. Jonigk, T.L. Ross, F. Bengel, T. Derlin, Hannover, Germany, p.A7678**

THEMATIC POSTER SESSION

C76 HEAT SHOCK PROTEIN

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area N, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

- P1504** **Bcl-2 Up-Regulation in Lung Fibroblasts Induced by HSP70 Autoantibodies Is Mediated by Histone Modifications/Y. Sanders, H. Liu, X. Lyv, T.N. Thi Kim, X. Zhang, V.J. Thannickal, S.R. Duncan, Birmingham, AL, p.A6378**
- P1505** **Therapeutic Inhibition of Hsp90 Attenuates Fibroblast Activation Involved in Severe Fibrotic Lung Disease/V. Sontake, Y. Wang, R.K. Kasam, G.B. Reddy, E.S. White, A.G. Jegga, S.K. Madala, Cincinnati, OH, p.A6379**
- P1506** **HSF1 Activation Regulates the Transcriptional Activity of the Heat Shock and Unfolded Protein Responses Altering Myeloid Proteostasis and Driving Granulopoiesis/K.L. Gates, P.J. Homan, Z. Lu, A.V. Misharin, N.S. Chandel, W. Balch, R.I. Morimoto, J.I. Sznajder, G.S. Budinger, Chicago, IL, p.A6380**
- P1507** **The Role of Intracellular Heat Shock Protein 70 Deficiency in Idiopathic Pulmonary Fibrosis/J. Sellares, K.J. Thiel, N. Cardenas, F. Schneider, J.M. Pilewski, M. Rojas, C.A. Feghali-Bostwick, K.L. Veraldi, Pittsburgh, PA, p.A6381**
- P1508** **Cigarette Smoke Increases Secretion of GRP78 in the Human Lung/M. Aksoy, N. Shetty, S. Kelsen, Philadelphia, PA, p.A6382**
- P1509** **The HSP90 Inhibitor Radicol as a Bioinformatically-Derived Drug for M2 Macrophage Phenotype Inhibition/P. Parthasarathy, A. Dvorkin-Gheva, H. Patel, E. Ayaub, K. Kuo, J. Murphy, K. Tandon, N. Wazed, P.-S. Bellaye, A. Naqvi, M.D. Inman, L. Janssen, M.R.J. Kolb, N.A. Khalidi, M. Larche, C.D. Richards, K. Ask, Hamilton, Canada, p.A6383**
- P1510** **Identification of Candidate Targets Involved in Bronchoalveolar Protection by Mesenchymal Stem Cells (MSC) in Hypoxic Induced Injury/N. Shologu, N. Dard, D. O'Toole, M. Scully, J. Laffey, Galway, Ireland, p.A6384**

THEMATIC POSTER SESSION

C77 ADVANCEMENTS IN THE BIOLOGY OF BPD AND OTHER CONGENITAL PEDIATRIC LUNG DISEASES

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area B, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators



Facilitator: S.D. Reynolds, PhD, Columbus, OH

- P155** **Post-Translational Modification of β -catenin Is Associated with Disease Pathogenesis in a 3D Human Model of Bronchopulmonary Dysplasia/J.** Sucre, P. Vijayaraj, C. Aros, D. Wilkinson, M. Paul, S.H. Guttentag, B. Gomperts, Nashville, TN, p.A6385
- P156** **In Neonatal Mice, CD103+ Dendritic Cells and Clec9a Signaling Are Required for Hyperoxia-Induced Enhanced Inflammatory Responses to Rhinovirus Infection/T.X.** Cui, C.T. Fulton, A.P. Popova, Ann Arbor, MI, p.A6386
- P157** **MicroRNA-133a/b Plays a Role in Hyperoxia-Induced Decreased Lung Vascularization and Pulmonary Hypertension in Neonatal Mice/M.** Sun, T. Chen, S. Patel, R. Ramchandran, J.U. Raj, Chicago, IL, p.A6387
- P158** **Persistent Respiratory Disease in ELGANS Is Predicted by Low CD31+CD4+T Cell Frequency/K.M.** Scheible, J. Emo, A. Baran, D. Peterson, J. Holden-Wiltse, S. Bandyopadhyay, A.G. Straw, H. Huyck, J.M. Ashton, K. Schooping, N. Laniewski, K. Arul, E. Werner, T. Scalise, D. Maffett, R.M. Ryan, A.M. Reynolds, D.J. Topham, T.J. Mariani, G.S. Pryhuber, p.A6388
- P159** **Gene Regulatory Roles for Lysyl Oxidases in Lung Fibroblasts/I.** Mizikova, F. Palumbo, W. Seeger, R. Morty, Bad Nauheim, Germany, p.A6389
- P160** **Impact of Control Interventions in Lung Alveolarization During Post-Natal Lung Development/J.** Fehl, A. Pozarska, W. Seeger, R. Morty, Bad Nauheim, Germany, p.A6390
- P161** **Motile Cilia Preassembly Occurs in a Biphasic Pattern/A.** Horani, A. Ustione, T. Huang, J. Pan, D. Piston, S.L. Brody, St. Louis, MO, p.A6391
- P162** **Impact of Mouse Strain on Arrested Alveolarization in Response to Hyperoxia Exposure as Neonates/J.** Tiono, D.E. Surate Solaligue, I. Mizikova, R. Morty, W. Seeger, Giessen, Germany, p.A6392

Facilitator: V. Bhandari, MD, DrMed, Philadelphia, PA

- P163** **Stereological Monitoring of Post-Natal Lung Maturation in the Mouse/D.E.** Surate Solaligue, A. Pozarska, J.A. Rodriguez-Castillo, A. Ntokou, R. Morty, W. Seeger, Bad Nauheim, Germany, p.A6393
- P164** **The Role of Forkhead Box O (FoxO) Transcription Factors in Normal and Aberrant Late Lung Development/F.** Palumbo, W. Seeger, R. Morty, Bad Nauheim, Germany, p.A6394
- P165** **An Attenuated Receptor Expressed in Putative T β RII Knock-Out Mice Localizes to the Membrane and Associates with T β RI and ShcA/M.K.** Lee, S.M. Smith, C. Li, R. Bajpai, P. Minoo, Los Angeles, CA, p.A6395
- P166** **Role of NQO1 in the Attenuation of Oxygen-Mediated Pulmonary Toxicity by Sulforaphane/R.** Kalikot Thekkeveedu, C. Chu, B. Moorthy, Jackson, MS, p.A6396
- P167** **Interleukin-10 in Experimental Bronchopulmonary Dysplasia/E.** Lignelli, W. Seeger, R. Morty, Bad Nauheim, Germany, p.A6397

- P168** **Caffeine Administration Modulates TGF- β Signaling but Does Not Attenuate Blunted Alveolarization in a Hyperoxia-Based Mouse Model of Bronchopulmonary Dysplasia/P.** Rath, C. Nardiello, D.E. Surate Solaligue, I. Mizikova, R. Morty, W. Seeger, Bad Nauheim, Germany, p.A6398

- P169** **Mitochondrial Genome Variation and Risk of Bronchopulmonary Dysplasia (BPD) in Argentinian Infants/J.** Marzec, M. Caballero, P. Acosta, F. Polack, S. Kleeberger, Durham, NC, p.A6399

Facilitator: C.D. Baker, MD, Aurora, CO

- P170** **Developing a Biomarker for Bronchopulmonary Dysplasia-Associated Pulmonary Hypertension/A.** Bartenschlag, E. Zmuda, J. Frick, J. Gastier-Foster, L.D. Nelin, J.K. Trittmann, Columbus, OH, p.A6400
- P171** **Effect of Prenatal Antioxidant Sulforaphane on Developing Lung Disorder in Neonatal Mice/H.-Y.** Cho, L. Miller-DeGraff, L. Perrow, M. Yamamoto, S. Kleeberger, Research Triangle Park, NC, p.A6401
- P172** **Inter-Strain Variation in Mouse Mitochondrial Genome and Effects of Oxidative Stress/K.** Verhein, A. Burkholder, J. Nichols, Z. McCaw, J. Marzec, W. Gladwell, N. Reeves, J. Malphurs, G. Solomon, D. Fargo, S. Kleeberger, Research Triangle Park, NC, p.A6402
- P173** **Genomic Analysis Between Patients with Extreme Respiratory Outcomes Following Preterm Birth/A.I.** Cristea, J. Renbarger, J. Harris, G. Jiang, Y. Liu, V.L. Ackerman, M. Geraci, S.D. Davis, Indianapolis, IN, p.A6403
- P174** **The Highly Conserved Wnt Pathway Is Associated with the Development of BPD in ELBW Through Interactions with SMAD1 and WISP1/L.J.** Hsu, A. Zylak, U. Paudel, S. Amatya, S. Rajbhandari, A. Amin, A. Feldman, L. Parton, Valhalla, NY, p.A6404
- P175** **The Classification of ATP-Binding Cassette Subfamily a Member 3 (ABCA3) Mutations Using the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Classification System/T.B.** Kinane, L. Denman, L. Yonker, Boston, MA, p.A6405
- P176** **Are MYLK Genetic Variants Associated with BPD in Extremely Low Birth Weight Infants?/S.** Rajbhandari, K. Kurtz, A. Amin, U. Paudel, L.A. Parton, Valhalla, NY, p.A6406

THEMATIC POSTER SESSION

C78 FIBROSIS: MEDIATORS AND MODULATORS

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area A, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

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12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: C.M. Hogaboam, PhD, Los Angeles, CA

- P37** **CC10-Mediated Inhibition of Lung Fibroblast Adhesion to Fibronectin/Y.H.** Lee, A.L. Pilon, Rockville, MD, p.A6407



- P38** **Pathway Analyses to Understand the Role of Eosinophilia in Interstitial Lung Disease, Systemic Sclerosis, and Esophagitis**/S.E. Smith, M. Zarate, M.B. Scholand, Salt Lake City, UT, p.A6408
- P39** **Pathway Analysis in IPF: Untangling the Relationships Among Key Cell-Signaling Molecules Involved in IPF Pathogenesis**/S.E. Smith, A.D. Plante, M.B. Scholand, Salt Lake City, UT, p.A6409
- P40** **CUB Domain Containing Protein 1/Transforming Growth Factor-Beta 1 Cross-Talk Regulates (Myo)fibroblast Differentiation**/N. Noskovicova, K. Heinzelmann, G. Burgstaller, O. Eickelberg, Munich, Germany, p.A6410
- P41** **Dimensionality, Composition and Stiffness Influence Fibrosis in Healthy and Pathological Pulmonary Artery Adventitial Fibroblasts**/M. Floren, A. Flockton, W. Tan, K.R. Stenmark, Aurora, CO, p.A6411
- P42** **Silver Nanoparticles Reduce Proliferative Capacity and Affect ECM Synthesis in Human Lung Fibroblasts**/A.-K. Larsson-Callert, A. Nybom, M. Bagher, L. Thiman, H.L. Karlsson, G. Westergren-Thorsson, Lund, Sweden, p.A6412
- P43** **Fibroblast Conditioned Matrix: A New Approach to Study Extracellular Matrix (ECM) Effects in Idiopathic Pulmonary Fibrosis (IPF)**/G. Epstein Shochet, L. Israeli-Shani, D. Shitrit, Kfar Saba, Israel, p.A6413
- P44** **Anti TNF-Alpha Treatment (Infliximab) Attenuates IPF Fibroblast-Mediated Increased Adhesion and Integrin A5 Expression**/G. Epstein Shochet, E. Brook, L. Israeli-Shani, D. Shitrit, Kfar Saba, Israel, p.A6414
- P45** **The Role of a Panel of Pro-Fibrogenic miRs in Fibrotic Lung Disorders**/F. Meloni, S. Inghilleri, S. Di Carlo, E. Cova, F. Calabrese, D. Piloni, M. Zorzetto, L. Divizia, G. Politano, A. Benso, B. Vanaudenaerde, R. Kessler, M. Porzio, P. Morbini, E. Rossi, Pavia, Italy, p.A6415
- P46** **Hypoxia Modulates Human Pulmonary Arterial Adventitial Fibroblasts Through HIF-1alpha Activation**/J.L. Philip, C.A. Caneba, N. Chawla, D.M. Tabima, K.S. Masters, N.C. Chesler, Madison, WI, p.A6416
- Facilitator:** L.P. Hariri, MD, PhD, Boston, MA
- P47** **Use of Gadofosveset-Enhanced Lung MRI to Assess Ongoing Lung Injury in Fibrotic Interstitial Lung Disease**/S. Montesi, R. Rao, L. Liang, P. Caravan, A. Sharma, S. Digumarthy, R. Seethamraju, A.M. Tager, Boston, MA, p.A6417
- P48** **Targeted Therapy for Idiopathic Pulmonary Fibrosis by Glycol Chitosan Nanoparticles**/R. Nho, J.Y. Yhee, J. Im, K. Kim, Minneapolis, MN, p.A6418
- P49** **CT and Hyperpolarized Carbon-13 MR-Based Multimodal Biomarker for Pulmonary Fibrosis in a Bleomycin Induced Lung Injury Model**/S. Siddiqui, M. Pourfathi, N. Drachman, S. Kadlecsek, Y. Xin, H. Profka, R.R. Rizi, Philadelphia, PA, p.A6419
- P50** **Role of Mitogen Activated-Kinase (MAPK)-Phosphatase (MKP)-5 in Pulmonary Fibrosis**/A. Tzouveleakis, K. Min, N. Xylourgidis, V. Aidinis, I. Barbayianni, I. Ninou, A. Bennett, N. Kaminski, New Haven, CT, p.A6420
- P51** **Identification of Selective and Effective Small-Molecule Inhibitors Targeting Nox4**/L. Hecker, V. Gokhale, K.S. Knox, H.M. Mansour, J.G.N. Garcia, Tucson, AZ, p.A6421
- P52** **Uncovering the Mysteries of S100A4 in Fibrosis: Activation and Localization of Non-Muscle Myosin II Drives Myofibroblast Differentiation**/B.D. Southern, L.M. Grove, R.G. Scheraga, S. Abraham, K.A. Niese, S. Mansoor, S.S. Rosenfeld, M.A. Olman, Cleveland, OH, p.A6422
- P53** **Overexpression of Peroxiredoxin 4 Exacerbates Bleomycin-Induced Pulmonary Inflammation and Fibrosis in Mice**/T. Hanaka, T. Kido, S. Noguchi, S. Yamada, H. Izumi, K. Oda, T. Ogoshi, H. Ishimoto, K. Yatera, H. Mukae, Kitakyushu City Fukuoka, Japan, p.A6423
- P54** **Longitudinal Measurements of Circulating Fibrocytes as a Biomarkers of Prognosis in Idiopathic Pulmonary Fibrosis**/V. Yu, M. Burdick, Z. Zhang, J.A. Belperio, M. Horton, B. Mehrad, Charlottesville, VA, p.A6424
- P55** **Deregulation of Cleavage Factor Im 25 (CFIM25) Contributes to Pulmonary Fibrosis Through Alternative Polyadenylation**/T. Mills, N.-Y. Chen, J. Molina, J. Ko, H. Karmouty-Quintana, S.D. Collum, F. Luo, K. Volcik, J. Davies, K. Philips, E. Wagner, M. Blackburn, Houston, TX, p.A6425
- P56** **The Plasma Membrane Translocation of a TRPV4-PI3Kγ Complex Mediates the Mechanotransduction of Myofibroblast Differentiation**/L.M. Grove, M. Mohan, S. Abraham, K.A. Niese, B.D. Southern, R.G. Scheraga, S.V. Naga Prasad, M.A. Olman, Cleveland, OH, p.A6426
- Facilitator:** S.K. Huang, MD, Ann Arbor, MI
- P57** **An Ex Vivo Human Model of Idiopathic Pulmonary Fibrosis Using Precision Cut Lung Slices**/H.N. Alsafadi, M. Lehmann, M. Lindner, B. Peschel, M. Konigshoff, D.E. Wagner, Munich, Germany, p.A6427
- P58** **Resokine Modulates Immune Cell Infiltration into the Lung and Provides Therapeutic Activity in a Bleomycin-Induced Lung Fibrosis Model**/K.M. Ogilvie, M.T. Do, K.P. Chiang, R.A. Adams, S.P. Crampton, L.A. Nangle, A.B. Cubitt, J.C. McKew, M.A. Ashlock, J.D. Mendlein, San Diego, CA, p.A6428
- P59** **Preclinical Efficacy of the Dual Growth Factor Antagonist Brivanib in Models of Lung Fibrosis**/C. Kitson, M. Mauricio, H. Fuentes, M. Kowalik, A. Azzara, E. Dierks, J. Robl, M. Fuentes, B. Ellsworth, Pennington, NJ, p.A6429
- P60** **Depletion of Cleavage Factor 25kDa Subunit (CFIm25) and Resulting Alternative Polyadnylation (APA) in Vascular Remodeling and Right Ventricle Hypertrophy in Pulmonary Hypertension**/S.D. Collum, T. Mills, A. Hernandez, L. Han, J. Amione-Guerra, K.A. Youker, B. Akkanti, A. Guha, H. Karmouty-Quintana, Houston, TX, p.A6430
- P61** **Bortezomib Negatively Regulates Diverse Lung Fibroblast Activation Phenotypes**/L.R.K. Penke, H. Ouchi, M. Peters-Golden, Ann Arbor, MI, p.A6431
- P62** **Bleomycin Induced Epithelial Mesenchymal Transition in Mice**/M. Kato, F. Takahashi, H. Ihara, K. Tajima, T. Sato, H. Bascoro, A. Wirawan, M. Hidayat, I. Takeda, D. Hayakawa, R. Kanemaru, Y. Koinuma, K. Suina, N. Shimada, S. Sasaki, K. Takahashi, Tokyo, Japan, p.A6432



- P63 Myofibroblast Rescue by Normal Extracellular Matrix/C.**
Upagupta, P.-S. Bellaye, C. Shimburi, S. Sato, M.R.J. Kolb,
Hamilton, Canada, p.A6433
- P64 Mesenchyme Associated Transcription Factor PRRX1: A Key
Regulator of IPF Fibroblast/A.** Froidure, E. Marchal-Duval, M.
Ghanem, M. Jallet, G. Laura, A. Joannes, P. Mordant, A. Cazes, B.
Crestani, A. Mailleux, Brussel, Belgium, p.A6434
- P65 Modulation of Sphingosine-1-Phosphate Receptors Interferes
with Connective Tissue Growth Factor Expression in
Fibroblasts/D.R.** Gendron, P. Blais Lecours, A.-M. Lemay, D.
Marsolais, Quebec, Canada, p.A6435

Facilitator: N. Sandbo, MD, Madison, WI

- P66 Identification of a Subset of Rapidly Dividing and High
Collagen Expressing Fibroblasts Within a Heterozygous
Cohort of Pulmonary Fibroblasts in Idiopathic Pulmonary
Fibrosis/L.** Rodriguez, B. Aljebur, S. Bui, L. Tran, G. Trujillo, S.
Nathan, G. Grant, Fairfax, VA, p.A6436
- P67 Role of Fibroblast Growth Factor/Fibroblast Growth Factor
Receptor Signal in Bleomycin-Induced Pulmonary Fibrosis in
Mice/Y.** Toyoda, S. Morizumi, S. Sato, H. Okazaki, Y. Chen, H.
Goto, H. Ogawa, H. Nishimura, K. Koyama, H. Kawano, Y. Aono,
H. Uehara, Y. Nishioka, Tokushima, Japan, p.A6437
- P68 The Plasminogen Activator Inhibitor-1 Promotes Pulmonary
Fibrosis in Response to Intratracheal Administration of
Oxidized Phospholipid/J.J.** Osterholzer, N. Subbotina, M. Dotson,
S. Teitz-Tennenbaum, T. Sisson, Ann Arbor, MI, p.A6438
- P69 The Development of a Novel ProteaseTag® Immunoassay for
the Detection and Quantification of Active Plasmin/D.**
McCafferty, K.L. Moffitt, C. Robb, T. Ferguson, B. Walker, Belfast,
United Kingdom, p.A6439
- P70 Type I Collagen Signaling Through DDR2 Receptor Regulates
Fibroblast Apoptosis Through AKT/S.** Jia, J.C. Horowitz, M.
Agarwal, K.K. Kim, Ann Arbor, MI, p.A6440
- P71 Transcriptional Regulation of MUC5B Expression in Idiopathic
Pulmonary Fibrosis (IPF)/L.L.A.** Sparks, B. Helling, A.N. Gerber,
V. Kandiyala, S.K. Sasse, B. Pederson, Y. Nakano, T. Okamoto, C.
Evans, I. Yang, D.A. Schwartz, Aurora, CO, p.A6441
- P72 Targeting Collagen Degradation to Treat Human Fibrotic
Disease/M.J.** Podolsky, A. Ha, K. Atabai, San Francisco, CA,
p.A6442
- P73 IL-17A Deficiency Protects Against Bleomycin-Induced
Complement Activation and Lung Injury/R.** Vittal, E. Cipolla, S.
Matthes, Ann Arbor, MI, p.A7679
- P74 A Novel MARCKS Peptide Binding to Phospholipids
Attenuates Fibroblast Activation and Fibrosis
Progression/D.C.** Yang, J. Xu, C.-L. Chiu, R. Wu, J.A. Last, R.W.
Harper, J.M. Oldham, C.-H. Chen, Davis, CA, p.A7680

THEMATIC POSTER SESSION

C79 ADVANCING UNDERSTANDING OF OBSTRUCTIVE LUNG DISEASE: MEDICATIONS AND MECHANISMS OF DELIVERY

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area L, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: A. Togias, MD, Bethesda, MD

- P1261 Once-Daily Tiotropium Respimat® Add-on to Inhaled
Corticosteroid Maintenance Therapy Reduces Airflow
Obstruction in Patients with Symptomatic Asthma,
Independent of Body Mass Index Score/S.** Khurana, H.A.M.
Kerstjens, P. Paggiaro, R. Buhl, J.A. Bernstein, J. Haddon, M.
Engel, A. Unseld, T.B. Casale, Rochester, NY, A6443
- P1262 Dupilumab Rapidly and Significantly Improves Lung Function
and Decreases Inflammation by 2 Weeks After Treatment
Initiation in Patients with Uncontrolled Persistent Asthma/A.**
Papi, B.N. Swanson, H. Staudinger, P. Rowe, J. Maroni, S.
Jayawardena, J. Hamilton, N. Amin, G. Pirozzi, B. Akinlade, N.M.H.
Graham, A. Teper, Ferrara, Italy, A6444
- P1263 Safety and Tolerability of Once-Daily Tiotropium Respimat®
Add-On Therapy in African-American Patients with
Symptomatic Persistent Asthma Across a Range of
Severities/L.M.** Graham, H.A.M. Kerstjens, C. Vogelberg, E.
Hamelmann, S.J. Szeffler, B. Voelker, M. Engel, A. Unseld, M.B.
Foggs, Norcross, GA, A6445
- P1264 Inhaled Fluticasone/Salmeterol Synergistically Reduces
Bronchoalveolar Neutrophilia and Submucosal Extracellular
Matrix Deposition in the Equine Model of Severe Asthma/M.**
Bullone, A. Vargas, Y. Elce, J.G. Martin, J.-P. Lavoie, St-Hyacinthe,
Canada, A6446
- P1265 Association of Incident Pneumonia and Exacerbations with
Extrafine Triple Therapy in One Single Inhaler in COPD
Patients: A Post-Hoc Analysis from TRILOGY and TRINITY
Studies/M.** Scuri, J. Vestbo, A. Papi, M. Corradi, M. Spinola, I.
Montagna, C. Francisco, G. Cohuet, S. Vezzoli, A. Muraro, S.
Petrucelli, D. Singh, Parma, Italy, A6447

Facilitator: A.E. Dixon, MD, Burlington, VT

- P1266 Cardiovascular Safety of Extrafine Single Inhaler Triple
Combination of Beclomethasone Dipropionate, Formoterol
Fumarate, and Glycopyrronium Bromide in COPD: Results of
Safety Analysis from the TRILOGY and TRINITY Studies/M.**
Scuri, D. Singh, A. Papi, M. Corradi, I. Montagna, C. Francisco, G.
Cohuet, S. Vezzoli, A. Muraro, S. Petrucci, J. Vestbo, Parma,
Italy, A6448



- P1267** **Extrafine Single Inhaler Triple Therapy Reduces Use of Rescue Medication in COPD Patients: Results from the TRINITY Study/M.** Scuri, D. Singh, A. Papi, M. Corradi, I. Montagna, C. Francisco, G. Cohuet, S. Vezzoli, A. Muraro, S. Petruzzelli, J. Vestbo, Parma, Italy, A6449
- P1268** **Effects of Extrafine Single Inhaler Triple Therapy on Lung Function in COPD Patients: Results from Responder Analysis from the TRINITY Study/M.** Scuri, J. Vestbo, A. Papi, M. Corradi, I. Montagna, C. Francisco, G. Cohuet, S. Vezzoli, A. Muraro, S. Petruzzelli, D. Singh, Parma, Italy, A6450
- P1269** **Effect of Roflumilast on Airway Blood Flow in COPD/E.** Mendes, P. Rebolledo, L. Cadet, J. Arana, A. Schmid, A. Wanner, Miami, FL, A6451
- P1270** **Improvement in SGRQ Component Score with Indacaterol/Glycopyrronium Versus Salmeterol/Fluticasone: Results from the FLAME Study/J.A.** Wedzicha, K.R. Chapman, C.F. Vogelmeier, S. Fucile, A. Yadao, T. Ayers, C. Thach, A. Fowler Taylor, R. Fogel, F. Patalano, D. Banerji, London, United Kingdom, A6452
- P1271** **Prevalence and Characteristics of Patients with COPD and Low Peak Inspiratory Flow Rate Recruited in a Phase 3 Development Program for Revefenacin, a Nebulized Once-Daily Long-Acting Muscarinic Antagonist/D.A.** Mahler, S. Pendyala, C.N. Barnes, G.D. Crater, Hanover, NH, A6453
- Facilitator:** N. Scichilone, MD, Palermo, Italy
- P1272** **PBI-4425, a Novel First-in-Class Anti-Inflammatory/Anti-Fibrotic Compound, Reduces Pulmonary Emphysema and Cutaneous Hyperplasia in Tight-Skin (Fbn-1) Mouse/L.** Gagnon, L. Geerts, M.-P. Cloutier, J. Richard, J. Ouboudinar, P. Laurin, B. Grouix, Laval, Canada, A6454
- P1273** **Effects of Inhaled Hypertonic Saline on Mucociliary Clearance and Clinical Outcomes in Patients with Chronic Bronchitis/A.G.** Henderson, W.D. Bennett, K.L. Zeman, J. Wu, C. Gladman, F. Fuller, S. Gazda, R.C. Boucher, S.H. Donaldson, Chapel Hill, NC, A6455
- P1274** **A Physiological Rationale for Epithelial Sodium Channel Inhibition and Cystic Fibrosis Transmembrane Conductance Regulator Potentiator Therapy (Ivacaftor) in Primary Ciliary Dyskinesia/E.P.** Ingenito, R. Haberman, K. Donn, R.C. Boucher, W. Dworakowski, J. Miller, Boston, MA, A6456
- P1275** **Reduction in Effective Dose of Ipratropium Required for Bronchodilation Following Aerosol Inhalation Compared to Intratracheal Delivery/J.E.** Phillips, X. Zhang, J. Johnston, Thousand Oaks, CA, A6457
- P1276** **Perfluorochemical Liquids as Effective Transfection Agents of microRNA into Primary Alveolar Epithelial Cells/M.** Marcinkiewicz, S.T. Baker, J. Wu, Y. Tian, M.R. Wolfson, Philadelphia, PA, A6458
- P1277** **The Fate of Inhaled Simvastatin in the Lungs and Systemic Circulation/A.A.** Zeki, M. Elbadawi-Sidhu, S. Ott, O. Fiehn, Sacramento, CA, A6459

THEMATIC POSTER SESSION

C80-A EVERYTHING YOU NEED TO KNOW ABOUT BRONCHOPULMONARY DYSPLASIA, CYSTIC FIBROSIS AND DIFFUSE PARENCHYMAL LUNG DISEASES

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area B, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: L.K. Rogers, PhD, Columbus, OH

- P178** **The Implication of ASB3 Gene Variants on the Development of BPD/A.** Zylak, L.J. Hsu, A. Amin, S. Amatya, S. Rajbhandari, U. Paudel, A. Feldman, L.A. Parton, Valhalla, NY, p.A6460
- P179** **Association Between Gene Polymorphism of Fibroblast Growth Factor 10 and Bronchopulmonary Dysplasia and Patent Ductus Arteriosus in Preterm Infants/S.** Amatya, A. Amin, S. Rajbhandari, U. Paudel, L.A. Parton, Valhalla, NY, p.A6461
- P180** **Characterization of the Expression of Candidate Normalization Gene mRNAs in Animal Models of Idiopathic Pulmonary Fibrosis/K.** Minor, C.B. Glascock, C.F. Plato, Broomfield, CO, p.A6462

Facilitator: M. Dowell, MD, Chicago, IL

- P181** **Genetic Analysis Results of Our Cystic Fibrosis Patients/B.** Karadag, E. Atag, N. Bas Ikizoglu, E. Erdem Eralp, N. Kuter, Y. Gokdemir, R. Ersu, F. Karakoc, Istanbul, Turkey, p.A6463
- P182** **Lung Densitometry: MRI and CT Have Similar Spatial Patterns for Adults with Cystic Fibrosis/R.J.** Theilmann, A. Yen, D.J. Conrad, La Jolla, CA, p.A6464
- P183** **Implications of 6-Phosphofructo-2-Kinase/Fructose-2,6-Biphosphatase 3 (PFK-FB3) Activity in Cystic Fibrosis Airway Smooth Muscle Remodeling/J.H.** Jang, M. O'Sullivan, M. Pyrch, C. Wong, A. Panariti, J.G. Martin, Montreal, Canada, p.A6465
- P184** **ENaC Inhibitor AZD5634 Augments Airway Surface Liquid and Mucociliary Transport in Primary Cystic Fibrosis Airway Cells/E.** Falk Libby, H. Fortinberry, S. Birket, A. Astrand, N. Patel, A. Malmgren, G.J. Tearney, S. Rowe, Birmingham, AL, p.A6466
- P185** **Brevenal Effect Alone and with Orkambi on Airway Surface Liquid and Mucociliary Transport in Cystic Fibrosis Primary Human Bronchial Epithelial Cells/E.** Falk Libby, H. Fortinberry, S. Birket, C. Milla, D.G. Baden, A. Bourdelais, M. Salathe, I. Cohen, W.M. Abraham, G.J. Tearney, S. Rowe, Birmingham, AL, p.A6467

Facilitator: M. Padilla, MD, New York, NY

- P186** **Vitamin D Binding Protein and Alpha-1-Acid Glycoprotein Levels in Serum Are Associated with Lymphangioleiomyomatosis/S.** Miller, C. Coveney, D. Boock, S.R. Johnson, Nottingham, United Kingdom, p.A6468



- P187** **Hyperpolarized 129Xe Ventilation and Diffusion MRI of Lymphangioleiomyomatosis/L.L.** Walkup, R. Thomen, M. Freeman, Z. Cleveland, F.X. McCormack, J.C. Woods, Cincinnati, OH, p.A6469
- P188** **PD-L1 in Pulmonary Lymphangioleiomyomatosis (LAM): A Potential Therapeutic Target for Advanced Disease with Loss of TSC1/2/E.N.** Atochina-Vasserman, M.J. Merrilees, L. Lian, R. Rue, N. Zuo, L.F. Angel, E.V. Abramova, A. Gow, I. Kang, T.N. Wight, E.B. ERuslanov, V.P. Krymskaya, Philadelphia, PA, p.A6470
- P189** **Heterogeneity of Lung Disease Associated with NK2 Homeobox 1 Mutations/R.** Epaud, E. Nattes, S. Lejeune, A. Carsin, R. Borie, I. Gibertini, J. Balinotti, N. Nathan, S. Marchand-Adam, C. Thumerelle, B. Fauroux, E. Bosdure, V. Houdouin, C. Delestrain, M. Louha, R. Couderc, A. De Becdelievre, P. Fanen, B. Funalot, B. Crestani, J.-C. Dubus, A. Deschildre, Creteil, France, p.A6471
- P190** **Inhalable Drug Formulations for Idiopathic Pulmonary Fibrosis/V.** Vartiainen, J. Raula, K. Koli, E. Kauppinen, M. Myllarniemi, Helsinki, Finland, p.A6472
- P191** **Clinico-Radiological-Pathological Features and Efficacy of Anti-Fibrotic Agents in Atypical IPF: A Comparison Between Typical IPF and Atypical IPF/K.** Sugino, K. Gocho, Y. Nakamura, T. Isshiki, K. Matsumoto, K. Shibuya, T. Uekusa, S. Homma, Tokyo, Japan, p.A6473
- P1042** **The Relationship Between Chest CT Derived Pectoralis Muscle Area and Fat-Free Mass in COPD/M.-L.N.** McDonald, E. Rutten, R. Harmouche, A.A. Diaz, R. San Jose Estepar, E.F.M. Wouters, S.I. Rennard, C.P. Hersh, E.K. Silverman, G.R. Washko, Birmingham, AL, p.A6478
- P1043** **Effect of Ophiocephalus Striatus Extract on TNF- α , CRP and COPD Assesment Test (CAT) Score on Stable Muscle-Wasted COPD Patients/S.** Djajalaksana, E. Kusumawardhani, Malang, Indonesia, p.A6479
- P1044** **Activation of the Unfolding Protein Response in the Vastus Lateralis of Patients with Respiratory Cachexia: Advanced COPD Versus Lung Cancer/E.** Barreiro, A. Salazar-Degracia, E. Puig-Vilanova, J. Gea, Barcelona, Spain, p.A6480
- P1045** **Muscle-Specific microRNA Expression Differs in Vastus Lateralis Specimens from that of Myotubes in COPD Patients with Cachexia/E.** Barreiro, S. Pascual-Guardia, A. Salazar-Degracia, E. Puig-Vilanova, C. Casadevall, J. Gea, Barcelona, Spain, p.A6481
- P1046** **Rate of FEV1 Decline in Patients with History of COPD Hospitalization: A 10-Year Retrospective Study/H.** Wu, A. Medinger, Washington, DC, p.A6482
- Facilitator:** A. Desai, MD, Stony Brook, NY

THEMATIC POSTER SESSION

C80-B MULTI-MODALITY ASSESSMENT OF COPD, ASTHMA, AND ASTHMA-COPD OVERLAP SYNDROME

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area K, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: M.K. Han, MD, MS, Ann Arbor, MI

- P1038** **Exacerbations of Chronic Obstructive Pulmonary Disease (COPD): Impact of Airway Wall Thickness/S.L.** Adamson, L.E. Coxson, C.J. Hague, J.A. Leipsic, H.O. Coxson, S.V. Eeden, Vancouver, Canada, p.A6474
- P1039** **Comparison of Chest CT-Derived Indexes for Prognosis in Patients with COPD/S.** Sato, K. Tanimura, K. Hasegawa, Y. Hamakawa, K. Uemasu, T. Oguma, T. Hirai, S. Muro, Kyoto, Japan, p.A6475
- P1040** **Parametric Response Map Assessment of COPD Progression: A Longitudinal Study/A.** Coimbra, J. Liu, D. Cheung, P. Belloni, A. De Crespigny, T. Bengtsson, South San Francisco, CA, p.A6476
- P1041** **Computed Tomography Visual Emphysema Scoring and Quantitative Measurements Provide Independent and Complementary Information in COPD/M.** Kirby, W.C. Tan, C.J. Hague, J.A. Leipsic, J. Bourbeau, J.C. Hogg, H.O. Coxson, Vancouver, Canada, p.A6477
- P1047** **CComparison of the Forced Oscillation Technique and Spirometry in COPD and Alpha-1-Antitrypsin Deficient Patients/L.K.A.** Lundblad, E. Piitulainen, P. Wollmer, Burlington, VT, p.A6483
- P1048** **The Relationship Between Forced Oscillation Technique Measurements and the COPD Assessment Test in Stable Chronic Obstructive Pulmonary Disease/A.M.** Cottee, L. Seccombe, J.C. Watts, G. King, C. Thamrin, M. Peters, C. Farah, Sydney, Australia, p.A6484
- P1049** **Mechanisms of Hypercapnea in Advanced Chronic Obstructive Pulmonary Disease: A Secondary Analysis of the National Emphysema Treatment Trial/N.** Wysham, M. Ekstrom, A. Mathews, J. Xie, X. Qin, N. MacIntyre, Vancouver, WA, p.A6485
- P1050** **How Do Severe Chronic Obstructive Pumonary Disease Patients at Stable State After Exacerbation Sleep and Breathe During Sleep?/L.** Grassion, J. Gonzalez-Bermejo, J. Soler, A. Guerder, N. Haziot, E.-M. Jutant, I. Arnulf, T. Similowski, S. Redolfi, Paris, France, p.A6486
- P1051** **Complex Physiological Assessment in COPD/B.** Szucs, M. Petrekanits, J. Varga, Debrecen, Hungary, p.A6487
- P1052** **Excessive Expiratory Muscle Recruitment Impairs Central Hemodynamic Responses to Exercise in Patients with COPD/D.C.** Berton, L.F. Frohlich, F.M. Balzan, F. Plachi, R. Gass, P.K. Merola, R. Stein, P.R. Sanches, M.M. Knorst, J.A. Neder, Porto Alegre, Brazil, p.A6488
- P1053** **Inspiratory to Expiratory Ventricular Volume Changes in Smokers and Their Relationship to Emphysema/E.** MacLean, F.N. Rahaghi, G. Vegas Sanchez-Ferrero, C.E. Come, J. Minhas, A.A. Diaz, R. San Jose Estepar, G. Washko, Boston, MA, p.A6489



- P1054** **Percent Emphysema and Hyperinflation Does Not Correlate with Right Ventricular Function in Patients with COPD/M.**
Diamond, C. Dass, G.J. Criner, Philadelphia, PA, p.A6490
- P1055** **Pulmonary Artery to Aorta Ratio as a Predictive Index of Acute COPD Exacerbation Related Thirty Day Readmissions in the African American Population (PACER)/H. Chen, T. Gundala, Chicago, IL, p.A6491**
- Facilitator:** A.F. Gelb, MD, Lakewood, CA
- P1056** **Transfer Factor for Carbon Monoxide in Patients with COPD and Diabetes: Results from the German COSYCONET Cohort/K. Kahnert, T. Lucke, F. Biertz, A. Lechner, P. Alter, R. Bals, H. Watz, J. Behr, R. Holle, R.M. Huber, S. Karrasch, B. Stubbe, M. Wacker, S. Sohler, E.F.M. Wouters, C. Vogelmeier, R. Jorres, Munich, Germany, p.A6492**
- P1057** **Clinical Features and Outcomes Associated with Marked Bronchodilator Reversibility in Patients with Asthma, Chronic Obstructive Pulmonary Disease (COPD), and Asthma-COPD Overlap Syndrome (ACOS)/R. Allehebi, M. Stanbrook, Toronto, Canada, p.A6493**
- P1058** **Association Between Changes in Asthma Control and Measures of Lung Function/R. Allehebi, K.R. Chapman, Toronto, Canada, p.A6494**
- P1059** **Small Airways Impairment in Severe Asthmatic Patients with Fixed Airflow Obstruction and in COPD/M. Contoli, L. Morandi, F. Bellini, S. Soave, G. Forini, A. Pauletti, M. Marchi, I. Marchi, G. Caramori, A. Papi, Ferrara, Italy, p.A6495**
- P1060** **Lung Compliance and Resistance in Patients with Severe Persistent Asthma Before and After Undergoing Bronchial Thermoplasty: A Pilot Study/A. Baydur, R.R. Virdi, R. Barbers, Los Angeles, CA, p.A6496**
- P1061** **Changes in Lung Function and Forced Oscillatory Technique (FOT) Parameters Following Bronchial Thermoplasty (BT) in Patients with Refractory Asthma/C. Farah, D. Langton, P. Pierucci, A. Ing, Sydney, Australia, p.A6497**
- P1062** **Application Research on Asthma Phenotype Using Low Dose CT Scan and Quantitative Analysis/Q. Zhang, Z. Lai, T. Xia, X. Zhang, J. Xie, Y. Guan, Guangzhou City, China, p.A6498**
- P1063** **Residual Volume Correlated with Severity of Wheeze and Frequency of Inhaler Use in Patients with Persistent Asthma/F. Pais, S. Gullapalli, A. Rashidian, T. Tyner, B. Abejie, V. Jain, J. Vempilly, Fresno, CA, p.A6499**
- P1064** **Longitudinal Variation of Lung Function Considering FEV1's Best Performance During Long-Term Treatment of Severe Asthma/P.C.A. Almeida, A. Souza-Machado, E.V. Ponte, N. Scichilone, R. Stelmach, A.A. Cruz, Salvador, Brazil, p.A6500**

THEMATIC POSTER SESSION

C80-C IMAGING METHODOLOGY AND APPLICATION TO LUNG DISEASE**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area N, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** R.R. Rizi, PhD, Philadelphia, PA

- P1512** **Asynchrony in Respiratory Movements Between the Pulmonary Lobes of Patients with COPD: Continuous Measurement of Lung Density by Dynamic-Ventilation CT/T. Yamashiro, H. Moriya, M. Tsubakimoto, N. Tsuchiya, S. Murayama, Okinawa, Japan, p.A6501**
- P1513** **Reproducibility of Parametric Response Mapping at 30 Days/C.R. Hatt, A. Fernandez-Baldera, E.A. Hoffman, F.J. Martinez, C.J. Galban, M.K. Han, Minneapolis, MN, p.A6502**
- P1514** **Correcting Variability on Longitudinal Parametric Response Maps: SPIROMICS/A. Fernandez-Baldera, C.R. Hatt, E.A. Hoffman, F.J. Martinez, M.K. Han, C.J. Galban, Ann Arbor, MI, p.A6503**
- P1515** **CT Airway Dimensions and Emphysema Severity in Surrounding Parenchyma/B.A. Lutey, J.J. Atkinson, R.D. Yusen, R.M. Senior, D.S. Gierada, St. Louis, MO, p.A6504**
- P1516** **Short Term Repeatability of CT-Derived Pulmonary Airway and Density Measures: Role of Quality Control Measures in Assuring Measurement Reliability. SPIROMICS/A. Motahari, J.D. Newell, M.K. Han, E.R. Blecker, E.E. Carretta, D.J. Couper, N. Hansel, R.E. Kanner, E.A. Kazerooni, E. Kleerup, F.J. Martinez, S.I. Rennard, P.G. Woodruff, R.G. Barr, E.A. Hoffman, Iowa City, IA, p.A6505**
- P1517** **Effect of CT Reconstructed Field of View on Quantitative Airway Measurements/A. Motahari, J.P. Sieren, K.B. Russel, C. Wang, M. Saylor, J. Guo, M.K. Fuld, K.-S. Chan, J.C. Sieren, M.K. Han, E.A. Hoffman, Iowa City, IA, p.A6506**
- P1518** **Quantitative Measures of Emphysema Derived from Reduced Dose CT Protocols: Comparison with Higher Dose Protocol/S. Humphries, A. Notary, C.R. Hatt, M.K. Han, D.A. Lynch, Denver, CO, p.A6507**
- P1519** **The Cluster Analysis of Elastase-Induced Emphysema in Mice Using Micro-Computed Tomography (CT)/Y. Fuseya, A. Sato, S. Sato, K. Uemasu, K. Tanimura, K. Hasegawa, Y. Hamakawa, S. Muro, T. Hirai, Otsu, Japan, p.A6508**

Facilitator: J.C. Sieren, PhD, Iowa City, IA

- P1520** **Regional Comparison of Vascular Volume Measured on CT with Ventilation Defect Percent on Hyperpolarized Helium-3 MRI in Asthma/D. Mummy, F.N. Rahaghi, W. Zha, J. Ross, L.C. Denlinger, N.N. Jarjour, R. San Jose Estepar, G. Washko, S.B. Fain, Madison, WI, p.A6509**



- P1521 Quantitative Lung Morphology: Semiautomated Method of Mean Chord Length Measurements/G. Crowley, S. Kwon, S.H. Haider, E.J. Caraher, A. Nolan, New York, NY, p.A6510**
- P1522 Airway Wall Thickness Measured in Small Airways In Vivo Using Optical Coherence Tomography (OCT) in an Ovine Model/N.M. Dalesio, S.W. Yuan, J. Mavadia-Shukla, H. Park, X. Li, W. Mitzner, R.H. Brown, Baltimore, MD, p.A6511**
- P1523 Computer-Aided Lung Informatics for Pathology Evaluation and Rating (CALIPER) Based Quantification of Low-Attenuation Areas in Standard, Low and Ultralow Dose CT-Scans of Normal Volunteers/F. Foley, S. Rajagopalan, R. Karwoski, B. Bartholmai, T. Peikert, Rochester, MN, p.A6512**
- P1524 Comparing Quantitative ¹²⁹Xe Ventilation Analysis Pipelines Between MRI Centers/M. He, W. Zha, S.B. Fain, B. Driehuis, Durham, NC, p.A6513**
- P1525 Enhancing Lung Tumor Visibility Using In-Vivo Analyzer-Based X-Ray Phase Contrast Imaging in Mouse: A Feasibility Study/L. Fardin, L. Broche, J.-L. Coll, A. Larsson, S. Bayat, A. Bravin, Grenoble, France, p.A6514**
- P1526 Imaging Feature Reduction and Optimization: Refinement of a Lung Nodule Computer Aided Diagnosis Tool/J.M. Uthoff, S.K.N. Dilger, J.C. Sieren, Iowa City, IA, p.A6515**
- P1527 Development of A Lung Cancer Pig Model: Non-Invasive Characterization with Computed Tomography/E. Hammond, D.E. Quelle, M.H. Abou Alaiwa, K. Stark, M. Saylor, S. Hogue, F. Rohret, J.D. Newell, R.M. Sheehy, U.S. Shaik Amjad, D.K. Meyerholz, B.W. Darbro, C.S. Rogers, J.C. Sieren, Iowa City, IA, p.A6516**
- Facilitator:** M. Kirby, PhD, Vancouver, Canada
- P1528 18F-FDG PET/CT Plays a Valuable Role in Assessing Almost Cartilages and Detecting Early or Atypical Relapsing Polychondritis/J. Wang, X. Xie, Y. Zeng, Guangzhou, China, p.A6517**
- P1529 Ultrasound as a Noninvasive Tool to Diagnose Trapped Lung/B. Flora, S. Ahmad, Stony Brook, NY, p.A6518**
- P1530 Is Tracheomalacia A Dynamic Condition?/M. Nygaard, F. Rasmussen, E. Bendstrup, O. Hilberg, Aarhus, Denmark, p.A6519**
- P1531 Analysis of Radioaerosol Distribution from Pulmonary 2D Scintigraphy Using Anatomical 3D Information/L. Alcoforado, A. Dornelas De Andrade, J. Lopez Herraiz, S.C.S. Brandao, J. De Melo Barcelar, J.B. Fink, J.G. Venegas, Recife, Brazil, p.A6520**
- P1532 Temporally-Resolved Computed Tomographic (CT) Imaging to Assess Regional Parenchymal Strain During Oscillatory Ventilation/J. Herrmann, M.K. Fuld, E.A. Hoffman, D.W. Kaczka, Iowa City, IA, p.A6522**
- P1533 Spatial-Temporal Imaging of the Pulmonary Blood Flow Distribution Correlates with Severity of Pulmonary Arterial Hypertension/G.K. Prisk, A.R. Elliott, E.M. Bird, E.T. Geier, Y. Moon, N.H. Kim, S.R. Hopkins, La Jolla, CA, p.A6523**
- P1534 Five-Year MRI Study of Ventilation Heterogeneity in Asthmatics: Where Do the Defects Go?/R.L. Eddy, S. Svenningsen, D.G. McCormack, G. Parraga, London, Canada, p.A7681**

- P1535 Type of Emphysema, Airflow Obstruction and Lung Cancer Risk/J. Gonzalez, C. Henschke, D. Yankelevitz, A. Reeves, R. Yip, Y. Xie, M. Chung, P. Sanchez-Salcedo, J. De Torres, A.B. Alcaide, A. Campo, M.D.M. Ocon, J. Pueyo, G. Bastarrika, J. Zulueta, Pamplona, Spain, p.A7682**
- P1536 Visualization and Evaluation of Regional Treatment Response in Subjects with Asthma Using 19F MRI of Perfluorinated Gases Mixed with Oxygen and 1H MRI Using OeMRI/H.C. Charles, R. Baumgartner, M. Ainslie, J. Evelhoch, E. Boudreau, R.A. Railkar, A.F. Halaweish, R. Kennan, M. Kraft, D. Selverian, N. Lugogo, A. Struyk, N. MacIntyre, S. Yang, R.E. Moon, B. Soher, S. Womack, Durham, NC, p.A7683**

THEMATIC POSTER SESSION

C80-D SLEEP AND HEALTH POLICY

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area H, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: S.R. Patel, MD, Pittsburgh, PA
M.E. Billings, MD, MSc, Seattle, WA

- P841 Genome-Wide Estimate of African Ancestry Is Associated with Obstructive Sleep Apnea and Hypertension/B. Prasad, J. Pacheco, F. Lin, M. Smith, M.G. Hayes, Chicago, IL, p.A6524**
- P842 Critical Analysis of the Global Research Activity on Obstructive Sleep Apnea Syndrome/R.K. Seeger-Zybok, D. Klingelhoefer, D.A. Groneberg, Frankfurt am Main, Germany, p.A6525**
- P843 Wait Times from Diagnosis to Treatment of Obstructive Sleep Apnea in Ontario: A Population-Based Cohort Study/M. Povitz, T. Kendzerska, P.J. Hanly, K. Bray Jenkyn, B. Allen, C.F.P. George, S.Z. Shariff, London, Canada, p.A6526**
- P844 Profile of Continuous Positive Airway Pressure Treated Patients in Ontario, Canada, 2006-2013: A Population-Based Cohort Study/M. Povitz, T. Kendzerska, P.J. Hanly, K. Bray Jenkyn, B. Allen, C.F.P. George, S.Z. Shariff, London, Canada, p.A6527**
- P845 Conventional Polysomnography Is Not Necessary in Obstructive Sleep Apnea Syndrome Management/M.A. Sanchez Quiroga, J. Corral, C. Carmona Bernal, A. Sanchez Armengol, A. Sanchez De La Torre, F. Barbe, J. Duran Cantolla, C.J. Egea, N. Salord, C. Monasterio, J. Teran, M.L. Alonso Martinez, J. Munoz Mendez, E.M. Arias, M. Cabello, J.M. Montserrat, M. De La Pena, J.C. Serrano, J.F. Masa, Plasencia, Spain, p.A6528**
- P846 Multicentric Study About CPAP Access and Adherence in Sleep Apnea Patients from Different Latin-American Cities/F. Nogueira, S.D. Leiva Aguero, L.R.A. Bittencourt, J.L. Carrillo Alduenda, M.A. Bazurto, L. Serra Maggi, J. Rey De Castro, D. Perez-Chada, M. Valencia Flores, D. Poyares, Buenos Aires, Argentina, p.A6529**



P847 Sleep Disorders Among Medical Students in Romania/F. Mihaltan, D. Oana, C. Lorena, U. Ruxandra, Bucharest, Romania, p.A6530

Facilitators: I. Gurubhagavatula, MD, MPH, Philadelphia, PA
G.W. Pien, MD, MS, Baltimore, MD

P848 Smoking and Sleep Disordered Breathing in the Hispanic Community Health Study/Study of Latinos/O. Cohen, G.M. Strizich, A.R. Ramos, W.K. Wohlgenuth, P.C. Zee, K.J. Reid, R.C. Kaplan, N.A. Shah, New York, NY, p.A6531

P849 A Retrospective Study of OSA in Bariatric Surgery Population in a Single Chinese Hospital/J. Luo, D. Zhang, R. Huang, X. Zhong, Y. Xiao, Beijing, China, p.A6532

P850 Determinants of Snoring Among First Nations People in Two Saskatchewan Reserve Communities/J. Dosman, S. Abonyi, C. Karunanayake, D.C. Rennie, S. Kirychuk, J.A. Lawson, M. Fenton, P.J. Gardip, J. MacDonald, P. Pahwa, Saskatoon, Canada, p.A6533

P851 Prevalence and Determinants of High Risk of Obstructive Sleep Apnea in HIV-infected Subjects Naive to Antiretroviral Therapy/E.W. Pefura Yone, A.D. Balkissou, E. Ngah-Komo, C. Kuaban, A. Njamnshi, Yaounde, Cameroon, p.A6534

P852 Usefulness of a 5-Item Scale to Assess Sleep Health Status: Results of the Catalan Health Survey 2015/J. De Batlle, I.D. Benitez, M. Dalmasas, A. Mas, O. Garcia-Codina, A. Medina-Bustos, J. Escarrabill, E. Salto, M. Sanchez-de-la-Torre, F. Barbe, Lleida, Spain, p.A6535

P853 Maternal Sleep Disordered Breathing Potentially Fatal for the Fetus/D. Banerjee, E. Adodoadi, T. Sequeira, B. Hott, G. Bourjeily, Providence, RI, p.A6536

THEMATIC POSTER SESSION

C80-E ADHERENCE TO OSA THERAPY: THE ACHILLES HEEL?

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area H, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitators: J. Bakker, PhD, Boston, MA
C. Chai-Coetzer, MBBS, PhD, Adelaide, Australia

P855 Digital Sleep Medicine Application Use in Seniors and Best Agers (DAUS)/N.C. Netzer, S. Ancoli-Israel, H. Frohnhofen, H. Danker-Hopfe, F. Raschke, R. Popp, S. Pramschler, Innsbruck, Austria, p.A6537

P856 What Moves Women with Snoring and Sleep Apnea? - Finding the Right Questions for Quality of Life (QoL) Assessment in Female SDB Patients/N.C. Netzer, R. Popp, S. Meinel, R. Grahmann, K.H. Ruhle, K.P. Strohl, M. Kopp, D. Riemann, Innsbruck, Austria, p.A6538

P857 Adherence Predictors of Active and Sham Continuous Positive Airway Pressure in a Randomized Controlled Trial/A.M. May, T. Gharibeh, K.P. Strohl, J. Bena, L. Wang, A. Hurley, R. Mehra, Cleveland, OH, p.A6539

P858 Management of CPAP Treatment Compliance Using Telemonitoring in Obstructive Sleep Apnoea/C. Turino, J. De Batlle, H. Woehrle, A. Mayoral, A. Castro, S. Gomez, M. Dalmasas, M. Sanchez-de-la-Torre, F. Barbe, Lleida, Spain, p.A6540

P859 A Randomized Trial Demonstrating the Feasibility of a Group-Based Peer-Support Intervention for Maximizing CPAP Adherence/J.P. Bakker, M. Cailler, N. Khan, M. Hanson, A. Kirkpatrick, K.A. Dudley, S.R. Patel, Boston, MA, p.A6541

P860 APAP Usefulness in the Management of Patients with Obstructive Sleep Apnea/S. Juarros, M. Del Olmo, I. Munoz, B. De Vega, I. Lobato, E. Macias, D. Vielba, I. Ramos, B. Carton, C. Disdier, Valladolid, Spain, p.A6542

Facilitators: K.A. Dudley, MD, MPH, Boston, MA
A.M. Neill, MBChB, MD, Wellington, New Zealand

P861 Predictors of Long-Term Adherence to Auto-Titrating Positive Airway Pressure Therapy in Coronary Artery Disease Patients with Non-Sleepy and Sleepy Obstructive Sleep Apnea/F.S. Luyster, P.J. Strollo, E. Thunstrom, Y. Peker, Pittsburgh, PA, p.A6543

P862 Video Education to Improve CPAP Adherence (Sleep Apnea Video Education for CPAP or SAVE-CPAP Study): A Randomized Controlled Trial/A.S. Guralnick, J.S. Balachandran, S. Szutenbach, K. Adley, L. Emami, M. Mohammadi, J.M. Farnan, V. Arora, B. Mokhlesi, Chicago, IL, p.A6544

P863 Predictors of Adaptive Servo-Ventilation Short and Long Term Adherence in Heart Failure Patients with Obstructive and Central Sleep Apnea in the ADVENT-HF Trial/E. Perger, O.D. Lyons, T. Inami, S. Smith, J.S. Floras, A.G. Logan, T.D. Bradley, Toronto, Canada, p.A6545

P864 Influence of a Real Time Feedback Patient Engagement Tool on Adherence to Positive Airway Pressure Therapy: Analysis of Big Data from a German Homecare Provider/H. Woehrle, M. Arzt, A. Graml, I. Fietze, P. Young, H. Teschler, J.H. Ficker, Blaubeuren, Germany, p.A6546

P865 Quality of Life Challenges in Sleep Apnea - Experience of Sleep Laboratory from Cluj-Napoca, Romania/D.A. Todea, A.C. Coman, Cluj Napoca, Romania, p.A6547

P866 High Health Literacy Demands of Patient Education Materials for Obstructive Sleep Apnea/K.A. Dudley, A. Rovnak, S.M. Bertisch, J.P. Bakker, S.R. Patel, Boston, MA, p.A6548

P867 An Intensive Multidisciplinary Protocol for Improving Adherence to CPAP Therapy in Stroke Patients/H. Barnett, M.E. Billings, A. Davis, A. Kunze, D. Crane, A. Bunnell, D. Li Lue, B. Thomazin, B. McCann, C. Bombardier, K. Becker, W.T. Longstreth, Jr., N. Watson, S. Khot, Seattle, WA, p.A6550

P868 Impact of Automatic Positive Airway Pressure on Treatment Compliance in Obstructive Sleep Apnea Patients Awaiting Bariatric Surgery/S. Kermelly, F. Series, M.-E. Boucher, J. Bussieres, Quebec, Canada, p.A6551



- P869** Positive Airway Pressure adherence in Patients with Obstructive Sleep Apnea with Schizophrenia compared to matched controls/M. Saoud, M. Saeed, R. Metta, J. Mador, Buffalo, NY, p.A6552
- P870** Performance of Adherence in the First 6 Months CPAP Use Associated with Anthropometric Variables, Type of Interface, Level Pressure, Comorbidities in Patients with OSA Belonging to the National OSA Program in the National Chest Institute/J.I. Marmolejo, R. Gutierrez, A. Cisternas, L. Soto, J.L. Molina, Santiago, Chile, p.A6553

THEMATIC POSTER SESSION

C80-F MANAGEMENT OF SLEEP DISORDERED BREATHING**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area H, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitators:** S. Patil, MD, Baltimore, MD
R.J. Kimoff, MD, Montreal, Canada/
S. Sinha, MD, New Delhi, India/
M. Macrea, MD, MPH, PhD, Salem, VA

- P874** Obstructive Sleep Apnea Knowledge and Attitudes Among Recent Medical Graduates Training and Practicing Physicians in Latin America/E. Calero, J.C. Calderon, A. Fernandez, A. Cherrez, I. Santoro, I. Cherrez Ojeda, Guayaquil, Ecuador, p.A6555
- P875** Use of the STOP-Bang Questionnaire Predicts Higher Complication Rate in Patients with Major Comorbidities and High Operative Risk Undergoing Major Surgery at a Tertiary Level Pre-Admission Clinic/A.-M. Wong, M. Wang, D. Garner, C. Nicholls, S. Abourizk, G. Hamilton, D. Mansfield, Clayton, Australia, p.A6556
- P876** Upper Airway Stimulation Withdrawal Reduced Oxygen Saturation in Obstructive Sleep Apnea/W.M. Anderson, K. Calero, K. Lee, J. Zhu, Q. Ni, K.P. Strohl, P.J. Strollo, Tampa, FL, p.A6557
- P877** The Evaluation of the Astral iVAPS AutoEPAP Treatment Algorithm/L. Wolfe, G.J. Criner, P. DeYoung, R. Owens, K.M. Sundar, S. Tsai, A. Benjafield, M.E. Crocker, L. Willes, A. Malhotra, Chicago, IL, p.A6558
- P878** Changes in Body Mass Index and Automatic Continuous Positive Airway Pressure Requirements in Obstructive Sleep Apnea: A Retrospective Longitudinal Analysis/E. Charbek, R. Farhat, P. Dettenmeier, J. Espiritu, St. Louis, MO, p.A6559
- P879** Three-Month Adherence to Positive Airway Pressure Therapy for Treatment of Obstructive Sleep Apnea (OSA) in Patients Undergoing Ambulatory Versus in-Lab Pathways of Care. Results from a Rural Tertiary Care Academic Center/A. Alhaddad, R.C. Stansbury, B. Weaver, Morgantown, WV, p.A6560

- P880** Indications for Adaptive Servoventilation Therapy in Cardiac Patients After SERVE-HF/O. Oldenburg, T. Bitter, H. Fox, D. Horstkotte, Bad Oeynhausen, Germany, p.A6561
- P881** Primary Care and Sleep Center Integration: Preliminary Data in a Clinical Pathway in Respiratory Sleep Disorders/J. Signes-Costa, M.P. Banuls, D. Matoses, J. Navarro, P.C. Lizarzabal, J. Tarraso, E. Servera, Valencia, Spain, p.A6562
- P882** Management of Patients with Suspected Obstructive Sleep Apnea (OSA) in Primary Care (PC) Compared to Sleep Unit (SU): A Non-Inferiority Randomized Controlled Trial/N. Tarraubella, N. Nadal, J. De Batlle, I.D. Benitez, A. Cortijo, M.C. Urgeles, V. Sanchez, I. Lorente, M. Lavega, A. Fuentes, J. Clotet, L. Llor, L. Vilo, C. Juni, A. Juarez, M. Gracia, A. Castro, L. Pascual, O. Minguez, J.F. Masa, M. Sanchez-de-la-Torre, F. Barbe, Lleida, Spain, p.A6563
- P883** Effects of Humidified and Non-Humidified Nasal CPAP on Development of Nasal Symptoms and Subjects Comfort Level: A Preliminary Study/J.S. Alqahtani, P. Worsley, D. Voegeli, Dammam, Saudi Arabia, p.A6564
- P884** The Role of Noninvasive Ventilation (NIV) with Humidification in the Development of Facial Pressure Ulcers/J.S. Alqahtani, P. Worsley, D. Voegeli, Dammam, Saudi Arabia, p.A6565

THEMATIC POSTER SESSION

C80-G THORACIC ONCOLOGY CASE REPORTS I**9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Area C, Hall B-C (Middle Building, Lower Level)****Viewing:** Posters will be on display for entire session.**Discussion:** 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators**Facilitator:** J.A. Akulian, MD, MPH, Chapel Hill, NC

- P193** Bilateral Multiple Sclerosing Hemangioma: A Clinical and Imagistic Diagnostic Challenge/D.E. Giza, C. Iliescu, N. Kalhor, M. Antonoff, G. Iliescu, Houston, TX, p.A6566
- P194** Incidental Thyroid Cancer Found Post Pneumonectomy for Lung Adenocarcinoma: A Case Report/C. Zambrano, K. Zakharov, M. Bannan, I. Chernyavskiy, M. Vaynblat, Brooklyn, NY, p.A6567
- P195** Spontaneous Renal Hemorrhage: A Rare Presentation of Post-Partum Metastatic Choriocarcinoma/O. Rahman, A.A.E. Sheikh, R. Kapoor, J. Ullman, Indianapolis, IN, p.A6568
- P196** A Rare Case of Papillary Endobronchial Squamous Cell Carcinoma/F. Afridi, B. Pellini Ferreira, E. Geigel, Orlando, FL, p.A6569
- P197** Pulmonary Gestational Choriocarcinoma: A Rare Lung Cancer Doppelganger/M. Fingerhood, J. Saab, R. Lee, New York, NY, p.A6570
- P198** Unusual Case of Malignant Mesothelioma/U. Ibe, N. Jiwa, K. Patel, H.H. Zhang, Waterbury, CT, p.A6571



- P199** **Enchondroma Protuberans Presenting as a Lung Mass**/B. Jalil, N. Maniar, K. El-Kersh, Louisville, KY, p.A6572
- P200** **Mammogram Leading to Diagnosis of Lung Neoplasm**/J.A. Patel, Urbana, IL, p.A6573
- P201** **An Unusual Presentation of a Common Disease: Lung Cancer Presenting as Persistent Eye Pain**/B. Bhattarai, S. Kanter, R. Boumendjel, K.L. Kovitz, N. Desai, Elk Grove Village, IL, p.A6574
- P202** **Typical Presentation of Atypical Disease: A Case of Angio-Immunoblastic Lymphoma**/A. Mohanty, S. Satpathi, M. Majhi, P.K. Sahu, P. Kiran, S. Chattopadhyay, D. Yarra, S. Kumar, Rourkela, India, p.A6575

Facilitator: N.A. Ninan, MD, New Orleans, LA

- P203** **Multiple Malignant Tracheal Papillomatosis**/M. Ray, S.B. Bartsch, Spokane, WA, p.A6576
- P204** **Metastatic Basal Cell Cancer to the Lungs**/J.M. Segraves, E.S. Edell, Rochester, MN, p.A6577
- P205** **A Diagnostic Dilemma: Metastatic Pancreatic Adenocarcinoma Mimicking Organizing Pneumonia**/A. Chauhan, C. Monterroso, D.A. Gerardi, Farmington, CT, p.A6578
- P206** **Primary Pulmonary Intravascular Large B-Cell Lymphoma: A Report of Three Cases and Literature Review**/Y. Zhang, L. Bi, Y. Qiu, M. Cao, H. Cai, Nanjing, China, p.A6579
- P207** **Bronchus Associated Lymph Tissue (BALT) Lymphoma Masquerading as Pneumonia**/T. Chandak, M. Jacob, Pittsfield, MA, p.A6580
- P208** **Unusual Presentation of Endobronchial Leiomyoma**/H. Laharwani, C. Castaneda, J. Mann, Flushing, NY, p.A6581
- P209** **Incidental Finding of Basaloid Squamous Cell Carcinoma of the Thymus During Nuclear Stress Test Using Technetium (99mTc) Sestamibi**/A. Obagi, S. Ghetiya, M. Carson, L. Berger, Neptune, NJ, p.A6582
- P210** **Tumor Heterogeneity in Lung Cancer: How High Should Your Suspicion Be?**/N. Ramesh, J. Paralkar, B. Levy, A. Miller, New York, NY, p.A6583
- P211** **The Search Is On: Lung Adenocarcinoma Presenting as a Primary Orbital Metastatic Lesion**/T. Thakur, D. Sese, O.T. Owusu, Akron, OH, p.A6584

Facilitator: G. Garrison, MD, Burlington, VT

- P212** **Sarcomatoid Carcinoma of Lung Presenting as Localised Bronchiectasis**/A.H. Siddiqui, K. Rajdev, F. Siddiqui, H. El-Hage, M. Chalhoub, Staten Island, NY, p.A6585
- P213** **Diagnosing B-Cell Lymphoma by Immunoglobulin Gene Rearrangement in Patients with Negative Flow Cytometry**/V. Pathak, C. Quinn, Raleigh, NC, p.A6586
- P214** **Large Cell Neuroendocrine Tumor with a Component of Giant Cell Carcinoma: A Rare Case of Non Small Cell Lung Cancer**/P. Catella, S. Wiesel, D. EL-Sayegh, Staten Island, NY, p.A6587
- P215** **A Rare Case of Cutaneous Melanoma Recurring After 15 Years as a Solitary Pulmonary Nodule**/S. Wiesel, P. Catella, A. Abou Yassine, D. EL-Sayegh, Staten Island, NY, p.A6588

- P216** **Malignant Mesothelioma Masquerading as a Breast Mass**/J. Yang, I. Britton, R. Sell, L.E. Crotty Alexander, San Diego, CA, p.A6589
- P217** **A Case of Massive Thymic Neuroendocrine Tumor**/M.A. Shenoy, P. Soni, A. Rai, P. Irukulla, P. Chandar, E. Mintz, J. Shaw, Brooklyn, NY, p.A6590
- P218** **Primary Pulmonary Synovial Sarcoma: A Rare Malignancy**/V. Jayaschandran, S. Gjorgova-Gjeorgjievski, A. Atodaria, P. Christensen, Royal Oak, MI, p.A6591
- P219** **Primary Pulmonary Diffuse Large B-Cell Lymphoma Mimicking Cannon Ball Metastases**/A. Qasrawi, M. Abu Omar, M. Abu Ghanimeh, A. Qasem, Kansas City, MO, p.A6592
- P220** **Interdigitating Dendritic Cell Sarcoma Presenting as Solitary Pulmonary Nodule**/R.A. Leonard, N. Habib-Bein, A.K. Liman, P. Jain, Morgantown, WV, p.A6593

Facilitator: H. Mehta, MD, Gainesville, FL

- P221** **Sensory Neuropathy Related to ANNA-1 Antibody-Positive Small Cell Lung Cancer**/W. Tseng, T.J.K. Vossler, S. Kim, Portland, OR, p.A6594
- P222** **Primary Cardiac Sarcoma Presenting as Pulmonary Embolism**/E. Badday, S. Shirvanian, Los Angeles, CA, p.A6595
- P223** **A Case of Metastatic Solitary Fibrous Tumor of the Lung**/B. Nokes, R. Cartin-Ceba, Phoenix, AZ, p.A6596
- P224** **An Unusual Cause of Lung Mass**/C.L. Meshberger, E. Calvo Ayala, M. McLaughlin, Norfolk, VA, p.A6597
- P225** **Metastatic Bronchopulmonary Leiomyosarcoma: A Rare Progression of Benign Disease**/N. Miller, A. Garbarino, D. Folt, J. Jennings, Detroit, MI, p.A6598
- P226** **Unusual Radiographic Appearance of Advanced Lung Adenocarcinoma**/I. Milojevic, N. Skorupan, R. Khosla, J. Ahari, Washington, DC, p.A6599
- P227** **Differentiating Post-Stereotactic Body Radiation Therapy (SBRT) Radiation Changes from Local Recurrence: The Need for Better Decision Guidelines During Follow Up of Non-Small Cell Lung Cancer**/B. Newman, R. Shah, E. Weiss, Richmond, VA, p.A6600
- P228** **Kaposi's Sarcoma Masquerading as Pneumonia**/T. Karawadia, M. Anne, M. Carson, Neptune, NJ, p.A6601
- P229** **Microscopic Tumor Emboli: A Rare Case of Hypoxemia**/K.S.S. Kakkera, A. Chada, K. Chatterjee, M. Joshi, Little Rock, AR, p.A6602

THEMATIC POSTER SESSION

C80-H THORACIC ONCOLOGY CASE REPORTS II

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area C, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators



Facilitator: A.A. Balekian, MD, MS, Los Angeles, CA

- P231 The Fourth Biopsy Is the Charm/K.** Wickstrom, H. Ateeli, D. L'Heureux, Tucson, AZ, p.A6603
- P232 Undiagnosed Lung Cancer Presenting with Pulmonary Hypertension Resulting in Hemodynamic Collapse/C.** Trautman, C.D. Burger, P. Lowman, E. Festic, Jacksonville, FL, p.A6604
- P233 Lung Mass - Is It Really Cancer? Primary Epidermoid Tumor of Lung/S.** Rabbani, A. Raval, D. Raval, Stratford, NJ, p.A6605
- P234 HPV Associated Squamous Cell Carcinoma of Lung Presenting As CHF/B.P.** Garriga, A. Mehta, D. Haynes, Jackson, MS, p.A6606
- P235 The Coughing that Lead to the Coffin/K.** Mathew, K. Buch, Lexington, KY, p.A6607
- P236 Mucoepidermoid Carcinoma Presenting as an Endobronchial Lesion/E.** Cristan, H. Ateeli, S. Chaudhary, Tucson, AZ, p.A6608
- P237 Extranodal Hodgkin Lymphoma Relapse with Bilateral Cavitary Lung Nodules and Endobronchial Involvement/S.** Popper, D. Sue, Torrance, CA, p.A6609
- P238 "All that Wheezes Is Not Asthma": A Case of Primary Adenoid Cystic Carcinoma of the Trachea/M.J.** Calder, E.S. Rains, T.J. Meyer, Wynnewood, PA, p.A6610
- P239 Pulmonary Metastatic Leiomyosarcoma: TS-1 New Therapeutic Approach/A.S.** Nat, D. Upadhyay, Fresno, CA, p.A6611
- P240 A Rare Malignancy in an Active Smoker/G.** Lin, J. Wehner, V. Mohindra, San Jose, CA, p.A6612

Facilitator: T. Vandemoortele, MD, Montreal, Canada

- P241 Syndrome of Inappropriate Secretion of ADH (SIADH)- an Unusual Initial Presentation of Non Small Cell Lung Cancer/P.** Iyer, M. Ibrahim, A. Dirweesh, M.K. Zaman, Memphis, TN, p.A6613
- P242 Primary Germ Cell Tumor Presenting as Anterior Mediastinal Mass - a Rare Entity!/T.** Kukkadapu, S. Gupta, M. Wallace, C. Forseen, J. Keshavamurthy, Augusta, GA, p.A6614
- P243 9-Year Long-Term Survival of an Advanced Lung Adenocarcinoma Patient Treated with Multicycles Endostar/Z.** Qian, W. Zhang, W. Wang, J. Shen, Q. Li, L. Ni, G. Shi, B. Gao, Y. Xiang, Shanghai, China, p.A6615
- P244 Adenoid Cystic Carcinoma: The Uncommonly Common Primary Tracheal Tumor/E.J.** Conuel, L. McCarthy, K. Neu, Albany, NY, p.A6616
- P245 A Rare Case of an Endobronchial Lesion: Adenoid Cystic Carcinoma/F.A.** Youssef, L. Kim, S. Benavides, A. Abolhoda, B. Saatian, F. Mazdisnian, Long Beach, CA, p.A6617
- P246 Just Scratching the Surface/R.A.** Estrada, T. Simpson, San Antonio, TX, p.A6618
- P247 Pulmonary Adenofibroma: A Rare Benign Lung Lesion/P.T.** Ngo, M. Elsayaf, Neptune, NJ, p.A6619
- P248 Solitary Fibrous Tumor of the Pleura Presenting as Weight Loss and Abdominal Pain: A Rare Presentation of a Rare Tumor/J.M.** Chowdhury, B. Lindgren, M. Kosa, V. Sheth, M. Korman, Darby, PA, p.A6620

- P249 Spontaneous Tumor Lysis Syndrome and Acute Cholecystitis-Like Picture as Initial Presentation of Small Cell Lung Carcinoma/A.** Qasrawi, T. Asif, O. Abughanimeh, R. Gaur, Kansas City, MO, p.A6621

- P250 Pulmonary Leiomyosarcoma: A Rare Occurrence/V.** Gandhi, A. Fasanya, M. Hewston, M.L. Torres, T. Cheema, Pittsburgh, PA, p.A6622

Facilitator: C. Anderlind, MD, Boston, MA

- P251 A Rare Pleural Pearl/R.** Zulfikar, S. Hadique, B. Erdreich, Morgantown, WV, p.A6623
- P252 Endobronchial Malignancy Masquerading as Obstructive Lung Disease/N.** Raya, S. Javidiparsijani, S.J. Quinn, M. Vashi, R. Tandon, Chicago, IL, p.A6624
- P253 Fatal Pulmonary Kaposi Sarcoma in an AIDS Patient/A.** Riehani, O. Albanyan, W.M. Odeh, S. Rayamajhi, East Lansing, MI, p.A6625
- P254 A Case Report of Widespread Bilateral Recurrence of Lung Adenocarcinoma After Complete Resection/K.** Lipatov, J.F. Sanchez, Temple, TX, p.A6626
- P255 An Unusual Recurrence of Remote Cutaneous Malignant Melanoma as Metastatic Endobronchial Melanoma/M.** Nagori, V. Krishnan, Cleveland, OH, p.A6627
- P256 Mucoepidermoid Carcinoma of the Lung: A Case Report/A.** Navasakulpong, Hatyai, Thailand, p.A6628
- P257 A Rare Case of Small Cell Lung Cancer (SCLC) Presenting as an Endobronchial Lesion/M.** Young, H. Arshad, R. Adurty, Pittsburgh, PA, p.A6629
- P259 An Unusual Case of Solitary Pulmonary Nodule in a Patient with History of Epithelial Ovarian Cancer/R.** El-Yafawi, J. Yahwak, Portland, ME, p.A6631
- P260 Giant Pulmonary Hamartoma: Serial Imaging of a Rapidly Growing Central Pulmonary Mass/E.S.** Josan, N.K. Bentley, T. Roy, Johnson City, TN, p.A6632

Facilitator: T. Kubota, MD, PhD, Nankoku City, Japan

- P261 The First Case of Primary Pulmonary Choriocarcinoma Reported from East Africa/D.** Kebede, T. Haile, T. Damtew, A. Bekele, M. O'Donnell, C.B. Sherman, Addis Ababa, Ethiopia, p.A6633
- P262 Hemangiopericytoma Masquerading as a Cardiac Murmur/S.** Saha, K. Leung, S. Labana, N. Battista, D. Lincoln, K. Shah, A. Braunstein, M. Kraut, W. Farra, Southfield, MI, p.A6634
- P263 Anesthesia Challenges Facing Giant Mediastinal Mass/J.C.** Mora, S. Chhangani, Jacksonville, FL, p.A6635
- P264 A Rare Case of Papillary Carcinoid Tumor of the Lung/S.** Pandey, D. Wilson, A.P. Maskey, Lexington, KY, p.A6636
- P265 A Case Report of a Malignant Solitary Fibrous Tumor of the Pleura with Recurrence/T.** Kaiser, A.S. Magge, J. Goralnik, O. Ibrahim, Farmington, CT, p.A6637
- P266 Abdominal Pain and Malignant Melanoma Pleural Effusion/A.** Olson, C. Harden, A. Ataya, C. Trillo, Gainesville, FL, p.A6638



- P267** **Rare Case of Primary Pleural Primitive Neuroectodermal Tumour in an Adult Presenting as Hemothorax/L.V.**
Mirchandani, M. Bhide, H. Sai, Mumbai, India, p.A6639
- P268** **Liquid Biopsy EGFR Mutation for Early Detection of Lung Cancer/S.** Saenghirunvattana, R. Bechara, V. Pitiguagool, C. Saenghirunvattana, C. Gonzales, K. Suthisri, C. Siangproh, Bangkok, Thailand, p.A6640
- P269** **Primary Lung Cancer Presenting As Melena. Small Cell Lung Cancer with Duodenal Metastasis/H.** Al-Azzawi, H. Abdin, T. Zaza, Houston, TX, p.A6641

THEMATIC POSTER SESSION

C80-I THORACIC ONCOLOGY CASE REPORTS III

9:15 a.m. - 4:15 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Area C, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: G.E. Holt, MD, PhD, Miami, FL

- P271** **Pulmonary Artery Pseudoaneurysm Following Stereotactic Body Radiation Therapy/R.** Sabir, M. Umar, A. Khan, P. Gurung, Springfield, MA, p.A6642
- P272** **Pulmonary Crystal-Storing Histiocytosis: A Case Report/A.** Zaied, I. Mira-Avendano, A. Koor, Jacksonville, FL, p.A6643
- P273** **Therapeutic Treatment of High-Grade Squamous Dysplasia of the Airway with Spray Cryotherapy/D.W.** Yaffee, H. Pass, M. Zervos, C. Bizakis, New York, NY, p.A6644
- P274** **Granular Cell Tumor Causing Right Middle Lobe Atelectasis and Recurrent Pneumonia/E.O.** Ortiz-Diaz, M. Olibrice Saint-Fleur, R. Riar, R. Ayinla, M. Landa, New York, NY, p.A6645
- P275** **Non-Cutaneous Solitary Pleural Based Primary Pulmonary Malignant Melanoma/A.** Rasheed, L. Gerolemou, V. Vasudevan, M. Shahzadi, Z. Hashemi, H. Upadhyay, F. Arjomand, Brooklyn, NY, p.A6646
- P276** **A Tough NUT to Crack/S.** Baig, E. Len, O. Pistun, New Brunswick, NJ, p.A6647
- P277** **Minute Pulmonary Meningothelial Like Pulmonary Nodules/H.** Storer, E. Josan, A. El-Abbassi, E.T. Nader, Johnson City, TN, p.A6648
- P278** **Lung Adenocarcinoma Presenting as Visual Symptoms/N.A.** Khan, A. Jawad, R. Kotloff, Cleveland, OH, p.A6649
- P279** **Use of EBUS-TBNA in the Diagnosis of Primary Pulmonary Artery Sarcoma/N.A.** Khan, A. Jawad, J. Cienia, G.A. Heresi, Cleveland, OH, p.A6650
- P280** **Not All that Wheezes Is Asthma/C.** Onofrei, A. Rose, Indianapolis, IN, p.A6651

Facilitator: J. Wang Memoli, MD, Washington, DC

- P281** **The Silent Giant: A Rare Case of a Pleural Hemangiopericytoma/S.** Gorgis, P. Sen, J. Jennings, Detroit, MI, p.A6652
- P282** **Contralateral Recurrence of Inflammatory Myofibroblastic Tumour of the Lung Ten Years After Pneumonectomy/D.C.** Vis, G. Gelfand, M. Kelly, A. Lee, K.A. Johansson, Calgary, Canada, p.A6653
- P283** **Paraneoplastic Hypoglycemia and Paraneoplastic Cerebellar Degeneration with a Solitary Fibrous Tumor- A Case Report/A.** Karki, J. Yang, S. Chauhan, C. Thurm, J. Morante, Jamaica, NY, p.A6654
- P284** **Go for GOLD: Leukemic Bronchopulmonary Infiltrates as a Cause of Reversible Obstructive Lung Disease/A.** Agrawal, S. Koenig, S. Khanijo, New Hyde Park, NY, p.A6655
- P285** **Endobronchial Granular Cell Tumor: A Rare, Can't-Miss Diagnosis/L.L.** Seijo, M.F. Siddiqi, E. Bondarsky, A. Adams, New York, NY, p.A6656
- P286** **Dyspnea, Hypoxia, Chest Pain, and Sub-Pleural Cavitory Lesions/C.** Gasho, D.T. Moretta, L. Tan, Loma Linda, CA, p.A6657
- P287** **Needle Tract Recurrence After CT-Guided Lung Biopsy: A Report of a Case in an Adjacent Lobe/A.** Attili, J. Shaw, E. Mintz, Brooklyn, NY, p.A6658
- P288** **A Rare Case of Metastatic Pulmonary Osteosarcoma in Association with Non-Malignant Pleural and Pericardial Effusion/R.** Mishra, B. Bajantri, M. Biyyam, R. Duncalf, M. Adrish, Bronx, NY, p.A6659
- P289** **An Atypical Case of Typical Carcinoid/J.** Dorsch, J. Galvin, A. Burke, E.M. Pickering, W. Burrows, A. Sachdeva, Baltimore, MD, p.A6660
- P290** **Not All FDG-Avid Lymph Nodes Are Malignant: A Case of Sarcoid-Like Reaction Associated with NSCLC/A.S.** Jhand, V. Mehta, Z.S. DePew, Omaha, NE, p.A6661

Facilitator: J. Deepak, MD, MBBS, Baltimore, MD

- P291** **A Very Rare Case of Multifocal Endobronchial Diffuse B-Cell Lymphoma/B.** Balakrishnan, R. Swarup, Ypsilanti, MI, p.A6662
- P292** **Primary Pulmonary Melanoma with Rapid Progression/H.** Belete, B. Husta, D.I. Zapata, M.N. Oron, New York, NY, p.A6663
- P293** **The Nonresolving Pneumonia: A Rare Case of Multiple Myeloma with Extramedullary Plasmacytoma/R.** Postelnicu, J.L. Denson, V. Mukherjee, New York, NY, p.A6664
- P294** **Diarrhea and Flushing After Endobronchial Mass Biopsy: An Unusual Clue Toward Diagnosis/D.** Smith, D. Grider, S. Ie, A. Loschner, Roanoke, VA, p.A6665
- P295** **One Room, Two Occupants: They Both Don't Have to Be Related!/U.** Chaddha, P. Patil, N. Thawani, N. Ahmad, R. Walia, A.C. Mehta, T. Panchabhai, Los Angeles, CA, p.A6666
- P296** **Don't Miss the Bus: It May Not Come Around Again/U.** Chaddha, D. Maehara, B. Yaghmour, Los Angeles, CA, p.A6667



- P297** Complete Remission by Radiotherapy Alone of Tracheal Squamous Cell Carcinoma Emerging 25 Years After Curative Resection for Lung Adenocarcinoma/T. Uno, K. Sato, Niigata-City, Japan, p.A6668
- P298** A Case of Recurrent Respiratory Papillomatosis Transformation to Metastatic Squamous Cell Carcinoma of the Lung/O. Bohn, F. Zamora, J. Leatherman, Minneapolis, MN, p.A6669
- P299** Pleural Effusion as Unusual Presentation of Chronic Lymphocytic Leukemia/E. Alkhankan, M. Al Dliw, H. Al Krad, H. Aswad, F. Alkhankan, Huntington, WV, p.A6670
- P300** Is Inflammatory Myo-Fibroblastic Tumor a Cancer or an Infection?: A Case Report and Review of Literature/K.P. Joshi, U. Kaphle, M. Steliga, T. Bartter, P. Priyambada, S. Jiwani, Little Rock, AR, p.A6671

Facilitator: R. Kumar, MD, Philadelphia, PA

- P301** Atypical Carcinoid Originating in the Bronchus and Accompanied by Diffuse Idiopathic Pulmonary Neuroendocrine Cell Hyperplasia: A Case Report/K. Takegahara, N. Yoshino, J. Usuda, Tokyo, Japan, p.A6672
- P302** Malignant Pleural Mesothelioma with a Gelatinous Course/M. Kaous, S. Faiz, Houston, TX, p.A6673
- P303** Lung Cancer Development in the Patient with Granulomatosis with Polyangiitis During Long Term Treatment with Cyclophosphamide: First Documented Case/M. Toriyama, E. Tagaya, A. Sato, K. Arimura, M. Kondo, J. Tamaoki, Tokyo, Japan, p.A6674
- P304** What Lies Beneath: Squamous Cell Carcinoma Masquerading as Interstitial Lung Disease/E. Schuiteman, E. Otoupalova, W.B. Fields, Royal Oak, MI, p.A6675
- P305** False Positive Human Immunodeficiency Virus Antibody Test in a Patient with Mediastinal Hodgkin Lymphoma/A. Dirweesh, A. Amodu, S. Bukhari, Trenton, NJ, p.A6676
- P306** Spontaneous Tumour Lysis Syndrome (TLS) in Small Cell Lung Cancer/V. Kanchustambham, S. Saladi, D. Stoeckel, E. Rakey, St. Louis, MO, p.A6677
- P307** A Rare Case of Non-Small Cell Carcinoma Metastatic to Colonic Polyp Presenting with Life-Threatening Lower Gastrointestinal Bleed/I. Shahoub, N. Munn, M. Gusack, Huntington, WV, p.A6678
- P308** Primary Pulmonary Non-Hodgkin's Lymphoma: Expanding the Ground-Glass Opacification Differential/J.T. Moyers, Portland, OR, p.A6679
- P309** Spontaneous Pneumothorax Secondary to Ruptured Cavitary Lung Mass: An Initial Manifestation of Invasive Squamous Cell Lung Cancer/A. Niroula, M.R. Sanchez, A. Quintos, A. Vasudevan, G. Murali, Philadelphia, PA, p.A6680
- P310** A Rare Presentation of a Synchronous Adenocarcinoma of the Lung with Non-Hodgkin's Lymphoma/K. Patel, Chicago, IL, p.A6681

THEMATIC POSTER SESSION

C80-J THORACIC ONCOLOGY CASE REPORTS IV

9:15 a.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Area C, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion: 11:15-12:00: authors will be present for individual discussion
12:00-1:00: authors will be present for discussion with assigned facilitators

Facilitator: J. Toth, MD, Hershey, PA

- P312** Synchronous Pulmonary MALT Lymphoma and Cryptosporidium Infection: Coincidence or Causal Connection?/M. Kalani, S. Alhassan, T. Cheema, Pittsburgh, PA, p.A6682
- P313** A Case of Chylothorax and Chylous Ascitis in an AIDS Patient with Kaposi's Sarcoma/A. El-bakush, M.G. Al-Janabi, S.N. Chalise, V. Ramsammy, Greenville, NC, p.A6683
- P314** Fast and Unexpected Spread of a Slow Growing Tumor/A. Dones Rodriguez, K.X. Rivera Manzano, H.J. Maldonado-Quintana, J.E. Nieves-Scharon, M. Cruz Caliz, R. Fernandez, M. Gonzalez, R.A. Hernandez, M. Betancourt, J. Adorno, San Juan, PR, p.A6684
- P315** Uterine Leiomyosarcoma One of the Rare Causes of Bilateral Pulmonary Nodules/H.S. Arshad, A. Bhalodkar, M. Khaja, Bronx, NY, p.A6685
- P316** A Case of Simultaneous Multiple Primary Lung Cancers with Radiologic and Histopathologic Correlation/A. Tiwari, H. Sharma, M.S. Khan, H. Badi, Toledo, OH, p.A6686
- P317** 42 Year-Old Man with Acute Obstructive Respiratory Failure Secondary to Interleukin-2 Therapy for Metastatic Renal Cell Carcinoma/L.A. Seaburg, L. Vande Vusse, K. Patel, Seattle, WA, p.A6687
- P318** Beating the Odds-Five Year Survival Rate of a Patient with Non Small Cell Lung Cancer/A. Magge, J. Goralnik, E. Nadler, R. Mutneja, O. Ibrahim, Farmington, CT, p.A6688
- P319** Synchronous Double Primary Non-Small Cell Lung Cancer/H. Badi, Y. Abdel-Aziz, M. Davis, A. Ali, S. Rehman, M. Taleb, Y. Yoon, Toledo, OH, p.A6689

Facilitator: A.I. Saeed, MBBS, Albuquerque, NM

- P320** Renal Cell Carcinoma (RCC) Metastasize to Lung and Gall Bladder/M. Azharuddin, I. Lalani, M. Doraiswamy, M. Maniar, Long Branch, NJ, p.A6690
- P321** Balloon Bronchoplasty for the Management of Radiation-Induced Bronchial Stenosis/S.J. Kuperberg, M. Marks, K. Alonso, C.R. Bellinger, Winston-Salem, NC, p.A6691
- P322** Diffuse Idiopathic Pulmonary Neuroendocrine Cell Hyperplasia (DIPNECH): A Case Presentation and Overview of Documented Cases/S. Bolis, Y. Mishriki, Allentown, PA, p.A6692
- P323** Pulmonary Mucoepidermoid Carcinoma: A Rare Primary Lung Tumor/E. Mims, D. Poch, S. Makani, San Diego, CA, p.A6693



P324 Hickam's Dictum: A Tale of Metachronous Pulmonary Adenocarcinoma, Carcinoid Tumor and Histoplasmosis/B.L. Icard, F.H. Biscardi, S. Umar, Roanoke, VA, p.A6694

P325 Pleuro-Pulmonary Angiosarcoma Presenting as Spontaneous Hemothorax and Bilateral Pulmonary Nodules/C. Onofrei, A. Rose, C.R. Sears, Indianapolis, IN, p.A6695

P326 Immune Checkpoint Inhibitor Associated Pneumonitis in Lung Cancer/K. Juenger, H. Abdulhaq, K. Bilello, D. Upadhyay, Fresno, CA, p.A6696

P327 Mucinous Adenocarcinoma: An Unusual Presentation/E.E. Bondarsky, L.L. Seijo, S. Acquah, New York, NY, p.A6697

Facilitator: S. Benzaquen, MD, Cincinnati, OH

P328 Myelomatous Pleural Effusion as an Etiology of Dyspnea in a Patient with Multiple Myeloma/S. Vanaik, K. Sandhu, Philadelphia, PA, p.A6698

P329 Rare Case Report of Pulmonary Lymphangitic Spread in Rectal Cancer/S. Easaw, V. Kaul, M. Farokhi, P. Spiro, Elmhurst, NY, p.A6699

P330 Lung Adenocarcinoma Presenting as Carcinomatous Meningitis/K. Lam, Palo Alto, CA, p.A6700

P331 Needle in a Haystack: A Rare Pulmonary Presentation of Peripheral T Cell Lymphoma/A. Shahmohammadi, J. Wynne, E. Harman, Gainesville, FL, p.A6701

P332 Rare Case of Microangiopathic Hemolytic Anemia in Metastatic Small Cell Lung Cancer/R. Khan, R. Dean, U. Masood, A.J. Shah, V. Matti, A. Ghimire, Syracuse, NY, p.A6702

P333 Malignant Potential of Recurrent Pulmonary Hamartomas/A. Pelinescu, S. Yadam, K. Malik, Pittsburgh, PA, p.A6703

P334 Pulmonary Granular Cell Tumor Presenting with Post-Obstructive Pneumonia/S.M. Farooqui, M.S. Khan, V. Doshi, Oklahoma City, OK, p.A6704

P335 Killing Two Birds with One Stone: A Tale of Pulmonary Lymphoma and Hepatitis C/J. Goralnik, E. Nadler, R. Mutneja, A. Magge, O. Ibrahim, Farmington, CT, p.A6705

Facilitator: K. Diab, MD, Indianapolis, IN

P336 Ectopic Adrenocorticotropin Hormone Production in a Patient with Adenocarcinoma of Lung/N.R. Bongu, P. Prodduturvar, Greenville, NC, p.A6706

P337 Peripheral Eosinophilia as the First Sign of Metastatic Lung Adenocarcinoma/G. Malhotra, A. Copur, North Chicago, IL, p.A6707

P338 Pulmonary Metastasis from Cervical Cancer 50 Years Later?/S. Castillo, H. Latham, Kansas City, KS, p.A6708

P339 Milky BAL with Positive PAS Stain and Negative Cytology Is Not Always Alveolar Proteinosis, It Still Can Be a Cancer/M. Abu Omar, M. Abu Ghanimeh, A. Qasrawi, A. Schlachter, G. Salzman, Kansas City, MO, p.A6709

P340 Histologic Transformation from Non-Small Cell Lung Cancer (NSCLC) Adenocarcinoma with EGFR-Mutant Exons 20(S768I) and 21(L858R) to Small Cell Lung Carcinoma (SCLC): Case Report/L. Fernandez, L.F. Sua, J.D. Yara, A.M. Morales, L. Gutierrez, Cali, Colombia, p.A6710

P341 Multidisciplinary Management of a Primary Mediastinal Synovial Sarcoma with Large Tumor Burden/E. Howell, A.D. Can, B. Lasky, D. Hsia, Y. Carter, Torrance, CA, p.A6711

P342 A Case of Benign Solitary Fibrous Tumor Becoming Malignant/J.A. Ben Gabr, S. Nandavaram, G. Trikha, Syracuse, NY, p.A6713

P343 Adenocarcinoma of the Colon in Anterior Mediastinum/J.E. Nieves- Scharon, K.X. Rivera Manzano, M. Cruz Caliz, A. Dones Rodriguez, H.J. Maldonado-Quintana, R. Fernandez, M. Gonzalez, I. Gonzalez-Cancel, San Juan, PR, p.A6714

Facilitator: J.A. Nations, MD, MBA, Bethesda, MD

P344 A Case of MALT Lymphoma as an Insidious Lung Mass/L. Chia, K.M. Phan, J. Resnikoff, San Diego, CA, p.A6715

P345 EBUS Needles- Bigger Not Always Better/K. Gafoor, B. Husta, New York, NY, p.A6716

P346 Lung Cancer One, Two, Three/E. Nadler, J. Goralnik, O. Ibrahim, A. Sharma, Farmington, CT, p.A6717

P347 Challenging Cases in Lung Cancer: Expect the Unusual/R. Soomro, A. Dirweesh, I. Acharya, M. Ibrahim, S. Bukhari, S. Wallach, Trenton, NJ, p.A6718

P348 A Case of Triple Metachronous Primary Lung Carcinomas/S. Park, Y. Choe, S. Kim, Y. Lee, H. Lee, Jeonju, Korea, Republic of, p.A6719

P349 A Tale of Carcinoid in a Veteran/P. Krishnan, R. Chakravarty, P. Ramadas, A. Abbasi, Syracuse, NY, p.A6720

P350 When Pneumonia Is Not Really A Pneumonia/M. Ali, Z. Ahmad, N. Farooq, G. Chaaya, A. Ashraf, Orlando, FL, p.A6721

ATS 2017
*Where today's science
meets tomorrow's care™*

International Conference

Washington, DC

Tuesday Mid-day, May 23

11:45 a.m. – 1:15 p.m.

ATS PLENARY SESSION

WALTER E. WASHINGTON CONVENTION CENTER
Room 207 A-B (South Building, Level 2),

The ATS Plenary Session will feature a talk by **Marc L. Busch, PhD**, the Karl F. Landegger Professor of International Business Diplomacy at the School of Foreign Service, Georgetown University. Dr. Busch is an expert on international trade policy and law, author of the book *Trade Warriors*, and author of articles in the *American Journal of Political Science*, *American Journal of Sociology*, *British Journal of Political Science*, *Fordham International Law Journal*, *International Organization*, *Journal of Conflict Resolution*, *Journal of World Trade*, *World Politics and World Trade Review*. He has addressed a wide variety of governments and international institutions and has testified before the U.S. Congress on Airbus-Boeing litigation and the Canadian Senate on softwood lumber litigation. Dr. Busch will address the implications of multinational trade agreements on health care systems.

The ATS Plenary Session will also feature the introduction of the ATS slate of officers, the presentation of several awards, and remarks from ATS President **David Gozal, MD, MBA**, and ATS President-Elect **Marc Moss, MD**.

The following awards will be presented:

Outstanding Educator: **Henry Fessler, MD, Baltimore, MD**

Research Innovation and Translational Achievement: **Avrum Spira, MD, MSc, Boston, MA**

Outstanding Clinician: **Jack Hasson, MD, Birmingham, AL**

CLINICAL
WORKSHOP

CME Credits Available: 1.5

**WS5 REVIEW OF THE NEW CYSTIC FIBROSIS
DIAGNOSIS GUIDELINES**

Registration Fee: \$75 (includes box lunch)
Attendance is limited. Pre-registration is required.

**Assemblies on Pediatrics; Allergy, Immunology and Inflammation;
Clinical Problems**

11:45 a.m. - 1:15 p.m.

MARRIOTT MARQUIS WASHINGTON

Archives (Level M4)

Target Audience

Any one who evaluates patients with respiratory disease

Objectives

At the conclusion of this session, the participant will be able to:

- interpret CFTR genetic testing as it applies to CF diagnosis, using CFTR2 as well as other resources;
- diagnose CF in infants with a positive CF newborn screen and to describe outcomes associated with inconclusive cases;
- apply ancillary testing in cases of suspected CF.

Historically, cystic fibrosis (CF) has been diagnosed in patients who present with a well defined phenotype and have an elevated sweat chloride. However, advances in our understanding of CF genetics and the growth of CF newborn screening have created new challenges to CF diagnosis. In response to these developments, the CF Foundation sponsored a consensus conference in October 2015 to revise the CF diagnostic guidelines, which were last updated in 2008. The goal of this workshop is to review the key changes in these guidelines.

Chairing: C.L. Ren, MD, Indianapolis, IN

11:45 Introduction

C.L. Ren, MD, Indianapolis, IN

12:00 Applying Genetic Testing to the Diagnosis of CF

P. Sosnay, MD, Baltimore, MD

12:25 Diagnostic Challenges Arising from CF Newborn Screening

C.L. Ren, MD, Indianapolis, IN

12:50 The Role of Ancillary Testing in the Diagnosis of CF

I. Sermet-Gaudelus, MD, Paris, France

*This session and the International Conference are supported by an educational grant from
Vertex Pharmaceuticals, Inc.*

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.



BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

CAREER DEVELOPMENT FORUM

CME Credits Available: 1.5

WS6 CAREER DEVELOPMENT WORKSHOP: HOW TO START YOUR INDEPENDENT RESEARCH LABORATORY

R This Forum is part of the ATS initiative to offer program specifically geared toward the professional development of trainees, fellows and students to aid in the pursuit of successful careers in pulmonary, critical care and sleep medicine.

Pre-registration is required. Attendance is limited. There is no additional fee.

Assemblies on Respiratory Structure and Function, Allergy, Immunology and Inflammation; Behavioral Science and Health Services Research; Clinical Problems; Critical Care; Environmental, Occupational and Population Health; Microbiology, Tuberculosis and Pulmonary Infections; Pediatrics; Pulmonary Circulation; Respiratory Cell and Molecular Biology; Sleep and Respiratory Neurobiology; Thoracic Oncology

11:45 a.m. - 1:15 p.m.

MARRIOTT MARQUIS WASHINGTON

Capitol/Congress (Level M4)

Target Audience

Graduate students, PhD, MD, post-doctoral/clinical fellows and faculty interested in identifying opportunities and obstacles in starting their independent research laboratory. Through lectures and discussion with six senior and recently hired investigators, the participants will learn successful strategies that can be employed at a variety of non-profit and for profit institutions

Objectives

At the conclusion of this session, the participant will be able to:

- learn about the key challenges and opportunities in starting a new lab at a non-profit and a for profit institution;
- understand and gain the strategies to develop the budget for his/her lab;
- learn how to manage time between setting up the lab, research, teaching and grant writing.

Successful independent research is built on a strong research laboratory. But each newly hired investigator often faces a unique set of opportunities and challenges in getting their laboratory started. To sustain productivity during this initial period, appropriate plans are needed in the processes including negotiating the job terms, staffing the laboratory, and managing the time and personnel. The participants will hear from six members of the ATS community comprising of senior investigators and recently hired investigators each from educational institutions and industrial organizations or research laboratories.

Chairing: D.T. Tambe, PhD, Mobile, AL
D. Kasahara, PhD, Boston, MA

11:45 Starting a New Lab at NIH
R. Balaban, PhD, Bethesda, MD

11:55 Common Successful Strategies Employed in the Startup Package
J. Solway, MD, Chicago, IL

12:05 Challenges and Opportunities at Large Versus Small Universities
T. Stevens, PhD, Mobile, AL

12:15 Starting a New Lab in an Engineering School
G.N. Maksym, PhD, Halifax, Canada

12:25 Managing to Set up a New Laboratory Together with Clinical Practice, Teaching and Grant Writing
C.C. Hardin, MD, PhD, Boston, MA

12:35 Developing the Budget
V. Anathy, PhD, Burlington, VT

12:45 General Discussion

CLINICAL

ADULT CLINICAL CORE CURRICULUM

CME Credits Available: 1.5

MOC Points Available: 1.5

Nursing Contact Hours Available: 1.8

CC4 SLEEP MEDICINE CLINICAL CORE CURRICULUM I

Adult Core Curriculum Working Group

11:45 a.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Hall E (Middle Building, Level 2)

Target Audience

Practicing internists, subspecialists, registered nurses and advanced practice nurses in pulmonary, critical care, and sleep medicine who work in a clinical setting and are currently engaged in maintenance of certification

Objectives

At the conclusion of this session, the participant will be able to:

- discuss current strategies for managing insomnia using pharmacologic therapies;
- discuss current strategies for managing insomnia using non-pharmacologic therapies;
- describe strategies for managing insomnia in patients with psychiatric diseases.

The ATS Clinical Core Curriculum Symposia focus on a 3-year content cycle of key medical content in the areas of Pulmonary, Critical Care, and Sleep Medicine. The topics are also aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to assist clinicians with staying current with the growth of information relevant to their medical practice, as well as provide an opportunity to evaluate individual knowledge and skills while earning MOC Medical Knowledge points.

Chairing: S. Jamil, MD, La Jolla, CA

11:45 Insomnia: Pharmacologic Therapies
M.E. Billings, MD, MSc, Seattle, WA

12:15 Insomnia: Non-Pharmacologic Therapies
P. Gehrman, PhD, Philadelphia, PA

12:45 Sleep in Psychiatric Diseases
J.L. Martin, PhD, North Hills, CA



MEET THE PROFESSOR SEMINARS

CME Credits Available: 1

 **Registration Fee: \$70.00 (includes box lunch.)**
Attendance is limited. Pre-registration is required.

12:15 p.m. - 1:15 p.m. MARRIOTT MARQUIS WASHINGTON

- MP601 PRIMARY IMMUNODEFICIENCY AND PULMONARY DISEASE**
A. Dosanjh, MD, San Diego, CA
George Washington University (Level M1)
- MP602 LEARNING TO LEAD: TIPS FOR SUCCESS**
M. Osborne, MD, PhD, Portland, OR
Georgetown University (Level M1)
- MP603 APPROACH TO THE PATIENT WITH REFRACTORY CHRONIC COUGH**
P. Dicipinigitis, MD, Bronx, NY
Howard University (Level M1)
- MP604 MULTIDISCIPLINARY ILD EVALUATION: USING CLINICAL AND HRCT TO MAKE A DIAGNOSIS**
J. Dematte, MD, MBA, Chicago, IL
R. Agrawal, MD, Chicago, IL
Gallaudet University (Level M1)
- MP605 PULMONARY SYMPTOMS IN SARCOIDOSIS: EVALUATION AND MANAGEMENT**
M.A. Judson, MD, Albany, NY
Catholic University (Level M1)
- MP606 DRUG-INDUCED MIMICS OF IDIOPATHIC LUNG DISEASES**
P.B. Camus, MD, Dijon, France
A.H. Limper, MD, Rochester, MN
University of DC (Level M1)
- MP607 CONNECTIVE TISSUE DISEASE AND THE LUNG: LESSONS LEARNED FROM DIFFICULT CASES**
M. Kreider, MD, Philadelphia, PA
Marquis Salon 14 (Level M2)
- MP608 HOW DO I PREPARE MY ILD PATIENT FOR LUNG TRANSPLANT?**
D.E. Antin-Ozerkis, MD, New Haven, CT
Marquis Salon 13 (Level M2)
- MP609 CHRONIC BRONCHITIS: NEW CONCEPTS, NEW TREATMENTS, NEW HOPE**
V. Kim, MD, Philadelphia, PA
Marquis Salon 12 (Level M2)
- MP610 WHEEZING WHILE YOU WORK: UPDATE ON EVALUATION AND MANAGEMENT OF WORK-RELATED ASTHMA**
E.N. Schachter, MD, New York, NY
Union Station (Level M3)
- MP611 BEYOND THE NTM GUIDELINES: WHAT TO DO WHEN THE STANDARD DRUGS DON'T WORK**
K.N. Olivier, MD, MPH, Bethesda, MD
Chinatown (Level M3)
- MP612 IN VITRO AND IN VIVO EXPOSURES TO EMERGING TOBACCO PRODUCTS: RESEARCH TO REGULATORY SCIENCE**
I. Rahman, PhD, Rochester, NY
Mount Vernon Square (Level M3)

- MP613 LUNG IMPEDANCE: MEASUREMENT AND INTERPRETATION**
J.H.T. Bates, DSc, PhD, Burlington, VT
Judiciary Square (Level M3)
- MP614 NONINVASIVE VENTILATION IN NEUROMUSCULAR DISEASE: BEYOND THE BASICS**
L. Wolfe, MD, Chicago, IL
LeDroit Park (Level M3)
- MP615 LUNG CANCER IN WOMEN: EPIDEMIOLOGY, RISKS, BIOLOGY AND OUTCOMES**
M.P. Rivera, MD, Chapel Hill, NC
Shaw (Level M3)
- MP616 OFFICIAL ATS DOCUMENTS: HOW TO GET INVOLVED**
R. Dweik, MD, Cleveland, OH
K.C. Wilson, MD, Boston, MA
Treasury (Level M4)

MEDICAL EDUCATION SEMINAR

CME Credits Available: 1

ME3 PLAYING TO THE CROWD: HOW TO ENGAGE YOUR AUDIENCE IN LARGE GROUP TEACHING

 **Registration Fee: \$70 (includes box lunch)**
Attendance is limited. Pre-registration is required.

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 101 (South Building, Street Level)

Target Audience

Medical educators, teaching physicians, physician-scientists, and providers on the multidisciplinary healthcare team, including nurses, respiratory therapists, advanced practice providers, and pharmacists within pulmonary, critical care, and sleep medicine, who seek to develop necessary skills to become more effective educators in a large group setting

Objectives

At the conclusion of this session, the participant will be able to:

- engage the learner in large group teaching sessions by implementing new strategies to engage the audience;
- create effective, interactive questions using an audience response system to improve learning in a large group setting;
- Incorporate team based learning into their large group teaching.

Teaching in a large group setting is an essential skill for physicians, educators and multidisciplinary health care providers. This session will use an interactive format to provide strategies for the educator to better engage the learner in these large group sessions. We will review techniques to enhance the delivery and presentation of educational content, demonstrate team based learning in an interactive format and effective use of audience response systems with the opportunity to learn how to create and embed questions into your presentations. Participants are encouraged to bring their own laptop and a power point presentation.

Speakers: K. Burkart, MD, New York, NY
J.W. McCallister, MD, Columbus, OH
T.S. Wang, MD, Los Angeles, CA
J.T. Poston, MD, Chicago, IL



THEMATIC SEMINAR SERIES

CME Credits Available: 1

TSS1 EVOLVING CONCEPTS IN EARLY COPD

R Registration Fee: \$170 for full series (includes box lunch)
Attendance is limited. Pre-registration is required.

This is part 3 of a 4-part series. Those registering for this seminar series will be registered for all 4 parts. The program for the full series is included with the Sunday, May 21, 12:15 p.m. program.

Tuesday 12:15 p.m. - 1:15 p.m. MARRIOTT MARQUIS WASHINGTON

Monument (Level M4)

Screening for COPD: Beyond the Current Guidelines

R.A. Wise, MD, Baltimore, MD



ATS 2017

Where today's science meets tomorrow's care™

International Conference

Washington, DC

Tuesday Afternoon, May 23

1:15 p.m. - 2:15 p.m.

VISIT THE EXHIBIT HALL

Take this opportunity between sessions to visit the Exhibit Hall to gain practical knowledge to advance care and research. Exhibitors will be on hand to provide information on pharmaceutical products, medical equipment, publications and research services.

CLINICAL**ADULT CLINICAL CORE CURRICULUM**

CME Credits Available: 2

MOC Points Available: 2

CC5 PULMONARY CLINICAL CORE CURRICULUM II

Adult Core Curriculum Working Group

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Hall E (Middle Building, Level 2)

Target Audience

Practicing internists and subspecialists in Pulmonary, Critical Care, and Sleep medicine who work in a clinical setting and are currently engaged in maintenance of certification

Objectives

At the conclusion of this session, the participant will be able to:

- remain current with medical knowledge relevant to their practice in pulmonary, critical care, and sleep medicine;
- evaluate their understanding of key skills and content areas in pulmonary, critical care and sleep medicine, as well as receive feedback on their comprehension of a result of a pre-test/post-test comparison;
- support clinicians who are engaged in maintenance of certification activities by providing updates on subjects included in recertification requirements.

The ATS Clinical Core Curriculum Symposia focus on a 3-year content cycle of key medical content in the areas of Pulmonary, Critical Care, and Sleep Medicine. The topics are also aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to assist clinicians with staying current with the growth of information relevant to their medical practice,



as well as provide an opportunity to evaluate individual knowledge and skills while earning MOC Medical Knowledge points.

Chairing: G.C. Michaud, MD, New York, NY

- 2:15 Lung Cancer Screening**
N.T. Tanner, MD, MSCR, Charleston, SC
- 2:45 Lung Cancer Diagnosis**
A.V. Gonzalez, MD, MSc, Montreal, Canada
- 3:15 Lung Cancer Staging**
M. Liberman, MD, PhD, Montreal, Canada
- 3:45 Lung Cancer Treatment**
S. Shojaaee, MD, Richmond, VA

CLINICAL • TRANSLATIONAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

C82 THE CUTTING EDGE IN LUNG TRANSPLANTATION

Assemblies on Clinical Problems; Allergy, Immunology and Inflammation

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Ballroom A (South Building, Level 3)

Target Audience

A broad range of providers that are involved in the care of lung transplant recipients, including physicians, surgeons, and other allied health professionals and trainees interested in pursuing lung transplantation

Objectives

At the conclusion of this session, the participant will be able to:

- understand potential benefits and practical application of ex vivo lung perfusion;
- gain understanding of the heterogeneity of CLAD including how recent data supporting CLAD phenotypes has led to a revision in the approach used to diagnose and classify CLAD;
- discuss the impact of PGD on patient survival after lung transplant.

This session will discuss new information about the expanding technologies for ex vivo lung perfusion (EVLP) to improve donor lung quality, insights into prevention of primary graft dysfunction (PGD), and paradigm changes in our understanding of phenotypes and mechanisms of chronic lung allograft dysfunction (CLAD). There will be discussion of the rapidly growing use of EVLP, new mechanistic insights to PGD etiology and prevention, and the approach to phenotypes of CLAD, including restrictive CLAD, its diagnosis, radiographic and pathological correlates. The session will also address the impact of lung microbiome and pulmonary infections upon innate immunity and CLAD development.

Chairing: S.M. Palmer, MD, MHS, Durham, NC
J.A. Belperio, MD, Los Angeles, CA

- 2:15 Ex Vivo Lung Perfusion (EVLP): Changing the Practice of Lung Transplantation for the Better**
M. Cypel, MD, MSc, Toronto, Canada
- 2:35 Rethinking Primary Graft Dysfunction and Its Prevention**
J.D. Christie, MD, MS, Philadelphia, PA

- 2:55 Lung Transplant Microbiome and Implications for CLAD**
L.P. Nicod, MD, Lausanne, Switzerland
- 3:15 Cytokine and Chemokine Signals Translate Infections to CLAD**
J.A. Belperio, MD, Los Angeles, CA
- 3:35 New Insights into CLAD Phenotypes, Mechanisms and Treatment**
S.M. Palmer, MD, MHS, Durham, NC
- 3:55 Panel Discussion**

BEHAVIORAL • CLINICAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

MOC Points Available: 2

Nursing Contact Hours Available: 2.4

C83 PEDIATRIC CHEST ROUNDS

Assemblies on Pediatrics; Allergy, Immunology and Inflammation; Clinical Problems; Critical Care; Microbiology, Tuberculosis and Pulmonary Infections; Nursing; Pulmonary Circulation; Sleep and Respiratory Neurobiology

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Ballroom C (South Building, Level 3)

Target Audience

Pediatric pulmonologists; pediatric intensivists; neonatologists; registered nurses; advanced practice nurses; respiratory therapists

Objectives

At the conclusion of this session, the participant will be able to:

- recognize the varying presentation(s) of known and rare pulmonary disorders;
- recognize pitfalls of various diagnostic methods and how to synthesize the clinical with laboratory information;
- identify alternative diagnoses for common and uncommon respiratory signs and symptoms.

The Pediatric Chest Rounds present diagnostically and/or therapeutically clinically challenging cases selected from the case reports submitted every year. The cases are presented by pediatric pulmonary fellows and they are discussed by senior faculty who are experts in the respective fields. The presentations are interactive giving the opportunity to the audience to participate in the decision making process.

Chairing: S. Goldfarb, MD, Philadelphia, PA
J. Harrison, MBChB, MRCP, MRCPC, Melbourne, Australia
J.P. Needleman, MD, Brooklyn, NY

2:15 Pediatric Clinical Cases

17 Year Old Female with Progressive Dyspnea and Pulmonary Nodules

A. Parra, MD, Bogota, Columbia

Expert Discussant

A. Casey, MD, Boston, MA

Two Year Old with Bronchiectasis

A. Sathyaprasad MD

Expert Discussant

S. Ogunlesi MD, Washington, DC



19 Year Old Female with Protein Losing Enteropathy and Acute Respiratory Failure

S.A. Al Baroudi, MD, Baltimore, MD

Expert Discussant

D. Stokes, MD, Memphis, TN

10 Month Old with Recurrent Croup

L. Farhat, MD, Bronx, NY

Expert Discussant

J. Piccione DO, Philadelphia, PT

There will be a 5-minute discussion after each talk.

CLINICAL

CRITICAL CARE TRACK

CME Credits Available: 2

C84 BEG, BORROW AND STEAL: THE CHALLENGE OF CHANGING PHYSICIAN BEHAVIOR IN THE ICU

Assemblies on Critical Care; Behavioral Science and Health Services Research; Nursing

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 146 A-B (Middle Building, Street Level)

Target Audience

Critical care physicians, Trainees and early career physicians, Nurses, Implementation science researchers

Objectives

At the conclusion of this session, the participant will be able to:

- become familiar with evidence-based interventions and approaches designed to modify physician behavior specific to critical care;
- integrate knowledge and evidence from the fields of behavioral science and psychology to recognize current ICU care practices that are no longer beneficial and different evidence-based approaches available to incentivize de-adoption;
- acquire practical approaches that can be used to change physician behavior to improve patient care and outcomes in the ICU.

It is an incontrovertible fact that patients routinely receive suboptimal care in ICUs around the U.S., internationally, and sometimes even within our own hospitals. Yet physicians demonstrate wide variation in care and are often slow to align practice patterns with guidelines. In our session, experts in behavioral psychology, implementation science, and critical care will define what is known about behavior change, offer several examples of durable clinical practices that have refused to change despite compelling evidence, and offer new insights into strategies for improvement of use to all clinicians interested in affecting change.

Chairing: M.N. Gong, MD, MS, Bronx, NY
D.K. Costa, PhD, RN, Ann Arbor, MI
J. Stevens, MD, Boston, MA

2:15 "It Depends on the Clinician": Drivers of Variation in Resource Use in Critical Care

J. Stevens, MD, Boston, MA

2:30 The Necessary Ingredients: How Improving Unit Culture Sets the Stage for Desired Physician Behavior

J. Marsteller, PhD, Baltimore, MD

2:45 De-Adoption of Unsuccessful Ideas: The Durability of the Use of Pulmonary Artery Catheters

K. Rowan, PhD, MSc, London, United Kingdom

3:00 Glaring Failures: Physician Incentives and Other Failed Levers of Change

J. Kahn, MD, MS, Pittsburgh, PA

3:15 Getting Moving: Successful Strategies that Have Mobilized Patients and Clinicians

D.K. Costa, PhD, RN, Ann Arbor, MI

3:30 When Changing Physician Behavior Became My Job: Practical Tools and Strategies for Improving Critical Care

M. Howell, MD, MPH, Chicago, IL

3:45 Question and Answer Session

M.N. Gong, MD, MS, Bronx, NY

BASIC • TRANSLATIONAL

BASIC SCIENCE CORE

CME Credits Available: 2

C85 SCIENTIFIC BREAKTHROUGHS: REGULATION OF THE STRESS RESPONSE IN LUNG DISEASE

2:15 p.m. - 4:15 p.m.

MARRIOTT MARQUIS WASHINGTON

Independence Ballroom E-H (Level M4)

Target Audience

Basic and translational scientists and physician-scientists working on lung diseases and aging. Lung health researchers and providers, trainees, fellows, junior faculty, research scientists, and residents.

Objectives

At the conclusion of this session, the participant will be able to:

- advance their understanding translational approaches for modulating stress pathways and stress proteins to combat diseases of protein misfolding, especially in the context of aging and chronic lung disease;
- learn and understand the current research finding on proteostasis, stress-related biology, and heat-shock proteins, as they relate to aging and chronic lung disease(s). The advancement of ideas to shape future thoughts and hypothesis-driven research on stress biology will be critically explored.
- Special emphasis is on a multitude of model systems that are being used to investigate stress sensing, signaling and regulation of gene expression, including epigenetic mechanisms will be examined. Post-translational modifications of stress proteins and their involvement in the key enzymatic pathways, leading to these modifications, will be emphasized in the session.

The cellular proteome is constantly exposed to a wide variety of stresses. These include physiological stresses encountered during cellular proliferation and differentiation, such as oxidative stress generated by metabolic reactions. The proteome is also stressed by a large number of common stimuli, such as pharmacological agents, infection, and inflammation. In all organisms, induction of the stress response is essential for the maintenance of protein homeostasis in response to proteotoxic stress. A hallmark of stressed cells and organisms is the



increased synthesis of molecular chaperones that aid in the folding of nascent polypeptides and prevent protein misfolding and aggregation. They are also important for protein degradation and translocation across membranes as well as for the correct formation of macromolecular assemblies. The protein quality control and stress protection machineries require strict signaling modalities and transcriptional programs, which play a role in lifespan regulation and age-related diseases such as COPD and IPF.

Chairing: J.I. Sznajder, MD, Chicago, IL
A. Pardo, PhD, Mexico City, Mexico

2:15 **Mfolded Protein Structure and Proteostasis in Lung Diseases**
W. Balch, PhD, La Jolla, CA

2:45 **The Role of Intracellular Heat Shock Protein 70 Deficiency in Idiopathic Pulmonary Fibrosis**
J. Sellares, MD, PhD, Pittsburgh, PA

3:00 **Therapeutic Inhibition of Hsp90 Attenuates Fibroblast Activation Involved in Severe Fibrotic Lung Disease**
V. Sontake, MS, Cincinnati, OH

3:15 **Activation of the Unfolding Protein Response in the Vastus Lateralis of Patients with Respiratory Cachexia: Advanced COPD Versus Lung Cancer**
E. Barreiro, MD, PhD, Barcelona, Spain

3:30 **HSF1 Activation Regulates the Transcriptional Activity of the Heat Shock and Unfolded Protein Responses Altering Myeloid Proteostasis and Driving Granulopoiesis**
K.L. Gates, MD, Chicago, IL

3:45 **Aberrant Cellular Quality Control and Stress Responses in the Alveolar Epithelium: Drivers of Fibrotic Lung Disease**
M.F. Beers, MD, Philadelphia, PA

BASIC

PUBLIC ADVISORY ROUNDTABLE SYMPOSIUM

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

C86 CLINICAL ADVANCES IN RESPIRATORY HEALTH: WHAT TO TELL YOUR PATIENTS RIGHT NOW

Public Advisory Round table; Assemblies on Clinical Problems; Sleep and Respiratory Neurobiology

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 204 A-C (South Building, Level 2)

Target Audience

Physicians, basic and translational scientists, clinician-investigators, registered nurses, advanced practice nurses, patients, caregivers and parents

Objectives

At the conclusion of this session, the participant will be able to:

- discuss the importance of air pollution on lung health;
- identify the risks and benefits of e-cigarettes;
- describe new therapies for various diseases including ARDS, IPF and sleep apnea.

Pulmonary research has expanded rapidly over the last decade, resulting in clinical advances and changes in the treatment strategy and care for a number of disease states from rare diseases like pulmonary fibrosis to more systemic diseases like sleep apnea. This session will highlight progress and important trends among prevalent respiratory conditions as well as lung conditions caused by smoking, e-nicotine and air pollution.

Chairing: K.A. Connolly, BS, Danvers, MA
A. Malhotra, MD, La Jolla, CA

2:15 **Introduction to Session**
A. Malhotra, MD, La Jolla, CA

2:30 **Annual PAR Awards Ceremony**
K.A. Connolly, BS, Danvers, MA

2:40 **Recent Advances: Air Pollution**
M.B. Rice, MD, MPH, Boston, MA

2:50 **Recent Advances: Obesity/Sleep Disorders**
S.R. Patel, MD, Pittsburgh, PA

3:05 **Recent Advances: Smoking and Electronic Nicotine Delivery Systems, E-Cigs**
L.E. Crotty Alexander, MD, San Diego, CA

3:20 **Recent Advances: Critical Care/ Acute Respiratory Distress Syndrome**
J.R. Beitler, MD, MPH, San Diego, CA

3:35 **Recent Advances: Idiopathic Pulmonary Fibrosis**
S. Montesi, MD, Boston, MA

3:50 **Panel Discussion**
A. Malhotra, MD, La Jolla, CA

BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

C87 DAWN OF THE DEAD: NECROPTOSIS IN THE PATHOGENESIS OF LUNG DISEASES

Assemblies on Allergy, Immunology and Inflammation; Critical Care; Microbiology, Tuberculosis and Pulmonary Infections; Respiratory Cell and Molecular Biology

2:15 p.m. - 4:15 p.m. MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 5 (Level M2)

Target Audience

Basic and translational scientists

Objectives

At the conclusion of this session, the participant will be able to:

- gain a basic understanding of necroptosis and the role this cell death pathway plays in regulating and perpetuating inflammation during infection;
- understand the relationship between autophagy and necroptosis;
- obtain an understanding of the relevance of necroptosis in lung disease and critical illness.



Necroptosis is a form of regulated cell death that results in the release of immunomodulatory DAMPs. Although mounting evidence suggests a critical role for necroptosis in the development of vascular disease, promotion of the tumor microenvironment and host-pathogen interactions, the importance of necroptosis in lung diseases is only beginning to be understood. This symposium will provide attendees with a basic understanding of necroptosis and its emerging role in the pathogenesis of lung diseases including COPD, ARDS and Pneumonia. Additionally, the interplay between necroptosis and other cell death pathways and the clinical use of necroptosis biomarkers will be examined.

Chairing: I. Brodsky, PhD, Philadelphia, PA
N.S. Mangalmurti, MD, Philadelphia, PA
A.M.K. Choi, MD, New York, NY

- 2:15 Necroptosis and Viral Infection**
W.J. Kaiser, PhD, San Antonio, TX
- 2:40 Necroptosis in the Regulation of Pulmonary Inflammation**
A.S. Prince, MD, New York, NY
- 3:05 Pleiotropic Functions of Necroptosis in Lung Diseases**
A.M.K. Choi, MD, New York, NY
- 3:30 Necroptosis in the Development of Lung Injury**
N.S. Mangalmurti, MD, Philadelphia, PA
- 3:55 Necroptosis: Can We Translate to Human Organ Injury Syndromes?**
M.G.S. Shashaty, MD, Philadelphia, PA

BEHAVIORAL • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

C88 COPD COMORBIDITIES: GREATER THAN THE SUM OF THE PARTS

Assemblies on Nursing; Behavioral Science and Health Services Research; Clinical Problems; Pulmonary Rehabilitation

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 102 A-B (South Building, Street Level)

Target Audience

Physicians, registered nurses, advanced practice nurses, physical therapists, physician assistants, physiotherapists, behavioral scientists, dieticians, respiratory therapists, respiratory care practitioners, pharmacists, involved in providing or directing patient-centered symptom management

Objectives

At the conclusion of this session, the participant will be able to:

- list selected, prevalent comorbidities associated with COPD;
- describe the adjustment to care approach and health care delivery related to the presence of multiple comorbidities;

COPD is a complex multi-component disease characterized by chronic systemic inflammation that frequently coexists with multiple comorbidities. Comorbidities in COPD are common at any stage of the disease, are important determinants of outcome and contribute to significant economic consequences. Despite this disease management strategies fail to provide clear recommendations on how

comorbidities should be identified, assessed and managed in the presence of COPD. This session will address these gaps.

Chairing: R.T. Disler, PhD, RN, Sydney, Australia
R. Kalhan, MD, MS, Chicago, IL
V.M. McDonald, PhD, New Lambton Heights, Australia

- 2:15 Comorbidities in COPD: The Cardiovascular COPD Conundrum**
L. Vanfleteren, MD, PhD, Horn, Netherlands
- 2:40 Cognition As a Key Influence on COPD Self-Management and Intervention Efficacy**
R.T. Disler, PhD, RN, Sydney, Australia
- 2:58 Targeting Obesity in COPD**
V.M. McDonald, PhD, New Lambton Heights, Australia
- 3:16 The Influence of Skeletal-Muscular Dysfunction on Pulmonary Disease Function and Management**
F. Maltais, MD, Quebec, Canada
- 3:34 Anxiety, Depression and Psychological and COPD: Association and Impact on Management**
M. Milic, MD, Washington, DC

This session and the International Conference are supported by an educational grant from AstraZeneca LP.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

C89 NON-CYSTIC FIBROSIS BRONCHIECTASIS AND NONTUBERCULOUS MYCOBACTERIA INFECTION: CURRENT KNOWLEDGE AND RECENT ADVANCES

Assemblies on Microbiology, Tuberculosis and Pulmonary Infections; Clinical Problems

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
West Salon G-I (South Building, Street Level)

Target Audience

Pulmonologists, nurses, respiratory therapists, post graduate trainees, advanced practitioners

Objectives

At the conclusion of this session, the participant will be able to:

- learn new findings about the lung microbiome;
- gain new or better strategies to treat non-CF bronchiectasis, including inhaled antibiotics and macrolides;
- gain understanding of new or better strategies to treat nontuberculous mycobacteria infections, or refer patients to experts.

Management of non-CF bronchiectasis (NCFB) and prevention of exacerbations remains challenging because of a paucity of evidence-based management strategies. There have been recent advances in strategies to manage bacterial infections such as *Pseudomonas aeruginosa*. However, treatment of nontuberculous mycobacteria



(NTM) remains substantially more complex. This session will review our current knowledge of microbiome and colonizing bacteria, existing and evolving therapies, and results from recent global phase 3 trials of inhaled antibiotics for NCFB.

Chairing: K.L. Winthrop, MD, MPH, Portland, OR
G. Tino, MD, Philadelphia, PA
C.L. Daley, MD, Denver, CO

2:15 A Patient's Perspective
C. Warden, Reston, VA

2:20 Lung Microbiome in Patients with Non-Cystic Fibrosis Bronchiectasis
J.D. Chalmers, MBChB, PhD, Dundee, United Kingdom

2:39 Current Management of Non-Cystic Fibrosis Bronchiectasis
A.E. O'Donnell, MD, Washington, DC

2:58 Surgical Management of Non-Cystic Fibrosis Bronchiectasis and Nontuberculous Mycobacteria
J.D. Mitchell, MD, Aurora, CO

3:17 New Inhaled Antibiotics for Non-Cystic Fibrosis Bronchiectasis
T.R. Aksamit, MD, Rochester, MN

3:36 Epidemiology of Non-Cystic Fibrosis Bronchiectasis and Colonizing Bacteria
K.N. Olivier, MD, MPH, Bethesda, MD

3:55 New Evidence for the Treatment of Nontuberculous Mycobacteria
D.E. Griffith, MD, Tyler, TX

There will be a 5-minute discussion after each talk.

This session and the International Conference are supported by an educational grant from Insmid Incorporated.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests

BEHAVIORAL • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

C90 PULMONARY REHABILITATION ACROSS HEALTH CARE SETTINGS

Assemblies on Pulmonary Rehabilitation; Clinical Problems; Critical Care; Nursing

2:15 p.m. - 4:15 p.m.

MARRIOTT MARQUIS WASHINGTON

Liberty Ballroom M-P (Level M4)

Target Audience

All clinicians with an interest in pulmonary rehabilitation, thoracic surgeons, critical care intensivists, clinical trainees, providers of pulmonary rehabilitation services, clinical researchers, registered nurses, advanced practice nurses

Objectives

At the conclusion of this session, the participant will be able to:

- deliver pulmonary rehabilitation to patients in varying health care settings;

- discuss the challenges of providing rehabilitation services over the whole spectrum of health care in order to optimize PR programs;
- identify novel clinical research opportunities in the field of pulmonary rehabilitation.

Pulmonary rehabilitation (PR) is a standard of care for symptomatic patients with chronic respiratory diseases and is a main example of personalized therapy. In the course of their disease, patients will be diagnosed, hopefully at an early stage, and (some of them) will develop towards severe end-stage disease. In between, exacerbations and hospitalizations and even a stay at the ICU can happen. Through this whole spectrum of health care, rehabilitation programs need to be adapted to these specific situations. Addressing the specific patient situation in the health care spectrum will contribute to improved impact and more effective implementation of PR by health care professionals.

Chairing: M.L. Moy, MD, MSc, Boston, MA
R. Goldstein, MD, Toronto, Canada

2:15 Early Outpatient Rehabilitation in Newly Diagnosed Patients with Chronic Respiratory Disease
F. Franssen, MD, PhD, Horn, Netherlands

2:35 Hospital-Based Early Mobility and Pulmonary Rehabilitation in Patients Hospitalized for Acute Exacerbations
N.J. Greening, MBBS, PhD, Leicester, United Kingdom

2:55 Long-Term Inpatient Pulmonary Rehabilitation in the Most Severe Patients
L. Vanfleteren, MD, PhD, Horn, Netherlands

3:15 Early Mobilization of Respiratory Patients in Intensive Care Units
D. Needham, MD, Baltimore, MD

3:35 Pulmonary Rehabilitation in the Pre- and Postoperative Setting in Patients Undergoing Lung Surgery
M. Maddocks, PhD, London, United Kingdom

3:55 Pulmonary Rehabilitation, Physical Activity and Exercise in Nursing Home Residents with Lung Disease
R.S. Novitch, MD, White Plains, NY

CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

C91 TACKLING SEVERE PNEUMONIA AND SEPSIS: WHAT IS READY FOR PRIME TIME?

Assemblies on Critical Care; Microbiology, Tuberculosis and Pulmonary Infections

2:15 p.m. - 4:15 p.m.

WALTER E. WASHINGTON CONVENTION CENTER

East Salon A-C (South Building, Street Level)

Target Audience

All health care professionals providing care to critically ill patients, including residents, fellows, mid-level providers and critical care physicians

Objectives

At the conclusion of this session, the participant will be able to:

- appropriately determine the best approach to diagnosis in patients with severe respiratory infections;



- determine which patients with severe respiratory infections and sepsis are most likely to benefit from corticosteroid therapy;
- use antibiotics most effectively in patients with risks for infection with antibiotic resistant organisms.

Severe pneumonia and sepsis are important clinical problems for pulmonary and critical care providers. These conditions are a leading cause of hospitalization, mortality and resource consumption. This session highlights recent advances in diagnostics and therapeutics for these patients. The session addresses advances in diagnostics for severe respiratory infections and new data regarding immunomodulatory therapy, particularly the uncertainty in using glucocorticoid therapy, which will be presented via a pro-con debate. Several trials to date have shown conflicting results and we anticipate completion of the HYPRESS and ADRENAL trials by next year. Recent data suggests that immunosuppression may be common in sepsis, and reversing immunosuppression, rather than suppressing exaggerated inflammation may be necessary in some patients. Understanding this heterogeneity of the host response and optimal approaches for immunomodulation is important for clinicians. Finally, the session will discuss how precision medicine approaches can be used to resolve these uncertainties and help clinicians manage these patients.

Chairing: S. Yende, MD, MS, Pittsburgh, PA
M.L. Metersky, MD, Farmington, CT
G.W. Waterer, MBBS, PhD, MBA, Perth, Australia

- 2:15 MDR/XDR Pathogens: Older Drugs of Questionable Efficacy or Newer Expensive Drugs**
R.G. Wunderink, MD, Chicago, IL
- 2:35 PRO: Patients with Severe Pneumonia and Patients with Septic Shock Should Be Treated with Corticosteroids**
A. Torres, MD, Barcelona, Spain
- 2:55 CON: Patients with Severe Pneumonia and Patients with Septic Shock Should Be Treated with Corticosteroids**
R. Hotchkiss, MD, St. Louis, MO
- 3:15 Beyond Steroids: New Immunomodulatory Interventions for Severe Pneumonia and Septic Shock**
T. Welte, MD, Hannover, Germany
- 3:35 Care Models for Survivors of Severe Pneumonia and Sepsis**
S. Yende, MD, MS, Pittsburgh, PA
- 3:55 Cutting Edge Diagnostics for Severe Respiratory Infections**
G.W. Waterer, MBBS, PhD, MBA, Perth, Australia

CLINICAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

C92 STATE OF THE ART ON THORACIC IMAGING AND RADIOGRAPHIC METRICS IN THE QUANTIFICATION OF LUNG DISEASE

Assembly on Respiratory Structure, and Function, the American College of Radiology

2:15 p.m. - 4:15 p.m. MARIOTT MARQUIS WASHINGTON
Marquis Ballroom 6 (Level M2)

Target Audience

Those desiring an understanding of how to extract quantitative information from

imaging studies. Providers of lung health; clinical trial investigators; basic and applied investigators who utilize imaging techniques; thoracic surgeons; radiologists and radiology technical staff; allied health workers

Objectives

At the conclusion of this session, the participant will be able to:

- learn new findings about screening for lung cancer and how machine learning techniques can increase the accuracy of detecting lung nodules;
- learn new findings about advances in CT imaging of pulmonary fibrosis and how CT-derived metrics can serve as biomarkers of diffuse interstitial lung disease;
- learn new findings about recent advances in CT quantification of vascular pathology in COPD.

Thoracic imaging is widely used in the diagnosis and monitoring of lung diseases. Imaging results are typically reported qualitatively. This session will describe the most advanced capabilities of imaging modalities for assessment of pulmonary nodules, and of pulmonary parenchymal and vascular disease. Each topic will include a clinically-focused talk and one based on quantitative characterization of radiographic data to facilitate screening, diagnosis, phenotyping, and monitoring of lung disease. After attending this session, the learner will appreciate the state of the art capabilities of imaging modalities in terms of accurate and precise radiologic assessment of major lung diseases.

Chairing: D.A. Lynch, MD, Denver, CO
C. Hsia, MD, Dallas, TX
S.R. Hopkins, MD, PhD, La Jolla, CA

- 2:15 Lung Cancer Screening by CT: Current Status and Future Direction**
E.A. Kazerooni, MD, Ann Arbor, MI
- 2:35 Machine Learning As a Tool for Increasing the Accuracy and Efficiency of Radiological Discussions: Application to Lung Nodules**
B. van Ginneken, PhD, Nijmegen, Netherlands
- 2:55 Advances in CT Imaging of Pulmonary Fibrosis**
D.A. Lynch, MD, Denver, CO
- 3:15 CT-Derived Metrics for Assessing Complex Parenchymal Patterns in Diffuse Parenchymal Lung Disease**
J.G. Goldin, MD, PhD, Santa Monica, CA
- 3:35 Imaging Pressure and Prognosis in Pulmonary Hypertension**
G. Kicska, MD, PhD, Seattle, WA
- 3:55 Recent Advances in CT Quantification of Vascular Pathology in COPD**
E.A. Hoffman, PhD, Iowa City, IA

MINI SYMPOSIUM

C93 HOST DEFENSE AGAINST PATHOGEN INVASION

2:15 p.m. - 4:15 p.m. MARIOTT MARQUIS WASHINGTON
Independence Ballroom A-D (Level M4)

Chairing: M.M. Wurfel, MD, PhD, Seattle, WA
T.J. Standiford, MD, Ann Arbor, MI
R.L. Zemans, MD, Denver, CO



Oral Presentations

- 2:15 Protective Mechanism for Interleukin-33 During Influenza-Associated Bacterial Super-Infection/K.M. Robinson, K. Ramanan, M.E. Clay, K.J. McHugh, H.E. Rich, J. Alcorn, Pittsburgh, PA, p.A6722**
- 2:30 Genetic Deletion of IL-36 γ or IL-36 Receptor Reduces Mortality in Pseudomonas Aeruginosa Pneumonia: Possible Role for Prostaglandin E2/T. Aoyagi, M.W. Newstead, X. Zeng, M. Kaku, T.J. Standiford, Ann Arbor, MI, p.A6723**
- 2:45 Hepcidin-Mediated Iron Sequestration Is Required for Host Defense Against Gram-Negative Pneumonia/K. Michels, Z. Zhang, A. Bettina, R.E. Cagnina, D. Stefanova, M. Burdick, E. Nemeth, T. Ganz, B. Mehrad, Charlottesville, VA, p.A6724**
- 3:00 Myeloid TBK1 Signaling Contributes to Pathogenesis of Influenza Infection/R.S. Hagan, J.L. Torres-Castillo, C.M. Doerschuk, Chapel Hill, NC, p.A6725**
- 3:15 Myeloid Derived Suppressor Cells Limit Inflammation and Lung Injury in Response to Aspergillus Via a Functional NADPH Oxidase/R.E. Cagnina, K. Michels, M. Burdick, B. Mehrad, Charlottesville, VA, p.A6726**
- 3:30 Deletion of the Immunity-Related GTPase Irgm1 Induces a Cell-Autonomous Interferon Response/P. Rai, H. Nakano, G. Taylor, M.B. Fessler, Durham, NC, p.A6727**
- 3:45 NLRP6 Inflammasome Negatively Regulates Pulmonary Host Defense Against Staphylococcus Aureus/L. Ghimire, S. Paudel, S. Cai, L. Jin, S. Jeeyaselan, Baton Rouge, LA, p.A6728**
- 4:00 Keratinocyte Growth Factor-Dependent Protection from a Lethal Klebsiella Pneumoniae Pulmonary Infection/J.C. Gardner, K.S. Vignesh, J.G. Noel, B.J. Ramser, L.B. Pitstick, G.S. Deepe, F.X. McCormack, Cincinnati, OH, p.A6729**

MINI SYMPOSIUM

C94 PSYCHOSOCIAL IMPACTS ON RESPIRATORY HEALTH AND CRITICAL ILLNESS**2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Room 146 C (Middle Building, Street Level)**

Chairing: E.K. Kross, MD, Seattle, WA
B.J. Clark, MD, Denver, CO

Oral Presentations

- 2:15 Lung Cancer Patients Have the Highest Malignancy-Associated Suicide Rate in USA: A Population Based Analysis/M. Rahouma, M. Kamel, A. Nasar, S. Harrison, B. Lee, B. Stiles, N. Altorki, J.L. Port, New York, NY, p.A6730**
- 2:30 Coping and Clinical Outcomes Among Lung Transplant Patients/B.M. Hoffman, P.J. Smith, K.K. Ingle, G.L. Stonerock, C. Saulino, S.M. Palmer, L.D. Snyder, J.M. Reynolds, J.A. Blumenthal, Durham, NC, p.A6731**

- 2:45 Coping Skills Training to Improve Psychological Distress Among Critical Illness Survivors: A Randomized Clinical Trial/C.E. Cox, S.S. Carson, C.T.L. Hough, J. Kahn, D.B. White, M.K. Olsen, T. Somers, S. Kelleher, L.S. Porter, Durham, NC, p.A6732**
- 3:00 A Lifestyle Physical Activity Intervention for COPD Improved Mental Health-Related Quality of Life Among Severely Impaired Patients/D. Coultas, B. Jackson, R. Russo, J. Peoples, J. Ashmore, J. Sloan, M. Uhm, K.P. Singh, S. Bae, Portland, OR, p.A6733**
- 3:15 Depression and Functional Capacity Independently Predict Mortality Following Lung Transplantation/P.J. Smith, C. Frankel, R. Byrd, A. Pastva, S.M. Palmer, L.D. Snyder, Durham, NC, p.A6734**
- 3:30 Lower Socioeconomic Status Is Associated with Alcohol Related Intensive Care Unit Admission/S. Kalra, M. Moss, M. Ho, W. Vandivier, E.L. Burnham, T.H. Kiser, B.J. Clark, Aurora, CO, p.A6735**
- 3:45 Surrogate Decision-Making Roles and Psychological Distress in Families of Patients Surviving Critical Illness/S.M. Cohen, R.Y. Lee, R.A. Engelberg, J.R. Curtis, C.T.L. Hough, E.K. Kross, Seattle, WA, p.A6736**
- 4:00 Psychological Distress in Family Members of Critically Ill Patients with Alcohol or Drug Use Disorders/J.G. Williams, P. Sottile, M. Moss, B.J. Clark, Aurora, CO, p.A6737**

MINI SYMPOSIUM

C95 COPD ADVANCES IN THERAPY**2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Ballroom B (South Building, Level 3)**

Chairing: N. Hanania, MD, MS, Houston, TX
R. Casaburi, MD, PhD, Torrance, CA
A. Anzueto, MD, San Antonio, TX

Oral Presentations

- 2:15 Health Coaching Improves Self Management in COPD After a Hospitalization/R. Benzo, P. Novotny, C. McEvoy, Rochester, MN, p.A6738**
- 2:30 Program of Integrated Care for Patients with Chronic Obstructive Pulmonary Disease and Multiple Comorbidities (PIC COPD+): A Randomized Controlled Trial/L. Rose, L. Istanbulian, L. Carriere, A. Price, L. Lee, S. Rezaie, R. Shefai, I. Fraser, Toronto, Canada, p.A6739**
- 2:45 A Multicenter, Prospective, Randomized, Controlled Trial of Endobronchial Valve Treatment vs Standard of Care in Heterogeneous Emphysema (TRANSFORM)/S.V. Kemp, D.-J. Slebos, A. Kirk, M. Kornaszewska, K. Carron, L. Ek, H. Mal, C. Pison, N.J. Downer, G. Broman, K. Darwiche, J. Rao, R.-H. Hubner, V. Trosini-Desert, R. Eberhardt, F.J.F. Herth, E. Derom, C.H. Marquette, London, United Kingdom, p.A6740**



- 3:00** **A Randomized Controlled Trial of AZD7624, an Inhaled p38 MAP Kinase Inhibitor, in COPD Patients on ICS/LABA with a History of Frequent Exacerbations/B.J. Make, N. Patel, D. Cunoosamy, M.N. Brown, M. Fageras, S. Lundin, S. Asimus, R. Palmer, Z. Taib, P. Jansson, S.I. Rennard, Denver, CO, p.A6741**
- 3:15** **Single Inhaler, Once-Daily, Triple Therapy (ICS/LAMA/LABA) in Patients with Advanced COPD: Health-Related Quality of Life (HRQoL) and Activity Outcome Results from the FULFIL Trial/M. Tabberer, D. Lomas, H. Barnacle, R. Birk, N. Brealey, C.-Q. Zhu, S. Pascoe, N. Locantore, D.A. Lipson, Uxbridge, United Kingdom, p.A6742**
- 3:30** **ICS Withdrawal and Treatment with a Fixed-Dose LABA/LAMA Combination: The German Real-Life DACCORD COPD Cohort/H. Worth, R. Buhl, C.-P. Crie, P. Kardos, N.S. Lossi, C. Mailander, C. Vogelmeier, Furth, Germany, p.A6743**
- 3:45** **Indacaterol/Glycopyrronium Improves Lung Function and Health Status Versus Salmeterol/Fluticasone in Moderate-to-Very Severe COPD Patients Irrespective of Prior ICS/LABA/LAMA Therapy: The FLAME Study/N. Roche, J.A. Wedzicha, J.F. Donohue, S. Fucile, A. Yadao, T. Ayers, S. Maitra, A. Fowler Taylor, R. Fogel, F. Patalano, D. Banerji, Paris, France, p.A6744**
- 4:00** **Effect of Carbocysteine Lysine Salt in Prevention of Exacerbation of Chronic Obstructive Pulmonary Disease in Patient Treated with or Without Inhaled Steroids/F. Saibene, G. Paone, L. Lanata, R. Delli Colli, Milano, Italy, p.A6745**

MINI SYMPOSIUM

C96 CRITICAL CARE: NEW DISCOVERIES IN ARDS

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 145 A-B (Middle Building, Street Level)

Chairing: R.G. Brower, MD, Baltimore, MD
J.A. Bastarache, MD, Nashville, TN
R. Baron, MD, Boston, MA

Oral Presentations

- 2:15** **Acute Lung Injury Induces Diaphragm Contractile and Mitochondrial Dysfunction/L.A.P. Callahan, E.A. Schroder, L. Wang, X.-H. Song, G.S. Supinski, Lexington, KY, p.A6746**
- 2:30** **Circadian Rhythm Influences the Susceptibility of Mice to Ventilator-Induced Lung Injury/M. Felten, L.G. Teixeira-Alves, E. Letsiou, C. Chaput, H.C. Mueller-Redetzky, N. Suttorp, M. Wittenrath, Berlin, Germany, p.A6747**
- 2:45** **Elevated Plasma Concentrations of Soluble Suppressor of Tumorigenicity-2 (sST2) Accurately Discriminates Acute Respiratory Distress Syndrome from Acute Heart Failure/S.D. Levy, B.T. Thompson, M.A. Matthay, J.L. Januzzi, D.C. Christiani, E. Bajwa, Boston, MA, p.A6748**
- 3:00** **Consistent ARDS Endotypes Are Identified Using Minimal Data from a United Kingdom Clinical Trial/C.S. Calfee, K.R. Delucchi, M.A. Matthay, M. Shankar-Hari, J. Hackett, C. McDowell, J. Laffey, C.M. O'Kane, D.F. McAuley, San Francisco, CA, p.A6749**

- 3:15** **Genome Wide Analysis of Sepsis-Associated ARDS Implicates DNA J Heat Shock C1 (DNAJC1)/N.J. Meyer, J.P. Reilly, B.J. Anderson, J.A. Palakshappa, M.G.S. Shashaty, C.A.G. Ittner, R. Feng, J.D. Christie, Philadelphia, PA, p.A6750**
- 3:30** **Plasma sRAGE Is a Genetically Regulated Risk Factor for Sepsis-Associated ARDS/T.K. Jones, J.P. Reilly, T. Dunn, J. Abbott, F. Wang, B. Lim, C.A.G. Ittner, B.J. Anderson, M.G.S. Shashaty, J.A. Palakshappa, M.A. Matthay, C.S. Calfee, R. Feng, J.D. Christie, N.J. Meyer, Philadelphia, PA, p.A6751**
- 3:45** **The RALE Score for Radiographic Assessment of the Quantity of Lung Edema: Association with Clinical Outcomes and Response to Fluid Treatment in ARDS/M. Warren, J.A. Bastarache, C.M. Shaver, M.W. Semler, T.W. Rice, Z. Zhao, T. Koyama, M.A. Matthay, C.S. Calfee, L.B. Ware, Nashville, TN, p.A6752**
- 4:00** **Impact of a Fully Controlled Ventilation in the First Days of ARDS: An Ancillary Analysis of the LUNG SAFE Study/T. Pham, J. Laffey, G. Bellani, E. Fan, F. Madotto, L. Heunks, M. Dres, E. Goligher, J. Lynch, H. Wrigge, D.F. McAuley, L.J. Brochard, F. Van Haren, Toronto, Canada, p.A6753**

MINI SYMPOSIUM

C97 CHARACTERIZING THE MANY FACES OF ASTHMA

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 202 B (South Building, Level 2)

Chairing: G.B. Marks, MBBS, PhD, Sydney, Australia
S.B. Khatri, MD, MSc, Cleveland, OH
C.D. Ramsey, MD, Winnipeg, Canada

Oral Presentations

- 2:15** **Susceptibility to Exacerbation in Adult Asthma: Characterization of the Exacerbation-Prone Phenotype/N.L. Grossman, T.S. King, E. Bleecker, J.C. Cardet, T.F. Carr, L.C. Denlinger, J.A. Krishnan, D. Meyers, V.E. Ortega, W. Phipatanakul, S. Ramratnam, M. Wechsler, E. Israel, Boston, MA, p.A6754**
- 2:30** **Prediction Models for Severe Exacerbations of Asthma: Systematic Review and External Validations/R. Loymans, T.P.A. Debray, H. Reddel, P.J. Sterk, G. Ter Riet, Amsterdam, Netherlands, p.A6755**
- 2:45** **Baseline Characteristics Associate with Persistent Asthma Severity at 1 and 2 Years of Follow-Up in the Severe Asthma Research Program (SARP)/S.E. Wenzel, B. Phillips, M. Gauthier, E.R. Bleecker, D.A. Meyers, W.C. Moore, E. Israel, A.M. Fitzpatrick, R.L. Sorkness, D. Mauger, Pittsburgh, PA, p.A6756**
- 3:00** **Phenotyping Asthma in the Athlete/A. Cote, J. Turmel, L.-P. Boulet, Calgary, Canada, p.A6757**
- 3:15** **Prevalence and Cluster Analysis of Treatable Traits in the European U-BIOPRED Adult Asthma Cohort/A.J. Simpson, P.-P. Hekking, D. Shaw, A. Sousa, L. Fleming, G. Roberts, I. Pandis, A. Bansal, J. Corfield, S. Wagers, R. Djukanovic, K.F. Chung, P.J. Sterk, J. Vestbo, S.J. Fowler, Manchester, United Kingdom, p.A6758**



- 3:30** **Characteristics of Moderate to Severe Asthma with Fungal Sensitization/K. Masaki, K. Fukunaga, M. Matsusaka, H. Kabata, T. Tanosaki, T. Mochimaru, T. Kamatani, K. Ohtsuka, R. Baba, S. Ueda, Y. Suzuki, F. Sakamaki, Y. Oyamada, T. Inoue, T. Oguma, K. Sayama, H. Koh, M. Nakamura, A. Umeda, K. Kamei, K. Asano, T. Betsuyaku, Tokyo, Japan, p.A6759**
- 3:45** **Diagnosing Occupational Asthma: Diagnostic Accuracies of Airway Responsiveness and Airway Inflammation/G. Racine, R. Castano, C. Lemiere, Montreal, Canada, p.A6760**
- 4:00** **Change in Type 2 Inflammatory Gene Expression Following Systemic Corticosteroids in the Upper and Lower Airways of Children with Asthma Within the Severe Asthma Research Program (SARP)/A. Coverstone, L. Bacharier, M. Peters, W.G. Teague, A.M. Fitzpatrick, B. Gaston, W. Phipatanakul, N. Ly, S. Ramratnam, A. Hastie, P.G. Woodruff, S. Kerr, J.V. Fahy, B. Phillips, S.E. Wenzel, M. Castro, St. Louis, MO, p.A6761**

MINI SYMPOSIUM

C98 HOT THINGS: INFLAMMATION, REMODELING, AND SYSTEMIC DISEASE IN PULMONARY HYPERTENSION

2:15 p.m. - 4:15 p.m. MARIOTT MARQUIS WASHINGTON

Liberty Ballroom I-L (Level M4)

Chairing: C. Guignabert, PhD, Le Plessis Robinson, France
E.F. Spiekerkoetter, MD, Palo Alto, CA

Oral Presentations

- 2:15** **HIMF/HMGB1 Signaling Axis Mediates Vascular Inflammation in the Pathogenesis of Pulmonary Hypertension/Q. Lin, C. Fan, K. Yamaji-Kegan, J.T. Skinner, K. Van Raemdonck, X. Fang, R.A. Johns, Baltimore, MD, p.A6762**
- 2:30** **Activated Conventional Dendritic Cells as Drivers in the Pathophysiology of Idiopathic Pulmonary Arterial Hypertension (IPAH)?/T. Koudstaal, J. Van Hulst, T. Das, P. Heukels, D. Merkus, M. De Raaf, I. Bergen, H.J. Bogaard, C. Reis E Sousa, G. Van Loo, R. Hendriks, K. Boomars, M. Kool, Rotterdam, Netherlands, p.A6763**
- 2:45** **Antagonism of the Serotonin 2B Receptor Prevents Pathologic Remodeling and Recruitment of Bone Marrow Derived Proangiogenic Cells to the Pulmonary Vasculature in a Mouse Model of Pulmonary Arterial Hypertension/N. Bloodworth, E.J. Carrier, J.D. West, S.M. Majka, S. Gladson, S. Shay, C. Gaskill, J. Hutcheson, D. Merryman, Nashville, TN, p.A6764**
- 3:00** **Expansion of Resident Smooth Muscle Cells Marks the Remodeling Process in the Pulmonary Vasculature/S. Crnkovic, L.M. Marsh, E. El Agha, R. Voswinckel, B. Ghanim, W. Klepetko, E. Stacher-Priehse, W. Bloch, H. Olschewski, S. Bellusci, A. Olschewski, G. Kwapiszewska, Graz, Austria, p.A6765**

- 3:15** **Fos-Related Antigen 2 (Fra-2)-Driven Interleukin-1 Expression Leads to Pulmonary Remodeling Via Interleukin-6 and Tenascin C in Systemic Sclerosis/A. Gungl, S. Crnkovic, V. Biasin, L.M. Marsh, A. Sahu-Osen, E. Stacher-Priehse, L. Brcic, F. Schneider, N. Cikes, B. Ghanim, W. Klepetko, B. Odler, G. Kovacs, R. Eferl, H. Olschewski, A. Olschewski, G. Kwapiszewska, Graz, Austria, p.A6766**
- 3:30** **PDLIM5 Regulates Hypoxia-Induced Metabolic Shift and Pulmonary Hypertension Via ENO1/G. Zhou, J. Dai, Q. Zhou, T. Chen, W. Zhang, Chicago, IL, p.A6767**
- 3:45** **Pulmonary Hypertension-Induced Exercise Intolerance Is Improved with Exercise and Correlates with Expression of Skeletal Muscle Respiratory Chain Proteins/N. Kue, A. Vang, D.J. McCullough, T. Mancini, R.T. Clements, G. Choudhary, Providence, RI, p.A6768**
- 4:00** **Metabolic Syndrome and Heart Failure with Preserved Ejection Fraction: A New Model of Pulmonary Hypertension Associated with Left Heart Disease/B. Ranchoux, F. Potus, E. Tremblay, R. Paulin, O. Boucherat, S. Provencher, S. Bonnet, Quebec, Canada, p.A6769**

MINI SYMPOSIUM

C99 THE TUMOR MICROENVIRONMENT: TARGETING THE SOIL TO KILL THE TUMOR SEED

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 202 A (South Building, Level 2)

Chairing: Z.G. Fridlender, MD, Jerusalem, Israel
R.L. Keith, MD, Denver, CO
Y. Tesfaigzi, PhD, Albuquerque, NM

Featured Speaker

- 2:15** **Overview/S.M. Albelda, MD, Philadelphia, PA,**

Oral Presentations

- 2:30** **Reduced Expression of Transforming Growth Factor β Type-2 Receptor in Non-Small Cell Lung Cancer Drives IL-17A Dependent Inflammation Via $\gamma\delta$ T Cells/K. Nolan, D. Tippimanchai, G. Verzosa, W. Zhao, H. Li, P. Simonian, S. Malkoski, Aurora, CO, p.A6770**
- 2:45** **Circulating Fibrocytes Depletion Results in Reduced Lung Tumor Growth and Metastasis by Modulating Macrophage Phenotype, Angiogenesis and Endothelin System/R. Savai, A. Asafova, X. Zheng, A. Schmall, A. Weigert, S.S. Pullamsetti, W. Seeger, Bad Neuheim, Germany, p.A6771**
- 3:00** **Tumor Cell-Intrinsic CTLA4 Regulates PD-L1 Expression in Non-Small Cell Lung Cancer/J. Li, H. Zhang, P. Dutta, J. Liu, N. Sabri, Y. Song, W.X. Li, La Jolla, CA, p.A6772**
- 3:15** **Re-Education of Tumor-Associated Macrophages by Modulating Histone Deacetylases in Lung Cancer/X. Zheng, P. Sarode, A. Weigert, S. Guenther, P. Chelladurai, S.S. Pullamsetti, W. Seeger, R. Savai, Bad Nauheim, Germany, p.A6773**



- 3:30** **T Cell Complements in Thoracic Tumor Draining Lymph Nodes Demonstrate an Immunosuppressive Phenotype in Patients with Non-Small Cell Lung Cancer/V.** Murthy, J. Minehart, J.L. Bessich, G.C. Michaud, J.J. Tsay, M.A. Curotto De Lafaille, D.H. Sterman, New York, NY, p.A6774
- 3:45** **Genome-Wide Transcriptomic Analysis of Bronchoalveolar Lavage Cells from Advanced Non-Small Cell Lung Cancer Identifies Characteristic Gene Expression in Local Tumor Environment/C.-H.S. Kuo, C.-Y. Liu, C.-H. Chen, C.-L. Wang, F.-T. Chung, T.-Y. Lin, T.-Y. Wang, Y.-L. Lo, W.-Y. Wang, J.-H. Lian, Y.-T. Chiou, T.-H. Wang, C.-T. Yang, Taipei, Taiwan, p.A6775**
- 4:00** **Chronic Inflammation in Chronic Obstructive Pulmonary Disease Induces Growth and Metastasis of Lung Cancer Cells Via IL-6/JAK/STAT3/NF- κ B Signaling Pathway/N.** Wang, F. Liu, Q. Hong, C. Bai, Shanghai, China, p.A6776

POSTER DISCUSSION SESSION

C101 IPF: CLINICAL STUDIES, THERAPEUTICS, AND MORE II

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 206 (South Building, Level 2)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: D.J. Lederer, MD, MS, New York, NY
P.J. Sime, MD, Rochester, NY
H. Li, MD, PhD, Shanghai, China

- 601** **Appropriateness of Prescribing Nintedanib for Idiopathic Pulmonary Fibrosis - an Institutional Experience/S.** Yau, S. Raheem, A. Rueda, L. Pandit, S. Bujarski, Houston, TX, p.A6777
- 602** **Accuracy and Reliability of Review Articles on Idiopathic Pulmonary Fibrosis: A Systematic Review of Narrative Reviews/C.** Chan, K.M. Milne, J.H. Fisher, K. de Boer, C.J. Ryerson, Vancouver, Canada, p.A6778
- 603** **Real World Experience with Nintedanib in an ILD Clinic/S.** Oliveira, L. Johns, M. Walshaw, E. Hilal, J. Holemans, Liverpool, United Kingdom, p.A6779
- 604** **Improving Disease-Related Education for Idiopathic Pulmonary Fibrosis (IPF) Patients and Their Caregivers/S.** Meadows, B. Graney, A. Harshman, J.J. Swigris, Denver, CO, p.A6780
- 605** **The Persistence of Pro-Inflammatory Alveolar Macrophage Activation in Idiopathic Pulmonary Fibrosis (IPF) Suggests a Damaging Role for Iron Accumulation/J.** Lee, I. Arisi, C. Swaisgood, M. Amicosante, E. Puxeddu, M.L. Brantly, C. Saltini, Gainesville, FL, p.A6781
- 606** **In Vivo Endobronchial Optical Imaging for Microscopic Assessment and Diagnosis of Idiopathic Pulmonary Fibrosis/L.P.** Hariri, D.C. Adams, M. Lanuti, J.C. Wain, A. Muniappan, H. Goulart, K.E. Black, A.M. Tager, M.J. Suter, Boston, MA, p.A6782

- 607** **Change in CT-Derived Fibrosis Score Correlates with Lung Function Progression in a Clinical Trial Population with Idiopathic Pulmonary Fibrosis/S.** Humphries, T.G. O'Riordan, J.S. Sundy, J.J. Zhang, Q. Gong, S. Bayly, R. Sood, G. Raghu, D.A. Lynch, Denver, CO, p.A6783
- 608** **Analytical Performance of Envisia: A Genomic Classifier for Usual Interstitial Pneumonia Pattern/P.S.** Walsh, Y. Choi, J. Lu, D.G. Pankratz, C. Marchisano, J. Clarke, G. Fedorowicz, H. Jiang, M. Cao, M. Wong, E. Tom, J. Barbiarz, J. Anderson, Z. Hu, J. Huang, G.C. Kennedy, South San Francisco, CA, p.A6784
- 609** **Identification of Potential Biomarkers for Patients with Idiopathic Pulmonary Fibrosis by LC-MS Based Metabolomics/M.** Funke-Chambour, C. Schmid, C. Strebel, K. Krempaska, T. Geiser, C. Bovet, B. Rindlisbacher, Berne, Switzerland, p.A6785
- 610** **Bronchoalveolar Lavage Fluid Cytokine Profiles in Idiopathic Pulmonary Fibrosis Patients May Define Distinct Prognostic Groups/M.** Sterclova, M. Smetakova, J. Skibova, M. Vasakova, Prague, Czech Republic, p.A6786
- 611** **Nintedanib Attenuates Lung Function Decline in a Bleomycin-Induced Rat Model of Pulmonary Fibrosis/R.** Carrington, S. Jordan, J. Dewhurst, K. Thang, A. Curkovic, N. Stapleton, K. Meecham, Cambridgeshire, United Kingdom, p.A6787
- 612** **Repeat Low Doses of Bleomycin Induces Progressive Changes in Murine Lung Mechanics Associated with the Development of Pulmonary Fibrosis/R.** Carrington, S. Jordan, K. Meecham, S. Pitchford, D. Spina, J. Dewhurst, C. Page, Cambridgeshire, United Kingdom, p.A6788
- 613** **Basal and Serial Plasma Biomarkers Predict Progression-Free Survival in Idiopathic Pulmonary Fibrosis/E.S.** White, M. Xia, S. Murray, B.B. Moore, D.N. O'Dwyer, J. Kurtis, F.J. Martinez, K.R. Flaherty, Ann Arbor, MI, p.A6789
- 614** **The PROFILE (Prospective Observation of Fibrosis in the Lung Clinical Endpoints) Study/T.M.** Maher, R. Braybrooke, M.J. Costa, A.-M. Duggan, W.A. Fahy, R. Hubbard, P. Lukey, R.P. Marshall, E. Oballa, G. Saini, J.K. Simpson, A.U. Wells, R.G. Jenkins, London, United Kingdom, p.A6790
- 615** **CYFRA-21-1 as a Biomarker with Prognostic Potential in Idiopathic Pulmonary Fibrosis: An Analysis of the PROFILE Cohort/J.K.** Simpson, T.M. Maher, J. Bentley, R. Braybrooke, P. Carter, M.J. Costa, A.-M. Duggan, W.A. Fahy, R.P. Marshall, E. Oballa, G. Saini, R.G. Jenkins, Stevenage, United Kingdom, p.A6791
- 616** **Prospective Validation of a Genomic Classifier for Usual Interstitial Pneumonia in Transbronchial Biopsies/K.K.** Brown, Y. Choi, T.V. Colby, K.R. Flaherty, S. Groshong, U. Imtiaz, D.A. Lynch, J.L. Myers, M.P. Steele, F.J. Martinez, D.G. Pankratz, P.S. Walsh, J. Huang, N.M. Barth, G. Raghu, G.C. Kennedy, Denver, CO, p.A6792
- 617** **Idiopathic Pulmonary Fibrosis and the MUC5B Promoter Variant rs35705950 Are Associated with Elevated Concentrations of MUC5B in Bronchoalveolar Lavage Fluid/J.S.** Lee, B.J. Ley, C.E. Hennessy, A. Estrella, A.D. Walts, M.I. Schwarz, P.J. Wolters, H.R. Collard, I. Yang, D.A. Schwartz, Aurora, CO, p.A6793



- 618 The Global Idiopathic Pulmonary Fibrosis (IPF) Collaborative Network: A Platform for IPF Genetics/T.D. Walker, J.A. de Andrade, E. Bendstrup, T.S. Blackwell, R. Borie, K.K. Brown, J.D. Christie, H.R. Collard, T.J. Corte, B. Crestani, R.M. du Bois, O. Eickelberg, K.F. Gibson, M. Henry, G. Gudmundsson, N. Hirani, Y. Inoue, R.G. Jenkins, D. Kass, S.M. Kawut, J.M. Keane, D.S. Kim, G. Laurent, D.J. Lederer, J.E. Loyd, N. Mogulkoc, M. Molina-Molina, S. Nathan, I. Noth, K. Ohta, H. Parfrey, C.M. Prele, M. Selman, J.W. Song, M. Sterclova, M.D. Tobin, M. Vasakova, P.J. Wolters, J. Powers, A. Waltz, M.I. Schwarz, D.A. Schwartz, Aurora, CO, p.A6794**
- 619 Evidence of Recent Positive Selection at Loci Conferring Risk for Pulmonary Fibrosis/R. Blumhagen, I.V. Yang, C.D. Langefeld, D.A. Schwartz, T.E. Fingerlin, Denver, CO, p.A6795**
- 620 PrepABEL: A Bioinformatic Tool for Preprocessing Imputed Genotype Dosage Data for Survival Analyses/J.M. Lorenzo-Salazar, S.-F. Ma, J.M. Oldham, I. Noth, C. Flores, Granadilla de Abona, Tenerife, Canary Islands, Spain, p.A6796**
- 621 The Effect of N-Acetylcysteine on Idiopathic Pulmonary Fibrosis: A Meta-Analysis/Y.L. Li, W. Luo, Chengdu, China, p.A6797**
- 622 Time-to-Event Analysis of Common Adverse Events with Pirfenidone in Patients with IPF- a Pooled Analysis of Three Phase III Clinical Trials/W.R. Mason, S.D. Nathan, J.D. Zibrak, M.L. Padilla, F. Gilberg, U. Petzinger, K. Kirchgassler, L.H. Lancaster, Nashville, TN, p.A6798**
- 623 Plasma Biomarkers of Diffuse Parenchymal Lung Disease in Hermansky-Pudlak Syndrome/S.M. Fortier, M. Burdick, B.R. Gochoico, B. Mehrad, Charlottesville, VA, p.A6799**
- 624 Generation of Mouse Lung Epithelial Cell Models of Hermansky-Pudlak Syndrome (HPS) Via CRISPR-Cas9 Mediated Mutation in MLE15/S. Kook, A. Qi, P. Wang, S. Meng, P. Gulleman, L.R. Young, S.H. Guttentag, Nashville, TN, p.A6800**
- 625 Patient-Reported Symptoms of Gastroesophageal Reflux in a Cohort of Patients with Idiopathic Pulmonary Fibrosis/A.E.F. Dimmock, R. Bascom, S.K. Danoff, H. Lehmann, T.H. Dimmock, C.H. Chuang, M. Weiner, F. Cordova, Hershey, PA, p.A7684**
- 701 ANG2 as a Marker for ARDS in the MICU/M. Reilly, A.J. Harriott, J. Howrylak, Hershey, PA, p.A6801**
- 702 Identification of Plasma MicroRNA Changes Highly Associated with Pediatric Acute Respiratory Distress Syndrome/A. Santana, E. Grayck, C. Sucharov, P. Mourani, A. Karimpour, K. Burgess, T. Carpenter, Aurora, CO, p.A6802**
- 703 Does the P/F Ratio Help or Hinder the Recognition of ARDS?/K. Moghbeli, R. Lugo, J.P. Reilly, B. Fuchs, Philadelphia, PA, p.A6803**
- 704 Postoperative Acute Lung Injury Following Lung Cancer Surgery: What Are the Risk Factors?/H.J. Kim, C.-H. Kim, S.I. Cha, J. Lee, D.H. Lee, Daegu, Korea, Republic of, p.A6804**
- 705 Obesity Is a Risk Factor for the Development of ARDS in Mechanically Ventilated Patients in Peru/E. Gupta, P. Herrera, R. Roldan, E. Paz, A.A. Jaymez, E.E. Chirinos, J. Quispe, R.G. Brower, W. Checkley, Philadelphia, PA, p.A6805**
- 706 External Validity of Electronic Sniffers for Automated Recognition of Acute Respiratory Distress Syndrome/A.C. McKown, L.B. Ware, J.P. Wanderer, Nashville, TN, p.A6806**
- 707 Risk Factors for the Development of Acute Respiratory Distress Syndrome in Critically Ill Patients with Cirrhosis/P. Yang, P. Formanek, S. Scaglione, S. Patel, R.S. Cooper, M. Afshar, Maywood, IL, p.A6807**
- 708 The Epidemiology of ARDS in Patients Not Admitted to the Intensive Care Unit from the Emergency Department/M. Wert, C.M. Risaliti, M. Exline, N. Ali, Columbus, OH, p.A6808**
- 709 Evolution of Patients with Mild ARDS: Insight from the LUNG SAFE Study/T. Pham, C. De Haro, J.A. Lorente, M.J. Schultz, G. Bellani, P. Pelosi, A. Serpa Neto, J. Laffey, L.J. Brochard, A. Pesenti, A. Artigas, Toronto, Canada, p.A6809**
- 710 Excess Oxygen Exposure as a Risk Factor for the Development of Acute Chest Syndrome in Sickle Cell Disease/S.M. Lin, S. Lanzkron, C. Haywood, N. Aggarwal, Baltimore, MD, p.A6810**
- 711 Data-Driven Prediction and Risk Score Model for Tachycardia Event in the Intensive Care Unit/J.H. Yoon, L. Mu, L. Chen, A.W. Dubrawski, M. Hravnak, M.R. Pinsky, G. Clermont, Pittsburgh, PA, p.A6811**
- 712 Sensitivity of the Adult Early Warning System (EWS) in Ruling Out Cardiac Arrests in the Wards and the ICU/P. Lee, S. Hartigan, A. Dow, C. Banas, C. Sessler, M.G. Kashiouris, Richmond, VA, p.A6812**
- 713 Rothman Index on Admission to the Medical Intensive Care Unit: A Strong Predictor of Outcomes/S. Daouk, H.A.M. Fakhri, I. Faruqi, Gainesville, FL, p.A6813**
- 714 Early Prediction of Clinically Significant Deterioration of Critically Ill Patients/I.M. Pessach, A. Nimrod, A. Lipsky, D. Talmor, M.F. O'Connor, E. Segal, I. Matot, Tel-Hashomer, Israel, p.A6814**
- 715 Accuracy of Clinician Intuition and Comparison to an Early Warning Score for Predicting Intensive Care Unit Readmission/J.C. Rojas, P.G. Lyons, L. McCauley, J. Picart, A.M. Snyder, M. Kilaru, N.M. Twu, D. Edelson, M.M. Churpek, Chicago, IL, p.A6815**

POSTER DISCUSSION SESSION

C102 CRITICAL CARE: PREDICTING AND IDENTIFYING ARDS DEVELOPMENT, SEPSIS AND CLINICAL DETERIORATION

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 209 A-C (South Building, Level 2)

Poster Viewing 2:15-3:00
Discussion 3:00-4:15

Chairing: W. Checkley, MD, PhD, Baltimore, MD
A. Esper, MD, MSc, Atlanta, GA
M.W. Sjoding, MD, Ann Arbor, MI



- 716 Adding Lactic Acid Level to qSOFA in Emergency Room Will Identify More Patients with Sepsis and Will Be Better Predictive of Mortality/T. Said Ahmed, D. Shahi, N.P. Kalra, A. Yazji, A. Talat, V. Patthapati, S. Ibrahim, A.S. Rajabalan, M. Elahee, J. BarreraCalix, R. Parise, Youngstown, OH, p.A6816**
- 717 Utilization of an Electronic Warning System for the Early Identification of Sepsis Differs Between Resident and Hospitalist Units and Is Associated with Patient Outcomes/K. Secunda, A. Frogameni, S.R. Russell, Chicago, IL, p.A6817**
- 718 The Early Natural History of Sepsis: Symptoms and Visits in the Days Leading Up to Sepsis Hospitalization/K.M. DeMerle, H.C. Prescott, V. Liu, Ann Arbor, MI, p.A6818**
- 719 Association Between Haematocrit and Volume of Parenteral Fluid Administered in Septic Shock/M.J. Maiden, M.E. Finnis, M. Bailey, S. Peake, A.P. Delaney, R. Bellomo, Adelaide, Australia, p.A6819**
- 720 Does Bioimpedance Analysis Predict Volume Overload States and Clinically Relevant Outcomes in Septic Intensive Care Unit Patients? A Prospective Observational Study (BIOVISION)/F. Lalji, B. Rochweg, J.H. Cheung, C.M. Ribic, P. Pop, G.L. Jones, P. Hosek, D.J. Cook, M.O. Meade, C.M. Clase, P.J. Margetts, A.S. Gangji, Hamilton, Canada, p.A6820**
- 721 Prehospital Diagnostic and Prognostic Biomarkers of Sepsis: A Prospective Cohort Study/C.W. Seymour, C. Martin-Gill, J. Kahn, C. Callaway, D.M. Yealy, D.C. Angus, Pittsburgh, PA, p.A6821**
- 722 Plasma TRAIL Levels Correlate with Organ Injury and Predict Organ Failure During Critical Illness/K.C. Ma, D.R. Price, T. Nicholson, E. Finkelstein, M.A. Pabon, K. Nakahira, I.I. Siempos, A.M.K. Choi, E.J. Schenck, New York, NY, p.A6822**
- 723 Red Blood Cell Filterability Is Diminished in Critical Illness/C. Dony, S. Mroczek, G. Tsang, O. Wexler, D. Oldfield, K. Falkner, M. Gorgone, S. Rasul, R. Schultz, M.L. Malnoske, M.J. Apostolakis, A.P. Pietropaoli, Rochester, NY, p.A6823**
- 724 Risk of Bleeding After Tracheostomy Is Not Significantly Influenced by Anti-Coagulation Use: A Retrospective Chart Review of 978 Adult Patients/A. Rajagopal, K. Alfonso, M.R. Kaufman, M. Liu, M. Khosravi, R. Aouad, Lexington, KY, p.A6824**
- 201 Effect Modification of Long-Term PM2.5-Mortality Relationship by Temperature in the US/C. Lim, L. Yinon, J. Ahn, R. Hayes, Y. Shao, G.D. Thurston, New York, NY, p.A6825**
- 202 Assessing the Performance of the Air Quality Health Index Plus (AQHI Plus) in Detecting Health Services Utilization for Asthma and COPD in Ontario, Canada/L.Y. Feldman, J. Zhu, T. To, Toronto, Canada, p.A6826**
- 203 Association of Ambient Pollution with Inhaler Use Among COPD Patients: A Panel Study/S. Magzamen, A. Oron, E. Locke, R. Thomas, V.S. Fan, Fort Collins, CO, p.A6827**
- 204 Ambient Air Pollution, Traffic Noise and Adult-Onset Asthma: The HUNT Study, Norway/Y. Cai, S. Hodgson, M. Blangiardo, K. De Hoogh, D. Morley, J. Gulliver, K. Hveem, P. Elliott, A. Hansell, London, United Kingdom, p.A6828**
- 205 Short-Term Exposure to Ambient Nitrogen Dioxide Is Associated with Pneumonia and Pneumonia Severity/C.S. Pirozzi, B.E. Jones, J.A. Vanderslice, Y. Zhang, R. Paine, N.C. Dean, Salt Lake City, UT, p.A6829**
- 206 Short-Term Particulate Air Pollution Exposure Is Associated with Health Status Decline in Patients with Fibrotic Sarcoidosis/C.S. Pirozzi, D. Mendoza, Y. Zhang, M.B. Scholand, R.P. Baughman, Salt Lake City, UT, p.A6830**
- 207 Effect Modification by Differing Omega-6(n-6) to Omega-3 (n-3) Ratios on the Adverse Changes in Fibrinogen Associated with Ambient Particulate Air Pollution/D.P. Croft, S.J. Cameron, C.N. Morrell, C.J. Lowenstein, F. Ling, W. Zareba, P.K. Hopke, K. Thevenet-Morrison, S.W. Thurston, K. Evans, M.J. Utell, D. Chalupa, R. Block, D.Q. Rich, Rochester, NY, p.A6831**
- 208 The Association Between Source Specific Particulate Pollution and Triggering of ST-Elevation Myocardial Infarction Using Land Use Regression Estimates/D.P. Croft, P.K. Hopke, M.J. Utell, S.W. Thurston, K. Thevenet-Morrison, K. Evans, F. Ling, Y. Tian, D.Q. Rich, Rochester, NY, p.A6832**
- 209 Lung Cancer Risk Due to PM and PM-Bound PAHs Exposure from Barbecues Powered by Gas, Lump Charcoal and Charcoal Briquettes/A.J. Badyda, K. Widziewicz, W. Rogula-Kozłowska, G. Majewski, I. Jureczko, A. Gayer, D. Mucha, P. Dabrowiecki, Warsaw, Poland, p.A6833**
- 210 Oxidized Phosphatidylcholine in Human Airways Upon Exposure to Allergen and/or Diesel Exhaust/M.H. Ryu, A. Jha, C.D. Pascoe, A. Ravandi, A.J. Halayko, C. Carlsten, Vancouver, Canada, p.A6834**
- 211 Short-Term Acute Exposure of Healthy Humans to Particulate Matter Induces Differential Gene Expression in Lung Immune Cells/A.Y. Meliton, T. Cho, R.B. Hamanaka, R. Nigdelioglu, K. Sun, G.S. Budinger, A.J. Ghio, G.M. Mutlu, Chicago, IL, p.A6835**
- 212 Particulate Matter and Ionomycin-Induced Neutrophil Extracellular Traps In Vitro/D. Wooding, O. Pena, D. Maestre-Battle, C. Carlsten, Vancouver, Canada, p.A6836**
- 213 Toxic Potential of Benzo[a]pyrene and 9-Nitroanthracene Surface Modified Carbon Black Nanoparticles on None- and Pre-Damaged Mice Lungs in Long-Term Exposure/N. Schreiber, E. Kotte, B. Muller, Marburg, Germany, p.A6837**

POSTER DISCUSSION SESSION

C103 OUTDOOR AIR POLLUTION: EPIDEMIOLOGY AND MECHANISMS

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 150 B (Middle Building, Street Level)

Poster Viewing 2:15-3:00
Discussion 3:00-4:15

Chairing: E. Garshick, MD, West Roxbury, MA
K. Cromar, PhD, New York, NY
J.A. Hirota, PhD, Vancouver, Canada



- 214 Surface Charge Effects on Inhaled Engineered Nanomaterial Delivery and Retention in the Respiratory Tract of Mice/D.X. Buskard, A. Parker, J. Schittny, X. Sun, J. Zhang, R. Wang, J. Zink, S. Li, X. Li, A. Huenger, S. Risbud, K.E. Pinkerton, Davis, CA, p.A6838**
- 215 Skewed Alveolar Macrophage Polarization Signature in Mice with Impaired Pulmonary Function Following Carbon Nanoparticle Exposure/K. Ganguly, L. George, T.A. Thimraj, S. Upadhyay, H. Schulz, T. Stoeger, Stockholm, Sweden, p.A6839**
- 216 Diesel Exhaust Particles Accelerate Pulmonary Thromboembolic Mortality in Mice/A. Freeman, E. Middleton, B. Kanth Manne, R. Campbell, A. Weyrich, G. Zimmerman, R. Paine, Salt Lake City, UT, p.A6840**
- 217 Fine Particulate Matter Co-Exposure Enhances Pulmonary Neutrophilic, but Not Eosinophilic, Inflammation in a Murine Model of Ozone-Induced Non-Atopic Asthma/J. Harkema, D. Jackson-Humbles, R. Lewandowski, M. Morishita, B. Arnetz, J. Wagner, East Lansing, MI, p.A6841**
- 218 Air Pollution and Vulnerability to Respiratory Infections: In Vitro Studies on Particulate Matter from Indian Cities/S. Gangamma, S. Desai, V. Sowmiya, V. Seethalakshmi, T.K. Deepak, D. Vishnu Priya, S. Krishnaja, Mangalore, India, p.A6842**
- 219 Adrenergic and Steroid Hormone Modulation of Ozone-Induced Pulmonary Injury and Inflammation/A.R. Henriquez, S.J. Snow, M.C. Schladweiler, A.D. Ledbetter, C.N. Miller, M. McGee, W. Williams, J.E. Richards, U.P. Kodavanti, Chapel Hill, NC, p.A6843**
- 220 PAHs Enhance the Endotoxin-Induced Reactive Oxygen Species and Inflammation of Human Bronchial Epithelial Cells/J.-R. Tsai, H.-L. Cheng, S.-K. Huang, I.-W. Chong, Kaohsiung, Taiwan, p.A6844**
- 221 Quantifying the Impact of Ambient Ozone and Nitrogen Dioxide on the Oxidative Potential of Urban PM_{2.5}/N. Camina, F.J. Kelly, I.S. Mudway, London, United Kingdom, p.A6845**
- 222 Metformin Inhibits Mitochondrial ROS Upstream of CRAC Channels in Alveolar Macrophages and Prevents Particulate Matter Air Pollution Induced Thrombosis/S. Soberanes, A.V. Misharin, A. Jairaman, M. Chi, S.E. Chiarella, A. Meliton, K. Reddy Anekalla, F.J. Gonzalez, A. McQuattie-Pimentel, R. Piseaux, H. Perlman, N.S. Chandel, M. Prakriya, G.M. Mutlu, G.S. Budinger, Chicago, IL, p.A6846**
- 223 Diesel Exhaust Exposure Decreases Glucocorticoid Responsiveness in Human Airway Epithelial Cells: Functional Reversal by a Long Acting beta₂-Adrenoceptor Agonist/C.F. Rider, M.H. Ryu, A.D. Lee, C. Carlsten, Vancouver, Canada, p.A6847**
- 224 Reducing the Toxicity of Diesel Emission Exposure on Primary Human Bronchial Epithelial Cells Cultured at an Air-Liquid Interface/A. Vaughan, S. Stevanovic, M. Jafari, B. Miljevic, Z. Ristovski, R.V. Bowman, K.M. Fong, I.A. Yang, Brisbane, Australia, p.A6848**
- 225 Benzo(a)pyrene Suppresses GM-CSF Expression in Primary Murine Alveolar Epithelial Cells Through Activity of the Aryl Hydrocarbon Receptor/A. Sturrock, D. Woller, N. Harlan, I. Jaramillo, K. Kelly, J. Lighty, R. Paine, Salt Lake City, UT, p.A6849**

POSTER DISCUSSION SESSION

C104 ACUTE RESPIRATORY INFECTION: CLINICAL STUDIES

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 144 A-C (Middle Building, Street Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: R. Nusrat, MD, Princeton, NJ
N.C. Dean, MD, Murray, UT
R. Menendez, MD, Valencia, Spain

- 101 Increased Kynurenine:Tryptophan Ratio as a Marker of Enhanced Indoleamine-2,3-Dioxygenase Activity Is Associated with Poor Clinical Outcome in Adults Hospitalised with Influenza Enrolled in the INSIGHT FLU003Plus Study/S.L. Pett, K.M. Kunisaki, D. Wentworth, I. Kalomenidis, R. Nahra, R. Montejano Sanchez, K. Ruxrungtham, C.H. Wendt, London, United Kingdom, p.A6850**
- 102 Feasibility and Safety of the Lateral-Trendelenburg Vs Semirecumbent Body Position - The Gravity-VAP Trial/M. Panigada, G. Li Bassi, O.T. Ranzani, T. Kolobow, A. Zanella, M. Cressoni, L. Berra, V. Parrini, H. Kandil, G. Salati, S. Livigni, A. Amatu, M. Girardis, M. Barbagallo, G. Moise, G. Mercurio, A. Costa, A. Vezzani, S. Lindau, J. Babel, M. Cavana, A. Torres, Milan, Italy, p.A6851**
- 103 Prognostic Value of Circulating MicroRNAs in Community-Acquired Pneumonia/F. Sanz Herrero, F.J. Dasi, F. Gimeno Valiente, S. Vicente Ferrer, M. Torres, M.J. Boix, M.J. Mompo, A. Aibar, E. Fernandez-Fabrellas, Valencia, Spain, p.A6852**
- 104 Heterogeneity of Testing for Atypical Pathogens in Hospitalized Patients with Community-Acquired Pneumonia/A. Gramegna, G. Sotgiu, M. Di Pasquale, D. Radovanovic, S. Terraneo, F. Blasi, S. Aliberti, L.F. Reyes, M.I. Restrepo, Milano, Italy, p.A6853**
- 105 SPRINT-SARI: Short-Period Incidence Study for Severe Acute Respiratory Infections: Year 1 Rapid Data from 2015-16/S. Murthy, Vancouver, Canada, p.A6854**
- 106 Omega-3 Fatty Acids Protect Against Pneumococcal Pneumonia/C.A. Hinojosa, N. Gonzalez-Juarbe, L.F. Reyes, C.J. Orihuela, M.I. Restrepo, San Antonio, TX, p.A6855**
- 107 Activity of Omadacycline When Tested Against the Respiratory Pathogens Streptococcus Pneumoniae, Haemophilus Influenzae, Moraxella Catarrhalis and Staphylococcus Aureus Isolated During 2016 from Medical Centers in the USA/R.K. Flamm, J. Steenbergen, M. Huband, P. Rhomberg, H. Sader, North Liberty, IA, p.A6856**
- 108 Risk Factors for Severe Adverse Outcomes in Patients with Hospital-Acquired Pneumonia/M. Sano, Y. Shindo, J. Okumura, T. Sakakibara, T. Matsuda, T. Yagi, K. Matsui, K. Takahashi, S. Matsui, Y. Hasegawa, Nagoya, Japan, p.A6857**



- 109 Global Burden and Risk Factors of Drug-Resistant *Pseudomonas Aeruginosa* in Patients with Community-Acquired Pneumonia: A Multinational Point Prevalence Study/B.L. Babu, L.F. Reyes, S. Aliberti, O. Sibila, A. Anzueto, M.I. Restrepo, San Antonio, TX, p.A6858**
- 110 Kinetics of Biomarkers Depends on Onset of Symptoms in Community-Acquired Pneumonia/R. Mendez, R. Menendez, T. Posadas, A. Piro, C. Cilloniz, A. Ceccato, A. Torres, Valencia, Spain, p.A6859**
- 111 A Worldwide Evaluation of Multi-Drug Resistant Organisms in Nursing Home Acquired Pneumonia/M. Di Pasquale, S. Aliberti, G. Sotgiu, A. Gramegna, S. Terraneo, D. Radovanovic, F. Blasi, L.F. Reyes, M.I. Restrepo, Milano, Italy, p.A6860**
- 112 Prevalence and Risk Factors of Drug-Resistant *Streptococcus Pneumoniae* in Patients with Community-Acquired Pneumonia: A Multinational Point Prevalence Study/L.F. Reyes, G.S. Cook, S. Aliberti, A.H. Rodriguez, F. Sanz Herrero, A. Anzueto, M.I. Restrepo, San Antonio, TX, p.A6861**
- 113 *Streptococcus Pneumoniae* Induce Necroptosis in the Myocardium of Non-Human Primates with Severe Pneumonia/L.F. Reyes, C.A. Hinojosa, B.L. Babu, N. Gonzalez-Juarbe, A. Anzueto, C.J. Orihuela, M.I. Restrepo, San Antonio, TX, p.A6862**
- 114 Antibiotic Prescribing Pattern for Pneumonia and Sepsis in Medical Wards and ICU and Effect of an Active Intervention Protocol in a Developing Country/R. Guleria, A. Mohan, N. Wig, A. Kapil, R.M. Pandey, P. Sohal, New Delhi, India, p.A6863**
- 115 Improving Mortality Prediction in Pneumonia: Addition of the Intermountain Risk Score to CURB-65 in Emergency Department Patients with Pneumonia/I.D. Mecham, B.D. Horne, A.R. Jephson, N.C. Dean, Salt Lake City, UT, p.A6864**
- 116 Impact of Prior Antibiotic Use on Outcomes for Those Subsequently Hospitalized with Pneumonia/E. Mortensen, M.L. Metersky, M. Chansard, A. Anzueto, Dallas, TX, p.A6865**
- 117 Contemporary Situation of Community-Acquired Pneumonia in China: A Systematic Review/X. Tang, Y. Zhu, Y. Lu, J. Zhang, J. Qu, Shanghai, China, p.A6866**
- 118 *Mycoplasma Pneumoniae*: Walking Pneumonia Can Cripple the Susceptible. A Study of an Inner-City Hospital in South Bronx/B. Bajantri, D.E. Pena, S. Venkatram, G. Diaz-Fuentes, Bronx, NY, p.A6867**
- 119 The Association of Corticosteroid therapy and the Outcome of Critically ill Patients with the Middle East Respiratory Syndrome/Y.M. Arabi, Y. Mandourah, F. Al-Hameed, A. Al Omari, A. Sindi, B. Alraddadi, S. Shalhoub, A. Al Motairi, K. Al Khatib, A. Abdul Mommin, I.A. Qushmaq, A. Mady, O. Solaiman, A. Al Aithan, H.H. Balkhy, R. Al-Raddadi, A. Rajab, G.A. Al Mekhlafi, A. Al Harthy, A. Kharaba, A. Al-Jabbary, R. Pinto, M. Sadat, H. Al Mutairi, E. Al Qasim, J. Jose, A.M. Deeb, L. Merson, F.G. Hayden, R. Fowler, A.S. Aldawood, Riyadh, Saudi Arabia, p.A6868**
- 120 Severity of COPD Is Associated with Multidrug Resistant Organisms in Hospitalized Patients with Community-Acquired Pneumonia/S. Terraneo, S. Aliberti, G. Sotgiu, A. Gramegna, M. Di Pasquale, D. Radovanovic, F. Blasi, S. Centanni, L.F. Reyes, M.I. Restrepo, Milan, Italy, p.A6869**
- 121 A Genoproteomic Approach to Identify Species-Specific Peptide Markers for *Burkholderia Cepacia* Complex Species/T.C. Bolig, H. Wang, O.H. Cisse, S.K. Drake, J.P. Dekker, A.F. Suffredini, Bethesda, MD, p.A6870**
- 122 Prediction of Prognosis in Community-Acquired Pneumonia After Exclusion of Healthcare-Associated Pneumonia/I. Ito, T. Ishida, H. Tachibana, H. Tomioka, H. Onishi, A. Nakagawa, Y. Hasegawa, T. Nishimura, S. Konishi, S. Kadowaki, T. Hirai, M. Mishima, Kyoto, Japan, p.A6871**
- 123 A Novel Model of Multiloculated *Streptococcus Pneumoniae* Chronic Empyema in Rabbits/G. Florova, M. Chamiso, A. Komissarov, A.O. Azghani, A. Buchanan, J. Boren, K. Koenig, T.C. Allen, S. Idell, Tyler, TX, p.A6872**
- 124 Safety and Efficacy of Procalcitonin Guidance in Patients with Suspected or Confirmed Lower Respiratory Tract Infections: A Systematic Review and Meta-Analysis/A. Claxton, P. Thompson-Leduc, N. Kirson, B. Rice, J. Hey, I. Iankova, A. Krause, S. Schonfeld, C. DeBrase, S. Bozzette, P. Schuetz, Durham, NC, p.A6873**
- 125 Test Characteristics of an Automated Polymerase Chain Reaction for the Diagnosis of *Staphylococcus Aureus* Pneumonia/J.R. Paonessa, R. Shah, M. Malczynski, C. Qi, R.G. Wunderink, Chicago, IL, p.A6874**

POSTER DISCUSSION SESSION

C105 DISORDERS OF RESPIRATORY PHYSIOLOGY AND SLEEP IN CHILDREN

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 201 (South Building, Level 2)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: B. McGinley, MD, Salt Lake City, UT
D. Lewin, PhD, Washington, DC
H. Sawnani, MD, Cincinnati, OH

501 Respiratory Muscle Function Upright and Supine in Children with Early Onset Scoliosis/G.J. Redding, V. Bompadre, W. Krengel, K. White, Seattle, WA, p.A6875

502 Effect of Idebeneone on Bronchopulmonary Adverse Events and Hospitalizations in Patients with Duchene Muscular Dystrophy (DMD)/O. Mayer, C. McDonald, T. Meier, M. Leinonen, G. Buyse, Philadelphia, PA, p.A6876

503 What the HAPE Is Going On: High Altitude Pulmonary Edema at Children's Hospital Colorado/A.M. Giesenhausen, J.T. Brinton, D. Ivy, M.R. Meier, J.P. Weinman, D.R. Liptzin, Aurora, CO, p.A6877

504 Clinical Predictors of Residual Sleep Apnea After Weight Loss Therapy in Adolescents/A. Van Eyck, K. Van Hoorenbeeck, A. De Guchteneere, L. Van Gaal, W. De Backer, S.L. Verhulst, Antwerp, Belgium, p.A6879



- 505 High Altitude Worsens Obstructive and Central Sleep Apnea in Children: A Crossover Trial of High Altitude Dwellers/B.H. Hughes, D.G. Ingram, A.C. Halbower, Aurora, CO, p.A6880**
- 506 Estimating Physiologically Appropriate Tidal Volume Ranges for Multiple Breath Washout Tests/E.L. Horton, R. Jensen, S. Stanojevic, F. Ratjen, Toronto, Canada, p.A6881**
- 507 Pediatric Polysomnography at High Altitude: Changes in at 8,660 Feet Above Sea Level/S.M. Restrepo-Gualteros, T. Patino-Patino, A. Bastidas-Jacanamijoy, J. Camargo-Paipilla, P. Martinez-Riveros, G.R. Nino, Bogota, Colombia, p.A6882**
- 508 Steroid Use Delays but Does Not Prevent Loss of Pulmonary Function in Patients with Duchene Muscular Dystrophy (DMD)/C. McDonald, H. Gordish-Dressman, E. Henricson, T. Abresch, A. Cnaan, Sacramento, CA, p.A6883**
- 509 Use of Upper Airway Cine MRI to Develop Personalized Treatment for Obstructive Sleep Apnea in Obese Children/M. Kalra, R. Elluru, E. Ey, A. Minhas, S. Gehring, Dayton, OH, p.A6884**
- 510 Retrospective Polysomnographic Data Review of Periodic Limb Movements in Sleep in Children with Sickle Cell Disease and Its Effects on Sleep/P. Kovacs, H. Fanous, M. Weiss, J. Lew, Washington, DC, p.A6885**
- 511 Overnight Oximetry as a Screening Tool for Obstructive Sleep Apnea in Infants/Z. Ehsan, S. He, G. Huang, M. Hossain, N. Simakajornboon, Kansas City, MO, p.A6886**
- 512 Is Childhood Obstructive Sleep Apnoea Properly Taught in Medical Schools? An Assessment of the Knowledge and Perception of Doctors on Obstructive Sleep Apnoea/B.P. Kuti, D.K. Kuti, Ile-Ife, Nigeria, p.A6887**
- 513 Heart Rate Variability in Children with Obstructive Sleep Apnea Before and After Non-Invasive Ventilation/J.E. MacLean, H. Edgell, H. Joshi, E. Constantin, S. Katz, Edmonton, Canada, p.A6888**
- 514 Effect of In Utero Exposure to Ceiling Particles on Post-Natal Lung Function and Immune Cell Populations/L. Chen, E. Bennett, A. Wheeler, F. Johnston, G. Zosky, Hobart, Australia, p.A6889**
- 515 Longitudinal Pulmonary Function in Children with Neuromuscular Disorders/A. Withers, C. O'Dea, T. Okitika, A. Wilson, G.L. Hall, Subiaco, Australia, p.A6890**
- 516 Effect of Gestational Age of Children Born Prematurely and Neonatal Intensive Care Unit History on Their Lung Function at School Age/E. Bar-Yishay, E. Kaplan, D. Praiss, Haifa & Beer-Sheba, Israel, p.A6891**
- 517 Accelerated Pulmonary Dysfunction in Adult Survivors of Preterm Birth/T.S. Levin, A. Beshish, K. Haraldsdottir, L. Tetri, D. Pegelow, G. Barton, M. Palta, K.N. Goss, E. Farrell, M. Eldridge, Madison, WI, p.A6892**
- 518 Lung Clearance Index in Children with Sickle Cell Disease/E. Machogu, S. Peterson-Carmichael, M. Khurana, J. Kaericher, M.D. Thompson, C.C. Clem, J. Hatch, K. Rothhaar, S.D. Davis, Indianapolis, IN, p.A6893**

- 519 Randomized Controlled Trial of Lung Hyperinflation in Children with Congenital Muscular Dystrophy/J. Pascoe, H. Sawnani, O. Mayer, A. Rutkowski, M. Hossain, R. Szczesniak, K. McConnell, J. McDonough, A. Modi, R. Amin, Cincinnati, OH, p.A7685**
- 520 The Age Dependent Response to Treatment of Obstructive Sleep Apnea in Children/D. Smith, M. DiFrancesco, M. Hossain, G. Huang, S. Ishman, R. Amin, Cincinnati, OH, p.A7686**
- 521 Predicting Critical Closing Airway Pressure in Obstructive Sleep Apnea Patients Using Fluid Structure Interaction Simulations/G. Mylavarapu, R. Fleck, K. McConnell, S. Ishman, M.A. Mahmoud, M. Hossain, S. Shott, E. Gutmark, R. Amin, Cincinnati, OH, p.A7687**

POSTER DISCUSSION SESSION

C106 MONEY DON'T MATTER TONIGHT: PULMONARY HYPERTENSION ASSESSMENT, PROGNOSTICATION, AND TREATMENT

2:15 p.m. - 4:15 p.m. **MARRIOTT MARQUIS WASHINGTON**

Marquis Ballroom 9-10 (Level M2)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: R.F. Machado, MD, Chicago, IL
R.T. Zamanian, MD, Stanford, CA
A. Trammell, MD, Atlanta, GA

- 1001 Alteration of Superoxide Dismutase Status in Patients with Idiopathic Pulmonary Arterial Hypertension/R. Zhang, L. Wang, Q.-H. Zhao, J. Rong, S.-G. Gong, P. Yuan, T.-X. Chen, J.-M. Liu, Shanghai, China, p.A6894**
- 1002 Determinants of Health Related Quality of Life in PAH: Data from the Pulmonary Hypertension Association Registry/R.T. Zamanian, D. Badesch, T.M. Bull, T. DeMarco, J. Feldman, J. Fineman, H.J. Ford, M.P. Gray, D. Grinnan, J.R. Klinger, J.W. McConnell, E. Rosenzweig, L. Santos, J. Sager, Stanford, CA, p.A6895**
- 1003 Results of Interim Analysis of the Efficacy and Safety of Bardoxolone Methyl in Patients with Pulmonary Arterial Hypertension Associated with Connective Tissue Disease (CTD) (The LARIAT Study)/R.J. Oudiz, C. Meyer, M. Chin, J. Feldman, A. Goldsberry, J.W. McConnell, P.A. McCullough, M. O'Grady, V.F. Tapson, F. Torres, A. Waxman, J. White, Torrance, CA, p.A6896**
- 1004 Incremental Efficacy of an Inhaled PDGFR Inhibitor in Combination with Tadalafil and Ambrisentan for the Treatment of Pulmonary Arterial Hypertension/R. Sitapara, C. Sugarragchaa, L. Zisman, Rensselaer, NY, p.A6897**
- 1005 Left Ventricular Assist Devices Can Reverse Pulmonary Hypertension Group 2 with Significantly Elevated Pulmonary Vascular Resistance/A. Selim, E. Raichlin, A. Burdorf, A. Siddique, M.J. Moulton, J. Um, B.D. Lowes, R. Zolty, Omaha, NE, p.A6898**



- 1006 Updated Risk Score Calculator for Patients with Pulmonary Arterial Hypertension (PAH) in the Registry to Evaluate Early and Long-Term PAH Disease Management (REVEAL)/R.L. Benza, C.G. Elliott, H.W. Farber, A.J. Foreman, A.E. Frost, M. Gomberg-Maitland, M.D. McGoon, D.J. Pasta, M. Selej, R.P. Frantz, Pittsburgh, PA, p.A6899**
- 1007 The Left and Right Ventricular End Diastolic Pressure Ratio as a Novel Marker of Disease Severity in a Cohort of Patients with Pulmonary Arterial Hypertension/A. Jose, C. King, O.A. Shlobin, A. Brown, N. Weir, J. Kiernan, N. Cossa, S.D. Nathan, Washington, DC, p.A6900**
- 1008 Wedged Pulmonary Angiography Finding Possibly Predict Response to Pulmonary Artery Hypertension Specific Treatment in Idiopathic/Hereditary-Pulmonary Artery Hypertension Patients/N. Maniwa, T. Ogo, N. Konagai, R. Asano, J. Ueda, S. Fukui, A. Tsuji, S. Yasuda, Suita, Japan, p.A6901**
- 1009 Left Ventricular Strain and Dyssynchrony by Cardiac MR Feature Tracking in Idiopathic Pulmonary Arterial Hypertension/G. Jayasekera, T. Crowe, A. Mackenzie, C. McComb, K. Mangion, M. Johnson, C. Church, C. Berry, A. Radjenovic, A. Peacock, Glasgow, United Kingdom, p.A6902**
- 1010 Left Atrial Function by Cardiac MRI in Idiopathic Pulmonary Arterial Hypertension(IPAH) and Pulmonary Hypertension Due to Heart Failure with Preserved Ejection Fraction(PH-HFpEF)/G. Jayasekera, T. Crowe, A. Mackenzie, C. Church, M. Johnson, A. Radjenovic, A. Peacock, Glasgow, United Kingdom, p.A6903**
- 1011 Changes in Hemodynamic Classification Over Time in Systemic Sclerosis-Associated Pulmonary Hypertension: Observations from the PHAROS Cohort/M.R. Lammi, L. Saketkoo, J. Gordon, V. Steen, New Orleans, LA, p.A6904**
- 1012 Initial Combination Therapy of Ambrisentan and Tadalafil and Quality of Life: SF-36 & CAMPOR Analyses from the AMBITION Trial/A. Peacock, N. Galie, J.A. Barbera, A.E. Frost, H.A. Ghofrani, M.M. Hoeper, V. McLaughlin, G. Simonneau, J.L. Vachiery, C. Blair, J.H.N. Harris, J. Langley, L.J. Rubin, Glasgow, United Kingdom, p.A6905**
- 1013 TAPIT Treatment of Pulmonary Hypertension Associated COPD with Inhaled Treprostinil: An Open Label, Pilot Study/J.W. Anderson, J. Robinson, C. Abbott, C. Meadows, M. Patel, A. Bajwa, T.M. Bull, Aurora, CO, p.A6906**
- 1014 Socioeconomic Factors Are Associated with Health-Related Quality of Life in Patients with Pulmonary Hypertension/N. Al-Naamani, J.K. Paulus, M.P. Gray, K.E. Roberts, S.M. Kawut, Philadelphia, PA, p.A6907**
- 1015 Ambrisentan in Portopulmonary Hypertension, Results from the Multicenter Prospective ANGEL Study (Ambrisentan usaGE in portopuLmonary hypertension)/I.R. Preston, C.D. Burger, W.F. Battarjee, S. Bartolome, Z. Safdar, M. Krowka, N. Sood, H.J. Ford, M. Gomberg-Maitland, M.M. Chakinala, N.S. Hill, Boston, MA, p.A6908**
- 1016 Preliminary Safety and Acute Hemodynamic Effects of rhACE2 in Human Pulmonary Arterial Hypertension/A.R. Hemnes, I.M. Robbins, M.E. Pugh, E.L. Brittain, R. Piana, P. Fong, C. Yu, J. Johnson, J.D. West, N. Penner, C. Jetter, H. Jacobs, L. Wheeler, A. Lazaar, K. Hards, J.E. Loyd, J.H. Newman, Nashville, TN, p.A7688**

- 1017 Safety and Pharmacokinetics of Ralinepag (APD811) in Healthy Adult Subjects/I.R. Preston, M. Morgan, B. Raether, J. Adams, C. Lassen, R. Christopher, Boston, MA, p.A7689**

RAPID: RAPID ABSTRACT POSTER DISCUSSION

C107 MITOCHONDRIA AND METABOLIC ALTERATIONS IN LUNG DISEASE

2:15 p.m. - 4:15 p.m. **MARRIOTT MARQUIS WASHINGTON**

Marquis Ballroom 3-4 (Level M2)

Abstract Summaries 2:15-2:45

Poster Viewing/Discussion 2:45-4:15

Chairing: M. Kang, MD, PhD, New Haven, CT
D.W. Kamp, MD, Chicago, IL
J. Bhattacharya, MD, DPhil, New York, NY

- 901 Role of Mitochondrial microRNAs in Alveolar Epithelial Type II Cells Response to Cigarette Smoke/A. Blumental-Perry, M. Hatzoglou, A. Degar, H. Kenche, K. Pandit, D. Krokowski, S.H. Guttentag, Y. Perry, P.A. Linden, G.S. Shadel, M.-J. Kang, N. Kaminski, Cleveland, OH, p.A6909**
- 902 HIF-1 α Is Required for Flow-Mediated Regulation of Endothelial Cell Metabolism/D. Wu, R.-T. Huang, M. Krause, R. Hamanaka, L.J. Witt, R. Nigdelioglu, A. Meliton, Y. Fang, G.M. Mutlu, Chicago, IL, p.A6910**
- 903 PINK1 Deficiency in AECII Triggers Release of Mitochondrial DAMPS that Initiate Pro-Inflammatory and Pro-Fibrotic Responses in the Lung/M. Bueno, K.L. Fiedler, D. Alvarez, F. Bermudez, M. Rojas, A. Pardo, M. Selman, A.L. Mora, Pittsburgh, PA, p.A6911**
- 904 Inhibition of Succinate Dehydrogenase Through Stabilization of HIF1A Is Protective in the Early Phase of Acute Lung Injury/C. Vohwinkel, N. Burns, S. Hoegl, R. Roy, H. Eltzschig, Aurora, CO, p.A6912**
- 905 Hermansky-Pudlak Syndrome 2 Mutations Alter Mitochondrial Biogenesis and Function in the Alveolar Epithelium/F. Romero, Z. Guo, A. Banerjee, D. Schriener, R. Summer, Philadelphia, PA, p.A6913**
- 906 Silica Promotes Mitochondria Dysfunction in the Alveolar Epithelium by Altering PGC1 α /SIRT3 Signaling/F. Romero, Z. Guo, A. Banerjee, D. Schriener, R. Summer, Philadelphia, PA, p.A6914**
- 907 Alveolar Epithelial Metabolic Dysfunction in Acute Lung Injury/N. Xie, J. Ge, S. Banerjee, H. Cui, V.J. Thannickal, G. Liu, Birmingham, AL, p.A6915**
- 908 Glycoprotein Stanniocalcin 1-Mediated Cellular Glycolysis and Mitochondria Biogenesis Is Dependent Upon TLR4/Y. Zhang, P. Shan, P.J. Lee, New Haven, CT, p.A6916**



- 909 Mitochondrial DNA Is Released from Lung Fibroblasts in Response to the Fibrotic Lung Microenvironment and Is Predictive of Mortality in Idiopathic Pulmonary Fibrosis/C. Ryu, H. Sun, M. Gulati, J. Herazo-Maya, A. Osafo-Addo, C. Brandsdorfer, C. Blaul, J. Faunce, H. Pan, M. Slade, W. Mehal, Y. Chen, A. Gonzalez, D. Bogenhagen, C.A. Feghali-Bostwick, K.F. Gibson, K.O. Lindell, N. Kaminski, G. Trujillo, E. Herzog, New Haven, CT, p.A6917**
- 910 NLRX1 Inhibits MAVS-Mediated NLRP3 Inflammasome Activation by Enhancing the Interaction of MAVS and PINK1/C.M. Yoon, M. Nam, C.S. Dela Cruz, M.-J. Kang, New Haven, CT, p.A6918**
- 911 FAK-Related Non-Kinase Regulates Lung Fibrosis Through Inhibition of Metabolic Reprograming/P. Che, X. Zhao, G. Cai, M. Hu, Y. Zhou, V.J. Thannickal, M. Olman, Q. Ding, Birmingham, AL, p.A6919**
- 912 TNF α Disrupts Mitochondrial Movement and Reduces Mitochondrial Proximity to Sarcoplasmic Reticulum in Human Airway Smooth Muscle/P. Delmotte, V. Zavaletta, Y.S. Prakash, G.C. Sieck, Rochester, MN, p.A6920**
- 913 Hyperoxic Exposure Reduces Glycolysis and Mitochondrial Respiration but Increases Mitochondrial Utilization of Fatty Acid in Lung Endothelial Cells/H. Yao, J.F. Carr, A.L. Peterson, P.A. Dennerly, Providence, RI, p.A6921**
- 914 Time-Resolved Proteome, Metabolome and Lipidome Profiling of Normal Lung Development/A.M. Moghieb, G. Clair, J. Kyle, Y.-M. Kim, E. Zink, V.A. Petyuk, R. Corley, C. Ansong, Richland, WA, p.A6922**
- 915 GSTP1-Catalyzed PKM2 S-Glutathionylation Regulates Glycolysis in Non-Small Cell Lung Cancer and Is Attenuated with a Clinically Relevant Inhibitor of Glutathione-S-Transferase P/J.L. Van Der Velden, C.M. Kinsey, X. Qian, S.B. Chia, R.W. Schneider, K.G. Lahue, Y. Janssen-Heininger, Burlington, VT, p.A6923**
- 916 The Mitochondrial Calcium Uniporter Modulates Macrophage Metabolic Reprogramming in Pulmonary Fibrosis Development/L. Gu, J.L. Larson-Casey, A.B. Carter, Birmingham, AL, p.A6924**
- 917 Alcohol Dysregulates Mitochondrial Morphology and Function in Alveolar Macrophages/J.R. Grunwell, S. Yeligar, Atlanta, GA, p.A6925**
- 918 Pulmonary Hypertension Induced by High Sugar Diets/J. Chun, M. Le, L. Villegas, Aurora, CO, p.A6926**
- 919 De Novo Serine/Glycine Synthesis Is Required for TGF- β -Induced Collagen Production in Human Lung Fibroblasts/R. Nigdelioglu, R.B. Hamanaka, A.Y. Meliton, E. O'Leary, L.J. Witt, K. Sun, P.S. Woods, D. Wu, N.O. Dulin, N.S. Chandel, G.M. Mutlu, Chicago, IL, p.A6927**
- 920 Effect of COPD Disease Phenotype and Smoking on ATP Hydrolysis and Gene Expression of ATP-Release Pathways and Adenosine Metabolism in Induced Sputum from SPIROMICS Subjects/W.H. Anderson, W. O'Neal, N.R. Bhakta, S.A. Christenson, H. Dang, P.G. Woodruff, R.C. Boucher, E.R. Lazarowski, Chapel Hill, NC, p.A6928**
- 921 Metabolic Dysregulation of Glutamine Participates in the Pathogenesis of Lung Fibrosis/J. Ge, N. Xie, S. Banerjee, H. Cui, V.J. Thannickal, G. Liu, Wuhan, China, p.A6929**
- 922 Mitochondrial Damage-Associated Molecular Patterns and Immune Priming in Transfusion-Related Acute Lung Injury/N. Kwaan, B. Mallavia-Onaindia, M. Looney, San Francisco, CA, p.A6930**
- 923 Using Metabolomics to Define ARDS Endotypes/B. Winston, S. Donnelly, M. Banoei, S. Metwaly, A. Mourad, H. Vogel, Calgary, Canada, p.A6931**
- 924 Glutaminolysis Is Induced by and Is Necessary for TGF- β 1-Mediated Myofibroblast Differentiation/K. Bernard, N.J. Logsdon, G.A. Benavides, D. Kurundkar, V. Darley-Usmar, V.J. Thannickal, Birmingham, AL, p.A6932**
- 925 Mitochondrial DNA Damage Is an Important Regulator of Lung Fibrosis in Mice and in Patients with IPF/P. Cheresch, S.-J. Kim, R. Jablonski, L.I. Racheck, A. Yeldandi, K.M. Ridge, D.W. Kamp, Chicago, IL, p.A6933**

POSTER DISCUSSION SESSION

C108 GETTING INFLAMED: MARKERS OF LUNG INJURY AND REMODELLING

2:15 p.m. - 4:15 p.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 1-2 (Level M2)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

Chairing: L.M. Schnapp, MD, Charleston, SC
S. Siddiqui, PhD, San Francisco, CA
A.J. Ammit, PhD, Ultimo, Australia

801 Severity of Emphysema Measured by CT and Hyperpolarized Xenon-129 MRI Was Found to Be Significantly Correlated with Circulating Fibrocyte Numbers/K. Qing, S. Mansoor, M. Burdick, Z. Lin, J.P. Mugler, J.F. Mata, B. Mehrad, I.C. Ruset, F.W. Hersman, T. Altes, Y.M. Shim, Charlottesville, VA, p.A6934

802 Endothelial TLR4 Is Sufficient Against TLR4 Deficiency Induced Pulmonary Emphysema Through STC1/P. Shan, X. Zhang, Y. Zhang, P.J. Lee, New Haven, CT, p.A6935

803 Gene Expression Profile in the Blood of COPD Patients/J. Gea, S. Pascual, F. Casals, C. Casadevall, R. Cordoba, A. Castro-Acosta, C. Hernandez, E. Marquez, C. Monton, Y. Torralba, L.M. Seijo, C.J. Alvarez-Martinez, J.A. Barbera, B.G. Cosio, J.L. Lopez-Campos, E. Monso, G. Peces-Barba, A. Agusti, R. Castelo, Barcelona, Spain, p.A6936

804 Role of Pattern Recognition Receptors in the Regulation of Intrapulmonary Airway Contraction Following Short-Term Cigarette Smoke Exposure in Mice/V.S.R.R. Allam, M. Lam, M. Sukkar, J.E. Bourke, Ultimo, Australia, p.A6937



- 805 Expression of the Mucins in the Large Airways in Chronic Obstructive Pulmonary Disease/H.M. Merikallio, R. Karimi, E. Lappi-Blanco, A.M. Wheelock, R. Kaarteenaho, M. Skold, Stockholm, Sweden, p.A6938**
- 806 Investigating Genome Wide DNA Methylation in Bronchial and Lung Fibroblasts from Healthy Individuals and Individuals with COPD/R.L. Clifford, N. Fishbane, P. Rajasekar, J.L. MacIsaac, L.M. McEwen, A. Fisher, M. Kobor, A.J. Knox, T.-L. Hackett, Nottingham, United Kingdom, p.A6939**
- 807 Expression and Biological Functions of FAM13A and PTCH1 in Patients with Chronic Obstructive Pulmonary Disease/A. Tam, M. Obeidat, T.-L. Hackett, D. Dorscheid, G.K. Singhera, P.D. Pare, J.C. Hogg, D. Nickle, D.D. Sin, Vancouver, Canada, p.A6940**
- 808 Transgenic Overexpression of microRNA-25 Regulates Cytokine and Chemokine Production in a Mouse Model of Allergic Inflammation/M. Ba, J. Hall, K. Hernandez, C.A. Singer, Reno, NV, p.A6941**
- 809 Connective Tissue Growth Factor (CTGF) - a Key Factor in Asthmatic Airway Angiogenesis/Q. Ge, J. Wang, D. Simcock, V. Kanabar-Raivadera, S. Hirst, J. Ward, S. Sawant, R. Van De Velde, B.G. Oliver, A. Ashton, J.K. Burgess, Sydney, Australia, p.A6942**
- 810 Intranasal Simvastatin Prevents Allergen Challenge-Induced Changes in Lipid Metabolites/C.D. Pascoe, A. Jha, T.H. Mahood, S. Basu, M. Aliani, A.J. Halayko, Winnipeg, Canada, p.A6943**
- 811 Oxidized Phosphatidylcholine Induces COX2 Gene Expression and Cytokine Secretion by Human Airway Smooth Muscle Cells/C.D. Pascoe, M. Ragheb, G. Stelmack, A. Jha, A.J. Halayko, Winnipeg, Canada, p.A6944**
- 812 Oxidized Phosphatidylcholine, a Bioactive Product of Oxidative Damage, Causes Airway Epithelial Barrier Impairment/C.D. Pascoe, N. Roy, E. Turner-Brannen, A. Jha, A.J. Halayko, A. West, Winnipeg, Canada, p.A6945**
- 813 Expression of $\alpha 7$ Integrin in a Mouse Model of Asthma Alleviates Inflammation/K. Hernandez, A. Aiyuk, M. Ba, R.D. Wuebbles, D.J. Burkin, C.A. Singer, Reno, NV, p.A6946**
- 814 MicroRNA-25 and -188 Target Myosin-5A to Attenuate Mucin Hypersecretion in Asthma/K. Hernandez, K.J. Lau, M. Ba, C.A. Singer, Reno, NV, p.A6947**
- 815 Lung-Resident Pericytes Acquire Myofibroblast Functions in a House Dust Mite-Driven Model of Asthma/J.R. Johnson, J.E. Rowley, R. Bloxham, P. Lavender, Birmingham, United Kingdom, p.A6948**
- 816 Changes in Lung Tissue Proteome in an Allergen Challenge Mouse Model of Asthma/T.H. Mahood, C.D. Pascoe, A. Jha, P. Ezzati, S. Basu, V. Spicer, N. Mookherjee, A.J. Halayko, Winnipeg, Canada, p.A6949**
- 817 The Role of Mitochondrial Proteins in the Regulation of Bitter Tastants-Induced Airway Smooth Muscle Cell Death/S. Pan, D.A. Deshpande, Philadelphia, PA, p.A6950**
- 818 Rhinovirus Strains Differentially Affect Airway Hyper-Reactivity (AHR) in Model of Human Precision Cut Lung Slices (hPCLS)/C. Koziol-White, R. Patel, C. Corbi, D. Lo, V. Parikh, N. Karmacharya, Y.A. Bochkov, J.E. Gern, S. Liggett, R. Panettieri, Jr., New Brunswick, NJ, p.A6951**
- 819 cAMP-Dependent Activation of Protein Kinase A Attenuates Respiratory Syncytial Virus-Induced Human Airway Epithelial Barrier Disruption/F. Rezaee, T.J. Harford, G. Altawallbeh, R. Midura, G. Piedimonte, Cleveland, OH, p.A6952**
- 820 Cigarette Smoke Enhances Expression of Bitter Taste Receptors (TAS2R) in Human Airway Epithelial Cells/J. Dixon, Z. Tian, M. Teng, D. Allen-Gipson, B. Camoretti-Mercado, Tampa, FL, p.A6953**
- 821 Brain-Derived Neurotrophic Factor Promotes Remodeling Mechanisms in Human Airway Epithelial Cells/R. Britt, M. Thompson, C. Pabelick, Y.S. Prakash, Rochester, MN, p.A6954**
- 822 Alveolar Epithelial Cell and Macrophage Co-Culture Regulates Mechanically-Induced Inflammation/C. Bobba, J. Englert, M.N. Ballinger, S. Ghadiali, Columbus, OH, p.A6955**
- 823 Mir-29b Supplementation Attenuates Increased Expression of Matrix Proteins and Improves Alveolarization in Mice Exposed to Maternal Inflammation and Neonatal Hyperoxia/L.K. Rogers, C.A. Pool, K.M. Heyob, T.E. Tipple, Columbus, OH, p.A6956**
- 824 Tenascin C Knockout Mice Have an Altered Lung Function at Newborn and Adult Age/T.P. Cremona, M. Roth-Kleiner, J. Schittny, S. Gremlich, Bern, Switzerland, p.A6957**

RAPID: RAPID ABSTRACT POSTER DISCUSSION

C109 NEW TECHNOLOGY IN SLEEP: DIAGNOSTICS AND THERAPEUTICS

2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 151 A (Middle Building, Street Level)

Abstract Summaries 2:15-2:45

Poster Viewing/Discussion 2:45-4:15

Chairing: A. Yadollahi, PhD, Toronto, Canada
S.A. Sands, PhD, Boston, MA
R.J. Schwab, MD, Philadelphia, PA

301 Whole Night Sleep Monitoring with a Low-Cost In-Ear Wearable Device/A. Nguyen, Z. Raghebi, F. Banaei-Kashani, T. Dinh, A.C. Halbower, T. Vu, Denver, CO, p.A6958

302 A Kernel-Based Hidden Markov Model Utilizing Single-Channel Sleep EEG for Automated Assessment of Sleep Architecture/D.Y. Kang, P.N. DeYoung, A. Malhotra, R.L. Owens, T.P. Coleman, La Jolla, CA, p.A6959

303 Symptomless Artificial Neural Network Prediction Tool for Obstructive Sleep Apnea/U.J. Magalang, J. Mindel, K. Gaishauer, U. Khan, Columbus, OH, p.A6960

304 Spectral Changes of Breathing Sounds from Wakefulness to Sleep in People with Different Severity of Sleep Apnea/F. Hajipour, Z. Moussavi, Winnipeg, Canada, p.A6961

305 Prospective Validation of Non-Invasive Identification of Inspiratory Flow Limitation in Patients Sleeping with an Oral Appliance in Place/J.E. Remmers, E. Hosseini, J. Grosse, Z. Topor, S.A. Zareian Jahromi, Calgary, Canada, p.A6962



- 306 Identifying Epiglottic Collapse from Airflow Patterns During Sleep/A.** Azarbarzin, M. Marques, S.A. Sands, P. Genta, L. Taranto Montemurro, D.P. White, A. Wellman, Boston, MA, p.A6963
- 307 Multi-Vessel Assessment of Atherosclerotic Activity in Patients with Sleep Apnea Using a Hybrid Positron Emission Tomography/Magnetic Resonance Imaging (PET/MRI)/V.** Kundel, M.G. Trivieri, P.R. Robson, N. Karakatsanis, J. Kizer, R. Kaplan, Z. Fayad, N.A. Shah, New York, NY, p.A6964
- 308 Validation of Apneas and Hypopneas Detection by an Implantable Cardioverter Defibrillator Impedance-Based Respiration Sensor: AIRLESS Study/J.-L. Pepin, R. Tamisier, P. Jacon, S. Venier, N. Arnol, P. Defaye, Grenoble, France, p.A6965**
- 309 Mandibular Movements as a Surrogate Marker for Sleep-Related Respiratory Effort: A Validation Study Against Crural Diaphragmatic Electromyography/J.-B. Martinot, N.-N. Le-Dong, F. Nannan, J.-L. Pepin, J.C. Borel, H. Guenard, Namur, Belgium, p.A6966**
- 310 Investigation into the Efficacy and Safety of Electrical Impedance Tomography to Detect Upper Airway Closure in Patients with Obstructive Sleep Apnea/S.-W. Kim, Y.E. Kim, T.I. Oh, E.J. Woo, Jinju, Korea, Republic of, p.A6967**
- 311 Stricter Scoring Rules Designed to Limit Access to Continuous Positive Airway Pressure Treatment of Obstructive Sleep Apnea Do Not Stratify Patients by Severity of Symptoms or Co-Morbidities/Z.** Pawlikowski, M.S. Quigg, E.M. Davis, Charlottesville, VA, p.A6968
- 312 Polyphenols Impact on Vascular Dysfunction Associated with Obstructive Sleep Apnea: A Randomized Controlled Trial/W.** Trzepizur, V. Bironneau, S. Recoquillon, M.C. Martinez, P. Abraham, P. Priou, R. Andriantsitohaina, F. Gagnadoux, Angers, France, p.A6969
- 313 Diet, Exercise and Armodafinil for Obstructive Sleep Apnea Patients Unable to Tolerate Standard Treatments (DEAR). A Randomized, Parallel Group, Factorial Trial/C.M. Hoyos, J. Chapman, E.A. Cayan, Y. Serinel, B.J. Yee, K.K. Wong, R.R. Grunstein, N. Marshall, Sydney, Australia, p.A6970**
- 314 Effects of One Month of Nightly Zopiclone on Obstructive Sleep Apnea Severity and Symptoms: A Randomized, Double-Blind, Placebo-Controlled Trial/S.G. Carter, J.C. Carberry, G. Cho, L.P. Fisher, C.P. Rollo, D. Stevens, A.L. D'Rozario, D.K. McKenzie, R.R. Grunstein, D.J. Eckert, Randwick, Australia, p.A6971**
- 315 Dose-Dependent Effects of Mandibular Advancement on Upper Airway Collapsibility and Muscle Activity in Obstructive Sleep Apnea/A.A. Bamagoos, P. Cistulli, K. Sutherland, J. Ngiam, P. Burke, L. Bilston, J.E. Butler, D.J. Eckert, Sydney, Australia, p.A6972**
- 316 Hypoglossal Nerve Stimulation for Obstructive Sleep Apnea: Outcomes and Usage at the University of Pennsylvania/R.J. Schwab, S.E. Leinwand, B. Keenan, E. Thaler, Philadelphia, PA, p.A6973**
- 317 The Effect of Electrical Stimulation of the Calf Muscle on Leg Fluid Accumulation Over a Long Period of Sitting/D. Vena, J. Rubianto, M.R. Popovic, G.R. Fernie, A. Yadollahi, Toronto, Canada, p.A6974**

- 318 Urinary Endothelial Protein C Receptor and Dermcidin as Potential Biomarkers for Screening of Adult OSA Patients/M.** Kohli, S.K. Sharma, V. Upadhyay, S. Varshney, S. Sengupta, New Delhi, India, p.A7690

RAPID: RAPID ABSTRACT POSTER DISCUSSION

C110 OSA OVERLAPS: ASTHMA, COPD, OBESITY HYPOVENTILATION SYNDROME, AND LUNG CANCER**2:15 p.m. - 4:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER****Room 151 B (Middle Building, Street Level)****Abstract Summaries 2:15-2:45****Poster Viewing/Discussion 2:45-4:15**

Chairing: M. Teodorescu, MD, MS, Madison, WI
B. Mokhlesi, MD, MSc, Chicago, IL
J.C. Borel, PhD, Grenoble, France

- 401 Characteristics and Prevalence of Sleep-Disordered Breathing in a COPD Cohort/J.M. Marin, P. Cubero, C. Cabrera, M. Marin-Oto, J. De Torres, I. Solares, C. Martinez, N. Toledo-Pons, G. Peces-Barba, P. De Lucas, N. Feu, C. Amado, L. Vigil, C. Casanova, J. Marin, Zaragoza, Spain, p.A6975**
- 402 Overlap Syndrome of COPD and OSA: Metabolic Risk Factors and Systemic Inflammation/C.** Fitzgibbons, R. Goldstein, D.J. Gottlieb, M.L. Moy, Boston, MA, p.A6976
- 403 Impact of Obstructive Sleep Apnea (OSA) and Comorbid Chronic Obstructive Pulmonary Disease (COPD) on Clinical Outcomes/K.** Bakkila, R. Rastogi, C. Kushida, C. Vaz Fragoso, S. Chowdhuri, Detroit, MI, p.A6977
- 404 Assessment of a Support Vector Machine Classifier for the Detection of Sleep Apnea at-Home in COPD Patients/A.** Crespo, D. Alvarez, G.C. Gutierrez-Tobal, A. Cerezo, A.M. Andres, T. Ruiz, J.F. De Frutos, R. Hornero, F. Del Campo, Valladolid, Spain, p.A6978
- 405 Modifiable Effect of Co-Existence of Chronic Obstructive Pulmonary Disease and Obstructive Sleep Apnea: Evidence from Clinical and Health Administrative Data/T.** Kendzerska, R. Leung, J. Sandoz, A.S. Gershon, Toronto, Canada, p.A6979
- 406 Relationship of Severity of Idiopathic Pulmonary Fibrosis to the Severity of Obstructive Sleep Apnea/F.** Zahiruddin, Z. Safdar, J. Zimmerman, Houston, TX, p.A6980
- 407 Asthma Is Independently Associated with Decreased Physical Health Related Quality of Life in a Cohort of US Veterans with Suspected Sleep Apnea/C.** Lin, J.-E. Holty, Stanford, CA, p.A6981
- 408 Study of Sleep Related Breathing Disorders (SRBD) and Bronchial Asthma in Developing Countries; Connecting the Dots Between Nocturnal Awakenings and Breathlessness/N.** Bhatta, P. Koirala, R.H. Ghimire, D.R. Mishra, B. Bista, R. Chetry, Dharan, Nepal, p.A6982



- 409 Effects of Inhaled Fluticasone on Upper Airway Collapsibility in Patients with Asthma/N. Nashi, T. Denman, D. Pegelow, R. Gangon, A. Xie, A. Mahotra, O. Broymman, M. Teodorescu, Madison, WI, p.A6983**
- 410 A New Screening Pathway to Improve the Recognition of Obesity Hypoventilation Syndrome in Hospitalized Patients/A. Quintos, U. Mukhtar, M.R. Sanchez, A. Niroula, Z. Fast, V. Garvia, F. Aguilar, S. Sharma, Philadelphia, PA, p.A6984**
- 411 Screening and Evaluation of Sleep Disordered Breathing in Hospitalized Patients (HoSMed Registry)/A. Quintos, U. Mukhtar, A. Niroula, M.R. Sanchez, S. Sharma, Philadelphia, PA, p.A6985**
- 412 A Retrospective Study of Potentially Unrecognized Obesity Hypoventilation Syndrome/S. Gill, A. Hossain, J. Sill, Norfolk, VA, p.A6986**
- 413 Prevalence of Sleep Disordered Breathing in Patients with Cardiovascular Disease: Registry to Examine the Effect of CPAP on Cardiac Function in Hospitalized Patients with Sleep-Disordered Breathing and Cardiac Conditions/R.J. Schwab, M.E. Crocker, J. Riggs, G. Nathanson, L.W.-J. Kim, L. Chi, A. Benjafield, L. Willes, N. Gooneratne, Philadelphia, PA, p.A6987**
- 414 Prevalence of Cancer in a Veterans Cohort with Obstructive Sleep Apnea/V. Vaitkus, M. Abdulrazzaq, A. Viray, M. Cohen, M. Cutaia, M.R. Al-Ajam, Brooklyn, NY, p.A6988**
- 415 Prevalence of Obstructive Sleep Apnea Among Volunteers Enrolled in a Lung Cancer Screening Program. Results of the Prospective SAILS (Sleep Apnea In Lung Cancer Screening) Study/L.M. Seijo, M.T. Perez-Warnisher, E. Cabezas, M.F. Troncoso, T. Gomez, R. Melchor, J. Pinillos, A. El Hachem, C. Gotera, G. Peces-Barba, N. Gonzalez-Mangado, Madrid, Spain, p.A6989**
- 416 Echocardiographic Changes with Positive Airway Pressure in Obesity Hypoventilation Syndrome/M.A. Sanchez Quiroga, M.V. Mogollon Jiménez, F.J. Gomez De Terreros, J. Corral Peñafiel, A. Romero, C. Caballero Eraso, J. Terán, M.L. Alonso-Alvarez, T. Gomez-Garcia, M. Gonzalez, S. López-Martínez, P. De Lucas Ramos, J. Marin, S. Marti, T. Diaz Cambriles, E. Chiner, C. Egea, B. Mokhelesi, J. Masa, Plasencia, Spain, p.A7691**
- 417 Airway Hyperresponsiveness to Methacholine in House Dust Mite - Allergic Rats Exposed to Chronic Intermittent Hypoxia/O. Broymman, J. Brinkman, D. Pegelow, M. Teodorescu, Madison, WI, p.A7692**

4:30 p.m.-6:30 p.m.

SECTION MEMBERSHIP MEETING

The Section meetings are open to all ATS members and other interested individuals. Items to be discussed include the Sections' current projects and future directions.

MEDICAL EDUCATION

**RENAISSANCE WASHINGTON DOWNTOWN
Congressional Hall B (Ballroom Level)**

Chairing: Alison S. Clay, MD, Durham, NC
Jennifer W. McCallister, MD, Columbus, OH




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Wednesday Morning, May 24

CLINICAL

PEDIATRIC CLINICAL CORE CURRICULUM

CME Credits Available: 1

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PCC4 PEDIATRIC CLINICAL CORE CURRICULUM

Pediatric Core Curriculum Working Group

7:00 a.m. - 8:00 a.m. WALTER E. WASHINGTON CONVENTION CENTER**Ballroom B (South Building, Level 3)****Target Audience**

Pediatric pulmonary and critical care physicians who work in a clinical setting and are currently engaged in maintenance of certification

Objectives

At the conclusion of this session, the participant will be able to:

- remain current with medical knowledge relevant to their practice in pediatric pulmonology;
- evaluate their understanding of key skills and content areas in pediatric pulmonology as well as receive feedback on their comprehension of a result of a pre-test/post-test comparison;
- support clinicians who are engaged in maintenance of certification activities by providing updates on subjects included in recertification requirements.

The Pediatric Core Curriculum symposia promote lifelong learning and the enhancement of the clinical judgment and skills essential for practicing pediatrician. The symposia will address topics that have been identified by an ATS pediatric working group, which is comprised of members of the ATS Education Committee and the International Conference Committee, who have identified important areas within pediatric medicine (including severe asthma, ILD, BPD, pulmonary hypertension and pulmonary manifestations of pulmonary disease). Attendees will increase their medical knowledge as a result of attending this symposium, and this will be measured by a comparison of pre-test vs. post-test results on the corresponding maintenance of certification module. The ATS Pediatric Core Curriculum will focus on a 3-year content cycle of key medical content in the area of pediatric medicine.

Chairing: A. Horani, MD, St. Louis, MO

7:00 Pulmonary Hypertension
E. Austin, MD, Nashville, TN

7:30 Pulmonary Manifestations of Rheumatologic Diseases
M. Kitcharoensakkul, MD, St. Louis, MO

SUNRISE SEMINARS

CME Credits Available: 1

 **Registration Fee: \$50.00 (includes continental breakfast.)**
Attendance is limited. Pre-registration is required.

7:00 a.m. - 8:00 a.m. MARRIOTT MARQUIS WASHINGTON

- SS301 THE ROLE OF TRPV4 IN LUNG DISEASE: A TRP TO NEW THERAPEUTICS**
R.G. Scheraga, MD, Cleveland, OH
George Washington University (Level M1)
- SS302 DIFFUSE CYSTIC LUNG DISEASE: EVALUATION AND MANAGEMENT**
L. Ho, MD, Seattle, WA
Georgetown University (Level M1)
- SS303 TO TREAT OR NOT TO TREAT: CASES IN SARCOIDOSIS**
M. Gulati, MD, New Haven, CT
Howard University (Level M1)
- SS304 A PRACTICAL APPROACH TO THE PATIENT WITH INTERSTITIAL LUNG DISEASE: DIAGNOSIS AND MANAGEMENT**
A.J. Podolanczuk, MD, New York, NY
Gallaudet University (Level M1)
- SS305 RHEUMATOID ARTHRITIS-ASSOCIATED INTERSTITIAL LUNG DISEASE: CLINICAL ASSESSMENT, PROGNOSIS, AND MANAGEMENT**
Z. Yunt, MD, Denver, CO
Catholic University (Level M1)
- SS306 QUANTITATIVE LUNG IMAGING IN COPD: AN UPDATE FOR CLINICIANS**
A.A. Diaz, MD, MPH, Boston, MA
University of DC (Level M1)
- SS307 CONTROVERSIES IN PLEURAL DISEASE MANAGEMENT: A PRO/CON DEBATE**
O. Epelbaum, MD, Valhalla, NY
B. Husta, MD, New York, NY
Marquis Salon 14 (Level M2)
- SS308 CHALLENGES IN PULMONARY FUNCTION TESTS: A CASE BASED APPROACH**
M. Sala, MD, Chicago, IL
Marquis Salon 13 (Level M2)
- SS309 HYPEROXIA IN CRITICAL CARE: WHY SHOULD WE CARE?**
S. Pannu, MD, MSc, Columbus, OH
Marquis Salon 12 (Level M2)
- SS310 IMPLICATION OF SMALL AIRWAYS DISEASE IN OCCUPATIONAL EXPOSURES**
R.C. Stansbury, MD, Morgantown, WV
Union Station (Level M3)



- SS311 LATENT TB INFECTION: CURRENT DIAGNOSTICS AND MANAGEMENT**
P. Escalante, MD, Rochester, MN
Chinatown (Level M3)
- SS312 PATIENT EXPERIENCE IN PULMONARY ARTERIAL HYPERTENSION**
L. Matura, PhD, RN, Philadelphia, PA
Mount Vernon Square (Level M3)
- SS313 CARDIOPULMONARY EXERCISE TESTING IN CHILDREN: WHAT A PROVIDER NEEDS TO KNOW**
R. Bhatia, MD, Akron, OH
Judiciary Square (Level M3)
- SS314 ADVANCED HEMODYNAMIC INTERROGATION OF THE PULMONARY CIRCULATION**
A. Tonelli, MD, MSc, Cleveland, OH
LeDroit Park (Level M3)
- SS315 (RE)-BUILDING LUNGS FOR TRANSPLANTATION: ADVANCES AND CHALLENGES IN WHOLE ORGAN BIOENGINEERING**
S.E. Gilpin, PhD, Boston, MA
Shaw (Level M3)
- SS316 NEW APPROACHES IN LUNG BIOLOGY ENABLED BY THE PRECISION CUT LUNG SLICE**
R. Krishnan, PhD, Boston, MA
J.E. Bourke, PhD, Clayton, Australia
Treasury (Level M4)
- SS317 THE INTERFACE MATTERS: COMPARING DIFFERENT MASKS FOR OBSTRUCTIVE SLEEP APNEA TREATMENT**
P. Genta, MD, Sao Paulo, Brazil
Mint (Level M4)

FACULTY DEVELOPMENT SEMINAR

FD3 STRATEGIES FOR FELLOWS AND EARLY CAREER FACULTY TO GET CLOSER TO WORK/LIFE BALANCE

 **Pre-registration is required.**
Attendance is limited. There is no additional fee.

7:00 a.m. - 8:00 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 101 (South Building, Street Level)

Target Audience

Clinical and research fellows, post-doctoral fellows, residents, and junior faculty in the early stages of a career in academic pulmonary, allergy, critical care, and/or sleep medicine

Objectives

At the conclusion of this session, the participant will be able to:

- identify areas of priority in their academic, personal, and family roles and responsibilities;
- understand there is no easy fix or one size fits all solution to the issue of work-life balance;
- identify strategies and practical ideas for how to balance both career and family obligations.

The demands of working in academic medicine are strenuous, exacerbated by the challenge of having to choose between time for your work, your family and yourself. This seminar will provide valuable insight and practical real-life strategies on balancing family life while developing a successful academic career. This session will feature a panel of successful faculty with experience in work-life balance at both a personal and professional level. This session will be divided into two components. First, participants will hear strategies and perspective from the panel. Subsequently, participants will have the opportunity to engage one-on-one with panelists in an interactive discussion.

Chairing: M.N. Ballinger, PhD, Columbus, OH

Speakers: J.M. Keane, MD, Dublin, Ireland
A. Wang, MD, La Jolla, CA
B.B. Moore, PhD, Ann Arbor, MI
J.R. Curtis, MD, MPH, Seattle, WA
M. Kraft, MD, Tucson, AZ

THEMATIC SEMINAR SERIES

CME Credits Available: 1

TSS1 EVOLVING CONCEPTS IN EARLY COPD

 **Registration Fee: \$170 for full series (includes continental breakfast)**
Attendance is limited. Pre-registration is required.

This is part 4 of a 4-part series. Those registering for this seminar series will be registered for all 4 parts. The program for the full series is included with the Sunday, May 21, 12:15 p.m. program.

Wednesday 7:00 a.m. - 8:00 a.m. MARRIOTT MARQUIS WASHINGTON

Monument (Level M4)

Chronic Bronchitis Without Airflow Obstruction: Epidemiology, Phenotype, and Clinical Consequences

C. Martinez, MD, MPH, Ann Arbor, MI

**BASIC • CLINICAL • TRANSLATIONAL****ATS KEYNOTE SERIES**

CME Credits Available: .75

The Keynote Series provides state of the art lectures on selected topics in an unopposed format to showcase major discoveries in pulmonary, critical care and sleep medicine. The speakers have been chosen by input from the members and various ATS committees with consensus built via the ATS executive committee.

K7 CLIMATE CHANGE AND GLOBAL WARMING: A GEOLOGICAL PERSPECTIVE8:15 a.m. - 9:00 a.m. **WALTER E. WASHINGTON CONVENTION CENTER**

East Salon A-C (South Building, Street Level)

Speaker: K.R. Johnson, PhD, Washington, DC

This session will be chaired by A. Malhotra, MD, La Jolla, CA

K8 HYPOXIA-INDUCIBLE FACTORS IN PHYSIOLOGY AND MEDICINE8:15 a.m. - 9:00 a.m. **WALTER E. WASHINGTON CONVENTION CENTER**

West Salon G-I (South Building, Street Level)

Speaker: G.J. Semenza, MD, PhD, Baltimore, MD

This session will be chaired by D. Gozal, MD, Chicago, IL

CLINICAL**YEAR IN REVIEW**

CME Credits Available: 2

MOC Points Available: 2

Nursing Contact Hours Available: 2.4

D1 CLINICAL YEAR IN REVIEW 49:15 a.m. - 11:15 a.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Hall E (Middle Building, Level 2)

Target Audience

Providers including physicians; registered nurses; advanced practice nurses; respiratory therapists; physician assistants; trainees including residents and fellows; clinical researchers

Objectives

At the conclusion of this session, the participant will be able to:

- apply new clinical research knowledge to clinical practice;

- describe new strategies for managing the care of common conditions in pulmonary, critical care, and sleep;
- apply new findings regarding key conditions in pulmonary, critical care and sleep.

The annual Clinical Year in Review symposia topics are reviews of key clinical research publications over the last year. Each speaker is asked to review the 5-7 most important and influential publications on their topic in the prior year.

Chairing: D.J. Lederer, MD, MS, New York, NY
D.W. Ford, MD, MSCR, Charleston, SC
V.E. Ortega, MD, PhD, Winston-Salem, NC

9:15 Thoracic Oncology

L.T. Tanoue, MD, New Haven, CT

9:45 Thoracic Imaging

S.L.F. Walsh, MD, MRCP, London, United Kingdom

10:15 Health Disparities

J. Roman, MD, Louisville, KY

10:45 Palliative Care

R.A. Mularski, MD, MSHS, MCR, Portland, OR

CLINICAL**CLINICAL TOPICS IN PULMONARY MEDICINE**

CME Credits Available: 2

D2 BRONCHOSCOPIC LUNG VOLUME REDUCTION: IS IT FINALLY A REALITY?

Assemblies on Clinical Problems; Nursing; Pulmonary Rehabilitation; Respiratory Structure and Function

9:15 a.m. - 11:15 a.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Ballroom A (South Building, Level 3)

Target Audience

Clinicians, clinical researchers, nurses, trainees in pulmonary medicine and research

Objectives

At the conclusion of this session, the participant will be able to:

- understand why hyperinflation is important in patients with COPD;
- become knowledgeable of the different forms of bronchoscopic lung reduction;
- recognize the differences between the various types of bronchoscopic lung reduction procedures and how one is more applicable than the other one in an individual patient profile.

Hyperinflation is a major complication of COPD especially for patients who have predominantly emphysema as a structural cause of their disease. It affects patient's exercise performance, quality of life, and contributes to increase mortality. Lung volume reduction surgery has been shown to be effective treatment in selected patients in improving lung function, quality of life and in a select subgroup survival. Bronchoscopic lung volume reduction which includes a variety of techniques plus other endoscopic treatments that can produce lung denervation have been recently demonstrated to have clinical benefit in some clinical trials that are focused on small numbers of patients followed for short periods of time. Recently, large randomized prospective randomized controlled trials have been conducted with a variety of bronchoscopic treatments that show promise to treat hyperinflation and improve patient outcome. In this session, leading international experts will discuss a variety of



bronchoscopic lung reduction techniques and provide an up-to-date summary of new findings and new directions in the exploration of these therapies to treat the hyperinflated COPD patient.

Chairing: G.J. Criner, MD, Philadelphia, PA
F.J.F. Herth, MD, Heidelberg, Germany
F.C. Sciurba, MD, Pittsburgh, PA

9:15 Physiologic and Functional Basis for Lung Reduction
F.C. Sciurba, MD, Pittsburgh, PA

9:30 Selections of Patients for Bronchoscopic Lung Reduction
G.J. Criner, MD, Philadelphia, PA

9:45 Efficacy of Endobronchial Valve Treatment for Heterogenous or Homogeneous Emphysema
K. Klooster, PhD, Groningen, Netherlands

10:00 Efficacy and Mechanism of Implantable Lung Coils in Advanced Emphysema
P. Shah, MD, London, United Kingdom

10:15 Application of Sequential Bilateral Segmental Vapor Ablation Therapy in Advanced Emphysema: Efficacy and Safety
F.J.F. Herth, MD, Heidelberg, Germany

10:30 Total Lung Denervation: Impact on Lung Function, Dyspnea and Exercise Performance
D. Slebos, MD, PhD, Groningen, Netherlands

10:45 Integration of BLVR with LVRS and Transplant: Which Therapy for Which Patient
D. Gompelmann, MD, Heidelberg, Germany

11:00 Panel Discussion
G.J. Criner, MD, Philadelphia, PA
F.C. Sciurba, MD, Pittsburgh, PA
F.J.F. Herth, MD, Heidelberg, Germany

This session and the International Conference are supported by an educational grant from AstraZeneca LP.

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CLINICAL • TRANSLATIONAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

MOC Points Available: 2

D3 DIAGNOSTIC DILEMMAS IN HYPERSENSITIVITY PNEUMONIA AND THE CLINICAL-RADIOLOGIC-PATHOLOGIC MULTIDISCIPLINARY STANDARD

Assemblies on Clinical Problems; Allergy, Immunology and Inflammation; Environmental, Occupational and Population Health

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER
Ballroom C (South Building, Level 3)

Target Audience

Clinicians, researchers, trainees, and other health care providers at all levels with an interest in clinical and translational research and interstitial lung disease

Objectives

At the conclusion of this session, the participant will be able to:

- understand the clinical features of hypersensitivity pneumonia and current classification patients from a phenotypic standpoint;
- incorporate available diagnostic tests in the evaluation of a patient suspected of having hypersensitivity pneumonia;
- improve ability to counsel patients with regard to treatment and prognosis.

Hypersensitivity pneumonia (HP) is a commonly considered diagnosis when evaluating acute and chronic interstitial pulmonary syndromes, but making a confident diagnosis is hindered by the lack of validated diagnostic criteria. The multidisciplinary clinical-radiologic-pathologic approach can aid clinicians in accurately diagnosing interstitial lung diseases. In the case of HP, conflicting information or uncertainty about the relevance of various findings within each of these categories is problematic. This session will highlight current evidence and deficits in knowledge within each of these categories, and review the pathologic basis, treatment, and prognosis of the disease.

Chairing: M. Salisbury, MD, Ann Arbor, MI
G. Raghu, MD, Seattle, WA
K.A. Johansson, MD, MPH, Calgary, Canada

9:15 Disease Definition, Clinical Features, Phenotypes, and a Case Presentation
G. Raghu, MD, Seattle, WA

9:35 Pathobiology of Hypersensitivity Pneumonia: Evidence for Genetic and/or Immunologic Mediation of Disease
M. Selman, MD, Mexico City, Mexico

9:55 Imaging in Diagnosis of Hypersensitivity Pneumonia: Sufficient to Make a Diagnosis in the Correct Clinical Setting?
D.A. Lynch, MD, Denver, CO

10:15 Role of Bronchoscopy, BAL, and Transbronchial Biopsy in HP
M. Vasakova, MD, PhD, Prague, Czech Republic

10:30 Histopathology in Diagnosis of HP: Distinctive Features and Mimics
J.L. Myers, MD, Ann Arbor, MI

10:45 Environmental Evaluation: Challenges in Antigen Identification
E. Fernandez Perez, MD, Denver, CO

11:00 Treatment of HP and Wrap-Up
M. Salisbury, MD, Ann Arbor, MI

There will be a 5-minute discussion after each talk

BEHAVIORAL • CLINICAL • TRANSLATIONAL

CRITICAL CARE TRACK

CME Credits Available: 2

MOC Points Available: 2

D4 BALANCING PERSONALIZATION AND PROTOCOL IN THE ICU

Assemblies on Critical Care; Clinical Problems

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 146 A-B (Middle Building, Street Level)

Target Audience

Clinicians caring for critically ill patients; investigators planning clinical trials to



improve the care of sepsis, ARDS, and general ICU supportive care; trainees of critical care medicine

Objectives

At the conclusion of this session, the participant will be able to:

- identify clinical practice protocols that have improved patient outcomes;
- identify areas where uncertainty exists regarding adhering to a protocol compared to personalizing care;
- improve understanding of the concept of how treatment effects heterogeneity, and how this could impact patient outcomes.

This session will consider two potentially conflicting goals that challenge intensive care unit clinicians and researchers: the desire to standardize care by protocolizing best practices, and the desire to personalize care to each patient's individual physiology. The session will highlight advances in critical care outcomes that have been achieved through the adoption of protocols while acknowledging opportunities to improve care by a precision approach even when such personalization may violate protocols. The session will have broad appeal to trainees, clinicians, and scientists because it will blend evidence and expert opinion, and will highlight areas where uncertainty exists.

Chairing: N.J. Meyer, MD, MS, Philadelphia, PA
S. Yende, MD, MS, Pittsburgh, PA

9:15 Contextualizing the Precision Medicine Initiative for the ICU
N.J. Meyer, MD, MS, Philadelphia, PA

9:30 A Case for Protocolization: Applying a Business Mindset to ICU Care
H.B. Gershengorn, MD, Bronx, NY

9:45 Personalizing Lung Protection in ARDS with Tidal Volume Strategy and Neuromuscular Blockade
J.R. Beitler, MD, MPH, San Diego, CA

10:05 Personalizing Hemodynamic Management in the Post-ProMISE/ProCESS Era
M. Singer, MBBS, MD, London, United Kingdom

10:25 Sedation and Mobilization: Can We Personalize Protocols to Maximize Benefit?
W.D. Schweickert, MD, Philadelphia, PA

10:45 On the Horizon: Precision Immunotherapy Trials in Sepsis
S. Yende, MD, MS, Pittsburgh, PA

11:00 Panel Discussion
N.J. Meyer, MD, MS, Philadelphia, PA
H.B. Gershengorn, MD, Bronx, NY

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

D5 PREVENTING ASTHMA ONSET IN CHILDREN BY IMMUNOMODULATION USING BACTERIA OR BACTERIAL EXTRACTS

Assemblies on Pediatrics; Allergy, Immunology and Inflammation;
Respiratory Cell and Molecular Biology

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER
Ballroom B (South Building, Level 3)

Target Audience

Researchers and clinicians interested in the prevention of asthma

Objectives

At the conclusion of this session, the participant will be able to:

- integrate the information on how exposure to bacteria/bacterial extracts can reverse immune system deficits in asthmatic children;
- learn new findings on the clinical efficacy of bacterial immuno-modulating agents on clinical outcomes in asthmatic children;
- improved understanding of asthma prevention strategies.

Research into the primary prevention of the onset of asthma in children has been unsuccessful. Yet, we know asthma can be prevented, as it is rare in developing countries and in children from traditional farming communities. This and recent knowledge that bacterial lysates can both enhance deficient immune system responses in asthmatics and prevent asthma exacerbations strongly suggests that early life exposure to bacteria/bacterial products could prevent the development of asthma. A large new NIH study will explore this exciting possibility over the next 5 years. This symposium will examine scientific and clinical evidence that this approach can prevent asthma.

Chairing: P.N. Le Souef, MD, MBBS, Subiaco, Australia
W.W. Busse, MD, Madison, WI

9:15 A Patient's Perspective
C. Eury, Washington, DC

9:20 The Effect of Bacterial Immunomodulation on Immune System Responses in Young Children
I. Laing, PhD, Subiaco, Australia

9:43 Does Exposure to Bacteria and Bacterial Lysates Reduce Wheeze in Children?
P.N. Le Souef, MD, MBBS, Subiaco, Australia

10:06 A Systems Biology Approach to Understanding Immune System Responses to Bacteria
R. Hancock, PhD, Vancouver, Canada

10:29 Short and Long-Term Effects of Viruses Versus Bacteria on Immune Responses in Asthma
S. Johnston, MD, MBBS, PhD, London, United Kingdom

10:52 Translational Medicine and Asthma Prevention in Children Using Bacteria or Bacterial Lysates
F.D. Martinez, MD, Tucson, AZ

There will be a 5-minute discussion after each talk.

*This session and the International Conference are supported by an educational grant from
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BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

MOC Points Available: 2

D6 SLEEP AND HEALTH: A PUBLIC HEALTH CALL TO ACTION

Assemblies on Sleep and Respiratory Neurobiology; Behavioral Science and Health Services Research; Clinical Problems; Environmental, Occupational and Population Health

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 152 A-B (Middle Building, Street Level)

Target Audience

Clinicians who treat any medical conditions for which sleep is a relevant factor, and researchers who study sleep, cardiometabolic health, and/or epidemiology

Objectives

At the conclusion of this session, the participant will be able to:

- better understand the prevalence of insufficient sleep and sleep disorders and relevance for public health and policy;
- understand the relationship between insufficient sleep and cardiometabolic disease risk and be able to apply this to improve patient care;
- gain a better understanding of the policy implications of insufficient sleep for school children and for other groups, and become better equipped to assist in the development and implementation of these policy initiatives.

This session focuses on some of the most pressing public health concerns regarding sleep health. Sleep is a biological requirement for human life, but insufficient sleep is experienced by approximately 1/3 of U.S. adults and a large portion of U.S. children and adolescents. In addition, sleep disorders are highly prevalent, with up to 10-17% of men and 3-9% of women over 30 having sleep apnea and approximately 5-15% having an insomnia disorder. These issues are associated with cardiometabolic risk, functional deficits, and mortality. These issues need to be addressed and dealt with in the community as well as the clinic. This is a public health problem. This session addresses many of the major public health and public policy issues relevant to population sleep health.

Chairing: M. Grandner, PhD, Tucson, AZ
E. Tasali, MD, Chicago, IL

9:15 Sleep and Health: Are We Getting Enough Sleep?
M. Grandner, PhD, Tucson, AZ

9:40 Sleep and the Public Health Epidemic of Obesity
J. Chaput, PhD, Ottawa, Canada

10:05 Sleep and Health Equity: Implications for Health Disparities and Policy
N. Williams, EdD, New York, NY

10:30 Delayed School Start Times: Impact on Sleep and Public Health
M.L. Chen, MD, Seattle, WA

10:55 Patient Presentation
Speaker To Be Announced

BASIC • BEHAVIORAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

D7 AIR POLLUTION AND PSYCHOSOCIAL STRESS AND THE ORIGINS OF LUNG DISEASE

Assemblies on Environmental, Occupational and Population Health; Behavioral Science and Health Services Research

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 147 A-B (Middle Building, Street Level)

Target Audience

Basic and clinical pulmonary scientists and behavioral scientists

Objectives

At the conclusion of this session, the participant will be able to:

- improve the quality of life/health status patients by recognizing how psychosocial stressors impact negative health outcomes associated with air pollution exposure;
- integrate new treatment options in discussing how to manage asthma/allergic disease by employing psychosocial stressor reduction strategies such as a diet, exercise, relaxation;
- learn new findings about the importance of psychosocial stressors and how they impact the association between air pollution and lung disease.

Social and psychological stressors may lead directly to poor health outcomes. They may also increase susceptibility to air pollution through alterations in immune function and biological systems (McEwen and Seeman 1999) known to affect specific respiratory diseases like asthma and allergic disorders. Thus, the most pollution-exposed communities may also be more susceptible because of higher prevalence of social stressors (Lipfert 2004). The combination of chemical and non-chemical stressors may be an important factor in asthma and allergy disparities. Disentangling social and physical environmental risks is becoming a priority area of research for NIEHS Environmental Public Health and EPA policy guided research. This symposium will present current evidence of the interactions and potential synergies between psychosocial and environmental stressors, effects on susceptible populations such as those with pre-existing lung disease, and potential methods of intervention to improve overall population health.

Chairing: N.E. Alexis, PhD, Chapel Hill, NC
R.J. Laumbach, MD, MPH, Piscataway, NJ

9:15 Overview of Evidence for Interactions Between Psychosocial Stress and Air Pollution in Asthma/Allergy
R. Wright, MD, MPH, New York, NY

9:40 Epidemiologic and Epigenetic Evidence of Links Between Air Pollution, Stress and Negative Respiratory Health Outcomes
J. Clougherty, MSc, ScD, Pittsburgh, PA

10:05 Children Cohort Studies of Interaction of Acute Stress and Susceptibility to Air Pollution in Asthma and Allergic Disease
K. Shankardass, PhD, Toronto, Canada

10:30 Stress Response Studies Using Animal Models
U. Kodavanti, PhD, Chapel Hill, NC

10:55 Intervention Studies to Mitigate Effects of Stress Environmental Lung Disease
P. Lehrer, PhD, Piscataway, NJ



There will be a 5-minute discussion after each talk.

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BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

D8 THE NEXT NEXT-GENERATION: FUNCTION, MODELING AND MECHANISM AND THE LUNG MICROBIOME

Assemblies on Microbiology, Tuberculosis and Pulmonary Infections; Allergy, Immunology and Inflammation

9:15 a.m. - 11:15 a.m.

MARRIOTT MARQUIS WASHINGTON

Independence Ballroom A-D (Level M4)

Target Audience

Clinicians and research scientists interested in innovative approaches that move lung microbiome research from descriptive to mechanistic pathophysiological research

Objectives

At the conclusion of this session, the participant will be able to:

- understand the role of microbial communities in the lung by exploring microbial community function through the integration of complementary 'omics such as transcriptomics and metabolomics. Audience will understand microbial community function, transcending the antiquated pathogen/commensal paradigm;
- gain understanding how the host responds to complex microbial communities in health and disease. Audience will appreciate the applications of broad molecular techniques beyond 16s rRNA gene sequencing in the characterization of host responses;
- understand the need and utility of in vivo and ex vivo models of disease that combine classical basic science techniques with complex microbial community characterization for investigating mechanisms of disease and therapeutic targets. Audience will be encouraged to prioritize mechanistic approaches to lung microbiome study for future progress.

The lung microbiome field is rapidly evolving beyond mere description of respiratory microbiota into the integrative study of the mechanisms of microbial disease pathogenesis. This scientific symposium will reveal how diverse methodologies can complement microbial community sequencing to unfold the microbiome's role in the pathogenesis of diverse respiratory diseases. Speakers will demonstrate how multi-omic approaches and animal modeling can elucidate host-microbe and microbe-microbe interactions within the dynamic microbial ecosystem of the diseased respiratory tract.

Chairing: R.P. Dickson, MD, Ann Arbor, MI
L. Segal, MD, New York, NY
A. Morris, MD, MS, Pittsburgh, PA

9:15 Host Immune Response: The Inflammatory Response to the Microbiome in Health and Airway Diseases
L. Segal, MD, New York, NY

9:40 Microbe-Microbe Interactions: Relevance of the Upper Respiratory Ecosystem in Pathogen Acquisition and Behavior
D. Bogaert, MD, PhD, Utrecht, Netherlands

10:05 Epidemiology: The Microbiome and the Prevention of Childhood Asthma
E. von Mutius, MD, MS, Munich, Germany

10:30 Animal Modeling: The Microbiome and the Acute Respiratory Distress Syndrome
R.P. Dickson, MD, Ann Arbor, MI

10:55 Metabolomics: The Oral Microbiome in Pulmonary Hypertension
C.D. Koch, MD, Pittsburgh, PA

There will be a 5-minute discussion after each talk.

*This session and the International Conference are supported by educational grants from
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BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

D9 SCIENTIFIC PROMISE AND TRANSLATIONAL CHALLENGES IN LUNG REGENERATIVE MEDICINE

Assemblies on Respiratory Cell and Molecular Biology; Behavioral Science and Health Services Research; Clinical Problems; Respiratory Structure and Function

9:15 a.m. - 11:15 a.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 5 (Level M2)

Target Audience

Basic scientists, clinicians, and trainees with an interest in the role of stem cells in respiratory development and disease; those who set policy for government institutions such as the NIH or FDA

Objectives

At the conclusion of this session, the participant will be able to:

- review the current understanding and provide latest updates in the mechanisms regulating the activation of stem and progenitor cells both in lung repair after injury and from pluripotent stem cells.
- improve knowledge of potential translation of regenerative medical advances for the treatment of lung diseases;
- improve understanding of ethical dilemmas and regulatory challenges posed by advances in biomedical research.

This session will evaluate recent progress made in deciphering the signaling pathways governing the regulation and function of lung stem cells as well as ethical, and policy issues surrounding stem cell biology, stem cell transplantation, and their therapeutic application to lung disease.

Chairing: A.L. Firth, PhD, Los Angeles, CA
A. Wilson, MD, Boston, MA
Z. Borok, MD, Los Angeles, CA



- 9:15** **Translating Stem Cell Science to the Clinical Arena**
G. Gibbons, MD, Bethesda, MD
- 9:35** **Epithelial-Mesenchymal-Niche Interactions Regulating Alveolar Type II Cells**
C. Barkauskas, MD, Durham, NC
- 9:55** **Dynamics of Lineage Negative Epithelial Cell Notch Signaling in Lung Injury**
H. Chapman, MD, San Francisco, CA
- 10:15** **Hippo/Yap Regulation of Lung Stem Cells and Development**
X. Varelas, PhD, Boston, MA
- 10:35** **Regulation of iPSC Differentiation to Lung Stem Cells**
A.L. Firth, PhD, Los Angeles, CA
- 10:55** **Challenges and Controversies in Bringing Regenerative Products to Market: The Japanese Experience**
D. Sipp, BA, Kobe, Japan

BEHAVIORAL • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

D10 ENVIRONMENTAL POLLUTION AND THE GLOBAL RISE IN COPD FOOTPRINT

Membership Committee; Assemblies on Allergy, Immunology and Inflammation; Behavioral Science and Health Services Research; Clinical Problems; Environmental, Occupational and Population Health; Pediatrics; Respiratory Cell and Molecular Biology; Respiratory Structure and Function

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 145 A-B (Middle Building, Street Level)

Target Audience

Early career scientists and physicians, clinician educators, clinician scholars, trainees, nurses, junior and mid-level faculty

Objectives

At the conclusion of this session, the participant will be able to:

- define the epidemiology of COPD and environmental risk factors world-wide;
- identify commonalities and differences in environmental hazard exposures and their impact on respiratory symptoms across populations;
- identify major obstacles and opportunities in risk reduction measures to impact on COPD footprint.

This symposium will highlight the epidemiology of environmental exposures and the global rise in COPD footprint. The symposium will provide the perspective of leaders and future leaders within the field of international respiratory health, identify commonalities and differences in modifiable, environmental risk factors, and provide potential strategies for risk reduction in the global community.

Chairing: Y.N. Mageto, MD, MPH, Burlington, VT
B.R. Celli, MD, Boston, MA
A.S. Buist, MD, Portland, OR

9:15 **Epidemiology of Environmental Exposures and the Global Rise in COPD Footprint**
K.J. Mortimer, PhD, Liverpool, United Kingdom

9:35 **Biomass Smoke Exposure, Clinical Expression and Natural History: An Enemy We Need to Defeat**

A. Ramirez-Venegas, MD, Mexico City, Mexico

9:55 **Burning of Biomass Fuels and Resulting Obstructive Disease: Effective Intervention with Limited Resources**

S. Salvi, MD, PhD, Pune, India

10:15 **Progression from Asthma to Chronic Obstructive Pulmonary Disease (COPD): Is Air Pollution a Risk Factor?**

T. To, PhD, Toronto, Canada

10:35 **To Screen or Not to Screen - That Is the Question: If Hamlet Could Understand COPD**

D.H. Au, MD, MS, Seattle, WA

10:55 **Environmental Hazard Exposures and Respiratory Symptoms in the Guangzhou Institute of Respiratory Disease COPD Cohort**

R. Chen, MD, PhD, Guangzhou, China

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MINI SYMPOSIUM

D12 MECHANISMS OF ALLERGIC AIRWAY INFLAMMATION

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS WASHINGTON

Independence Ballroom E-H (Level M4)

Chairing: J.L. Cho, MD, Boston, MA

I.P. Lewkowich, PhD, Cincinnati, OH

D.C. Newcomb, PhD, Nashville, TN

Oral Presentations

9:15 **The Unfolded Protein Response Is an Essential Regulator of Airway Inflammatory Responses in a Murine Model of Allergic Asthma/E.M. Nakada, J.M. Siddesha, B.R. Korwin-Mihavics, N.L. Chamberlain, S.R. Bruno, D.G. Chapman, J.L. Ather, C.G. Irvin, A.E. Dixon, M.E. Poynter, V. Anathy, Burlington, VT, p.A6990**

9:30 **IL-4/13 Activated Pericytes License the Recruitment of Eosinophils and Inflammatory Monocytes in Allergic Airway Inflammation/T.H. Acciani, K.M. Hart, R.L. Gieseck, R. De Queiroz Prado, J.C. Scurba, T. Wynn, Bethesda, MD, p.A6991**

9:45 **Role of Clock Genes in Viral Bronchiolitis and Post-Viral Airway Disease/A. Ehlers, W. Xie, E. Agapov, D. Steinberg, M. Castro, M.J. Holtzman, J. Haspel, St. Louis, MO, p.A6992**

10:00 **Location Dependent Signals Fine-Tune Dendritic Cell Control of Th2 Responses/M.L. Curtiss, T. Ptacek, B. Leon-Ruiz, A. Ballesteros-Tato, T. Randall, F. Lund, Birmingham, AL, p.A6993**

10:15 **Persistent IL-33 in a Preclinical Chronic Asthma Model Underpins Rhinovirus-Induced Exacerbation by Dampening Antiviral Immunity/S. Phipps, R. Werder, V. Zhang, J. Lynch, K. Spann, Brisbane, Australia, p.A6994**



- 10:30 Mesenchymal Stem Cells Recruit IL-10-Producing Monocytes and Macrophages Through Activation of the CCL2-CCR2 Axis To Suppress Allergic Airway Inflammation/K. Takeda, T. Webb, F. Ning, Y. Shiraishi, D. Regan, K. Chow, M. Smith, S. Ashino, A. Guth, S. Dow, E.W. Gelfnad, Denver, CO, p.A6995**
- 10:45 Regulation of Type 2 Innate Lymphoid Cells by microRNA-155/M.D. Knolle, A. Englezakis, A. McKenzie, Cambridge, United Kingdom, p.A6996**
- 11:00 The Innate Cytokines IL-25, IL-33 and TSLP Cooperate in the Induction of ILC2 Gene Expression and Mucous Metaplasia in RV-Infected Immature Mice/M. Han, C. Rajput, J.K. Bentley, J.Y. Hong, J. Lei, J. Hinde, Q. Wu, M.B. Hershenson, Ann Arbor, MI, p.A6997**

MINI SYMPOSIUM

D13 THE REVOLVING DOOR: COPD HOSPITALIZATION AND READMISSION

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 202 B (South Building, Level 2)

Chairing: M.J. Joo, MD, MPH, Chicago, IL
L.C. Feemster, MD, MSc, Seattle, WA
K.C. Wilson, MD, Boston, MA

Oral Presentations

- 9:15 Trends in COPD Hospitalization and In-Hospital Mortality in the United States by Sex and Race: 2005-2012/K. Goel, H. Desai, M. Borgstrom, C. Bime, C.E. Berry, Tucson, AZ, p.A6998**
- 9:30 COPD Hospital Readmissions: What Should Be Considered Potentially Preventable?/M. Duloher, K. Lim, S. Peterson, J. Naessens, Rochester, MN, p.A6999**
- 9:45 The Impact of Social and Other Patient Factors on 30-Day Hospital Readmissions for Individuals with Chronic Obstructive Pulmonary Disease (COPD)/A.S. Gershon, D. Thiruchelvam, S.D. Aaron, T. To, Toronto, Canada, p.A7000**
- 10:00 Readmissions for COPD and the Interaction of Hospital Type and Case Mix Comorbidity/R.G. Buhr, X. Chen, D.P. Tashkin, M.K. Ong, Los Angeles, CA, p.A7001**
- 10:15 Association of Cardiac Co-Morbidities with 30-Day Readmission in Veterans with Chronic Obstructive Pulmonary Disease Exacerbation/L.J. Spece, E.M. Epler, L.M. Donovan, M.F. Griffith, L.C. Feemster, D.H. Au, Seattle, WA, p.A7002**
- 10:30 Self-Management Action Plans for COPD Patients with Comorbidities Reduce Exacerbation Duration and Respiratory-Related Hospitalizations - the COPE-III Study/A. Lenferink, J. van der Palen, P. Van Der Valk, P. Cafarella, A. Van Veen, S. Quinn, C.G.M. Groothuis-Oudshoorn, M. Burt, M. Young, P. Frith, T.W. Effing, Enschede, Netherlands, p.A7003**
- 10:45 Empowerment of Primary Care Patients with Chronic Obstructive Pulmonary Disease (COPD) in the Context of Multi-Morbidity by Tailored Self-Management Education in Sydney, Australia/S. Ansari, H. Hosseinzadeh, S.M. Dennis, N.A. Zwar, Sydney, Australia, p.A7004**

- 11:00 Reducing Hospital Readmission Among High Risk Patients Admitted with COPD Exacerbation: Randomized Trial of a Respiratory Therapist Conducted Home-Based Structured Intervention/C.A. Duran, L. Winnicka, A. Bista, K. Charles, A. Joshi, S.U. Khan, A.N. Lone, M. Lekkala, J. Walsh, Sayre, PA, p.A7005**

MINI SYMPOSIUM

D14 IPF: MOVING FORWARD

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 143 A-C (Middle Building, Street Level)

Chairing: J.S. Lee, MD, Aurora, CO
A. Pardo, PhD, Mexico City, Mexico
G.M. Hunninghake, MD, Boston, MA

Oral Presentations

- 9:15 Prognosis and Longitudinal Changes of Physical Activity in Idiopathic Pulmonary Fibrosis/T. Bahmer, A. Kirsten, B. Waschki, K.F. Rabe, H. Magnussen, D. Kirsten, M. Gramm, S. Hummler, E. Brunnemer, M. Kreuter, H. Watz, Grosshansdorf, Germany, p.A7006**
- 9:30 Biomarkers Can Predict Disease Progression in Idiopathic Pulmonary Fibrosis: Analysis from the Australian IPF Registry/H.E. Jo, T.J. Corte, I. Glaspole, C. Grainge, N.S. Goh, P. Hopkins, P. Reynolds, S. Chapman, E.H. Walters, C. Zappala, H. Allan, G. Keir, A. Hayen, W. Cooper, A. Mahar, S. Ellis, S. Macansh, Y. Moodley, Camperdown, Australia, p.A7007**
- 9:45 Multidisciplinary Collaborative Care for Idiopathic Pulmonary Fibrosis Increases Days Spent at Home During the Last 12 Months of Life/J. Moolji, F. Claviera, E. Ainsley, M. Haggag, J. Richman-Eisenstat, M. Kalluri, Edmonton, Canada, p.A7008**
- 10:00 Occupational Contribution to Idiopathic Pulmonary Fibrosis/K.J. Cummings, C.J. Reynolds, D. Vinnikov, N. Murgia, I. Annesi-Maesano, J.R. Balmes, D. Fishwick, D. Miedinger, R. Naidoo, C. Redlich, T. Sigsgaard, K. Toren, P.D. Blanc, Morgantown, WV, p.A7009**
- 10:15 A Randomised, Placebo-Controlled, Double-Blind, Repeat Dose Escalation Study with Omipalisib (GSK2126458) in Patients with Idiopathic Pulmonary Fibrosis (IPF)/T.M. Maher, P. Bareille, M.J. Costa, W.A. Fahy, S.A. Harrison, B.F. Holman, P. Lukey, Y. Man, P. Saunders, J.K. Simpson, R. Toshner, H.V. Woodcock, S. Yang, R.P. Marshall, London, United Kingdom, p.A7010**
- 10:30 Optical Biopsy Using Probe-Based Confocal Endomicroscopy (pCLE) in the Differential Diagnosis of Chronic Fibrotic Interstitial Pneumonia/K. Imaizumi, T. Okamura, T. Souma, T. Minezawa, S. Morikawa, Y. Goto, M. Hayashi, T. Yamaguchi, S. Isogai, Toyooka, Japan, p.A7011**
- 10:45 Frailty as an Outcome Measure in Idiopathic Pulmonary Fibrosis Patients/T. Luckhardt, M.D.P. Acosta Lara, T. Kulkarni, R. Sharif, V. Desarro, Y.-I. Kim, J.A. De Andrade, Birmingham, AL, p.A7012**
- 11:00 A Description of Anti-Fibrotic Therapy Prescribing Preferences Amongst Pulmonary Practitioners for the Management of Idiopathic Pulmonary Fibrosis/R. Jablonski, A. Frogameni, K.K. Brown, N. Kamangar, S. Murgu, K. Raparia, J. Ryu, S. Raoof, R.D. Suh, E.S. Edell, D.W. Kamp, R. Raj, Chicago, IL, p.A7013**



MINI SYMPOSIUM

D15 CRITICAL CARE: DO WE HAVE A CRYSTAL BALL? PREDICTING CLINICAL DETERIORATION AND OUTCOME IN CRITICALLY ILL PATIENTS

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 146 C (Middle Building, Street Level)

Chairing: M.N. Gong, MD, MS, Bronx, NY
M.M. Churpek, MD, MPH, PhD, Chicago, IL
M. Hua, MD, MSc, New York, NY

Oral Presentations

- 9:15 Screening Criteria for Community Acquired Sepsis Prior to Evidence of Clinical Suspicion of Infection in the Electronic Health Record/C.W. Seymour, V. Liu, D.A. Wulf, D.C. Angus, Pittsburgh, PA, p.A7014**
- 9:30 Development and Implementation of a Machine-Learning Algorithm for Early Identification of Sepsis in a Multi-Hospital Academic Healthcare System/H.M. Giannini, C. Chivers, M. Draugelis, A. Hanish, B. Fuchs, P. Donnelly, M. Lynch, L. Meadows, S.J. Parker, W.D. Schweickert, M.E. Mikkelsen, N. Fishman, C.W. Hansen, C. Umscheid, Philadelphia, PA, p.A7015**
- 9:45 Can Septic Shock Be Identified Early? Evaluating Performance of a Targeted Real-Time Early Warning Score (TREWScore) for Septic Shock in a Community Hospital: Global and Subpopulation Performance/K. Henry, S. Wongvibulsin, A. Zhan, S. Saria, D. Hager, Baltimore, MD, p.A7016**
- 10:00 The Association Between Pre-Hospital Vulnerability, the Development of ARDS and Mortality Among At-Risk Adults: Results from the LIPS-A Randomized Clinical Trial/A.A. Hope, Y. Wu, J.-T. Chen, D. Kaufman, D. Talmor, D.J. Kor, O. Gajic, M.N. Gong, Bronx, NY, p.A7017**
- 10:15 ARDS Definitions in ARDS Prevention Trial: Association with Mortality in the LIPS-A Trial/J.-T. Chen, Y. Wu, A.A. Hope, O. Gajic, D. Talmor, D.J. Kor, M.N. Gong, Bronx, NY, p.A7018**
- 10:30 Recovery Trajectories of Critically Ill Patients in a Randomized Controlled Trial of Early Rehabilitation/S. Gandotra, J. Lovato, D. Case, R.N. Bakhru, K. Gibbs, M. Berry, D.C. Files, P.E. Morris, Winston-Salem, NC, p.A7019**
- 10:45 Development and Validation of a Hospital Performance Measure for 30-Day Sepsis Mortality/J. Darby, B. Davis, I. Barbash, J. Kahn, Pittsburgh, PA, p.A7020**
- 11:00 Late Mortality After ARDS: Excess Mortality Is Largely Explained by Hospitalization with ARDS Risk Factors/H.C. Prescott, T.J. Iwashyna, D.F. McAuley, Ann Arbor, MI, p.A7021**

MINI SYMPOSIUM

D16 CAN CHILDREN SLEEP AND BREATHE AT THE SAME TIME?

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 202 A (South Building, Level 2)

Chairing: G.R. Nino, MD, MSc, Washington, DC
E.S. Katz, MD, Boston, MA

Oral Presentations

- 9:15 Clinical Characteristics of Central Sleep Apnea in Infants and Young Children in the First 2 Years of Life/J.A. Torres Garcia, S. Hantragool, N. Gurbani, N. Simakajornboon, Cincinnati, OH, p.A7022**
- 9:30 Sleep Disordered Breathing in Bronchopulmonary Dysplasia/L.E. Ortiz, S.A. McGrath-Morrow, L.M. Sterni, J.M. Collaco, Baltimore, MD, p.A7023**
- 9:45 Increased Periodic Limb Movements in Sleep associated with Elevated Transcranial Doppler Velocity and Brain Magnetic Resonance Imaging Changes in Children with Sickle Cell Disease/J. Lin, K. Morrone, D. Manwani, R. Chernin, E. Silver, R. Arens, K. Graw-Panzer, Bronx, NY, p.A7024**
- 10:00 Atopy Is Associated with Persistent Sleep Disordered Breathing to 2 Years of Age; A CHILD Birth Cohort Study Project/F.C. Ding, M. Kamal, S. Tamana, L. Smithson, P. Subbarao, A. Becker, S. Turvey, M. Sears, P. Mandhane, Edmonton, Canada, p.A7025**
- 10:15 Distinguishing Characteristics of Severe Obstructive Sleep Apnea in Inner-City Children and Adolescents/S. Kilaikode, M. Weiss, R. Megalaa, P. Kovacs, R. Koothirezhi, L. Mukharesh, S. Wolf, D. Lewin, G. Perez, G.R. Nino, Washington, DC, p.A7026**
- 10:30 Plasma Angiotensinogen-2 and Soluble Tie-2 Levels in Children with Obstructive Sleep Apnea: Impact of Obesity/L. Kheirandish-Gozal, M.F. Philby, A. Khalyfa, Z. Qiao, D. Gozal, Chicago, IL, p.A7027**

Featured Speaker

- 10:45 Many Phases of Sleep/D. Gozal, MD, MBA, Chicago, IL,**

MINI SYMPOSIUM

D17 SIGN "O" THE TIMES: DIAGNOSIS AND RISK STRATIFICATION OF PULMONARY HYPERTENSION

9:15 a.m. - 11:15 a.m. MARRIOTT MARQUIS WASHINGTON

Liberty Ballroom I-L (Level M4)

Chairing: T. Lahm, MD, Indianapolis, IN
M.R. Lammi, MD, New Orleans, LA



Oral Presentations

- 9:15 Clinical Phenotypes and Outcomes of Heritable and Sporadic Pulmonary Veno-Occlusive Disease/D.** Montani, B. Girerd, X. Jais, M. Levy, D. Amar, L. Savale, P. Dorfmueller, A. Seferian, E. Lau, M. Eyries, J. Le Pavée, F. Parent, D. Bonnet, F. Soubrier, E. Fadel, O. Sitbon, G. Simonneau, M. Humbert, Le Kremlin Bicetre, France, p.A7028
- 9:30 Clinical Features of Portopulmonary Hypertension in Patients with Advanced Liver Disease/N.** Al-Naamani, M. Krowka, T.M. Bull, G.A. Heresi, K.E. Roberts, S. Bartolome, A.R. Hemnes, R.N. Channick, M. Sprys, M. Patel, K. Krok, K. Forde, H.M. DuBrook, J. Oh, G. Lin, C.D. Mottram, P.D. Scanlon, M. Fallon, S.M. Kawut, Philadelphia, PA, p.A7029
- 9:45 A Composite Echocardiography Score Predicts Pulmonary Hypertension in Patients with Interstitial Lung Disease/S.** Bax, C. Bredy, A. Kempny, K. Dimopoulos, M. Kokosi, G. Kier, C. Harries, C. McCabe, M. Wilde, A.U. Wells, W. Li, J. Wort, L. Price, London, United Kingdom, p.A7030
- 10:00 Resting Right Ventricular Diastolic Function and Pulmonary Arterial Compliance Associate with Right Ventricular Contractile Reserve in Patients with Pulmonary Arterial Hypertension/R.** Vanderpool, I. Honkanen, K. Wickstrom, S. Knapp, A. Desai, R. Bernardo, F. Rischard, Tucson, AZ, p.A7031
- 10:15 Pituitary-Gonadal Axis Hormone Levels Are Associated with Idiopathic Pulmonary Arterial Hypertension and Outcome in Men/W.-H.** Wu, P. Yuan, S.-J. Zhang, Q.-H. Zhao, L. Wang, Z.-C. Jing, J.-M. Liu, Shanghai, China, p.A7032
- 10:30 Validation of the REVEAL Registry Prognostic Equation and Risk Score Calculator in Incident Systemic Sclerosis-Associated Pulmonary Arterial Hypertension/C.** J. Mullin, R. Khair, R.L. Damico, T.M. Kolb, L.K. Hummers, P.M. Hassoun, V. Steen, S. Mathai, Baltimore, MD, p.A7033
- 10:45 Survival and Predictive Factors of Patients with Chronic Thromboembolic Pulmonary Hypertension in the Modern Management Era/Y.** Taniguchi, A. Boucly, X. Jais, P. Brenot, E. Fadel, L. Savale, D. Montani, M. Humbert, G. Simonneau, O. Sitbon, Le Kremlin Bicetre, France, p.A7034
- 11:00 Prevalence of Pulmonary Hypertension in a Large Cohort of Hereditary Hemorrhagic Telangiectasia Patients/M.** Chizinga, A.A. Rudkovskaia, K. Henderson, J. Pollak, G. Garcia-Tsao, L.H. Young, W.H. Fares, New Haven, CT, p.A7035

MINI SYMPOSIUM

D18 WHO DOES WHAT IN COPD: THE CELLULAR ORIGINS

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 204 A-C (South Building, Level 2)

Chairing: J.M. D'Armiento, MD, PhD, New York, NY
Y. Tesfaigzi, PhD, Albuquerque, NM
T. Betsuyaku, MD, Tokyo, Japan

Oral Presentations

- 9:15 A Bronchial Airway Gene Expression Signature of Lung Function Decline/E.** J. Becker, A. Faiz, M. van den Berge, W. Timens, P. Hiemstra, G. Liu, X. Zhang, Y.O. Alekseyev, G.T. O'Connor, A. Spira, M. Lenburg, K. Steiling, Boston, MA, p.A7036
- 9:30 Airway Progenitor Exhaustion in Smokers with and Without Chronic Obstructive Pulmonary Disease/M.** Ghosh, Y.E. Miller, I. Nakachi, J.B. Kwon, D.T. Merrick, A.E. Brantley, W.A. Franklin, R.L. Keith, R.W. Vandivier, Denver, CO, p.A7037
- 9:45 Human Alveolar Epithelial Cells Derived from Gene-Edited Induced Pluripotent Stem Cells for Alpha-1 Antitrypsin Deficiency Lung Disease Modelling/K.** J. Hurley, A. Jacob, D.C. Thomas, J. Kaserman, F.J. Hawkins, A. Wilson, D.N. Kotton, Boston, MA, p.A7038
- 10:00 Inflammatory Response of Lung Recruited Macrophages Is Partly Regulated by Non-Canonical Notch Pathway in Chronic Obstructive Pulmonary Diseases (COPD)/C.** Ballester Lopez, T. Conlon, Z. Ertuez, O. Eickelberg, A.O. Yildirim, Munchen, Germany, p.A7039
- 10:15 Non-Canonical WNT-5A Signaling Impairs Endogenous Lung Repair in COPD/H.** Baarsma, W. Skronska-Wasek, K. Mutze, F. Ciolek, D. Wagner, G. John-Schuster, K. Heinzelmann, A. Guenther, K.R. Bracke, M. Dagouassat, J. Boczkowski, G.G. Brusselle, R. Smits, O. Eickelberg, A.O. Yildirim, M. Konigshoff, Munich, Germany, p.A7040
- 10:30 Requirement of Glucosylceramide Synthase for Human Lung Microvascular Endothelial Cell Survival/K.** Koike, K.S. Schweitzer, E. Beatman, A.M. Mikosz, M.J. Justice, I.A. Bronova, E.V. Berdyshev, I. Petrache, Denver, CO, p.A7041
- 10:45 S1P Receptor Modulation Expands CD11b⁺Gr-1⁺ Cells and Inhibits Lymphocyte Infiltration in the Lungs and Ameliorate Murine Pulmonary Emphysema/T.** Asakura, M. Ishii, H. Namkoong, S. Suzuki, S. Kagawa, T. Komiya, K. Yagi, H. Kamata, S. Okamori, T. Asami, N. Hasegawa, T. Betsuyaku, Tokyo, Japan, p.A7042
- 11:00 Loss of Function of the Transcription Factor Miz1 Causes Spontaneous Emphysema and Bronchitis in Mice/J.** Liu, C. Chen, Q. Zhang, M. Matsuda, M. Sala, A.V. Misharin, H. Abdala-Valencia, P.A. Reyfman, H. Perlman, P.H. Sporn, K.M. Ridge, N.S. Chandel, I. Petrache, R. Tudor, J.I. Sznajder, S. Budinger, Chicago, IL, p.A7693

MINI SYMPOSIUM

D19 NOVEL THERAPEUTIC TARGETS IN OBSTRUCTIVE LUNG DISEASE

9:15 a.m. - 11:15 a.m. MARIOTT MARQUIS WASHINGTON
Marquis Ballroom 6 (Level M2)

Chairing: A.G. Stewart, PhD, Melbourne, Australia
M.G. Belvisi, PhD, London, United Kingdom



Oral Presentations

- 9:15 Post-Approval Study for Bronchial Thermoplasty (BT): Results to 2 Years**/G. Chupp, J. Kline, S.B. Khatri, C. McEvoy, G.A. Silvestri, A. Shifren, S. Bansal, M. McClelland, M. Dransfield, R. Olivenstein, E. Lawson, M. Simoff, M.M. Wahidi, C.R. Lamb, S. Ferguson, A. Haas, K. Hogarth, R. Tejedor, J. Toth, A. Majid, S. J.M. Fitzgerald, K. Enfield, G.M. Grubb, E. McMullen, M. Lavolette, New Haven, CT, p.A7043
- 9:30 Oligonucleotide Therapy Reduces Lung Inflammation in HDM-Sensitized Mice**/S.C. Ramelli, J. McLendon, A. Ferretti, J. Sparks, M. Matar, R. Barrington, W. Gerthoffer, Mobile, AL, p.A7044
- 9:45 A Novel GABAA Receptor $\alpha 5$ Subunit-Selective Allosteric Modulator that Does Not Cross the Blood-Brain Barrier Relaxes Airway Smooth Muscle Contracted with Diverse Ligands**/G.T. Yocum, P.D. Yim, Y. Zhang, G. Li, R. Jahan, J. Perez-Zoghbi, A. Arnold, J. Cook, D.C. Stafford, C.W. Emala, New York, NY, p.A7045
- 10:00 TRPing the Bronchodilator Switch: TRPA1 as a Novel Bronchodilator**/B.J. Marsh, A. Fryer, D.B. Jacoby, M.G. Drake, Portland, OR, p.A7046
- 10:15 TRPM3: A Regulator of Airway Sensory Nerves and Respiratory Reflexes Via Distinct Mechanisms**/S.J. Bonvini, J.J. Adcock, E. Dubuis, M. Wortley, J. Vriens, T. Voets, M.A. Birrell, M.G. Belvisi, London, United Kingdom, p.A7047
- 10:30 Increased Circulating β_2 -Adrenergic Receptor Autoantibodies Are Associated with Smoking Related Emphysema**/J. Hu, B. He, B. Liu, Y. Du, Y. Zhang, M. Xu, Beijing, China, p.A7048
- 10:45 Chloride Intracellular Channel 1 (CLIC1) Contributes to Modulation of Cyclic AMP-Activated Whole Cell Chloride Currents in Human Bronchial Epithelial Cells**/B. Liu, C. Billington, A. Kheirallah, A. Henry, C. Swan, I.P. Hall, Nottingham, United Kingdom, p.A7049
- 11:00 Identification of a New Pathway Controlling Steroid Activity Involving Casein Kinase 1-Dependent Cofilin1-Phosphorylation and Phospholipase D Activation**/A.G. Stewart, M. Li, C. Keenan, Y.C. Xia, S. Langenbach, Melbourne, Australia, p.A7050

MINI SYMPOSIUM

D20 LUNG CANCER SCREENING: MOVING FROM POPULATION TO PERSON

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 207 A-B (South Building, Level 2)

Chairing: P. Mazzone, MD, MPH, Cleveland, OH
C.G. Slatore, MD, Portland, OR
R.S. Wiener, MD, MPH, Boston, MA

Featured Speaker

9:15 Overview/D.A. Arenberg, MD, Ann Arbor, MI

Oral Presentations

- 9:30 Stratification of CT Screening Participants Using a SNP-Based Risk Score Helps Quantify Outcomes in the NLST-ACRIN Sub-Study (N=10,054)**/R.P. Young, R.J. Hopkins, F. Duan, E. Greco, C. Chiles, D. Aberle, G.D. Gamble, Auckland, New Zealand, p.A7051
- 9:45 Chromosome 15q25 Locus and Genetic Susceptibility to Lung Cancer, COPD and Smoking: Triple Whammy Effect in the ACRIN-NLST Cohort Sub-Study (N=10,054)**/R.J. Hopkins, R.P. Young, F. Duan, E. Greco, C. Chiles, D. Aberle, G.D. Gamble, Auckland, New Zealand, p.A7052
- 10:00 Minority and Economically Disadvantaged High-Risk Populations Are Underrepresented in Both Centralized and Decentralized Lung Cancer Screening Models**/C.C. Fuller, C.L. Wilshire, B.M. McCall, C.R. Gilbert, J.T. Fathi, J.R. Handy, K.E. Costas, B.E. Louie, R.W. Aye, A.S. Farivar, E. Vallieres, J.A. Gorden, Seattle, WA, p.A7053
- 10:15 Lung Nodule Cancer Risk in the National Lung Screening Trial**/V.S. Nair, V. Sundaram, M. Desai, M.K. Gould, Palo Alto, CA, p.A7054
- 10:30 Evaluation of Lung Cancer Risk Prediction Models for Selecting Smokers for CT Lung Cancer Screening**/H. Katki, S. Kovalchik, L. Petito, L.C. Cheung, E. Jacobs, A. Jemal, C. Berg, A. Chaturvedi, Rockville, MD, p.A7055
- 10:45 Effect of Screening CT Findings on Lung Cancer Risk Prediction Within the National Lung Screening Trial**/H.A. Robbins, C. Berg, L.C. Cheung, A. Chaturvedi, H. Katki, Baltimore, MD, p.A7056
- 11:00 Optimizing Lung Cancer Screening Criteria: The Role of Emphysema in the SP-IELCAP Lung Cancer Screening Cohort**/L.M. Seijo, J. Zulueta, J. Cervera, J. De Torres, A.B. Alcaide, A. Campo, M.T. Perez-Warnisher, E. Cabezas, R. Yip, D. Yankelevitz, C. Henschke, Madrid, Spain, p.A7057

RAPID: RAPID ABSTRACT POSTER DISCUSSION

D21 IMMUNE PATHWAYS IN ACUTE LUNG INJURY AND FIBROSIS

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 206 (South Building, Level 2)

Abstract Summaries 9:15-9:45

Poster Viewing/Discussion 9:45-11:15

Chairing: O. Eickelberg, MD, Denver, CO
R.M. Tighe, MD, Durham, NC
E.S. White, MD, MS, Ann Arbor, MI

601 Hypoxia Upregulates PI3Kinase-Dependent Neutrophil Degranulation and Neutrophil-Mediated Tissue Injury/K.M. Lodge, K. Hoenderdos, E.R. Chilvers, W. Li, A.M. Condliffe, Cambridge, United Kingdom, p.A7058



- 602 Inhibition of Lipolysis In-Vivo Improves Disease Severity and Lung Inflammation in a Mouse Model of Pseudomonas Pneumonia/S.** Tundup, P. Jayaguru, A. Desmett, A. Kadl, Charlottesville, VA, p.A7059
- 603 Deficiency of Immunoproteasome Subunits Increases Alternative Polarization of Alveolar Macrophages/I.E.** Kammerl, S. Chen, E. Elorduy Vergara, M. Irmeler, J. Beckers, T. Muchamuel, C. Kirk, B.I. Florea, H.S. Overkleeft, O. Eickelberg, S. Meiners, T. Stoeger, Munich, Germany, p.A7060
- 604 Functional Role of Lung Recruited Bone Marrow Derived Exudate M2-Polarized Macrophages in Influenza Virus-Induced Lung Injury and Repair/B.** Selvakumar, J. Wilhelm, D. Wolff, W. Seeger, J. Lohmeyer, S. Herold, Bad Nauheim, Germany, p.A7061
- 605 Novel Non-Catalytic Substrate-Selective p38 α -Specific MAPK Inhibitors with Endothelial-Stabilizing and Anti-Inflammatory Activity that Mitigates Experimental Acute Lung Injury/N.G.** Shah, M. Tulapurkar, A. Ramarathnam, K. Hom, R. Martinez, I. Singh, A. MacKerell, P. Shapiro, J.D. Hasday, Baltimore, MD, p.A7062
- 606 Increasing Intracellular Nitrosothiol Content Reduces Bleomycin-Mediated Lung Injury/S.** Taylor, G. Voronin, D. Fett, D. Botelho, T. Golden, A. Gow, Piscataway, NJ, p.A7063
- 607 Tissue Resident Alveolar Macrophages Are Lost During Influenza A Infection in Mice/F.** Gonzalez, A. McQuattie-Pimentel, S. Soberanes, M. Casalino-Matsuda, M. Chi, R. Piseaux, A.V. Misharin, P.H. Sporn, G.S. Budinger, Chicago, IL, p.A7064
- 608 Cannabinoid Receptor 1 (CB₁R) Activation Induces Alveolar Macrophages to Acquire a Proinflammatory and Profibrotic Phenotype in Pulmonary Fibrosis/J.K.** Park, T. Yokoyama, T. Jourdan, M.C.V. Malicdan, N.J. Coffey, W.A. Gahl, G. Kunos, R. Cinar, Rockville, MD, p.A7065
- 609 NETosis Mechanism: Transcriptional Firing Is Important to Drive Both Nox-Dependent and -Independent Types of NETosis/N.** Palaniyar, M.A. Khan, Toronto, Canada, p.A7066
- 610 Administration of Apoptotic Cells Ameliorates Bleomycin-Induced Lung Injury/P.** Jayaguru, S. Tundup, A. Desmett, A. Kadl, Charlottesville, VA, p.A7067
- 611 The Resokine Pathway Is Implicated in the Pathology of Interstitial Lung Disease/L.A.** Nangle, Y. Tong, S.P. Crampton, R.A. Adams, K.P. Chiang, E. Mertsching, K. Taylor, K.M. Ogilvie, J.C. McKew, M.A. Ashlock, P. Schimmel, J.D. Mendlein, San Diego, CA, p.A7068
- 612 Identification of Pathogenic and Prognostic Anti-Vimentin Antibodies in Idiopathic Pulmonary Fibrosis/F.J.** Li, R. Surolia, H. Li, T. Kulkarni, Z. Wang, G. Liu, D. Kass, V.J. Thannickal, S.R. Duncan, V.B. Antony, Birmingham, AL, p.A7069
- 613 Upregulation of Cognate Receptors, Deposition of Extracellular Matrix Proteins, and Prolonged Receptor Activation Contribute to Insulin-Like Growth Factor (IGF)-II - Mediated Lung Fibrosis/S.M.** Garrett, J.M. Thomas, E. Hsu, C. Feghali-Bostwick, Charleston, SC, p.A7070
- 614 The Role of TLR Signaling in Regulating Macrophage Recruitment and Activation During Bleomycin-Induced Pulmonary Fibrosis/M.N.** Ballinger, B. Reader, B.R. Hay, B.B. Moore, J.W. Christman, Columbus, OH, p.A7071
- 615 Characterization of Profibrotic CCR10+ EphA3+ Cells in IPF Lungs/D.** Habel, M. Espindola, A.L. Coelho, R. Narayanan, I. Jones, G. Yarranton, J. Woronicz, C. Hogaboam, Los Angeles, CA, p.A7072
- 616 IL-22Ra2 Negatively Impacts Influenza, Staphylococcus Aureus Super-Infection/R.N.** Abood, K.J. McHugh, H.E. Rich, M.E. Clay, K. Ramanan, D.A. Pociask, J.K. Kolls, J.F. Alcorn, Pittsburgh, PA, p.A7073
- 617 Surfactant Protein-D Regulates the Inflammatory Response and Modulates the Transcription Factor Profile of Group 2 Innate Lymphoid Cells in the Lung After Ozone Inhalation/C.H.** Flayer, M.Q. Ge, P.B. Kovacs, S. Ott, S.S. Killingbeck, A. Haczku, Davis, CA, p.A7074
- 618 Lung Tissue from Patients with Idiopathic Pulmonary Fibrosis Contains a Unique Population of c-kit⁺ICOS⁺CD127^{int} Innate Lymphoid Cells/C.L.** Hrusch, S. Mohinta, M.R. Jaffery, K. Blaine, C. Bonham, A.I. Sperling, Chicago, IL, p.A7075
- 619 Role of Dendritic Cells in Pulmonary Fibrosis in Mice/M.** Tort Tarres, F. Aschenbrenner, R. Maus, J. Stolper, L. Knudsen, D. Jonnigk, T. Welte, J. Gauldie, M. Kolb, U.A. Maus, Hannover, Germany, p.A7076
- 620 A Mouse Model of Surfactant Dysregulation and Aberrant Lung Remodeling Induced by Modulation of the Abca3 Gene/S.** Mulugeta, L. Knudsen, Y. Tomer, J. Maronn, M. Zhao, M. Ochs, M.F. Beers, Philadelphia, PA, p.A7077
- 621 Invasive Lung Fibroblast Drives Pulmonary Fibrosis/Y.** Geng, J. Liang, D. Habel, A.L. Coelho, N. Liu, T. Xie, K. Vrishika, A. Kurkciyan, C. Hogaboam, P.W. Noble, D. Jiang, Los Angeles, CA, p.A7078
- 622 Lox11 Null Mice Are Protected from TGF- β 1 Induced Pulmonary Fibrosis/P.-S.** Bellaye, C. Shimbori, S. Sato, C. Upagupta, K. Ask, J. Gauldie, M.R.J. Kolb, Hamilton, Canada, p.A7079
- 623 Overexpression of Muc5b in the Large Airways Causes Delayed Mucus Transport in Mice/G.M.** Solomon, L. Hancock, C. Hennessy, J.L. Casey, K.B. Turner, Z. Liu, A.B. Carter, C. Evans, D.A. Schwartz, S.M. Rowe, Birmingham, AL, p.A7080
- 624 Higher Monocytes in IPF Patients Is a Marker of Worse Transplant-Free Survival/M.** Scott, F. Vallania, K. Quinn, S. Poole, N. Shah, P. Khatri, Stanford, CA, p.A7081
- 625 The Role of TLR Signaling in Regulating Collagen Uptake and Degradation in Macrophages Following Bleomycin-Induced Pulmonary Fibrosis/B.R.** Hay, B. Reader, J.W. Christman, J. Leight, M.N. Ballinger, Columbus, OH, p.A7082



POSTER DISCUSSION SESSION

D22 THE COURSE OF CRITICAL ILLNESS: ADMISSION TO FOLLOW-UP

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 150 B (Middle Building, Street Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: A.J. Walkey, MD, MSc, Boston, MA
K.R. Courtright, MD, Philadelphia, PA
W.J. Ehlenbach, MD, MSc, Madison, WI

201 Delayed Recognition of Critically Ill ED Patients Admitted to the ICU: Effect on Hospital Outcomes/M. Durst, C. Vargas-Torres, L.D. Richardson, K.S. Mathews, New York, NY, p.A7083

202 Textual Analysis of Physician Progress Notes for Patients Transferred from the Intensive Care Unit to Hospital Ward/K. Brown, J. Parsons Leigh, H. Kamran, P.M. Dodek, S.M. Bagshaw, A.J. Forster, A.F. Turgeon, R.A. Fowler, F. Lamontagne, H.T. Stelfox, Calgary, Canada, p.A7084

203 Ward Capacity Strain: Defining a New Construct Based on ED Boarding Time and ICU Transfers/R. Kohn, B. Bayes, S.J. Ratcliffe, S.D. Halpern, M.P. Kerlin, Philadelphia, PA, p.A7085

204 Interhospital Transfer Handoffs: An Area for Improvement/V.K. Holden, A.C. Verceles, K.S. Robinett, Baltimore, MD, p.A7086

205 Improving Transfers from the Intensive Care Unit to Hospital Ward: A Multicenter Qualitative Study of Barriers and Facilitators to Quality Transfers/C. De Grood, J. Parsons Leigh, S.M. Bagshaw, P.M. Dodek, A.J. Forster, R.A. Fowler, J. Boyd, H.T. Stelfox, Calgary, Canada, p.A7087

206 Physician Handoffs at ICU-Ward Transfer: Communication Failures and Patient Consequences/P.G. Lyons, J.M. Farnan, V. Arora, St. Louis, MO, p.A7088

207 Impact of Transitions of Care on Severe Sepsis Outcomes/J. Paralkar, E. Wan, S. Acquah, P. Patrawalla, New York, NY, p.A7089

208 Patient, Family, and Clinician Assessments of Symptoms in Awake Mechanically Ventilated Patients/P.R. Menon, A. Peng, J.H.T. Bates, P. Prelock, R.E. Gramling, R.D. Stapleton, Burlington, VT, p.A7090

209 Formative Research to Assess Family Experiences with Inter-ICU Transfers of Ventilator Dependent Respiratory Failure Patients -Perspectives of Multiple Stakeholders/N.R. Nadig, K. Sterba, E. Johnson, A.J. Goodwin, D.W. Ford, Charleston, SC, p.A7091

210 Factors Associated with Lower Cost and Healthcare Utilization Among Critically Ill Patients with History of Chronic Lung Disease Who Received Early Palliative Care Consultation/R. Sharif, J.C. Zurko, A. Azuero, C.D. Thompson, D.W. Russell, A.S. Iyer, A.N. Zouk, G. Bagcivan, A.C. Nichols, R.O. Tucker, M.A. Bakitas, M.L. Kilgore, S.J. Knight, J.A. De Andrade, Birmingham, AL, p.A7092

211 Survey on Barriers to Critical Care and Palliative Care Integration/K. Kyeremanteng, G. D'Egidio, W. Beckerleg, B. Vanderspank, S. Sutherland, C. Wan, A. Sarti, Ottawa, Canada, p.A7093

212 Study of the Relationship of Health Insurance Resources to Goals of Care Discussions, Advance Care and End of Life Planning Requiring Medical Intensive Care in an Inner City Academic Medical Center/S. Easaw, M. Warshawsky, P. Spiro, V. Kaul, New York, NY, p.A7094

213 The Experience of Surrogate Decisions Makers in Advanced Care Planning and End of Life Decision Making/R. Sedhom, D. Barile, New Brunswick, NJ, p.A7095

214 Numeracy and Interpretation of Prognostic Estimates in Intracranial Hemorrhage Among Surrogate Decision Makers and Clinicians in the Neurologic Intensive Care Unit/N. Leiter, M. Motta, D.L. Wiegand, T. Adeyeye, N.G. Shah, A.C. Verceles, R.M. Reed, G. Netzer, Baltimore, MD, p.A7096

215 Experiences and Attitudes with End of Life Care for Pulmonary Patients on an Intermediate Care Unit/A. Frogameni, L. Chiec, S.R. Russell, Chicago, IL, p.A7097

216 Underutilization of End of Life Care Plans and Palliative Care Resources in Lung Cancer Patients Admitted to Intensive Care Units/J.R. Rayburn, C.L. Wilshire, C.R. Gilbert, R.K. Weerasinghe, E. Craig, J.A. Gorden, Seattle, WA, p.A7098

217 Regional Variation in Do Not Resuscitate Orders and End of Life Health Care Use and Spending in the United States/S.T. Rinne, A.J. Walkey, M.-S. Shieh, A.E. Barnato, P.S. Pekow, P.K. Lindenauer, Bedford, MA, p.A7099

218 Legal Aspects of the Physician's Role in Caring for Incapacitated Patients: A Review of US State Statutes/E.S. DeMartino, C.K. Doyle, D.M. Dudzinski, B.P. Sperry, M. Siegler, D.B. Kramer, P.S. Mueller, D.P. Sulmasy, Rochester, MN, p.A7100

219 Exploratory Study of Anticipatory Grief Among Surrogate Decision Makers of Patients Admitted to Medical, Surgical, and Trauma Intensive Care Units/D.R. Glick, M. Motta, D.L. Wiegand, P. Range, R.M. Reed, A.C. Verceles, N.G. Shah, G. Netzer, Baltimore, MD, p.A7101

220 Study to Evaluate the Relationship of Advanced Health Care Decision Counselling in Patients Requiring Critical Care with Respect to Survival Outcomes in an Inner City Hospital/V. Kaul, S. Easaw, P. Spiro, M. Warshawsky, Elmhurst, NY, p.A7102

221 Failure to Recover from Anemia Following Hospital Discharge Is Associated with Higher 30-Day Mortality in Intensive Care Unit Patients/N. Roubinian, E. Murphy, D. Mark, V. Liu, G.J. Escobar, Oakland, CA, p.A7103

222 Onset of Persistent Critical Illness in a Large US Integrated Healthcare System/E.M. Vigilanti, K. Kepreos, B.M. Vincent, C. Hodgson, J. McPeake, T. Quasim, R. Bellomo, T.J. Iwashyna, Ann Arbor, MI, p.A7104

223 Anticipating Need for a Survivors Clinic Appointment by Examining ICU Survivors' Trajectories of Healthcare Utilization in the Year Preceding Critical Illness/A. Montgomery-Yates, A. Kelly, A. Kalema, D.A. Gould, E.P. Cassity, A. Wieliczko, T. Klein, P. Eaton, P.E. Morris, Lexington, KY, p.A7105



224 Six- Years Trend Analysis and Outcomes in Patients Requiring Prolonged Ventilator Support in a Tertiary Care Hospital/A.H. Siddiqui, T.M. Khan, S. Alhajri, F. Siddiqui, C. Costanza, L. Portugal, J. Bennetti, C. Powell, K. Rajdev, M. Castellano, Staten Island, NY, p.A7106

225 Measuring the Metrics of Outcomes in Trials of Physical Rehabilitation During Critical Illness and Recovery; A Systematic Review/B. Connolly, L. Allum, C.L. Granger, J. Mortimore, L. Denehy, P. Williamson, N. Hart, B. Blackwood, London, United Kingdom, p.A7107

POSTER DISCUSSION SESSION

D23 AUTOIMMUNE LUNG DISEASE: CLINICAL PRESENTATION, PROGNOSIS, AND TREATMENT

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 209 A-C (South Building, Level 2)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: M.E. Strek, MD, Chicago, IL
N. Patel, MD, New York, NY
J.M. Oldham, MD, MS, Sacramento, CA

701 Clinical and Radiological Features of 37 Chilean Patients with Interstitial Lung Disease and Antisynthetase Syndrome/M. Florenzano, V. Wolff, A. Rivera, J.C. Maya, M. Salinas, Santiago, Chile, p.A7108

702 The Clinical Significance of Ferritin in Bronchoalveolar Lavage Fluid of Patients with the Anti-Aminoacyl-tRNA Synthetase Antibody-Positive Interstitial Lung Disease/M. Yamasue, M. Ando, H. Matsumoto, S. Uchida, T. Ono, A. Goto, Y. Usagawa, H. Yoshikawa, R.-I. Takenaka, S. Toba, S.-I. Nureki, E. Miyazaki, J. Kadota, Yufu-City, Japan, p.A7109

703 Cyclophosphamide for Antisynthetase Syndrome-Associated Interstitial Lung Disease/J.A. Huapaya, L.L. Silhan, S.K. Danoff, Washington, DC, p.A7110

704 Features in Adult Patients with Anti-Aminoacyl-tRNA Synthetase Antibody-Positive Interstitial Lung Disease/M. Takahashi, K. Mizumura, S. Maruoka, T. Shimizu, T. Morisawa, N. Takahashi, Y. Gon, S. Hashimoto, Tokyo, Japan, p.A7111

705 YKL-40 Is a Useful Biomarker for Evaluating Disease Activity and Predicting Prognosis in Patients with Polymyositis/Dermatomyositis-Associated Interstitial Lung Disease/H. Hozumi, T. Fujisawa, M. Kono, Y. Suzuki, M. Karayama, K. Furuhashi, N. Enomoto, N. Inui, Y. Nakamura, T. Suda, Hamamatsu, Japan, p.A7112

706 Analysis of Anti-Aminoacyl-Transfer RNA Synthetase Antibody and Anti-Melanoma Differentiation-Associated Gene 5 Antibody with the Therapeutic Response of Polymyositis/Dermatomyositis-Associated Interstitial Lung Disease/T. Nouno, M. Okamoto, K. Fujimoto, T. Ebata, S. Kaieda, T. Kawayama, H. Ida, T. Hoshino, Kurume, Japan, p.A7113

707 Near Patient Detection of Anti-MDA5 Antibodies Using Photonic Ring Immunoassays/Y. Uzunhan, R. Chieze, J.-L. Charuel, S. Mudumba, A. Wu, H. Nunes, L. Musset, R. Burlingame, M. Miyara, Bobigny, France, p.A7114

708 Mycophenolate Mofetil for Japanese Patients with Interstitial Lung Diseases in Amyopathic Dermatomyositis with Anti-MDA-5 Antibody/T. Takada, K. Asakawa, A. Aoki, M. Hayashi, T. Sakagami, T. Kikuchi, Niigata, Japan, p.A7115

709 Lung Abnormalities in Early Rheumatoid Arthritis Patients: A Pilot Study Evaluating Prevalence and Progression/H. Dong, P.J. Julien, K. Demoruelle, K.D. Deane, M.H. Weisman, Los Angeles, CA, p.A7116

710 Prognostic Significance of Histopathologic Features in Rheumatoid Lung Disease/Y. Nakamura, T. Colby, M. Kono, N. Enomoto, Y. Oyama, Y. Enomoto, K. Mori, H. Hozumi, Y. Suzuki, M. Karayama, K. Furuhashi, T. Fujisawa, N. Inui, S. Baba, K. Miura, T. Suda, Hamamatsu, Japan, p.A7117

711 Clinical Characteristics of Patients with Rheumatoid Arthritis-Associated Interstitial Lung Disease in a Danish Cohort/C. Hyldgaard, T. Ellingsen, O. Hilberg, E. Bendstrup, Aarhus, Denmark, p.A7118

712 Rheumatoid Pulmonary Nodules: Clinical and Imaging Features/M. Koslow, J.R. Young, J. Yi, M. Baqir, G.B. Johnson, J. Ryu, Rochester, MN, p.A7119

713 Rituximab for Refractory Granulomatosis with Polyangiitis and for Eosinophilic Granulomatosis with Polyangiitis/L. Kawano-Dourado, J.R.B. De Oliveira Filho, R.M. Lima, M.S. Tavares, C.S.V. Barbas, Sao Paulo, Brazil, p.A7120

714 Rituximab in the Management of Complicated Fibrosing Mediastinitis: The Mayo Clinic Experience/S. Mirza, U. Specks, K. Keogh, T. Peikert, Rochester, MN, p.A7121

715 Interstitial Lung Disease with Psoriasis/G. Ishikawa, S. Acquah, M. Salvatore, M. Padilla, New York, NY, p.A7122

716 Histopathologic Features of Autoimmunity in Patients with Chronic Hypersensitivity Pneumonitis/D.E. Stahlbaum, A. Adegunsoye, J.M. Oldham, L. Chen, S. Hsu, J.H. Chung, S. Montner, I. Noth, R. Vij, M.E. Strek, A.N. Husain, Chicago, IL, p.A7123

717 Clinical Characteristics and Natural History of Autoimmune Interstitial Lung Disease: A Single Center Experience/S. Chartrand, J.S. Lee, J.J. Swigris, K.K. Brown, J. Morisset, L. Peykova, A. Fischer, Montreal, Canada, p.A7124

718 Connective Tissue Disease Related Interstitial Lung Disease: The Influence of a Positive SSA Antibody/M.D.P. Acosta Lara, P.D. Arman, T. Kulkarni, R. Ramachandran, Y.-I. Kim, J.A. De Andrade, T.R. Luckhardt, Birmingham, AL, p.A7125

719 Pulmonary Arterial Hypertension as the Initial Manifestation of Systemic Lupus Erythematosus/C. Lee, K. Medepalli, L. Benninger, J. Elwing, Cincinnati, OH, p.A7126

720 Forced Vital Capacity Predicts Outcome in Scleroderma Associated Interstitial Lung Disease with Concomitant Pulmonary Hypertension: Data from the PHAROS Registry/J.S. Lee, J. Gordon, L. Chung, M.R. Lammi, J. Szymonifka, V. Steen, A. Fischer, Aurora, CO, p.A7127



- 721 Do Lung Function Tests Predict Response to Therapy in Connective Tissue Disease (CTD)-Associated Pulmonary Hypertension (PH)?**/A.K. Tsang, O.A. Shlobin, N. Weir, C. King, A. Brown, S. Nathan, Falls Church, VA, p.A7128
- 722 Potential Utility of Anti DFS70 Antibodies to Exclude Systemic Autoimmune Rheumatic Disease (SARD) in Patients with Interstitial Lung Disease (ILD)**/F. Bonella, Y. Lyu, D. Theegarten, E. Boerner, T. Wessendorf, J. Guzman, U. Costabel, M. Kreuter, Essen, Germany, p.A7129
- 723 Esophageal Function Is a Poor Predictor of Aspiration in Systemic Sclerosis and Idiopathic Pulmonary Fibrosis**/J.P. Gagermeier, M. Venu, S. Qazi, V. Ananthanarayanan, D.F. Dilling, C. Lashley, Maywood, IL, p.A7694

POSTER DISCUSSION SESSION

D24 CRITICAL CARE: THE OTHER HALF OF THE ICU - UPDATE IN MANAGEMENT OF NON-PULMONARY CRITICAL CARE

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 151 A (Middle Building, Street Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: J. Diaz, MD, San Francisco, CA
M.A. Tidswell, MD, Springfield, MA
A.J. Goodwin, MD, MSCR, Charleston, SC

- 301 Initial Trophic Vs. Full Enteral Feeding in Patients with Acute Lung Injury and High Nutritional Risk**/A.L. Greco, A.P. Wheeler, T.W. Rice, Nashville, TN, p.A7130
- 302 The Effect of Permissive Underfeeding Compared to Standard Feeding on Adipokines in Critically Ill Patients**/Y.M. Arabi, D. Jawdat, H.M. Tamim, W. Tamimi, M. Al-Balwi, H.M. Al Dorzi, A.S. Aldawood, M. Sadat, L. Afesh, M. Al Dlamy, W. Mashaqbeh, M. Sakhija, A. Elobeid, I. Al-Abdulkareem, G. Al-Ghamdi, S.A.I. Abdukahil, T. Almoammar, A. Bouchama, Riyadh, Saudi Ara, p.A7131
- 303 The Effect of Permissive Underfeeding Compared to Standard Feeding on the Inflammatory Response**/Y.M. Arabi, D. Jawdat, A.S. Aldawood, H.M. Tamim, W. Tamimi, M. Al-Balwi, H.M. Al Dorzi, S. Al-Qahtani, M. Sadat, L. Afesh, M. Al Dlamy, W. Mashaqbeh, M. Sakhija, A. Elobeid, I. Al-Abdulkareem, A.C. Toledo, M.R. Sohail, T. Almoammar, A. Bouchama, Riyadh, , p.A7132
- 304 Association of Protein Intake on Outcomes of Critically Ill Patients: A Propensity Score-Adjusted Analysis**/Y.M. Arabi, H.M. Al-Dorzi, A.S. Aldawood, H.M. Tamim, S.H. Haddad, G. Jones, L. McIntyre, O. Solaiman, M.H. Sakkijha, M. Sadat, L. Afesh, S.A. Baharon, A. Kumar, S.M. Bagshaw, S. Mehta, Riyadh, Saudi Arabia, p.A7133

- 305 The Association Between Caloric Intake and the Outcomes of Patients with Hypercapnic Acute Respiratory Failure**/H.M. Al-Dorzi, A.S. Aldawood, H.M. Tamim, S.H. Haddad, G. Jones, L. McIntyre, O. Solaiman, M.H. Sakkijha, M. Sadat, L. Afesh, A. Kumar, S.M. Bagshaw, S. Mehta, Y.M. Arabi, Riyadh, Saudi Arabia, p.A7134
- 306 Vitamin D Supplementation and Outcomes in Critically Ill Intubated Patients in the Medical Intensive Care Unit**/T. Leclair, N.A. Zakai, J. Bunn, R.D. Stapleton, Burlington, VT, p.A7135
- 307 Initiation Strategies for Renal Replacement Therapy According to Severity and Septic Shock: A Post-Hoc Analysis of the AKIKI Trial**/S. Gaudry, D. Hajage, F. Schortgen, L. Martin-Lefevre, F. Tubach, J.-D. Ricard, D. Dreyfuss, Colombes, France, p.A7136
- 308 Septic Acute Kidney Injury: Practice Patterns Associated with Non-Resolving AKI**/K. Mitchell, I.D. Peltan, P.K. Bhatraju, K.E. Rudd, B. Mann, D. Carlborn, J. Himmelfarb, C.T.L. Hough, Seattle, WA, p.A7137
- 309 Use of Renal Replacement Therapy in Patients with Acute Respiratory Distress Syndrome: A Single Center Retrospective Review**/J. Dill, B. Bixby, H. Ateeli, B. Thajudeen, K. Goel, R. Buckley, I. Finkelshteyn, J. Ta, H. Desai, B. Sarsah, I. Mansour, C. Poongkunran, M. Borgstrom, C. Bime, Tucson, AZ, p.A7138
- 310 Increased Plasma and Urine RIPK3 Levels Correlate with Acute Kidney Injury and Predict Duration of Kidney Dysfunction During Sepsis**/E. Patino, K.C. Ma, A. Sureshababu, E. Finkelstein, A.M.K. Choi, M. Choi, New York, NY, p.A7139
- 311 Fluid Resuscitation in Patients with End-Stage Renal Disease Presenting with Severe Sepsis or Septic Shock**/Y. Omar, K. Kaczmarczyk, A.A. El Solh, P.E. Jaoude, Buffalo, NY, p.A7140
- 312 Fluid Resuscitation Dilemma in Patients with Congestive Heart Failure Presenting with Severe Sepsis in Intensive Care Unit: An Analysis of a Large Clinical Database MIMIC III**/Q. Tran, Harrisburg, PA, p.A7141
- 313 The Incidence and the Risk Factor of Acquired Swallowing Disorders Among Patients After Cardiac Surgery in China**/M. Zhou, Beijing, China, p.A7142
- 314 Reducing Intensive Care Unit Length of Stay: A Single Center Retrospective Review of Minimally Invasive Versus Traditional Transcatheter Aortic Valve Replacement**/R.S. Kadakia, S. Rathore, J. Foerst, E. Shree, J. Rowe, Roanoke, VA, p.A7143
- 315 Epidemiology of Elderly Opioid Users Admitted to Intensive Care Units**/H.T. Wang, A. Hill, R. Fowler, R. Pinto, T. Gomes, H. Wunsch, Toronto, Canada, p.A7144
- 316 Early Identification of Gastrointestinal Bleeding Requiring Critical Care Using Machine Learning**/H. Soleimani, K. Henry, A. Zhan, P. Pronovost, N. Rawat, D. Hager, S. Saria, Baltimore, MD, p.A7145
- 317 Characteristics, Management and Outcomes of Patients with Solid Cancers Admitted to Intensive Care Unit: A Retrospective Study**/H. Tlayjeh, H.M. Al Dorzi, A.A.H. Itani, A.-R. Jazieh, B. Al-Raiy, K. Shammout, M. Al Douahji, A.C. Toledo, S.A.I. Abdukahil, Y.M. Arabi, Riyadh, Saudi Arabia, p.A7146



- 318 Medical Intensive Care Unit (MICU) Admission Rates by HIV Serostatus and Alcohol-Related Diagnosis in the Combination Antiretroviral Era/C.** Rentsch, J.P. Tate, T. Steel, A.A. Butt, C.L. Gilbert, L. Huang, M. Pisani, G.W. Soo Hoo, S. Crystal, D. Rimland, A.C. Justice, K.A. Crothers, K.M. Akgun, West Haven, CT, p.A7147
- 319 The Effect of Antimicrobial Treatment Duration on Mortality and Recurrence in Hospital-Acquired Central Line-Associated Bloodstream Infections/L.E.** Huerta, G.E. Nelson, T.W. Rice, Nashville, TN, p.A7148
- 320 Institution of Matrix Assisted Laser Desorption Ionization - Time of Flight and Effect on Time to Appropriate Antibiotics/J.M.** LeBlanc, J. Mowatt, S. El-Bailey, M. Thompson, D. Webster, Saint John, Canada, p.A7149
- 321 Thoracic Epidural Analgesia and Survival in Acute Pancreatitis: A Multicenter Propensity Analysis/M.** Jabaudon, N. Belhadj-Tahar, T. Rimmele, O. Joannes-Boyau, S. Bulyez, C. Roger, Y. Malledant, M. Leone, P. Abback, F. Tamion, H. Dupont, B. Lortat-Jacob, P. Guerci, T. Kerfone, R. Cinotti, L. Jacob, P. Verdier, T. Dugernier, B. Pereira, J.-M. Constantin, p.A7150
- 322 Burden of Respiratory Complications on Thirty Day Unplanned Hospital Readmission in Patients with Generalized Convulsive Epilepsy and Status Epilepticus: A Nationwide Analysis/R.** Parikh, S. Patel, T. Mehta, R.D. Stapleton, Burlington, VT, p.A7151
- 323 Do-Not-Resuscitate Status Explains the Obesity Paradox in Patients with Severe Sepsis/S.P.** Taylor, C. Karvetski, M. Templin, J.D. Herlihy, B. Taylor, Charlotte, NC, p.A7152
- 324 Reduced Clinical Recall and Attentiveness Due to Decision Fatigue/F.** Tian, M. Exline, Columbus, OH, p.A7153
- 325 Delirium Severity Assessed by CAM-ICU-7 in the ICU Is a Better Predictor for In-Hospital Mortality Compared to Delirium Duration/S.H.** Khan, A.J. Perkins, S. Gao, S.L. Hui, C. Mosher, S. Wang, M. Boustani, B.A. Khan, Indianapolis, IN, p.A7154
- 103 Aspergillus Muscle Abscess: A Rare Manifestation of Disseminated Infection/H.** Poser, S.J. Quinn, Chicago, IL, p.A7157
- 104 Immunocompetent Patient with Anterior Paramediastinal Abscess Caused by Nocardia Cyriacigeorgica: A Case Report/K.X.** Rivera Manzano, J. Maldonado, M. Betancourt, R. Fernandez, M. Colon, San Juan, PR, p.A7158
- 105 Pulmonary Empyema with Thoracic Compression resulting from Direct Invasion of Xanthogranulomatous Pyleonephritis/R.S.** Kadakia, T. Pelleg, M. Wiid, Roanoke, VA, p.A7159
- 106 An Unusual Cause of Tracheitis/B.A.** Weiler-Lisowski, B.-C. Tran, P. Bergquist, J. Heath, K.S. Robinett, Baltimore, MD, p.A7160
- 107 Rapidly Progressive Invasive Pulmonary Aspergillosis in a Non Immunocompromised Host- A Rare Case Report/V.D.** Sheth, R.K. Chopra, Pune, India, p.A7161
- 108 Mounier- Kuhn Syndrome: An Overlooked Cause of Recurrent Lower Respiratory Tract Infections/P.S.** Minhas, J.E. Most, Abington, PA, p.A7162
- 109 Successful Recovery from Hantavirus Pulmonary Syndrome Via Utilization of Venovenous Extracorporeal Membrane Oxygenation (ECMO)/M.** Abidali, N. Shamsid-Deen, T. Whiting, Phoenix, AZ, p.A7163
- 110 Pneumocystis Pneumonia in a Patient with Hepatitis C and Cirrhosis Without HIV or Other Risk Factors/N.** Yee, B. Mann, K.A. Crothers, T. Albert, Seattle, WA, p.A7164
- 111 Miliary Pulmonary Histoplasmosis Associated with Aortofemoral Graft Infection/E.M.** Hodges, R.M. Brown, R.W. Story, R.W. Light, Nashville, TN, p.A7165
- 112 Broncho-Esophageal Fistula Secondary to Histoplasmosis that Underwent Spontaneous Healing/A.** Attaway, F.J. Jacono, R. Gilkeson, J. Faress, Cleveland, OH, p.A7166
- 113 Delayed Detection of Laryngeal Tuberculosis Leading to the Biggest Prison Outbreak in Europe/L.E.** Gleeson, E. Roycroft, M. Herron, M. Fitzgibbon, M. O'Meara, T. Rogers, A.M. McLaughlin, J.M. Keane, Dublin, Ireland, p.A7167
- 114 Membranoproliferative Glomerulonephritis Secondary to Disseminated Tuberculosis After Withdrawal of Adalimumab/G.** Samuel, D. Storey, D. Singh, X.J. Zhou, Fort Worth, TX, p.A7168
- 115 Flow Cytometric Immune Profiling in a Patient with Culture-Negative Tuberculosis/A.** McCambridge, T. Peikert, V. Van Keulen, C. Erskine, P. Escalante, Rochester, MN, p.A7169
- 116 A Common Flavor of Tuberculosis that Can Be Missed Frequently/M.A.** Shenoy, P. Irukulla, P. Chandar, A. Rai, K. Chawla, W. Pascal, Brooklyn, NY, p.A7170
- 117 A Case of Pulmonary Mycobacterium Tuberculosis and Mycobacterium Abscessus Co-Infection/S.** Bhardwaj, S. Khanijao, E. Sharma, K. Kitchloo, M. Hecht, Brooklyn, NY, p.A7171
- 118 Granulomatous Disease: Treatment and Dissemination, Two Sides of a Coin/K.L.** Myint, Z. Hashemi, H. Upadhyay, A. Rasheed, M. Shahzadi, F. Arjomand, L. Gerolemou, V. Vasudevan, Brooklyn, NY, p.A7172

POSTER DISCUSSION SESSION

D25 UNUSUAL INFECTIONS: CASE REPORTS

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 144 A-C (Middle Building, Street Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: K.L. Winthrop, MD, MPH, Portland, OR
M.L. Metersky, MD, Farmington, CT
A.E. O'Donnell, MD, Washington, DC

- 101 A Case of Pulmonary Botrytis Species Infection in an Apparently Healthy Individual/S.** Hashimoto, E. Tanaka, M. Ueyama, S. Terada, T. Nakanishi, N. Hamao, T. Inao, Y. Kaji, T. Yasuda, T. Hajiro, S. Noma, G. Honjo, Y. Kobashi, Y. Taguchi, Tenri, Japan, p.A7155
- 102 An Unusual Case of Diffuse Alveolar Hemorrhage in the Bone Marrow Transplant Patient/M.** Marmor, H. Lau, J. Lavezo, Stanford, CA, p.A7156



- 119** **Adjuvant Video-Assisted Thoracoscopic Surgery (VATS) for Nontuberculous Mycobacterial Lung Disease**/S.A. Siegel, J. Watson, J. Philley, F. Thakkar, M. Devine, J.A. Caccitolo, R. Wallace, D.E. Griffith, P. Schipper, K.L. Winthrop, Portland, OR, p.A7173
- 120** **Massive Hemoptysis from Systemic Pulmonary Anastomoses, in the Setting of Chronic Non Tuberculous Mycobacterial (NTM) Cavitating Lung Disease**/K. Bally, D. Railwah, F. Reyes, N. Singh, A. Beal, Brooklyn, NY, p.A7174
- 121** **Endobronchial Mycobacterium Avium Causing Proximal Airway Obstruction**/T. Altree, H. Jersmann, A. Fon, P. Nguyen, Adelaide, Australia, p.A7175
- 122** **Mycobacterium Avium Complex-Related Pericardial Effusion in an Immunocompetent Patient**/A. Dela Cruz, P. Charoenpong, S. Zulqarnain, Brooklyn, NY, p.A7176
- 123** **Role of Systemic Hypertension in Submassive Hemoptysis**/K.P. Fennelly, D. Goldstein, D. Kleiner, A. Brofferio, C. Hoang, K.N. Olivier, Bethesda, MD, p.A7177
- 124** **Hot Tub Lung: A Diagnostic Challenge**/H. Yasin, A.U. Farooq, W.E. Mangano, P. Malhotra, H. Mohamed, Charleston, WV, p.A7178
- 505** **MSC Extracellular Vessicles Enhance Angiogenesis In Vitro/V. Balasubramaniam, C. Chetty, G. Nelson, R. Braun, Madison, WI, p.A7183**
- 506** **Immune Activation Programs Lung Endothelial Cell-Fate Decisions by Inducing Delta-Like 4(Dll4) in an ERK-FOXC2-Dependent Manner**/H. Menden, S. Xia, V. Sampath, Kansas City, MO, p.A7184
- 507** **Lymphocyte Expression Biomarkers of Chronic Lung Diseases Following Preterm Birth**/S. Bhattacharya, J. Mereness, A. Baran, R.S. Misra, C. Slaunwhite, H. Huyck, S. Bandyopadhyay, J. Holden-Wiltse, D.R. Peterson, R.M. Ryan, A.-M. Reynolds, G.S. Pryhuber, T.J. Mariani, Rochester, NY, p.A7185
- 508** **Cellular and Molecular Mechanisms of Mononuclear Cell Populations in Acute Neonatal Hyperoxia-Induced Lung Injury**/L.C. Eldredge, R.S. Creasy, J.-F. Lai, S.F. Ziegler, Seattle, WA, p.A7186
- 509** **Monocyte-Centred Inflammatory Response Driving Pulmonary Injury in Neonatal Chronic Lung Disease**/P.S. Oak, T. Pritzke, M. Koschlig, A. Windhorst, N. Jain, T. Reicherzer, H. Ehrhardt, M. Frankenberger, M. Schwarz, A. Hilgendorff, Munich, Germany, p.A7187
- 510** **Enhanced Vulnerability of the Developing Lungs by Moderate Prenatal Cigarette Smoke Upon Postnatal Injury**/P.S. Oak, N. Kamgari, T. Pritzke, G. John-Schuster, J. Jia, A.O. Yildirim, A. Hilgendorff, Munich, Germany, p.A7188
- 511** **Bone Marrow-Derived Mesenchymal Stem Cells and Conditioned Media Have Differential Effects in an In Vitro Model of Bronchopulmonary Dysplasia**/C.R. Nitkin, T. Bonfield, Cleveland, OH, p.A7189
- 512** **Bone Morphogenetic Protein 9 Protects Against Neonatal Hyperoxia-Induced Lung Injury by Improving Alveolarization and Reducing Pulmonary Inflammation**/X. Chen, M. Orriols, E.H. Laghmani, A. Hoogeboom, A. Hogen-Esch, P. Hiemstra, G. Folkerts, M.-J. Goumans, P. Ten Dijke, N. Morrell, F. Walther, G. Wagenaar, Leiden, Netherlands, p.A7190
- 513** **Serum Brain-Derived Neurotrophic Factor (BDNF) Levels Can Predict Bronchopulmonary Dysplasia and Clinical Outcomes in the Neonatal Period**/S.L. Simpson, F. Rezaee, M. Alejandro-Rodriguez, S. Worley, A.S. Tang, L. Wang, J.H. Peterson, M.J. Mhanna, M.J. Allen, W.L. Spencer, H. Sedar, J.J. Moore, G. Piedimonte, Cleveland, OH, p.A7191
- 514** **High Versus Therapeutic Doses of Caffeine on Biomarkers of Inflammation and Oxidative Stress in the Lungs of Neonatal Rats Exposed to Hyperoxia and Intermittent Hypoxia**/J.M. Calo, K. Soontarapornchai, C. Cai, K. Beharry, J. Aranda, Brooklyn, NY, p.A7192
- 515** **Effect of Oxygen Saturation Targets on Development of Pulmonary Hypertension in Extremely Premature Infants**/S. Katz, C. Laliberte, Y. Hanna, N. Barrowman, B. Lemyre, B. Thebaud, L. Hoey, D. Reddy, N. Ben Fadel, Ottawa, Canada, p.A7193
- 516** **Effect of Oxygen Saturation Targets on Duration of Respiratory Support and Disposition**/S. Katz, Y. Hanna, C. Laliberte, N. Barrowman, B. Thebaud, N. Ben Fadel, L. Hoey, D. Reddy, B. Lemyre, Ottawa, Canada, p.A7194

POSTER DISCUSSION SESSION

D26 LUNG DEVELOPMENT AND BPD

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 201 (South Building, Level 2)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

Chairing: R.M. Ryan, MD, Charleston, SC
H. Rozycki, MD, Richmond, VA
G.S. Pryhuber, MD, Rochester, NY

- 501** **Inflammation and Hyperoxia Lead to Pulmonary Hypertension in a Mouse Model of Bronchopulmonary Dysplasia but Not Increased Ex Vivo Intrapulmonary Artery Contraction**/J.E. Bourke, E. Lamanna, C. Bui, M. Lam, M. Kroon, S. Royce, M. Nold, C. Nold, Melbourne, Australia, p.A7179
- 502** **Adrenomedullin-Haploinsufficient Neonatal Mice Display Increased Susceptibility to Hyperoxia-Induced Lung Injury**/B. Shivanna, A.K. Shrestha, R.T. Menon, Houston, TX, p.A7180
- 503** **CD103+ Dendritic Cells and CLEC9A Signaling Are Required for Hyperoxia-Induced Hypoalveolarization in a Murine Model of Bronchopulmonary Dysplasia**/C.T. Fulton, T.X. Cui, A.P. Popova, Ann Arbor, MI, p.A7181
- 504** **The Thioredoxin Reductase-1 Inhibitor Aurothioglucose Does Not Require Nuclear Factor E2-Related Factor 2 (Nrf2) for the Attenuation of Lung Developmental Deficits in a Murine BPD Model**/Q. Li, R. Li, K. Dunigan, S. Wall, T.E. Tipple, Birmingham, AL, p.A7182



- 517 Structural and Functional Respiratory Impairment in Infants with Severe Bronchopulmonary Dysplasia/M. Pijnenburg, E. Van Mastrigt, E. Kakar, P. Ciet, M. Den Dekker, K. Joosten, P. Kalkman, R. Swarte, A. Kroon, H. Tiddens, J. De Jongste, I. Reiss, L. Duijts, Rotterdam, Netherlands, p.A7195**
- 518 The Effect of Chin Straps During Nasal Continuous Positive Airway Pressure (NCPAP) on Transpulmonary Pressure in a Non-Human Primate Model/K.D. MacDonald, C.T. McEvoy, R. Lam, E.R. Spindel, R.S. Tepper, M. Davies, Portland, OR, p.A7196**
- 519 Palivizumab Use in Canada in the CARESS Database 2005-2015/I. Mitchell, B. Paes, A. Li, K. Lancot, Calgary, Canada, p.A7197**
- 520 Quality of Life and Cardiorespiratory Function in Children Born Extremely Preterm Birth/J.E. MacLean, A. Le, K. Dehaan, L. Henderson, D. Nicholas, M. Stickland, Edmonton, Canada, p.A7198**
- 521 Discrimination of Pulmonary Changes in Neonatal Chronic Lung Disease by a New MRI Score/A. Hilgendorff, K. Foerster, S. Sass, S. Stoecklein, O. Dietrich, A. Pomschar, A. Schulze, C. Huebener, F. Theis, H. Erhardt, A. Flemmer, B. Ertl-Wagner, Munich, Germany, p.A7199**
- 522 MRI-Based Scoring of Bronchopulmonary Dysplasia (BPD) Correlates with Disease Severity and Short-Term Outcomes/N.S. Higano, R. Fleck, D.R. Spielberg, L.L. Walkup, A. Hahn, R. Thomen, J.A. Tkach, S.L. Merhar, S.B. Fain, J.C. Woods, St. Louis, MO, p.A7200**
- 523 Quantitative MRI Measures of Pulmonary Arterial Blood Flow and Morphology in Congenital Diaphragmatic Hernia/J.A. Tkach, M.D. Taylor, R.A. Moore, N.S. Higano, L.L. Walkup, P.S. Kingma, J.C. Woods, Cincinnati, OH, p.A7201**
- 524 MRI Measures of Pulmonary Arterial Blood Flow and RV Remodeling in BPD/J.A. Tkach, M.D. Taylor, R.A. Moore, N.S. Higano, L.L. Walkup, E.S. Olson, D.R. Spielberg, S.L. Merhar, J.C. Woods, Cincinnati, OH, p.A7202**
- 525 Pretreatment with Dexamethasone Steroid Blunts the Effect of Natriuretic Peptide Receptor-C (NPR-C) Inhibition of Terbutaline-Induced Surfactant Secretion in Human Lung Tissue Type II Cells/R.M. Ryan, M.K. Paintlia, D.A. Newton, J.E. Baatz, Charleston, SC, p.A7695**
- 1001 Role for Macrophage and Smooth-Muscle-Cell Cross-Talk Via CCR2 and CCR5 in Progression of Pulmonary Hypertension/S. Abid, A. Parpaleix, V. Amsellem, A. Houssaini, M. Breau, E. Marcos, D. Sawaki, E. Bizard, M. Delcroix, R. Quarck, S. Adnot, Creteil, France, p.A7203**
- 1002 MiRNA Cargo in Microvesicles Released from Hypoxic Pulmonary Arterial Endothelial Cells Induces Pulmonary Vascular Smooth Muscle Cell Proliferation and Pulmonary Hypertension/T. Chen, M. Sun, R. Ramchandran, J.U. Raj, Chicago, IL, p.A7204**
- 1003 SphK1 Deficiency in Smooth Muscle Cells Protects Against Hypoxia- or Hypoxia plus Sugen Mediated Pulmonary Hypertension/J. Chen, S. Zhao, L.S. Huang, Y. Wang, N. Felesena, V. Natarajan, R.F. Machado, Chicago, IL, p.A7205**
- 1004 Loss of Wnt5a Disrupts Endothelial-Pericyte Interactions in Pulmonary Arterial Hypertension/K. Yuan, E. Shamskhov, M. Discipulo, M. Orcholski, H. Honda, S. Reddy, V. De Jesus Perez, Stanford, CA, p.A7206**
- 1005 Pulmonary Transfer of Regulatory Macrophages in Experimental Pulmonary Hypertension Ameliorates Vascular Disease by Modulating the Local Inflammatory Response to Hypoxia/A. Fernandez-Gonzalez, A. Mukhia, S.H. Vitali, S.A. Mitsialis, S. Kourembanas, Boston, MA, p.A7207**
- 1006 Contribution of Reduced Toll-Like Receptor 3 Expression to Endothelial Dysfunction in Pulmonary Hypertension/D. Farkas, C. Cool, E.A. Goncharova, L. Farkas, Richmond, VA, p.A7208**
- 1007 HDAC6: A Novel Histone Deacetylase Implicated in Pulmonary Arterial Hypertension/O. Boucherat, S. Chabot, R. Paulin, I. Trinh, A. Bourgeois, F. Potus, M.-C. Lampron, C. Lambert, S. Breuils-Bonnet, R. Paradis, E. Goncharova, S. Provencher, S. Bonnet, Quebec, Canada, p.A7209**
- 1008 Role of the FOXO3-FOXO1 Axis in Pulmonary Hypertension/O. Boucherat, I. Trinh, C. Lambert, F. Potus, S. Breuils-Bonnet, V. Nadeau, R. Paulin, S. Provencher, S. Bonnet, Quebec, Canada, p.A7210**
- 1009 Mechanism of Taurine Accumulation and Metabolic Regulation in Pulmonary Hypertension/P. Joseph, A. Gottehrer Cohen, B.A. Maron, R.D. Brown, K.R. Stenmark, J. Loscalzo, W.M. Oldham, Boston, MA, p.A7211**
- 1010 Degradation of Hyaluronan Matrices by Extracellular Superoxide Is an Early Step in the Initiation of Hypoxic Pulmonary Vascular Disease/V. Tseng, C. Woods, J. Maltzahn, R. Midura, R. Bowler, E. Nozik Grayck, Aurora, CO, p.A7212**
- 1011 Role of Female Sex Hormones in Modulating the Severe Pulmonary Arterial Hypertension Phenotype Induced by VEGFR2 Inhibition in a 'Hyper-Responsive' Colony of Sprague Dawley Rats/K.R. Chaudhary, Y. Deng, K. Tyson, D.J. Stewart, Ottawa, Canada, p.A7213**
- 1012 Protracted Endothelial Cell Apoptosis Leads to Direct Microvascular Loss as a Major Mechanism of Severe Pulmonary Arterial Hypertension in the Rat SU5416-Hypoxia Model/Y. Deng, K.R. Chaudhary, A. Yang, K.J. Rowe, D.J. Stewart, Ottawa, Canada, p.A7214**

POSTER DISCUSSION SESSION

D27 I WANNA BE YOUR ... NOVEL MECHANISTIC INSIGHT INTO PULMONARY VASCULAR DISEASE

9:15 a.m. - 11:15 a.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 9-10 (Level M2)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

Chairing: S.S. Pullamsetti, PhD, Bad Nauheim, Germany
E.P. Schmidt, MD, Aurora, CO
J.P. Fessel, MD, PhD, Nashville, TN



- 1013 Pro-Inflammatory Priming of Peripheral Blood Monocytes and Monocyte-Derived Macrophages from Calves with Hypoxic Pulmonary Hypertension/K.C. El Kasmi, S. Riddle, M.J. Ostaff, M. Frid, A. Flockton, K.R. Stenmark, Aurora, CO, p.A7215**
- 1014 Intense Feeding and Fattening Regimens Augment Pulmonary Hypertension, Pulmonary Venous and Cardiac Remodeling in Beef Cattle: A Natural Large Animal Model of Pulmonary Hypertension with Left Ventricular Dysfunction/G.M. Krafur, R.D. Brown, T.N. Holt, D.H. Gould, F. Garry, S. Riddle, J.M. Neary, R.M. Enns, M. Thomas, K.R. Stenmark, Aurora, CO, p.A7216**
- 1015 Macrophage-Derived Cytokines Are Associated with Pulmonary Vascular Remodeling in Mouse Model of PAH/M. Talati, X. Chen, S. Gladson, S. Shay, J.D. West, Nashville, TN, p.A7217**
- 1016 Targeting TMEM16A Might Represent a Novel Reverse Remodeling Therapy in Pulmonary Arterial Hypertension/A. Olschewski, R. Papp, C. Nagaraj, B. Nagy, Z. Balint, G. Kwapiszewski, E. Stacher-Priehe, G. Kovacs, W. Klepetko, B. Ghanim, M. Wygrecka, M. Didiasova, H. Olschewski, Graz, Austria, p.A7218**
- 1017 Bardoxolone Methyl Inhibits Proliferation of Human Pulmonary Arterial Smooth Muscle Cells Cultured Under Hypoxic Conditions/C. Wigley, G. Miller, L. McCauley, D. Ferguson, Irving, TX, p.A7219**
- 1018 PINK1 Deficiency Increases Age-Related Susceptibility to Pulmonary Hypertension/M. Bueno, J. Baust, K.L. Fiedler, T.N. Backman, D. Goncharov, E.A. Goncharova, A.L. Mora, Pittsburgh, PA, p.A7220**
- 1019 PPARI3/HUWE1/miR-98 Signaling Axis Regulates Nuclear Factor Kappa-B p65 (NF-κB p65) and Endothelial Dysfunction in Lungs of Sickle Cell Mice and in Hemin-Treated Human Pulmonary Artery Endothelial Cells (HPAECs)/B.-Y. Kang, R.L. Sutliff, D.R. Archer, C.M. Hart, Decatur, GA, p.A7696**
- 1020 Spatially Distinct TRPV4-eNOS Signaling Regulates Endothelial Function in Small Pulmonary Arteries/S.K. Sonkusare, E.L. Cope, K. Hong, C. Marziano, Charlottesville, VA, p.A7697**
- 1021 Pulmonary Vascular Efficiency Worsening and Cardiac Energy Wasting During Early Stages of Experimental Acute Respiratory Distress Syndrome/A. Santos, M.I. Monge-Garcia, J.B. Borges, E. Gomez-Penalver, J. Retamal, L. Lucchetta, G. Hedenstierna, A. Larsson, F. Suarez-Sipmann, Uppsala, Sweden, p.A7698**
- 801 Association Between DNA Methylation in the AXL Gene at Birth and Childhood Respiratory Health/L. Gao, J. Millstein, K. Siegmund, L. Dubeau, E. Avol, F. Gilliland, C. Breton, Los Angeles, CA, p.A7221**
- 802 Transcriptomic Analysis of Pediatric Human Lung Tissue and Sorted Lung Cell Types/R.S. Misra, H. Huyck, U.O.R.M. Center, J.M. Ashton, J.R. Myers, Y. Du, Y. Xu, J.A. Whitsett, S. Bhattacharya, C. Chu, T.J. Mariani, G.S. Pryhuber, Rochester, NY, p.A7222**
- 803 CBX5/G9a-Mediated Epigenetic Silencing in Lung Fibroblast Activation/G. Ligresti, D.L. Jones, A.J. Haak, K.M. Choi, Q. Tan, D.G. Sicard, G.A. Lomberg, R.A. Urrutia, D.J. Tschumperlin, Rochester, MN, p.A7223**
- 804 DNA Methylation and Epigenetic Age Characterize Molecular Differences Between Idiopathic Pulmonary Fibrosis and COPD/W. Qiu, I. Rosas, I. Noth, F.J. Martinez, K. Anstrom, C. Lee, J. Elias, E.K. Silverman, A.M.K. Choi, D.L. DeMeo, Boston, MA, p.A7224**
- 805 Neonatal DNA Methylation Profiles Are Associated with the Maternal Prenatal Immune Milieu Selectively in Children with Non-Asthmatic Mothers/A. DeVries, D.A. Stern, A.L. Wright, D. Vercelli, Tucson, AZ, p.A7225**
- 806 Reversing Stiff Matrix-Induced Desmoplakin (DSP) Overexpression by CRISPR/dCas9-Mediated Epigenome Editing/J. Qu, H. Chen, R.-M. Liu, V.J. Thannickal, Y. Zhou, Birmingham, AL, p.A7226**
- 807 Use of Novel DNA Methylation Signatures to Distinguish Between Human Airway Structural Cell Types/P. Rajasekar, R.L. Clifford, J.L. MacIsaac, L.M. McEwen, M. Kobor, A.J. Knox, Nottingham, United Kingdom, p.A7227**
- 808 Epigenome-Wide Consortium Meta-Analysis of DNA Methylation and Childhood Asthma: The Pregnancy and Childhood Epigenetics (PACE) Consortium/S.E. Reese, Durham, NC, p.A7228**
- 809 DNA Methylation Mediates the Effect of Cigarette Smoke Exposure on Lung Function Levels/M. De Vries, D.A. Van Der Plaats, A.J.F.C. Lichtenfels, I. Nedeljkovic, N. Amin, C.M. Van Duijn, D.S. Postma, C.C. Van Diemen, J.M. Vonk, H.M. Boezen, Groningen, Netherlands, p.A7229**
- 810 DNA Methylation and Allergic Sensitization to 11 Allergens: A Genome Scale Study/H. Zhang, R. Velampati, S. Merid, E. Melen, H. Arshad, W. Karmaus, J. Holloway, S. Ewart, Memphis, TN, p.A7230**
- 811 Epigenetic Regulation of Runx2 in Epithelial Mesenchymal Transition (ETM) of Non-Small-Cell Lung Cancer Cells A549/A.P. Rojas, A. Canas, A. Herreno, Bogota, Colombia, p.A7231**
- 812 Function and Epigenetic Regulation of the Large Conductance Potassium Ion Channel Subunit KCNMB1 in Normal and IPF Fibroblasts/A. Scruggs, S. Gravelyn, S.K. Huang, Ann Arbor, MI, p.A7232**
- 813 Protein Arginine Methyltransferase Enzymes 6 Attenuates Cigarette Smoke-Induced Endothelial Cell Senescences, Oxidative Damage and Dysfunction/T. Li, X. He, H. Zeng, Z. Dai, Y. Cui, J. Xue, Y. Chen, Changsha, China, p.A7233**

POSTER DISCUSSION SESSION

D28 THE WEB OF OMICS: DNA, RNA, AND PROTEIN MODIFICATIONS

9:15 a.m. - 11:15 a.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 1-2 (Level M2)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

Chairing: B.D. Singer, MD, Chicago, IL
N. Kaminski, MD, New Haven, CT
T.J. Mariani, PhD, Rochester, NY



- 814** **AHRR Hypomethylation, Lung Function, Lung Function Decline, and Respiratory Symptoms**/J.B. Kodal, C.J. Kobylecki, S. Vedel-Krogh, B. Nordestgaard, S.E. Bojesen, Herlev, Denmark, p.A7234
- 815** **Neutrophil Membrane Proteomics in Alpha-1 Antitrypsin Deficiency**/T. McEnery, D.J.L. Hunt, M.M. White, M. Henry, P. Meleady, E. Reeves, N.G. McElvaney, Dublin, Ireland, p.A7235
- 816** **Identifying Gene Expression Signatures of COPD in Bronchial Biopsies Using Co-Expression Network Methods**/Y. Gunawardana, C.M. Spalluto, K. Ostridge, C.H. Woelk, T. Wilkinson, K.J. Staples, Southampton, United Kingdom, p.A7236
- 817** **Single Cell RNA Sequencing Reveals Smoking-Associated Alterations in Bronchial Airway Epithelial Subpopulations**/G.E. Duclos, J.D. Campbell, Y.B. Gesthalter, Y.M. Dumas, P. Autissier, R. Terrano, G. Liu, M.E. Lenburg, A. Spira, J. Beane, Boston, MA, p.A7237
- 818** **Characterization of the MSC Proteome Using Quantitative Proteomics**/S. Rolandsson Enes, E. Ahrman, A. Palani, O. Hallgren, L. Bjermer, S. Scheding, A. Malmstrom, J. Malmstrom, G. Westergren-Thorsson, Lund, Sweden, p.A7238
- 819** **Pharmacometabolomic Characterization of the Polarization of Human Lung Macrophages**/F. Fall, N. Fabresse, M. Brollo, I. Etting, E. Naline, J.-C. Alvarez, P. Devillier, S. Grassin-Delye, Montigny le Bretonneux, France, p.A7239
- 820** **The Alveolar Macrophage Toponome Is Altered by SP-A1 Treatment**/D.S. Phelps, J. Floros, Hershey, PA, p.A7240
- 821** **Sex-Specific Differences in the Transcriptome and Epigenome in Neonatal Hyperoxic Lung Injury: Implications for Bronchopulmonary Dysplasia**/K. Lingappan, Y. Zhang, S. Maity, W. Jiang, L. Wang, C. Coarfa, B. Moorthy, Houston, TX, p.A7241
- 822** **RNAseq Profiling of Transcriptional Changes in Vimentin-Null Mice Following IAV Infection**/C.M. Koch, H. Abdala-Valencia, A.V. Misharin, J. Davis, K.M. Ridge, Chicago, IL, p.A7242
- 823** **Multi-Omic Integrative Analysis of Emphysema Patterns Identifies Functional Regulatory Variants for TGFB2 in Fibroblasts**/M. Parker, A. Lamb, R.P. Chase, M.H. Cho, R. San Jose Estepar, G. Washko, C.P. Hersh, E. Dube, Z. Naing, L. Farnam, V.J. Thannickal, J.D. Crapo, E.K. Silverman, X. Zhou, P.J. Castaldi, Boston, MA, p.A7243
- 824** **Comprehensive Gene Resequencing of SERPINA1 in the SPIROMICS Multi-Ethnic Population**/V.E. Ortega, X. Li, W. O'Neal, G. Hawkins, E. Pennington, R.G. Barr, C.B. Cooper, D. Couper, M.K. Han, N. Hansel, R.E. Kanner, F.J. Martinez, P.G. Woodruff, E.A. Hoffman, D. Meyers, E. Bleecker, Winston-Salem, NC, p.A7244
- 825** **Multi-Scale Mass Spectrometry-Based-Omics Analysis of the Developing Lung**/G. Clair, J. Kyle, Y.-M. Kim, R. Sontag, E. Zink, J. McDermott, R. Corley, C. Ansong, Richland, WA, p.A7245

RAPID: RAPID ABSTRACT POSTER DISCUSSION

D29 UNRAVELING THE EXTRACELLULAR MATRIX

9:15 a.m. - 11:15 a.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 3-4 (Level M2)

Abstract Summaries

9:15-9:45

Poster Viewing/Discussion

9:45-11:15

Chairing: T. Hackett, PhD, Vancouver, Canada

A. James, MD, MBBS, PhD, Nedlands, Australia

H. Parameswaran, PhD, Boston, MA

901 **Role of the Transcription Factor Scleraxis in the Development of Bleomycin-Induced Lung Fibrosis in a Murine Model**/C.

Mendoza-Milla, S. Basu, A.J. Halayko, M. Czubyrt,

Mexico/Winnipeg, MB, Canada, p.A7246

902 **Steroid-Enhancing Casein Kinase Inhibitors Have Anti-Fibrotic Efficacy**/A.G. Stewart, M. Li, S. Langenbach, T. Harris, C. Keenan, F.J. Jativa, A. Berhan, M. Schuliga, P. Lee, J. Jaffar, G. Westall, Melbourne, Australia, p.A7247**903** **The Role of Interleukin-1 in Driving Inflammation and Remodeling in the Asthmatic EMTU**/E.T. Osei, L.

Mostaco-Guidolin, S. Warner, T.S. Hallstrand, W. Timens, D.S.

Postma, C.A. Brandsma, I.H. Heijink, T.-L. Hackett, Vancouver, Canada, p.A7248

904 **Soft Microenvironments Effectively Suppress Fibrogenesis Pathways in Control but Not in Idiopathic Pulmonary Fibrosis (IPF)-Derived Fibroblasts**/A. Mitke, M. Schuliga, T. Harris, F.J. Jativa, P. Lee, J. Jaffar, G. Westall, A.G. Stewart, Melbourne, Australia, p.A7249**905** **The Integrin $\alpha 2 \beta 1$ Transmits Tension in Hypercontractile Airway Smooth Muscle Via Interaction with Collagen and Laminin**/A. Sundaram, S. Liu, D. Sheppard, San Francisco, CA, p.A7250**906** **Evaluation of The Role of Anti-MMP9 in Idiopathic Pulmonary Fibrosis**/M. Espindola, D. Habel, A.L. Coelho, R. Narayanan, I. Jones, A.J. Mikels-Vigdal, V. Smith, C. Hogaboam, Los Angeles, CA, p.A7251**907** **EMT and Matrisome Pathways Are Activated in Structurally Normal Regions in Explanted Lungs of Idiopathic Pulmonary Fibrosis Patients**/J.E. McDonough, F. Ahangari, T. Benos, Z. Bar-Joseph, M. Vukmirovic, G. Deluili, N. Tanabe, S. Verleden, J.D.H. Maya, X. Yan, L. De Sadelaar, B. Hu, N. Aurelien, G. Verleden, B. Vanaudenaerde, J.C. Hogg, W.A. Wuyts, N. Kaminski, Leuven, Belgium, p.A7252**908** **Matrix Metalloproteinase-7 Is a Potential Marker of Early Chronic Lung Allograft Dysfunction**/J. Jaffar, T. Phan, M. Stewart, B. Levvy, M. Paraskeva, G. Snell, G. Westall, Melbourne, Australia, p.A7253



- 909 Total Uncarboxylated Matrix Gla Protein Associates with Airflow Obstruction, Diffusion Limitation and Aortic Calcification in Chronic Obstructive Pulmonary Disease/** I. Piscaer, W. Janssens, N.E.A. Drummen, K. Vermeersch, J. Serre, C. Vermeer, R. Janssen, Nijmegen, Netherlands, p.A7254
- 910 Phosphorylation of Glia Maturation Factor- γ (GMF γ) at Tyrosine 104 by c-Abl Regulates the Spatial Distribution of Arp2/3 and N-WASP to Promote Airway Smooth Muscle Migration/B.D. Gerlach, O.J. Gannon, S. Jiang, R. Wang, D.D. Tang, Albany, NY, p.A7255**
- 911 Potential Role for an Imbalance Between Airway Smooth Muscle Laminin $\alpha 4$ and $\alpha 5$ Expression in Asthma/P. Prabhala, D. Wright, C. Bitter, P. Robbe, N.H.T. Ten Hacken, M. van den Berge, W. Timens, H. Meurs, B.G.J. Dekkers, Groningen, Netherlands, p.A7256**
- 912 Tracheal Replacement Tissue with In Vivo Regeneration in a Pig Model/E. Barrera Ramirez, R. Garrido Cardona, E. Rico Escobar, A. Martinez Martinez, L.F. Plenge Tellechea, A. Hernandez, E. Vanegas Venegas, R. Rincon, Ciudad Juarez, Mexico, p.A7257**
- 913 A Large Animal Model for Testing Potential Therapeutic Strategies Against Pulmonary Fibrosis/V.D.S. Nimanthi, E. Koumoundouros, A. Stent, C. Samuel, J.-P. Scheerlinck, R. Bijani, L. Organ, K. Snibson, Parkville, Australia, p.A7258**
- 914 Collagen Accumulation in the Rat Lung After Repetitive Instillations of Gastric Contents/G. Borzone, P. Ayala, T. San Martin, M. Meneses, R. Montalva, Santiago, Chile, p.A7259**
- 915 Comparison of Bleomycin Models of Pulmonary Fibrosis in Rats and Mice/D. Walter, D. Schaudien, K. Sewald, A. Braun, H.-G. Hoymann, Hannover, Germany, p.A7260**
- 916 PBI-4050 Reduces Expression of Fibrosis Biomarkers in the BioMAP SAEMyoF Primary Human Small Airway Epithelial Cells and Lung Myofibroblasts System/M. Leduc, B. Grouix, P. Laurin, L. Gagnon, Laval, Canada, p.A7261**
- 917 3-D Organoid Model of COPD Senescence/T.G. Guney, S. Mumby, K.F. Chung, M. Dowling, I. Adcock, London, United Kingdom, p.A7262**
- 918 Serological Biomarkers of Extracellular Matrix Remodeling Are Up-Regulated in a OVA-Induced, Exacerbated Experimental Asthma Model/S. Ronnow, J.M.B. Sand, L. Lunding, M. Wegmann, T. Bahmer, D.J. Leeming, M. Weckmann, Herlev, Denmark, p.A7263**
- 919 Three Different Types of Endothelial Cells Have Similar Potentials in a Scaffold-Free Trachea-Like Structure Made by Bio-3D-Printer/D. Taniguchi, K. Matsumoto, R. Machino, Y. Takeoka, A. Elgalad, K. Gunge, T. Tsuchiya, T. Miyazaki, R. Kamohara, G. Hatachi, N. Matsuo, N. Yamasaki, T. Nagayasu, Nagasaki, Japan, p.A7264**
- 920 Effects of Fiber Recruitment on the Mechanics and Stability of a Single Alveolus in 3D/S. Bou Jawde, D. Stamenovic, B. Suki, Boston, MA, p.A7265**
- 921 Anisotropy in Mechanical Property in the Human Lung Was Correlated with Collagen Fiber Orientation/K. Tomoda, S. Osaki, H. Kimura, Kashihara, Japan, p.A7266**

- 922 Role of Collagen Fibers in Modulating the Constriction of an Airway in Response to a Low Dose of Agonist/S.R. Polio, H. Parameswaran, K. Lutchen, Boston, MA, p.A7267**

RAPID: RAPID ABSTRACT POSTER DISCUSSION

D30 NEW INSIGHTS INTO OBSTRUCTIVE SLEEP APNEA PATHOGENESIS

9:15 a.m. - 11:15 a.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 151 B (Middle Building, Street Level)

Abstract Summaries 9:15-9:45

Poster Viewing/Discussion 9:45-11:15

Chairing: M.J. Morrell, PhD, London, United Kingdom
D.J. Eckert, PhD, Sydney, Australia
A.R. Schwartz, MD, Baltimore, MD

- 401 Classical Heritability of Upper Airway Anatomy in Twins/J. Mellia, B. Keenan, S.E. Leinwand, A. Wiemken, C. Hoge, R.J. Schwab, Philadelphia, PA, p.A7268**
- 402 Dynamic Upper Airway Characteristics During Awake Respiration in Obese Subjects with and Without Obstructive Sleep Apnea/Y. Feng, B. Keenan, S. Wang, S.E. Leinwand, A. Pack, R.J. Schwab, Guangzhou, China, p.A7269**
- 403 Upper Airway Dynamics During Awake and Asleep Tidal Breathing in OSA Subjects and Controls/C. Darquenne, B. Sibille, A.R. Elliott, R.J. Theilmann, E.T. Smales, P.N. DeYoung, A. Malhotra, La Jolla, CA, p.A7270**
- 404 Lateral Head Position Ameliorates Obstructive Sleep Apnea Independently from Trunk Position/H. Alshaer, K. Zhu, M. Patel, T.D. Bradley, Toronto, Canada, p.A7271**
- 405 Effect of Weight Gain on Tongue Fat in Both Obese and Lean Zucker Rats/C. Hoge, B. Keenan, S.E. Leinwand, J. Mellia, A. Wiemken, R.J. Schwab, Philadelphia, PA, p.A7272**
- 406 Increased CFD Pharyngeal Airway Flow Resistance in Adolescent Girls with Polycystic Ovarian Syndrome and Obstructive Sleep Apnea Syndrome/D.M. Wootton, H. Luo, A. Yazdani, S. Sin, J. McDonough, C.R. Isasi, M.E. Wagshul, R. Arens, New York, NY, p.A7273**
- 407 Chronic Rhinosinusitis Is an Independent Risk Factor for Obstructive Sleep Apnea in World Trade Center Responders/M.A. Weintraub, J. Sunderram, H. Kipen, R.J. Laumbach, I. Udasin, S.-E. Lu, J.L. Carson, O. Le-Hoang, A. Perez, S. Alimokhtari, K. Black, A. Twumasi, H. Sanders, N. Chitkara, D. Harrison, D.M. Rapoport, I. Ayappa, Piscataway, NJ, p.A7274**
- 408 Ventilatory Control Sensitivity in Patients with Obstructive Sleep Apnea Is Sleep State Dependent/S.A. Landry, C. Andara, S.A. Joosten, S.A. Sands, P.I. Terrill, D. Mann, G. Hamilton, B.A. Edwards, Melbourne, Australia, p.A7275**
- 409 Therapeutic CPAP Level Predicts Upper Airway Collapsibility in Patients with Obstructive Sleep Apnea/S.A. Landry, S.A. Joosten, D.J. Eckert, A. Jordan, S.A. Sands, D.P. White, A. Malhotra, G. Hamilton, B.A. Edwards, Melbourne, Australia, p.A7276**

- 410 Loop Gain Predicts the Response to Upper Airway Surgery in Patients with Obstructive Sleep Apnea/S.A. Joosten, P. Leong, S.A. Landry, S.A. Sands, P.I. Terrill, D. Mann, J. Rangaswamy, C. Andara, G. Burgess, D. Mansfield, G. Hamilton, B.A. Edwards, Melbourne, Australia, p.A7277**
- 411 Impaired Hypoxic Ventilatory Response in Chinese Han and Uyghur Patients with Obstructive Sleep Apnea-Hypopnea Syndromes/Z.M. He, Q.S. Lei, X.L. Jiang, Z. Ye, P.P. Wang, F. Hang, T. Penzel, Karamay, China, p.A7278**
- 412 Apolipoprotein A2 Confers Independent Risk for Obesity and Breathing Inconsistency in the B6 Mouse/K.P. Strohl, S. Azzam, Cleveland, OH, p.A7279**
- 413 Effects of Fluid-Shift-Caused Changes in Cross-Sectional Shapes of the Upper Airway on Airway Resistance in Obstructive Sleep Apnea Patients/Y. Huang, C. Wang, H. Lin, H. Zhang, H. Xu, G. Hu, Z. Li, J. Xian, Beijing, China, p.A7280**
- 414 Effects of Fluid Overload on the Genioglossus Activity in Urethane-Anesthetized Rat Model/P. Sabetian, A. Yadollahi, P. Yoo, Toronto, Canada, p.A7281**
- 415 Effects of Hypnotics on the Phenotypic Causes of Obstructive Sleep Apnea/J.C. Carberry, L.P. Fisher, R.R. Grunstein, S.C. Gandevia, D.K. McKenzie, J.E. Butler, D.J. Eckert, Randwick, Australia, p.A7282**
- 416 Effects of Tiagabine on Slow Wave Sleep and Arousal Threshold in Patients with Obstructive Sleep Apnea/L. Taranto Montemurro, S.A. Sands, B.A. Edwards, A. Azarbarzin, M. Marques, C. De Melo, D.J. Eckert, D.P. White, A. Wellman, Boston, MA, p.A7283**
- 417 Relationship Between Drug-Induced Sleep Endoscopy (DISE) and Awake Endoscopy Findings in Patients with Obstructive Sleep Apnea/T.D. Rachakonda, A.M. Willis, B. Williams, M.E. Error, K.M. Sundar, Salt Lake City, UT, p.A7284**
- 418 Comparison of Site and Configuration of Upper Airway Collapse Between Natural and Propofol-Induced Sleep Endoscopy - Preliminary Results/A.B. Ordonez, G. Grad, M. Cahali, L.U. Sennes, G. Lorenzi-Filho, P. Genta, Sao Paulo, Brazil, p.A7285**
- 419 Combining Computational Fluid Dynamics and 3D-Cine MRI to Determine the Relationship Between Upper Airway Motion and Breathing Effort in Pediatric Obstructive Sleep Apnea/A.J. Bates, A. Schuh, K. McConnell, B.M. Williams, J.M. Lanier, W. Loew, Z. Cleveland, S. Ishman, R. Fleck, J.C. Woods, C.L. Dumoulin, R. Amin, Cincinnati, OH, p.A7699**



CLINICAL

WORKSHOP

CME Credits Available: 1.5

WS7 MOLECULAR DIAGNOSTICS FOR ACUTE PNEUMONIA: PRACTICAL IMPACT AND FUTURE HORIZONS

R Registration Fee: \$75 (includes box lunch)
Attendance is limited. Pre-registration is required.

Assemblies on Microbiology, Tuberculosis and Pulmonary Infections; Clinical Problems; Critical Care

11:45 a.m. - 1:15 p.m.

MARRIOTT MARQUIS WASHINGTON

Archives (Level M4)

Target Audience

Pulmonologists, critical care physicians, hospitalists, microbiologists, infectious disease specialists, and infection control specialists seeking to update their knowledge of the latest molecular assays as well as emerging diagnostic technologies for the microbial etiology of acute pneumonia

Objectives

At the conclusion of this session, the participant will be able to:

- learn new findings about novel molecular diagnostic tests for acute pneumonia;
- diagnose patients with acute pneumonia;
- gain new strategies to manage the care of patients with CAP or VAP.

This session will provide attendees with a cutting edge review of novel diagnostic technologies that can be used to facilitate rapid and accurate identification and characterization of the etiology of acute pneumonia. Individual speakers will 1) describe the scientific basis of the latest molecular tests for rapid identification of viral and bacterial pathogens and review the use of automated functional approaches for rapid antimicrobial susceptibility testing; 2) provide a perspective from the clinical microbiology laboratory on the advantages and challenges of implementing and integrating these new and emerging methodologies into clinical practice; and 3) assess the clinical utility of the approved molecular techniques for rapid identification of viral and bacterial pathogens that cause community-acquired pneumonia.



- Chairing:** R. Nusrat, MD, Princeton, NJ
S.T. Qureshi, MD, Montreal, Canada
- 11:45 Molecular Testing for Acute Pneumonia Diagnosis**
M.H. Kollef, MD, St. Louis, MO
- 12:05 Emerging Diagnostic Technologies for Ventilator-Associated Pneumonia**
I.S. Douglas, MD, Denver, CO
- 12:25 Novel Pneumonia Diagnostics: View from the Clinical Microbiology Laboratory**
R. Patel, MD, Rochester, MN
- 12:45 Molecular Diagnosis of Community Acquired Pneumonia**
R.G. Wunderink, MD, Chicago, IL
- 1:05 Panel Discussion**

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

CAREER DEVELOPMENT FORUM

CME Credits Available: 1.5

WS8 PREPARING FOR ENTERING THE GRANT SHARK TANK: ATTAINING EARLY CAREER FUNDING

ⓘ This Forum is part of the ATS initiative to offer program specifically geared toward the professional development of trainees, fellows and students to aid in the pursuit of successful careers in pulmonary, critical care and sleep medicine.

Pre-registration is required. Attendance is limited. There is no additional fee.

Assembly on Respiratory Structure and Function

11:45 a.m. - 1:15 p.m. MARRIOTT MARQUIS WASHINGTON

Capitol/Congress (Level M4)

Target Audience

Graduate students, PhD, MD, post-doctoral/clinical fellows and faculty interested in gaining insight into early career funding mechanisms and learning tips for successful applications. This interactive session is designed to attract grant applicants to understand the funding process in U.S./international agencies or foundations to enhance success in attaining early career funding

Objectives

At the conclusion of this session, the participant will be able to:

- understand the advantages and challenge of seeking federal, industry, or foundation, funding;
- gain a greater understanding of the criteria used to identify innovative and outstanding grant applications;
- discover the most common pitfalls, which can lead to lack of success in obtaining grants.

Early career investigators are faced with a challenging research funding climate. In order to succeed in obtaining support, they must have a clear understanding of funding mechanisms available and how to navigate the application process in order to excel with innovative proposals. A NIH official, a representative from the American Association for the Advancement of Science, two highly experienced, internationally recognized senior scientists, and a recently awardee investigator will review and discuss available career development grant opportunities with particular focus on K-awards, private grant mechanisms and international funding options. This will be followed by Questions and

Answers. We will also provide an information booklet with a brief overview of international grant details, deadlines, and resources for locating funding.

Chairing: C.R. Kliment, MD, PhD, Baltimore, MD
K. Jetmalani, PhD, Sydney, Australia

- 11:45 NIH Awards**
W. Wang, PhD, Bethesda, MD
- 12:05 K Awards and Foundation Mechanisms**
L. Smith, MD, Chicago, IL
- 12:30 International Funding Mechanisms**
A.J. Halayko, PhD, Winnipeg, Canada
- 12:45 Navigating Early Career Funding**
J. Englert, MD, Columbus, OH
- 1:00 General Discussion**

CENTER FOR TOBACCO PRODUCTS (CTP), U.S. FOOD AND DRUG ADMINISTRATION

L21 TOWARDS A FDA COMPREHENSIVE NICOTINE REGULATORY POLICY: HOW DO ELECTRONIC NICOTINE DELIVERY SYSTEMS FIT?

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 204 A-C (South Building, Level 2)

Target Audience

Clinicians trying to advise patients about nicotine and electronic nicotine delivery systems; Anyone interested in nicotine policy

Objectives

At the conclusion of this session, the participant will be able to:

- understand FDA's Center for Tobacco Products strategic priorities and the need for a comprehensive FDA regulatory nicotine policy;
- evaluate whether electronic nicotine delivery systems have a role in FDA regulatory nicotine policy.

Tobacco harm reduction and the continuum of risk are concepts that have been the subject of ongoing discussion and debate within the tobacco research and public health community. Points of view vary regarding approaches to reduce tobacco-caused morbidity and mortality. One of the five strategic priorities of the Food and Drug Administration's Center for Tobacco Products is the need for a Comprehensive FDA Regulatory Nicotine Policy. This strategic priority aims to establish an integrated, FDA-wide policy on nicotine containing products that is public health based. This strategic priority has implications for tobacco, drug, and device regulatory policy. This session will provide an overview of tobacco harm reduction and the continuum of risk, a summary of nicotine science, and considerations regarding how electronic nicotine delivery systems (ENDS) fit into a comprehensive nicotine regulatory policy.

Chairing: P. Callahan-Lyon, MD, Silver Spring, MD

- 12:15 Setting the Stage**
M. Zeller, JD, Silver Spring, MD



- 12:35 Science of Nicotine**
C. Reissig, PhD, Silver Spring, MD
- 12:55 Electronic Nicotine Delivery Systems in Context**
P. Callahan-Lyon, MD, Silver Spring, MD

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

L22 NASA'S SATELLITES AND THEIR USE IN STUDYING HEALTH AND AIR QUALITY: HIGHLIGHT FROM THE NASA HEALTH AND AIR QUALITY APPLIED SCIENCES TEAM

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 102 A-B (South Building, Street Level)

Target Audience

Pulmonary health researchers and clinicians interested in needed environmental data on health and Air Quality, wildfires and overview of the NASA Health and Air Quality Applied Sciences Team (H-AQAST); those interested in understanding the geographic, environmental, and meteorological differences in pulmonary disease

Objectives

At the conclusion of this session, the participant will be able to:

- gain knowledge about ongoing NASA projects related to performance lung and cardiac disease;
- provide a synopsis of a project using observations of earth's environment and public health applications that are of interest to pulmonary clinicians and researchers;
- provide an overview of the NASA Health and Air Quality Program relating to public health applications that are of interest to pulmonary clinicians and researchers.

Speakers will highlight the newly formed NASA Health and Air Quality Team that is studying environmental health as well as air quality. These researchers will provide an overview of the Health and Air Quality Program and the types of projects that will benefit attendees. They will identify sources for information about the satellite data as well as possibly find new medical resources within the attendees of the American Thoracic Society International Conference.

Chairing: S.M. Estes, MS, Huntsville, AL

- 12:15 Overview of NASA's Public Health Program**
J.A. Haynes, MS, Washington, DC
- 12:30 The NASA Health and Air Quality Applied Sciences Team (H-AQAST)**
T. Holloway, PhD, Madison, WI
- 12:45 A Multi-Pollutant, Satellite-Based Health-Air Quality Index**
B. Duncan, PhD, Greenbelt, MD
- 1:00 Air Quality Forecasting and Reanalysis**
D. Tong, PhD, Fairfax, VA

NATIONAL CENTER FOR ENVIRONMENTAL HEALTH, CDC

L23 PROMOTING ACCESS TO GUIDELINES-BASED CARE FOR PEOPLE WITH ASTHMA

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 143 A-C (Middle Building, Street Level)

Target Audience

Physicians, nurses, respiratory therapists, asthma educators

Objectives

At the conclusion of this session, the participant will be able to:

- improve quality of asthma care provided to patients;
- recognize the role of non-governmental organizations in asthma control.

CDC's National Asthma Control Program has partnered with national non-governmental organizations (NGOs) to promote access to guidelines-based asthma care using health education and communication strategies that will result in measurable impacts. The NGOs will provide clear and consistent guidance on the delivery of asthma education for people with asthma, health professionals, and on the interactions between these two groups. As a result, audiences will have the knowledge and skills to demand appropriate care (people with asthma) or deliver it (health care providers), and schools and communities will have the capacity to promote policies, systems, and environments that support people with asthma.

Chairing: P.L. Garbe, DVM, MPH, Atlanta, GA

- 12:15 Reducing the Burden of Asthma in Adults**
B. Kaplan, MPH, Washington, DC
- 12:30 Building Blocks for Better Breathing: A Comprehensive Approach to Promote Quality Care for Asthma According to the NAEPP Guidelines**
T. Winders, MBA, Vienna, VA
- 12:45 Creating Asthma-Friendly Environments and Promoting Access to Guidelines-Based Care for Children with Asthma**
T. Bobbitt, MA, MS, Washington, DC
- 1:00 Developing and Disseminating an Educational Intervention for the Medically Underserved**
M. Bloomrosen, MBA, MBI, Landover, GA

PATIENT CENTERED OUTCOME RESEARCH INSTITUTE (PCORI)

L24 PATIENT-CENTERED OUTCOME RESEARCH INSTITUTE (PCORI): PCORNET AND EVIDENCE TO ACTION NETWORKS UPDATE

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 202 B (South Building, Level 2)

Target Audience

Clinicians (physicians, nurses, fellows, residents), researchers, administrators and policymakers: anyone involved in delivery of care and the science of patient-centered research



Objectives

At the conclusion of this session, the participant will be able to:

- understand funding comparative effectiveness research;
- learn from PCORI official what network activities are ongoing.

A PCORI official will introduce summaries of PCORI funded projects in pulmonary, critical care and sleep disorders. The PCORI officials will update the unique evidence to action network activities in asthma and transition of care, and also review activities and collaboration opportunities in PCORnet. At the panel discussion, PCORI officials and PCORI funded researchers will discuss question from audience related to PCORI activities. The purpose of the session will be to raise awareness of PCORI activities relevant to patient centered care for patients with pulmonary, critical care, and sleep disorders.

Chairing: K. Sumino, MD, MPH, St. Louis, MO

12:15 Patient-Centered Comparative Effectiveness Research to Reduce Asthma Disparities and Improve Adherence to Asthma Guidelines

A. Anise, MHS, Washington, DC

12:27 Accessing PCORnet's Data and Network Resources

R. Fleurence, PhD, Washington, DC

12:39 Transitional Care Evidence to Action Network: Approaches, Accomplishments, Opportunities in Transitional Care Research

C. Parry, PhD, MSW, Washington, DC

12:51 Wrap Up and Panel Discussion

K. Sumino, MD, MPH, St. Louis, MO

A. Anise, MHS, Washington, DC

R. Fleurence, PhD, Washington, DC

C. Parry, PhD, MSW, Washington, DC

C.E. Cox, MD, MPH, Durham, NC

S. Parthasarathy, MD, Tucson, AZ

NATIONAL HEART, LUNG, AND BLOOD INSTITUTE, DIVISION OF LUNG DISEASES, NIH

L25 THE PULMONARY TRIALS COOPERATIVE (PTC): PURPOSE, STRUCTURE AND CURRENT TRIALS

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 145 A-B (Middle Building, Street Level)

Target Audience

Multiple groups, patients, clinical researchers, pulmonologists, health care providers

Objectives

At the conclusion of this session, the participant will be able to:

- learning new findings and ideas about treatment of COPD and IPF;
- learning new strategies to conduct clinical trials.

The presenters will illustrate what is the NHLBI-funded Pulmonary Trials Cooperative (PTC). They will describe in detail its purpose, structure and functions. The four trials currently undergoing execution will be presented describing for each of the protocols and the background behind them.

Chairing: S. Wisniewski, PhD, Pittsburgh, PA
A. Punturieri, MD, PhD, Bethesda, MD

12:15 PTC: NEMO and PLGs

S. Wisniewski, PhD, Pittsburgh, PA

12:27 INSIGHT COPD

D.H. Au, MD, MS, Seattle, WA

12:39 LEEP

R.A. Wise, MD, Baltimore, MD

12:51 RETHINC

M.K. Han, MD, MS, Ann Arbor, MI

1:03 CleanUP IPF

F.J. Martinez, MD, New York, NY

NATIONAL HEART, LUNG, AND BLOOD INSTITUTE, DIVISION OF LUNG DISEASES, NIH

L26 NHLBI-FUNDED RESOURCES FOR IMPROVING LONG-TERM OUTCOMES CLINICAL RESEARCH FOR ACUTE RESPIRATORY FAILURE

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 147 A-B (Middle Building, Street Level)

Target Audience

Practicing critical care clinicians and clinical researchers; fellows, students, nurses, and other medical professionals and others interested in long-term outcomes and clinical research would also benefit from this session

Objectives

At the conclusion of this session, the participant will be able to:

- learn what instruments are recommended and the resources available for assessing acute respiratory failure survivors' long-term physical, cognitive, and mental health outcomes;
- understand methods and resources available for maximizing cohort retention;
- understand statistical methods and resources available to analyze longitudinal outcomes in the presence of high patient mortality.

This session will provide an overview of NHLBI-funded resources for improving long-term outcomes research in acute respiratory failure clinical studies. This session will cover research and resources in the following areas: 1) instruments for measuring acute respiratory failure survivors' long-term physical, cognitive, and mental health outcomes; 2) methods for maximizing retention of acute respiratory failure survivors in long-term research studies; and 3) statistical methods for analyzing long-term outcomes in the presence of high patient mortality.

Chairing: D. Needham, MD, Baltimore, MD

L. Reineck, MD, Bethesda, MD

12:15 Outcome Measures for Acute Respiratory Failure Survivors: An Overview

D. Needham, MD, Baltimore, MD

12:27 Understanding Important Outcomes to ICU Survivors Using Qualitative Methods

M.N. Eakin, PhD, Baltimore, MD



- 12:39 Reaching International Consensus on Long-Term Outcomes Measures for Acute Respiratory Failure**
A.E. Turnbull, DVM, MPH, PhD, Baltimore, MD
- 12:51 Understanding and Improving Cohort Retention in Long-Term Outcome Studies**
V. Dinglas, MPH, Baltimore, MD
- 1:03 Statistical Methods for Evaluating Patient Outcomes in the Presence of a Competing Risk of Mortality**
E. Colantuoni, PhD, Baltimore, MD

**NATIONAL HEART, LUNG, AND BLOOD INSTITUTE,
DIVISION OF LUNG DISEASES, NIH**

**L27 FEDERAL RESOURCES TO TRANSLATE
RESEARCH FROM LAB TO PATIENTS**

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 146 C (Middle Building, Street Level)

Target Audience

Academic and clinical researchers developing new biomedical technologies (therapeutics, diagnostics, medical devices, etc.), entrepreneurs

Objectives

At the conclusion of this session, the participant will be able to:

- understand the processes involved in product development;
- access resources that may be useful for scientists considering product development;
- appreciate how a scientific discovery is applicable to the care of patients.

The National Heart, Lung, and Blood Institute (NHLBI) has many resources available to help innovators translate scientific discoveries into products that improve human health. Many of the resources are managed through the Office of Translational Alliances and Coordination (OTAC). This presentation will provide an overview of NHLBI resources for product development as well as specific examples of how these resources may be leveraged to advance care for those with lung disease or sleep disorders.

Chairing: K. Marek, PhD, Bethesda, MD
P. Noel, PhD, Bethesda, MD

- 12:15 NHLBI Mechanisms to Accelerate Translational Science**
P. Noel, PhD, Bethesda, MD
- 12:25 SBIR and STTR Lung Research and Funding Opportunities**
J. Shieh, PhD, Bethesda, MD
- 12:35 NHLBI/OTAC Translational Science Resources**
M.J. MacMahon, PhD, Bethesda, MD
- 12:45 Novel Drug-Device Development for Neonatal Pulmonary Disease**
R. Segal, PhD, Warrington, PA
- 1:00 Developing a New Therapy for Asthma**
Speaker To Be Announced

**NATIONAL HEART, LUNG, AND BLOOD INSTITUTE, DIVISION OF
LUNG DISEASES, NIH**

**L28 BUILDING KNOWLEDGE WITH DESIGN FROM THE
ENVIRONMENTAL INFLUENCES ON CHILD HEALTH
OUTCOMES (ECHO)**

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 152 A-B (Middle Building, Street Level)

Target Audience

Health providers, trainees, established and early career investigators

Objectives

At the conclusion of this session, the participant will be able to:

- understand that respiratory outcomes can be impacted by exposures prenatal and early postnatal life;
- learn and understand how multi-level exposures can be measured from biological samples;
- understand measures of patient and parent reported respiratory outcomes as well as validated asthma outcomes.

The NIH-supported Environmental Influences on Child Health Outcomes (ECHO) program supports multiple, synergistic, longitudinal studies using existing cohort populations to investigate influences of environmental exposures (physical, chemical, biological, social, behavioral, natural and built environments) on child health and development, including respiratory outcomes. The multiple cohorts will share standardized core data elements from about 50,000 children. These core elements will include analyses through the Children's Health Exposure Analysis Resource (CHEAR), Patient/Person (parent and child) Reported Outcomes (PROs), and genetics. This session will focus on evidence of developmental origins of health and disease, the design of ECHO, and how researchers can leverage ECHO.

Chairing: C.J. Blaisdell, MD, Rockville, MD

- 12:15 Overview of ECHO**
M.W. Gillman, MD, Bethesda, MD
- 12:30 Children's Health Exposure Analysis Resource (CHEAR) for Data Science**
S. Teitelbaum, PhD, New York, NY
- 12:45 Patient Reported Outcomes Research Resource Center Core (ECHO PRO Core)**
R. Gershon, MD, Chicago, IL
- 1:00 Early Exposures and ECHO Asthma Outcomes**
J.E. Gern, MD, Madison, WI



**DEPARTMENT OF LABOR/HEALTH
RESOURCES SERVICES ADMINISTRATION**

**L29 THE LUNG HEALTH COST OF ENERGY: CARING
FOR COAL, URANIUM, AND NUCLEAR INDUSTRY
WORKERS**

12:15 p.m. - 1:15 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 202 A (South Building, Level 2)

Target Audience

Clinicians who treat, or are interested in treating, pulmonary disease in coal, uranium, and nuclear weapons workers. This may be of particular interest to clinicians working in areas with large numbers of active and retired coal miners or uranium and nuclear industry workers and areas affected by nuclear weapons testing

Objectives

At the conclusion of this session, the participant will be able to:

- describe the services and funding available through the Black Lung Clinics Program and the Radiation Exposure Screening and Education Program;
- learn about the unique challenges of caring for coal and uranium workers in a clinical setting;
- better treat and/or refer coal, uranium, and nuclear weapons worker patients suffering from occupational lung disease.

Attendees will learn about the Black Lung and Radiation Exposure Screening and Education Programs administered by the Health Resources and Services Administration (HRSA); the Department of Labor (DOL) and Department of Justice (DOJ) claims processes for coal and uranium and nuclear weapons workers; and the challenges and opportunities providers who treat these populations face.

Attendees will also be able to describe the mission of the Federal Black Lung program, the Energy Employees Occupational Illness Compensation Program Act and the Radiation Exposure Compensation Act; the statutory requirements for conducting a complete pulmonary evaluation to determine disability; and the need for additional diagnostic providers to conduct disability evaluations for the programs.

Chairing: A. Hutchings, MA, MPH, Rockville, MD
M. Chance, JD, Washington, DC

**12:15 Overview of HRSA's Black Lung and Radiation Exposure
Screening and Education Programs**

M. Lincoln, MSW, Rockville, MD
A. Hutchings, MA, MPH, Rockville, MD

**12:25 Overview of DOJ and DOL Claims Processes for Coal, Uranium
and Nuclear Industry Workers**

M. Chance, JD, Washington, DC
R. Leiton, MPA, Washington, DC
J. Bougere, JD, Washington, DC
L.L. Beg, JD, Washington, DC

12:40 A Physician Perspective on Caring for Coal Workers

R.A. Cohen, MD, Chicago, IL

**12:50 A Physician Perspective on Caring for Uranium and Nuclear
Industry Workers**

A. Sood, MD, MPH, Albuquerque, NM

1:00 Questions and Answers

A. Hutchings, MA, MPH, Rockville, MD
M. Chance, JD, Washington, DC




ATS 2017

Where today's science meets tomorrow's care™

International Conference

Washington, DC

Wednesday Afternoon, May 24

CLINICAL

ADULT CLINICAL CORE CURRICULUM

CME Credits Available: 2

MOC Points Available: 2

CC6 SLEEP MEDICINE CLINICAL CORE CURRICULUM II

Adult Core Curriculum Working Group

1:30 p.m. - 3:30 p.m.

MARRIOTT MARQUIS WASHINGTON

Independence Ballroom E-H (Level M4)

Target Audience

Practicing internists and subspecialists in Pulmonary, Critical Care, and Sleep medicine who work in a clinical setting and are currently engaged in maintenance of certification

Objectives

At the conclusion of this session, the participant will be able to:

- remain current with medical knowledge relevant to their practice in pulmonary, critical care, and sleep medicine;
- evaluate their understanding of key skills and content areas in pulmonary, critical care and sleep medicine, as well as receive feedback on their comprehension of a result of a pre-test/post-test comparison;
- support clinicians who are engaged in maintenance of certification activities by providing updates on subjects included in recertification requirements.

The ATS Clinical Core Curriculum Symposia focus on a 3-year content cycle of key medical content in the areas of Pulmonary, Critical Care, and Sleep Medicine. The topics are also aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to assist clinicians with staying current with the growth of information relevant to their medical practice, as well as provide an opportunity to evaluate individual knowledge and skills while earning MOC Medical Knowledge points.

Chairing: T.S. Wang, MD, Los Angeles, CA

1:30 OSA: Diagnosis

M. Kaminska, MD, Montreal, Canada

2:00 OSA: PAP Therapies

L. Wolfe, MD, Chicago, IL

2:30 OSA: Non-PAP Therapies

T.C. Hammond, MD, Los Angeles, CA

3:00 CSA Therapy

J.S. Balachandran, MD, Mequon, WI

BEHAVIORAL • CLINICAL • TRANSLATIONAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

MOC Points Available: 2

Nursing Contact Hours Available: 2.4

D82 PUTTING THE 2017 GOLD COPD RECOMMENDATIONS INTO CLINICAL PRACTICE

Assemblies on Clinical Problems; Behavioral Science and Health Services Research; Critical Care; Environmental, Occupational and Population Health; Microbiology, Tuberculosis and Pulmonary Infections; Nursing; Respiratory Cell and Molecular Biology; Respiratory Structure and Function; Sleep and Respiratory Neurobiology; Thoracic Oncology

1:30 p.m. - 3:30 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Ballroom A (South Building, Level 3)

Target Audience

Everyone who takes care of the COPD patient and does research and COPD, this includes physicians, trainees, researchers, registered nurses, advanced practice nurses, respiratory physical therapists and those involved in hospital administration

Objectives

At the conclusion of this session, the participant will be able to:

- define the term COPD;
- discuss the diagnosis and assessment of COPD severity in order to provide optimal care;
- describe new recommendations for therapy in patients with stable COPD as well as those in an exacerbated state.

COPD is a major contributor to morbidity and mortality in patients with lung disease throughout the world. The global initiative of obstructive lung disease (GOLD) has been a leader in developing recommendations based on published data to direct the definition assessment and overall treatment of patients with COPD. The overall objective of GOLD is to disseminate knowledge about state of the art COPD care to improve the overall care of patients with COPD. GOLD will soon publish a major revision of recommendations for COPD care, the first major revision in 5 years. This session will take those recommendations and present them in a meaningful way to make them applicable for clinical care. As a result, participants will be able to understand current recommendations for state of the art care of the COPD patient.

Chairing: G.J. Criner, MD, Philadelphia, PA

B.R. Celli, MD, Boston, MA

C. Vogelmeier, MD, Marburg, Germany

R. Rodriguez-Roisin, MD, PhD, Barcelona, Spain

A. Agusti, MD, Barcelona, Spain

1:30 What Is COPD?

R. Rodriguez-Roisin, MD, PhD, Barcelona, Spain



- 1:45 The Diagnosis and Assessment of COPD**
C. Vogelmeier, MD, Marburg, Germany
- 2:00 Overview of Therapeutic Options in COPD**
N. Roche, MD, Paris, France
- 2:15 Treatment of Stable COPD**
G.J. Criner, MD, Philadelphia, PA
- 2:30 Definition and Management of Acute Exacerbations**
J.A. Wedzicha, MD, PhD, London, United Kingdom
- 2:45 Comorbidities and COPD**
L.M. Fabbri, MD, Modena, Italy
- 3:00 Asthma-COPD Overlap**
B.R. Celli, MD, Boston, MA
- 3:15 Future Needs and Summary of New Recommendations**
A. Agusti, MD, Barcelona, Spain

BASIC • CLINICAL • TRANSLATIONAL

CLINICAL TOPICS IN PULMONARY MEDICINE

CME Credits Available: 2

D83 INNOVATIVE CLINICAL TRIALS IN PULMONARY FIBROSIS AND BEYOND

Assemblies on Clinical Problems; Allergy, Immunology and Inflammation; Respiratory Cell and Molecular Biology

1:30 p.m. - 3:30 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Ballroom C (South Building, Level 3)

Target Audience

Clinical researchers, clinicians, basic science researchers

Objectives

At the conclusion of this session, the participant will be able to:

- learn the rationale of different clinical trial designs in IPF;
- learn novel clinical trial designs employed in cancer;
- leverage genomic data in IPF as markers of clinical responsiveness in clinical trials.

FDA-approved therapies are now available for the treatment of Idiopathic Pulmonary Fibrosis (IPF) and are currently being studied in other fibrotic diseases. We are now seeing several clinical trials in fibrosis based on novel rationales or employ innovative outcome measures. This session is designed to introduce some of these novel studies and to introduce the audience to adaptive clinical trial design, which is currently being studied in breast cancer. This design may help leverage the enormous amount of genomic data in pulmonary fibrosis to personalize therapy for patients.

Chairing: D. Kass, MD, Pittsburgh, PA
S.K. Danoff, MD, PhD, Baltimore, MD

- 1:30 Autoantibody Reduction Therapy in IPF**
S. Duncan, MD, Birmingham, AL
- 1:55 Novel Endpoints in Fibrosis: Gene Expression Analysis of Skin Before and After Treatment with Fresolimumab**
R. Lafyatis, MD, Pittsburgh, PA

- 2:20 Using Data from the Large IPF Trials to Test Novel Hypotheses**
M. Kreuter, MD, Heidelberg, Germany
- 2:45 When a Genomics Expert Tries to Develop a Drug: Lessons from the NHLBI CADET Program**
N. Kaminski, MD, New Haven, CT
- 3:05 Is Adaptive Clinical Trial Design Possible in IPF?**
C. Mehta, PhD, Cambridge, MA

CLINICAL • TRANSLATIONAL

CRITICAL CARE TRACK

CME Credits Available: 2

D84 50 YEARS OF ARDS: LOOKING BACK, AND AHEAD

Assemblies on Critical Care; Clinical Problems; Nursing; Pediatrics; Respiratory Structure and Function

1:30 p.m. - 3:30 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 146 A-B (Middle Building, Street Level)

Target Audience

People providing care to critically ill patients at risk for, and with, ARDS, including clinicians, researchers, and administrators.

Objectives

At the conclusion of this session, the participant will be able to:

- apply evidence-based management to patients with ARDS.
- Learn new findings about the definition, epidemiology, and management of ARDS.

This session will review ARDS epidemiology and management from its original description in 1967 to present, as well as discuss current and future interventions that may improve patient-important outcomes in this devastating syndrome.

Chairing: E. Fan, MD, PhD, Toronto, Canada
D. Brodie, MD, New York, NY

- 1:30 A Patient's Perspective**
S. Collins, Kirkwood, MO
- 1:35 A Half Century of ARDS: Progress and Setbacks**
A. Slutsky, MD, Toronto, Canada
- 1:45 Changing Definitions: Progress?**
G.D. Rubinfeld, MD, MSc, Toronto, Canada
- 2:05 Mechanical Ventilation in ARDS: Has Anything Changed in 50 Years?**
E. Fan, MD, PhD, Toronto, Canada
- 2:25 A Ventilator-Free Future? Extracorporeal Support for ARDS**
D. Brodie, MD, New York, NY
- 2:45 Shifting to Prevention: PETAL**
R.G. Brower, MD, Baltimore, MD
- 3:05 Predictions for ARDS 2067: What Will the Future Bring?**
C.S. Calfee, MD, San Francisco, CA
- 3:25 Panel Discussion**



CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

D85 RECOGNITION, DIAGNOSIS AND MANAGEMENT OF INDOLENT LUNG CANCER

Assemblies on Thoracic Oncology; Clinical Problems

1:30 p.m. - 3:30 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Room 202 A (South Building, Level 2)

Target Audience

Academic and private practice pulmonary specialists and thoracic surgeons evaluating and treating patients with indeterminate persistent sub-solid opacities or pulmonary nodules of the lung adenocarcinoma spectrum. Pulmonary Fellows, medical residents and medical students. PA, NP and nursing providers caring for patients with these lesions

Objectives

At the conclusion of this session, the participant will be able to:

- recognize "indolent" lung cancers;
- develop an approach to the diagnosis, risk stratification and management of indolent lung cancers;
- understand the potential impact of overtreatment of indolent lung cancers and improve patient communication.

Increasing use of screening and clinical chest CT scans results in increased detection of persistent sub-solid opacities most commonly representing lung adenocarcinomas (AC). Consequently, the number of surgically resected lung adenocarcinomas increased significantly. A subgroup, AIS/MIA, has almost complete (100%) post-surgical disease-free survival. In the NLST cohort 18% of the detected cancers, almost exclusively AC, were "overdiagnosed" and overtreated. Similarly to prostate and breast cancer there is a potentially large subset of "indolent" lung cancers. This concept is not well known. The prospective identification, risk stratification and individualized management of these lesions may significantly decrease treatment-related morbidity, mortality and health care costs. This session will comprehensively address these issues.

Chairing: G.A. Silvestri, MD, MS, Charleston, SC
F. Maldonado, MD, Nashville, TN

- 1:30 Population-Based Screening for Cancer: Hope and Hype**
L. Esserman, MD, MBA, San Francisco, CA
- 1:50 Epidemiology of "Indolent" Lung Cancers**
P.P. Massion, MD, Nashville, TN
- 2:10 Risk Stratification of Lung Lesions Prior to Therapy: Where Do We Stand?**
T. Peikert, MD, Rochester, MN
- 2:30 To Treat or Not To Treat "Indolent" Lung Cancers?**
F.C. Detterbeck, MD, New Haven, CT
- 2:50 What's the Cost of Overtreatment? and How Do I Tell My Patient About Their "Overdiagnosed" Lung Cancer?**
G.A. Silvestri, MD, MS, Charleston, SC
- 3:10 Interactive Case Presentation**
F. Maldonado, MD, Nashville, TN

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

D86 INTERACTIONS BETWEEN FAT AND FLOW

Assemblies on Respiratory Structure and Function; Clinical Problems; Environmental, Occupational and Population Health; Sleep and Respiratory Neurobiology

1:30 p.m. - 3:30 p.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 5 (Level M2)

Target Audience

Translational Investigators, clinicians taking care of obese patients

Objectives

At the conclusion of this session, the participant will be able to:

- understand the effect of obesity on pulmonary physiology and pathophysiology;
- have new strategies for the management of mechanical ventilation in critically ill patients;
- understand the interactions between obesity and air pollutants such as ozone.

Epidemiological data suggest there has been a major shift in the presentation and underlying pathogenesis of many pulmonary diseases in patients with obesity. This session will discuss the pathophysiology of airway disease in obesity, and the implications this has for treatment of obese patients.

Chairing: A.E. Dixon, MD, Burlington, VT
J.H.T. Bates, DSc, PhD, Burlington, VT

- 1:30 Fat and Flow: The Effects of the Obesity Epidemic on Lung Disease**
A.E. Dixon, MD, Burlington, VT
- 1:40 Ozone and Obesity**
S. Shore, PhD, Boston, MA
- 2:05 Pathogenesis of Obstructive Sleep Apnea in Obesity**
S. Patil, MD, Baltimore, MD
- 2:25 Effects of Obesity on Airway Function and Ventilation**
G. King, MBChB, PhD, St. Leonards, Australia
- 2:50 Mechanical Ventilation of Obese Patients**
L. Berra, MD, Boston, MA
- 3:10 The Mechanical Consequences of Obesity on Airways Responsiveness**
J.H.T. Bates, DSc, PhD, Burlington, VT

There will be a 5-minute discussion after each talk.



BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

D87 OBESITY AND CHRONIC RESPIRATORY DISEASES IN CHILDREN: RECENT ADVANCES AND CLINICAL IMPLICATIONS

Assemblies on Pediatrics; Allergy, Immunology and Inflammation; Behavioral Science and Health Services Research; Environmental, Occupational and Population Health; Respiratory Cell and Molecular Biology; Sleep and Respiratory Neurobiology

1:30 p.m. - 3:30 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Ballroom B (South Building, Level 3)

Target Audience

Pediatricians, primary care providers, and pulmonary/sleep specialists taking care of children with chronic respiratory and sleep disorders, as well as providers taking care of these patients as they transition to young adults. Whose main research focus is on the mechanisms and pathophysiology of chronic pediatric respiratory disorders

Objectives

At the conclusion of this session, the participant will be able to:

- understand how obesity affects the risk and severity of chronic respiratory diseases in children;
- understand new findings on the mechanisms that lead from obesity to childhood asthma, sleep disorders, and others diseases of the lung;
- identify these patients and treat them in a personalized manner to improve their quality of life.

Mounting evidence over the past 10-15 years has demonstrated an association between obesity and chronic respiratory conditions in children, including asthma and sleep disorders. In this session, we will review current epidemiological and experimental evidence for these associations. We will then discuss proposed mechanisms including epigenetic regulation, the role of obesity-related metabolic changes, and alterations in the microbiome that may underlie both obesity and childhood respiratory diseases. Next, we will focus on important management considerations for these patients, as well as on the transition to adolescence and adulthood. Finally, we will discuss unanswered questions and propose directions for future research in the field.

Chairing: E. Forno, MD, MPH, Pittsburgh, PA
I. Narang, MD, Toronto, Canada
S. Saglani, MD, MBChB, London, United Kingdom

1:30 Lung Function in Obese Youth with and Without Asthma
E. Forno, MD, MPH, Pittsburgh, PA

1:50 Obesity-Related Epigenetic Reprogramming of Airway Cells and Remodeling in Lower Airway Disease
R.J. Freishtat, MD, MPH, Washington, DC

2:10 Obesity and Sleep Disorders
H. Jalou, MD, Indianapolis, IN

2:30 Sleep Disorders: Therapeutic Management and Transition to Adulthood
I. Narang, MD, Toronto, Canada

2:50 The Microbiome: A Link Between Obesity and Lung Disease?
N. Ubags, PhD, Epalinges, Switzerland

3:10 Session Summary, Unanswered Questions, and Future Directions
S. Saglani, MD, MBChB, London, United Kingdom

There will be a 5-minute discussion after each talk.

BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

D88 LIFE IN THE FAST LANE: USE OF PLURIPOTENT STEM CELLS IN PULMONARY DISEASE

Assemblies on Pulmonary Circulation; Critical Care; Respiratory Cell and Molecular Biology; Respiratory Structure and Function

1:30 p.m. - 3:30 p.m. MARRIOTT MARQUIS WASHINGTON
Liberty Ballroom I-L (Level M4)

Target Audience

Clinicians (especially internists, pulmonologists/intensivists, and cardiologists) interested in personalized medicine and scientists interested in lung and heart development

Objectives

At the conclusion of this session, the participant will be able to:

- improve their knowledge on embryologic development of heart and lung;
- learn new techniques to study lung disease in a dish;
- know the advantages and disadvantages of the use of induced pluripotent stem cells.

This session will focus on the applicability of cell culture model systems to study pathophysiological alterations in pulmonary disease and right heart failure. Because animal models do not fully replicate the clinical phenotypes of pulmonary diseases (e.g. pulmonary hypertension, pulmonary edema, cystic fibrosis), alternative methods have been suggested to use. The most promising new tool is induced pluripotent stem cells. During the session, we will discuss the molecular determinants of heart and lung development, knowledge that is essential for the development of clinical relevant disease models. Subsequently, we will discuss the most practical and efficient substrate for the generation of induced pluripotent stem cells. Finally, the applicability of pluripotent cell technique in modeling pulmonary hypertension, pulmonary edema, cystic fibrosis and right heart failure will be addressed.

Chairing: E.F. Spiekeroetter, MD, Palo Alto, CA
F. De Man, PhD, Amsterdam, Netherlands
J.D. West, PhD, Nashville, TN

1:30 Molecular Determinants of Heart and Lung Development
E. Morrissey, PhD, Philadelphia, PA

1:50 Modeling of Cystic Fibrosis by Lung Organoids
J. Spence, PhD, Ann Arbor, MI

2:10 Pulmonary Hypertension Research in the Era of Pluripotency
M. Rabinovitch, MD, Stanford, CA

**2:30 New Insights into BMPR2 Mutations in PAH From****Patient-Derived Induced Pluripotent Stem Cells**

A.A. Rana, PhD, Cambridge, United Kingdom

2:50 To the Heart of the Matter: Could Pluripotent Stem Cells be Used to Model Right Heart Failure?

F. De Man, PhD, Amsterdam, Netherlands

This session and the International Conference are supported by an educational grant from Actelion Pharmaceuticals US, Inc.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

BASIC • TRANSLATIONAL**SCIENTIFIC SYMPOSIUM**

CME Credits Available: 2

D89 OF MICE AND MEN: MECHANISMS OF GRANULOMATOUS INFLAMMATION

Assemblies on Allergy, Immunology and Inflammation; Microbiology, Tuberculosis and Pulmonary Infections

1:30 p.m. - 3:30 p.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 6 (Level M2)

Target Audience

Physicians and scientists interested in granulomatous lung diseases as well as lung immunology; clinicians who care for patients with infectious and noninfectious granulomatous lung diseases

Objectives

At the conclusion of this session, the participant will be able to:

- understand the generation of the granuloma;
- understand the generation of an adaptive immune response and the consequences of failure to eradicate the stimulating antigen;
- understanding the mechanisms that result in eventual fibrosis development.

Recently, significant advances in our understanding of the formation of granulomas in both infectious and noninfectious granulomatous lung disease have occurred. This symposium brings together world-class immunologists (including those from the NIH) to discuss these advances. The symposium will bring together scientist investigating both infectious and noninfectious granulomatous lung diseases to delineate common themes. In addition, it addresses gene-environment interactions, which is the science core for this ATS meeting.

Chairing: A.I. Sperling, PhD, Chicago, IL
L. Koth, MD, San Francisco, CA

1:30 Macrophage Epithelial Reprogramming in Mycobacterial Granulomas

D.M. Tobin, MD, Durham, NC

1:50 Dynamics of Granuloma Formation in Tuberculosis

J. Flynn, PhD, Pittsburgh, PA

2:10 Gene-Environment Interactions in Chronic Beryllium Disease

A.P. Fontenot, MD, Aurora, CO

2:30 Mechanisms of Granuloma-Induced Fibrosis

T. Wynn, PhD, Bethesda, MD

2:50 Immune Dysfunction in Sarcoidosis

W. Drake, MD, Nashville, TN

3:10 Lessons Learned from Lofgren's Syndrome

J. Grunewald, MD, PhD, Stockholm, Sweden

This session and the International Conference are supported by an educational grant from Mallinckrodt Pharmaceuticals.

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BEHAVIORAL • CLINICAL**SCIENTIFIC SYMPOSIUM**

CME Credits Available: 2

Nursing Contact Hours Available: 2.4

D90 NUDGES IN THE ICU: WHEN AND HOW SHOULD INTENSIVISTS GUIDE SURROGATES' DECISIONS?

Assemblies on Behavioral Science and Health Services Research; Critical Care; Nursing; Pediatrics

1:30 p.m. - 3:30 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 152 A-B (Middle Building, Street Level)

Target Audience

Adult and pediatric critical care clinicians; behavioral science researchers; registered nurses; advanced practice nurses

Objectives

At the conclusion of this session, the participant will be able to:

- discuss principles of behavioral economics (a.k.a. decision psychology) that physicians might employ to ethically and effectively guide end-of-life decision making in the ICU;
- clarify misconceptions about the meaning and importance of patient autonomy and informed assent among ICU patients lacking decisional capacity;
- discuss special considerations when deploying behavioral economics with pediatric patients and their parent surrogates.

This session will address the use of behavioral economics and "nudges" in the ICU to guide surrogate decision-making. In particular, it will explore methods for effectively deploying nudges—tools for clinicians to use in the ICU—and an ethical framework within which to do so that adequately balances autonomy and paternal beneficence.

Chairing: G.L. Anesi, MD, MBE, Philadelphia, PA
J.N. Mansoori, MD, Aurora, CO
S.D. Halpern, MD, PhD, Philadelphia, PA

1:30 Behavioral Economics, Choice Architecture, and Nudges in the ICU

G.L. Anesi, MD, MBE, Philadelphia, PA

1:50 Intensivists' Use of Informed Assent When Patients Lack Capacity

J.R. Curtis, MD, MPH, Seattle, WA

2:10 Default to DNR?

R.D. Stapleton, MD, PhD, Burlington, VT



- 2:30 Integrated ICU Team Communications and the Nursing Perspective**
D.K. Costa, PhD, RN, Ann Arbor, MI
- 2:50 The (Ambiguous) Role of Autonomy in Surrogate Decision-Making**
D.B. White, MD, Pittsburgh, PA
- 3:10 Helping Parents with Decisions About Periviable Infants**
M.F. Haward, MD, Bronx, NY

BEHAVIORAL • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

CME Credits Available: 2

D91 ATS CLINICAL PRACTICE GUIDELINES: CLINICAL PRACTICE ON THE CUTTING EDGE

Documents Development and Implementation Committee; Assemblies on Behavioral Science and Health Services Research; Clinical Problems; Critical Care; Nursing; Pulmonary Rehabilitation; Quality Improvement and Implementation Committee

1:30 p.m. - 3:30 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 204 A-C (South Building, Level 2)

Target Audience

Physicians, nurses, respiratory therapists, and others who care for adults who are mechanically ventilated, have acute respiratory distress syndrome (ARDS), or have an exacerbation of COPD

Objectives

At the conclusion of this session, the participant will be able to:

- understand how evidence is used to inform diagnostic and treatment recommendations;
- apply clinical recommendations from recently published guidelines in clinical practice, improving patient outcomes;
- obtain new strategies to manage and prevent COPD exacerbations, to mechanically ventilate patients with ARDS, and to liberate patients from mechanical ventilation.

This session is as the third annual scientific symposium highlighting ATS clinical practice guidelines, as originally requested by the ATS Executive Committee several years ago to highlight recently approved or published ATS evidence-based clinical practice guidelines. This year's symposium will highlight guidelines on mechanical ventilation in acute respiratory distress syndrome, liberation from mechanical ventilation, and treatment of chronic obstructive pulmonary disease (COPD) exacerbation. Speakers will describe the clinical recommendations formulated by the guideline panels, discuss the rationale for each, and critically review the evidence supporting each recommendation. Speakers will also describe how the guidelines provide the foundation for improving care. Speakers include the chairs of the panels that developed the guidelines.

Chairing: R. Dweik, MD, Cleveland, OH
R.C. Hyzy, MD, Ann Arbor, MI
C.C. Thomson, MD, MPH, Cambridge, MA

1:30 Welcome
R. Dweik, MD, Cleveland, OH

- 1:35 Grading Strength of Recommendations and Quality of Evidence**
K.C. Wilson, MD, Boston, MA
- 1:45 ATS/SCCM/ESICM Guidelines on Mechanical Ventilation in ARDS**
E. Fan, MD, PhD, Toronto, Canada
- 2:05 ATS/CHEST Guidelines on Liberation from Mechanical Ventilation**
J. Truitt, MD, Milwaukee, WI
- 2:25 ATS/ERS Guidelines on the Treatment of COPD Exacerbations**
M. Miravittles, MD, PhD, Barcelona, Spain
- 2:45 Late Breaking Guidelines**
R. Dweik, MD, Cleveland, OH
- 3:05 Guidelines to Performance Measures**
C.H. Weiss, MD, Chicago, IL
- 3:25 Closing**
C.C. Thomson, MD, MPH, Cambridge, MA

There will be a 5-minute discussion after each talk.

This session and the International Conference are supported by an educational grant from AstraZeneca LP.

All CME sessions have been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) and are free of the control of commercial interests.

MINI SYMPOSIUM

D92 BASIC MECHANISMS OF LUNG ALLOGRAFT REJECTION

1:30 p.m. - 3:30 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 202 B (South Building, Level 2)

Chairing: J.A. Belperio, MD, Los Angeles, CA
M. Konigshoff, MD, PhD, Aurora, CO

Oral Presentations

- 1:30 Donor-Derived Pulmonary Intravascular Non-Classical Monocytes Retained in Donor Lungs Recruit Recipient Neutrophils and Mediate Primary Lung Allograft Dysfunction/S.F. Chiu, Z. Zheng, M. Akbarpour, R. Fernandez, A. McQuattie-Pimentel, P.A. Reyfman, K. Anekalla, D. Kreisel, H. Perlman, G.S. Budinger, A.V. Misharin, A. Bharat, Chicago, IL, p.A7286**
- 1:45 Proteomics of Bronchoalveolar Lavage (BAL) Fluid in Bronchiolitis Obliterans Syndrome (BOS)/J.L. Todd, M.W. Foster, A. Valente, C. Brinkley, H.A. Ali, J.M. Reynolds, F.L. Kelly, S.M. Palmer, Durham, NC, p.A7287**
- 2:00 Orthotopic Lung Transplantation in a Single-Mismatch-Based Mouse Model Shows Signs of Chronic Lung Allograft Dysfunction (CLAD) Associated to Inducible Bronchus-Associated Lymphoid Tissue (iBALT) Formation/N.F. Smirnova, T.M. Conlon, A.O. Yildirim, O. Eickelberg, Munich, Germany, p.A7288**



- 2:15 LOXL-2 Contributes to the Development of Obliterative Bronchiolitis (OB) in Humans/J.L. Todd, A.J. Mikels-Vigdal, F.L. Kelly, E.N. Pavlisko, I. Mikaelian, T.G. O'Riordan, V.C. Smith, S.M. Palmer, Durham, NC, p.A7289**
- 2:30 Airway Gene Expression Changes in Lung Transplant Recipients with Lymphocytic Bronchitis/J.J. Brotman, R. Ahuja, J.H. Sin, M.E. Kleinhenz, L. Leard, J.A. Golden, J.P. Singer, S.R. Hays, J. Kukreja, G.H. Caughey, N.N. Trivedi, J.R. Greenland, San Francisco, CA, p.A7290**
- 2:45 Towards Human Lung Regeneration in End-Stage Respiratory Failure: Genetically-Modifiable 3D Organoid Culture of Human Embryonic Lung Stem Cells Enables for the First Time the Study of Human Lung Development In Vitro/M.Z. Nikolic, J.-A. Johnson, D. Sun, O. Caritg, U. Laresgoiti, J. Brady, G. Allen, A. Giangreco, E.L. Rawlins, Cambridge, United Kingdom, p.A7291**
- 3:00 Airway Microbiota Signals Anabolic and Catabolic Remodeling in the Transplanted Lung/S. Mouraux, E. Bernasconi, C. Pattaroni, A. Koutsokera, C. Pison, R. Kessler, C. Benden, P. Gasche-Soccal, A. Magnan, J.-D. Aubert, B.J. Marsland, L.P. Nicod, Lausanne, Switzerland, p.A7292**
- 3:15 Lung Microbiome Disruption in a Murine Model of Post-Bone Marrow Transplant Pulmonary Fibrosis/D.N. O'Dwyer, C.A. Wilke, X. Zhou, N.R. Falkowski, G.A. Yanick, B.B. Moore, R.P. Dickson, Ann Arbor, MI, p.A7293**

MINI SYMPOSIUM

D93 NOVEL APPROACHES TO TRAINING THE NEXT GENERATION OF PCCM CLINICIANS

1:30 p.m. - 3:30 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 146 C (Middle Building, Street Level)

Chairing: J.B. Richards, MD, Charleston, SC
R. Adamson, MBBS, Seattle, WA
J.I. McSparron, MD, Boston, MA

Oral Presentations

- 1:30 Accreditation Council for Graduate Medical Education Reporting Milestones Within Subspecialty Fellowship Programs: A Cross-Sectional Description of One Institution's Experience/J.K. Heath, C.J. Dine, Philadelphia, PA, p.A7294**
- 1:45 Does Tele-Education Work in Point-of-Care Ultrasound Training? A 3-Arm Randomized Trial Comparing Tele-Education, Conventional Education, and Self-Learning Methods/R. Suzuki, J. Hui, T.O. Loftsgard, W.J. Riley, M.S. Bushman, Y. Dong, O. Gajic, H. Sekiguchi, Rochester, MN, p.A7295**
- 2:00 A Longitudinal Curriculum in Critical Care Ultrasonography Training for Pulmonary and Critical Care Medicine Fellowships/B. Luna, J.T. Huggins, N.J. Pastis, Charleston, SC, p.A7296**
- 2:15 Teaching Intensive Care Medicine from the Learners' Perspective: A Multicenter Evaluation/L. Santhosh, A.K. Brady, M. Sharp, W.G. Carlos, San Francisco, CA, p.A7297**

- 2:30 Behaviors of Skilled Bronchoscopy Teachers/A.K. Brady, J.A. Town, Seattle, WA, p.A7298**
- 2:45 Leadership Education for Critical Care Fellows Using Simulation/T.C. Steinbach, R. Adamson, D. Carlborn, N.J. Johnson, P.A. Kritek, B. Coruh, Seattle, WA, p.A7299**
- 3:00 A Randomized Trial of a Simulated Versus Didactic Educational Intervention to Teach End-of-Life Communication to Internal Medicine Residents in the Intensive Care Unit/D. Miller, A.M. Sullivan, J. McSparron, A. Anandaiah, B. Armstrong, L. Rock, M.M. Hayes, Boston, MA, p.A7300**
- 3:15 Man Versus Machine: Rapid Response Team Education Via Different Modalities/A. Vergis, M. Weiss, J. Meyer, S. Wessel, S. Borgetti, S. Mbachu, S. Iusim, C.M. Kapp, M.J. Joo, Chicago, IL, p.A7301**

MINI SYMPOSIUM

D94 ADVANCES IN CYSTIC FIBROSIS AND NON-CYSTIC FIBROSIS BRONCHIECTASIS

1:30 p.m. - 3:30 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 207 A-B (South Building, Level 2)

Chairing: J.L. Taylor-Cousar, MD, Denver, CO
J.D. Chalmers, MD, PhD, Dundee, United Kingdom
M. Jennings, MD, MHS, Baltimore, MD

Oral Presentations

- 1:30 Neutrophil Extracellular Traps Are Associated with Disease Severity in Bronchiectasis/E. Pumphrey, H. Keir, C. Fong, S. Finch, T.C. Fardon, A.J. Dicker, J.D. Chalmers, Dundee, United Kingdom, p.A7302**
- 1:45 Effects of Ciprofloxacin Dry Powder for Inhalation (Ciprofloxacin DPI) on Health-Related Quality of Life in Patients with Non-Cystic Fibrosis Bronchiectasis (NCFB): Results from the Phase III RESPIRE 1 Study/A. Quittner, A. De Soyza, T.R. Aksamit, T.-J. Bandel, M. Criollo, J.S. Elborn, A. Filonenko, U. Krahn, M. Lau, E. Operschall, E. Polverino, K. Roth, K.L. Winthrop, R. Wilson, Miami, FL, p.A7303**
- 2:00 United States Bronchiectasis Registry Longitudinal Follow Up at Two Years/T.R. Aksamit, R. Choate, A.E. O'Donnell, A.F. Barker, C.L. Daley, L.A. Daniels, E. DiMango, E. Eden, K.P. Fennelly, D.E. Griffith, M. Johnson, M. Knowles, P. Noone, K.N. Olivier, M.L. Metersky, M. Salathe, B. Thomashow, G. Tino, G. Turino, K.L. Winthrop, D.M. Mannino, Rochester, MN, p.A7304**
- 2:15 Characterisation of the Frequent Exacerbator Phenotype in Bronchiectasis: Data from the FRIENDS Cohort/J.D. Chalmers, A. Filonenko, M. Shteinberg, P.C. Goeminne, M. McDonnell, S. Aliberti, T.C. Fardon, D. Obradovic, E. Operschall, C. Gerlinger, G. Sotgiu, K. Dimakou, E. Polverino, A. De Soyza, A.T. Hill, Dundee, United Kingdom, p.A7305**
- 2:30 ENaC Inhibitor AZD5634 First in Human Trial Reveals Promising Clinical Profile for the Treatment of Cystic Fibrosis/P. Gardiner, A. Malmgren, E. Ersdal, R. Goldwater, N. Patel, Molndal, Sweden, p.A7306**



- 2:45** **Airway Microbiota Shifts During Stable Cystic Fibrosis Treated with Inhaled Antibiotics Are Associated with Exacerbations and Disease Progression/I.** Sulaiman, J. Beatty, B. Scaglione, B.G. Wu, J. Wang, A.S. Scott, R. Giusti, N. Amoroso, E. DiMango, S.B. Fiel, M. Berdella, P. Walker, R. Condos, L.N. Segal, New York, NY, p.A7307
- 3:00** **Comparison of Nebulized Levofloxacin Inhaled Solution (LIS) and Tobramycin Inhaled Solution (TIS) on Time to Cystic Fibrosis (CF) Exacerbation in Patients Chronically Infected with Pseudomonas Aeruginosa/J.** Szwarcberg, P. Flume, J.S. Elborn, M. Pecoraro, N. Bhatt, K. Polu, Novato, CA, p.A7308
- 3:15** **The Effect of Perinatal Stem Cells as a Novel Anti-Inflammatory Therapy in Cystic Fibrosis/C.R.** Barrios, O. Khoury, S. Murphy, A. Atala, V.E. Ortega, Winston-Salem, NC, p.A7309

MINI SYMPOSIUM

D95 CHRONIC RESPIRATORY DISEASE IN THE MINING INDUSTRY

1:30 p.m. - 3:30 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 147 A-B (Middle Building, Street Level)

Chairing: C. Rose, MD, MPH, Denver, CO
V.H. Arrandale, PhD, Toronto, Canada
L.M. Paulin, MD, MHS, Baltimore, MD

Oral Presentations

- 1:30** **Coal Workers' Pneumoconiosis Resurfaces in Queensland Australia: A Report of Chest Imaging from the Coal Mine Workers' Health Scheme for the Queensland Department of Natural Resources and Mines/R.A.** Cohen, L.H. Go, K. Almberg, K. DePonte, D.C. Glass, M.H. Roberts, M.H. Sim, Chicago, IL, p.A7310
- 1:45** **Linking Compensation and Health Surveillance Datasets to Improve Knowledge of U.S. Coal Miners' Health/K.S.** Almberg, R.A. Cohen, D.J. Blackley, A.S. Laney, C.N. Halldin, Chicago, IL, p.A7311
- 2:00** **Lung Cancer and Mesothelioma Among Canadian Mining, Smelting and Oil and Gas Workers: A Population Based Study/V.H.** Arrandale, J. MacLeod, M. Tjepkema, P. Peters, P.A. Demers, Toronto, Canada, p.A7312
- 2:15** **Progression of Radiographic Coal Workers Pneumoconiosis Absent Further Exposure Among Former U.S. Coal Miners Applying for Federal Black Lung Benefits, 2000 - 2013/K.S.** Almberg, L.H. Go, C.S. Rose, E.L. Petsonk, J.M. Graber, G. Harris, R.A. Cohen, Chicago, IL, p.A7313
- 2:30** **Pneumoconiosis Among U.S. Coal Miners in States Outside of Central Appalachia/L.E.** Reynolds, D.J. Blackley, A.S. Laney, C.N. Halldin, Morgantown, WV, p.A7314
- 2:45** **Non-Pneumoconiotic Abnormalities on Radiographs of Coal Miner Participants of the National Institute for Occupational Safety and Health-Administered Coal Workers' Health Surveillance Program (CWHSP)/C.N.** Halldin, D.J. Blackley, A.S. Laney, Morgantown, WV, p.A7315

- 3:00** **Post-1971 Uranium Industry Workers Have a Similar Radiologic Lung Disease Burden to Pre-1971 Workers/E.** Kocher, S. Wigh, T. Wilson-Boyce, O. Myers, K. Evans, L. Cook, A. Sood, Albuquerque, NM, p.A7316
- 3:15** **Exhaled Volatile Organic Compounds in Breath Enable Discrimination of Pneumoconiosis/H.-Y.** Yang, R.-H. Shie, C.-J. Chang, P.-C. Chen, Taipei, Taiwan, p.A7317

MINI SYMPOSIUM

D96 INFECTIOUSNESS AND TRANSMISSION OF TUBERCULOSIS

1:30 p.m. - 3:30 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 143 A-C (Middle Building, Street Level)

Chairing: K.P. Fennelly, MD, MPH, Bethesda, MD
S.S. Shin, PhD, Los Angeles, CA
M. O'Donnell, MD, MPH, New York, NY

Featured Speaker

- 1:30** **TB Transmission and Progression in Contacts Exposed to MDR-TB/M.** Murray, MD, MPH, ScD, Boston, MA,

Oral Presentations

- 1:45** **Feasibility and Acceptability of Xpert MTB/RIF Testing to Guide Airborne Infection Isolation in Patients with Possible TB at San Francisco General Hospital/L.H.** Chaisson, D. Duong, A. Cattamanchi, S. Perez, M. Healy, M. Sur, M.A. Lin, P. Pham, M. Roemer, M. Handley, D. Schillinger, B. Haller, A. Luetkemeyer, J.L. Davis, Baltimore, MD, p.A7318
- 2:00** **Bacterial and Host Determinants of Infectiousness in Patients with Drug-Susceptible or Drug-Resistant Tuberculosis/G.** Theron, L. Smith, J.D. Limberis, R. Venter, A. Esmail, R. McNerney, G.L. Calligaro, K.P. Fennelly, R.M. Warren, K.U.J. Dheda, Cape Town, South Africa, p.A7319
- 2:15** **Outcomes, Infectiousness and Transmission Dynamics of Patients with Extensively Drug Resistant Tuberculosis and Home-Discharged Patients with Programmatically Incurable TB: A Prospective Cohort Study/J.D.** Limberis, E. Pietersen, J. Phelan, A. Esmail, M. Lesosky, K.P. Fennelly, J. Te Riele, B. Mastrapa, P. Spiller, E.M. Streicher, T. Dolby, A.M. Abdallah, F. Ben Rached, J. Simpson, L. Smith, T. Gumbo, P. Van Helden, F.A. Sirgel, R. McNerney, G. Theron, A. Pain, T.G. Clark, R.M. Warren, K.U.J. Dheda, Cape Town, South Africa, p.A7320
- 2:30** **Factors Associated with Growth of Tuberculosis Genotype Clusters - United States, 2009-2014/J.M.** Wortham, S. Kammerer, K. Powell, A.M. France, Atlanta, GA, p.A7321
- 2:45** **Whole Genome Sequencing to Study XDR TB Transmission in South Africa/S.C.** Auld, N.R. Gandhi, B. Mathema, N. Ismail, S.V. Omar, T. Brown, J.C. Brust, K.N. Nelson, A. Narechania, S. Allana, A. Campbell, K. Mlisana, P. Moodley, N.S. Shah, Atlanta, GA, p.A7322



3:00 The Diaspora of Multidrug-Resistant Tuberculosis: Whole-Genome Analysis of Globally Migrant MDR Clades/K.A. Cohen, A. Manson, T. Abeel, C. Desjardins, B. Birren, A.M. Earl, Boston, MA, p.A7323

3:15 A Web-Based Interface to Explore and Analyze Mycobacterium Tuberculosis Whole Genome Sequence Data/M. Farhat, C. Choirat, R. Prasad, M. Crosas, M. Murray, Boston, MA, p.A7324

MINI SYMPOSIUM

D97 IMPACT OF INFLAMMATION ON ACUTE LUNG INJURY

**1:30 p.m. - 3:30 p.m. MARRIOTT MARQUIS WASHINGTON
Independence Ballroom A-D (Level M4)**

Chairing: C.M. Waters, PhD, Memphis, TN
J. Liu, PhD, Chicago, IL
V. Kolliputi, PhD, Tampa, FL

Oral Presentations

- 1:30 Inflammasome-Mediated IL-1 β Release Drives Lung Ischemia Reperfusion (IR) Injury While Augmenting Bacterial Clearance in a Mouse Model of Lung Infection/A. Prakash, X. Tian, S. He, J. Hellman, San Francisco, CA, p.A7325**
- 1:45 Being a Good Influence? Alveolar Type 2 Cells Dampen Macrophage Inflammatory Response in Acute Lung Injury Via Glycolysis Driven Mechanism/R. Roy, K.C. El Kasmi, N. Burns, H. Eltzschig, K.R. Stenmark, C. Vohwinkel, Aurora, CO, p.A7326**
- 2:00 Inflammasome Priming in Alveolar Macrophages Involves Differential Activation of p38 and ERK Through Apoptosis Signal Regulating Kinase 1 (ASK-1)/C.N. Immanuel, B. Teng, J. Tatum, J.A. Kennedy, C. Luellen, E.A. Fitzpatrick, S.A. Cormier, C.M. Waters, Memphis, TN, p.A7327**
- 2:15 Novel Role of Inflammasomes in the Molecular Pathogenesis of Emphysema/S. Ruwanpura, L. McLeod, G. Anderson, B. Jenkins, Clayton, Australia, p.A7328**
- 2:30 Uptake of Cell-Free Hemoglobin Impairs Cytokine Production by Macrophages/C.M. Shaver, S.R. Landstreet, N. Putz, M.J. Hubler, A.H. Hasty, L.B. Ware, J.A. Bastarache, Nashville, TN, p.A7329**
- 2:45 NLRX1 Is Induced by Lipopolysaccharide Through Post-Translational Modification/S. Han, J. Jerome, J. Bednash, R. Mallampalli, Chicago, IL, p.A7330**
- 3:00 Resolution of Hyperoxia Induced Acute Lung Injury Is Dependent Upon TLR4/Y. Zhang, W.J. Chae, M. Sauler, A.L.M. Bothwell, P.J. Lee, New Haven, CT, p.A7331**
- 3:15 Transient Receptor Potential Vanilloid 4 (TRPV4) Mediates the Macrophage Response to Bacterial Pneumonia Through the p38 MAPK-MK2 Pathway/R.G. Scheraga, S. Abraham, K.A. Niese, L.M. Grove, B.D. Southern, T. Bonfield, T. Hamilton, M.A. Olman, Cleveland, OH, p.A7332**

MINI SYMPOSIUM

D98 INSIGHTS INTO ENVIRONMENTAL EXPOSURES IN ASTHMA, COPD, AND CONSTRICTIVE BRONCHIOLITIS

**1:30 p.m. - 3:30 p.m. WALTER E. WASHINGTON CONVENTION CENTER
Room 145 A-B (Middle Building, Street Level)**

Chairing: A. Lee, MD, MS, New York, NY
C.J. Baglole, PhD, Montreal, Canada
Y.S. Prakash, MD, PhD, Rochester, MN

Oral Presentations

- 1:30 Maternal E-cigarette Vaping Enhances Development of Allergic Asthma in the Offspring/K.D. McAlinden, Y.L. Chan, A. Kota, H. Chen, B.G. Oliver, P. Sharma, Sydney, Australia, p.A7333**
- 1:45 E-cigarette Use and Lung Density on Computed Tomography. Subpopulations and Intermediate Outcome Measures in COPD Study (SPIROMICS)/E. Oelsner, E.A. Hoffman, I. Barjaktarevic, E. Bleeker, C.B. Cooper, A.P. Comellas, D. Couper, G.J. Criner, M. Dransfield, M.B. Drummond, M.K. Han, R.E. Kanner, J.A. Krishnan, F.J. Martinez, R. Paine, P.G. Woodruff, R. Bowler, N. Hansel, R.G. Barr, New York, NY, p.A7334**
- 2:00 5-year Change in Airway Wall Thickness in Cigarette Smokers: Clinically Important Changes Derived from Computed Tomography/J.-P. Charbonnier, E. Pompe, C.M. Moore, E. Van Rikxoort, D. Lynch, Nijmegen, Netherlands, p.A7335**
- 2:15 Cigarette Smoke Changes cAMP Microdomains in Lung Slices/H. Zuo, B. Han, W.J. Poppinga, L. Ringnalda, V.O. Nikolaev, M. Schmidt, Groningen, Netherlands, p.A7336**
- 2:30 Loss of Multiciliated Epithelium and Impaired Mucosal Immunity in Lungs of Soldiers with Constrictive Bronchiolitis/V.V. Polosukhin, B. Richmond, R.-H. Du, L. Ware, J.-W. Lee, R.F. Miller, A. Harris, T.S. Blackwell, Nashville, TN, p.A7337**
- 2:45 Peroxidation of Phosphatidylcholine: A Signature for Allergen-Induced Airway Responses and Allergen Specificity/A. Jha, C.D. Pascoe, A.L. Edel, A. El-Gammal, A. Ravandi, G.M. Gauvreau, P. O'Byrne, A.J. Halayko, Winnipeg, Canada, p.A7338**
- 3:00 Rhinovirus Induces Dysmaturity and Unjamming of Normal and Asthmatic Human Bronchial Epithelial Layers/C. Rhodes, J. Mitchel, Y.A. Bochkov, R. Hirsch, B. Lan, I. Stancil, J.E. Gern, J.P. Butler, J.J. Fredberg, J.-A. Park, Boston, MA, p.A7339**
- 3:15 Vitamin D Deficiency Alters Airway Smooth Muscle Structure during Allergic Airway Inflammation in Mice/R. Britt, M. Thompson, M. Freeman, C. Pabelick, Y.S. Prakash, Rochester, MN, p.A7340**



MINI SYMPOSIUM

D99 BEST FROM THE LAB IN SDB: MECHANISMS AND BEYOND

1:30 p.m. - 3:15 p.m. **MARRIOTT MARQUIS WASHINGTON**

Liberty Ballroom M-P (Level M4)

Chairing: E. Tasali, MD, Chicago, IL
C.P. O'Donnell, PhD, Pittsburgh, PA
C.M. Hoyos, MPH, PhD, Glebe, Australia

Featured Speaker

1:30 Sleep Disordered Breathing: At the Crossroads of Inflammation and Metabolic Dysfunction/C.P. O'Donnell, PhD, Pittsburgh, PA,

Oral Presentations

- 1:45 Obstructive Sleep Apnea Causes Nocturnal Metabolic Dysfunction/J. Jun, S. Chopra, A. Rathore, H. Younas, L. Pham, V.Y. Polotsky, Baltimore, MD, p.A7341**
- 2:00 Two Weeks of Intermittent Hypoxic Exposure Induce Lipolysis at the Fat Tissue Level in Healthy Human Subjects/M. Netchitailo, F. Fabre, A. Briancon-Marjollet, E. Belaidi, C. Arnaud, A.L. Borel, P. Levy, J.-L. Pepin, R. Tamisier, Rouen, France, p.A7342**
- 2:15 The Role of Sleep and Circadian Genes on Outcomes of Critical Illness/L. Durairaj, T. Hamieh, J. Barnes, J. Cavanaugh, B.K. Gehlbach, Iowa City, IA, p.A7343**
- 2:30 Adipocyte Insulin Resistance Induced by Plasma Exosomes Derived from OSA Patients and Murine Models of OSA/A. Khalyfa, J.F. Masa, Z. Zhuanhong Qiao, J. Corral, M. Gonzalez, C.J. Egea, S. Marti, M.-A. Sanchez-Quiroga, F.J. Gomez De Terreros, F.J. Barca, D. Gozal, Chicago, IL, p.A7344**
- 2:45 Inflammation and Contractility Are Altered by Obstructive Sleep Apnea Children's Serum, in Human Embryonic Stem Cell Derived Cardiomyocytes/A. Goldbart, R. Ophir, T. Rabinski, J. Gopas, Beer Sheva, Israel, p.A7345**
- 3:00 Von Willebrand Factor Release in Obstructive Sleep Apnea/T. Thoma, M. Emin, R. Shah, S. Jelic, New York, NY, p.A7346**

RAPiD: RAPID ABSTRACT POSTER DISCUSSION

D101 MECHANISTIC AND TRANSLATIONAL STUDIES IN COPD

1:30 p.m. - 3:30 p.m. **WALTER E. WASHINGTON CONVENTION CENTER**

Room 151 B (Middle Building, Street Level)

Abstract Summaries 1:30-2:00

Poster Viewing/Discussion 2:00-3:30

Chairing: M.T. Borchers, PhD, Cincinnati, OH
M.R. Stampfli, PhD, Hamilton, Canada
C.M. Freeman, PhD, Ann Arbor, MI

- 401 IL-6 Promotes Airway Neutrophilia in a Mouse Model of Asthma-COPD Overlap Syndrome (ACOS)/M.E. Poynter, J.L. Ather, M.J. Randall, A. Norman, J. Bivona, A.E. Dixon, M. Rincon, Burlington, VT, p.A7347**
- 402 Eosinophilic Inflammation in COPD Is Associated with Increased Exacerbations and Unique Blood Transcriptomic Signatures/J.H. Yun, A. Lamb, M. Parker, R.P. Chase, P.J. Castaldi, C.P. Hersh, Boston, MA, p.A7348**
- 403 The Role of DICER in Alveolar Macrophages and Dendritic Cells in Smoke-Induced Inflammation/E.G. De Smet, P. Mestdagh, S. Provoost, L.M. Seys, G.F. Joos, K. Vermaelen, G.G. Brusselle, K.R. Bracke, Ghent, Belgium, p.A7349**
- 404 Integrative Analysis Identifies Candidate Causal Genes of Emphysema Distribution in Non-Alpha 1-Antitrypsin Deficient Smokers/A. El Boueiz, R.P. Chase, A. Lamb, Z.Z.C. Naing, M. Parker, C.P. Hersh, M.H. Cho, J.D. Crapo, D. DeMeo, E.K. Silverman, X. Zhou, P.J. Castaldi, Boston, MA, p.A7350**
- 405 Loss of SIgA Contributes to Activation of Adaptive Immunity in COPD/B. Richmond, R.-H. Du, S. Novitskiy, L. Ware, T.S. Blackwell, V.V. Polosukhin, Nashville, TN, p.A7351**
- 406 Inflammatory Phenotyping of Chronic Airway Diseases (Including Both Asthma and COPD) by Breathomics/R. De Vries, J.W.F. Dagelet, P. Brinkman, E. Dijkers, F.H.C. De Jongh, P.J. Sterk, Amsterdam, Netherlands, p.A7352**
- 407 Mucin Concentrations in COPD: Defining Disease Severity and Phenotype Biologically Through Sputum Mucin Analyses/A.A. Ford, G. Radicioni, A. Ceppe, W. O'Neal, R.C. Boucher, M. Kesimer, Chapel Hill, NC, p.A7353**
- 408 Lung Dendritic Cells Prime Natural Killer Cells to Become Cytotoxic in Both COPD Patients and Cigarette Smoke-Exposed Mice/V.R. Stolberg, L. McCloskey, M.R. Kady, J. Ferguson, H. Sandig, D.K. Finch, J.L. Curtis, C.M. Freeman, Ann Arbor, MI, p.A7354**
- 409 The Role of T-Bet in Emphysema/S. Hayashi, Y. Matsuno, Y. Tsunoda, H. Sakurai, T. Kiwamoto, M. Kawaguchi, Y. Morishima, Y. Ishii, N. Hizawa, Tsukuba, Japan, p.A7355**
- 410 Alveolar Macrophages from HIV-Infected Smokers Have an Activated Transcription Profile that Includes Elevated Expression of Chitinase 1/E.C. Logue, A.K. Martin, D.J. Linderman, T.B. Campbell, B.E. Palmer, A.P. Fontenot, Aurora, CO, p.A7356**
- 411 Increased Expression of the MERS Coronavirus Receptor DPP4 in Lungs of Smokers and Patients with COPD/L.J.M. Seys, W. Widagdo, F.M. Verhamme, B.L. Haagmans, G.G. Brusselle, K.R. Bracke, Ghent, Belgium, p.A7357**
- 412 Immunoglobulin G Subclass Deficiency in COPD Patients Taking and Not Taking Inhaled Corticosteroids/F.S. Leitao Filho, S.W. Ra, A. Mattman, R.S. Schellenberg, N. Fishbane, G.J. Criner, P.G. Woodruff, S. C. Lazarus, R. Albert, J.E. Connert, M.K. Han, F.J. Martinez, J. Leung, S.P. Man, S.D. Aaron, R.M. Reed, D.D. Sin, Fortaleza, Brazil, p.A7358**
- 413 Aberrant Formyl Peptide Receptor Expressions and M1/M2 Polarization of Blood Immune Cells in Patients with Chronic Obstructive Pulmonary Disease/Y.-C. Chen, M.-C. Lin, S.-F. Liu, C.-C. Wang, W.-F. Fang, H.-C. Chang, C.-C. Tsen, H.-C. Chen, Kaohsiung, Taiwan, p.A7359**



- 414 M1 and M2 Macrophage Populations in the Airways of Smokers and COPD Patients: Insights from Both Airway Tissue and Lumen/M.S. Eapen, K. McAlinden, C. Ward, E.H. Walters, S.S. Sohal, Hobart, Australia, p.A7360**
- 415 COPD Monocyte-Derived and Tissue Macrophages Are Driven by GM-CSF Towards a Pro-Inflammatory Phenotype/J. Tilman, P.J. Barnes, L. Donnelly, London, United Kingdom, p.A7361**
- 416 Short-Term Inhibition of NOTCH Signalling Ablates MUC5AC Production in Human Airway Epithelial Cells from Asthmatic, Non-Asthmatic and COPD Donors/A.T. Reid, F. Moheimani, K. Nichol, N. Bartlett, P.A. Wark, C. Grainge, P.M. Hansbro, D. Knight, Callaghan, Australia, p.A7362**
- 417 Non-Typeable Haemophilus Influenzae Is Associated with Rapid Lung Function Decline and Poor Macrophage and Neutrophil Phagocytosis in Patients with Alpha-1 Anti-Trypsin Deficiency/G.M. Walton, K.B.R. Belchamber, S.M. Hughes, P.J. Barnes, R.A. Stockley, L. Donnelly, E. Sapey, Birmingham, United Kingdom, p.A7363**
- 418 Essential Role for MMP-13 in Lung Destruction of COPD Exacerbations/M. Goldklang, R.M. Reed, R. Xiao, K. Stearns, F. Cvetkovski, D. Turner, T. Zelonina, J. Trischler, P.T. Elington, D.L. Farber, J.M. D'Armiento, New York, NY, p.A7364**
- 419 Follistatin-Like Protein 1 Conditional KO Mice Develop Spontaneous Lung Emphysema/L.G. Vargas Buonfiglio, S.M. Smith, B.S. Hostager, O.G. Vanegas Calderon, Y. Chaly, A.P. Comellas, R. Hirsch, Iowa City, IA, p.A7365**
- 420 Effect of Olodaterol on Barrier Function in Differentiated Air-Liquid Interface Cultures of Airway Epithelial Cells/G.K. Singhera, R.Y. Yan, M.P. Pieper, D.D. Sin, D. Dorscheid, Vancouver, Canada, p.A7366**
- 421 IL-1 Signaling Imbalance Affects Lung Development and Predisposes to Cigarette Smoke-Induced Emphysema in Mice/J. Radder, A.D. Gregory, Y. Chu, Y. Zhang, S.D. Shapiro, Pittsburgh, PA, p.A7367**
- 422 Sialic Acid-Binding Immunoglobulin-Like Lectin E (Siglec-E) Plays an Important Role in Inflammatory and Emphysematous Responses in Mice/Z. Chen, P. Shan, T. Kumagai, L. Zhang, P.J. Lee, F. Zhang, M. Tiemeyer, Z. Mei, Y. Wang, L. Zhou, B. Bochner, P. Crocker, T. Zheng, Z. Zhu, New Haven, CT, p.A7368**
- 423 ATF6 Contributes to Smoke-Associated Small Airways Fibrosis, Inflammation and Air Space Enlargement/A. Blumental-Perry, K. Vedagiri, C. Nelson, H. Kenche, A. Degar, A.S. Leme, Y. Perry, S.D. Shapiro, R. Folz, Cleveland, OH, p.A7369**
- 424 Cigarette Smoke Impairs Alveolar Macrophage Host Defense via Rac2 Inhibition/J.L. Casey, P.L. Jackson, V.B. Antony, A.B. Carter, Birmingham, AL, p.A7370**
- 425 Effects of Insulin-Like Growth Factor Signaling Pathways on the Development of Emphysema/A.D. Gregory, B. Agostini, Y. Chu, Y. Zhang, S.D. Shapiro, Pittsburgh, PA, p.A7371**

POSTER DISCUSSION SESSION

D102 TEACHABLE MOMENTS AND OTHER NOVEL INSIGHTS IN SMOKING CESSATION

1:30 p.m. - 3:30 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 201 (South Building, Level 2)

Poster Viewing 1:30-2:15

Discussion 2:15-3:30

Chairing: D.J. Upson, MA, MD, Albuquerque, NM
A.C. Melzer, MD, MS, Minneapolis, MN
J.M. Iaccarino, MD, Boston, MA

501 Establishment and Evaluation of a Smoking Cessation Clinic in South Africa/G.Y. Tadzimirwa, C. Day, A. Esmail, C. Cooper, K.U.J. Dheda, R. Van Zyl - Smit, Cape Town, South Africa, p.A7372

502 Health Inequity in Canada: The Bottom 1%!/S. Pakhale, T. Kaur, S. Jama, T. Rose, K. Florence, D. Pineau, M. Tyndall, Ottawa, Canada, p.A7373

503 A Controlled Pilot Trial of a Proactive Telephone Outreach Approach to Integrating Smoking Cessation into Delivery of Lung Cancer Screening/S. Zeliadt, P. Greene, D.H. Au, P. Krebs, D. Klein, B. Ko, L. Swanson, K. Todd, L.C. Feemster, L.F. Reinke, C.G. Slatore, J. Heffner, Seattle, WA, p.A7374

504 Knowledge Gaps and Biased Risk Perceptions Among Current Smokers Participating in Lung Cancer Screening/S. Zeliadt, P. Greene, P. Krebs, D. Klein, B. Ko, L. Swanson, K. Todd, L.C. Feemster, D.H. Au, L.F. Reinke, J. Heffner, Seattle, WA, p.A7375

505 Capitalizing on the Teachable Moment: Implementation of an Inpatient Smoking Cessation Consult Service/N. Herbst, M. Zhang, C. Fitzgerald, C. O'Donnell, C. Wong, R.S. Wiener, H. Kathuria, Boston, MA, p.A7376

506 Smoking Cessation Interventions in the Setting of Low Dose Computed Tomography (LDCT) Lung Cancer Screening: A Systematic Review/J.M. Iaccarino, C. Duran, R.S. Wiener, H. Kathuria, Boston, MA, p.A7377

507 Effectiveness of Proactive Tobacco Treatment Among Smokers with Respiratory Diseases/A.C. Melzer, B. Clothier, S.J. Japuntich, P. Hammett, D.J. Burgess, A.M. Joseph, S.S. Fu, Minneapolis, MN, p.A7378

508 Attitudes and Behaviors of Interventional Pulmonologists Towards Tobacco Dependence Treatment/Y.B. Gesthalter, A. Majid, E. Folch, A. Agnew, C.L. Channick, R.S. Wiener, Boston, MA, p.A7379

509 Preliminary Report of a Smartphone Application "CureApp" for Smoking Cessation/K. Masaki, H. Tateno, N. Kameyama, K. Satake, S. Suzuki, T. Muto, K. Fukunaga, T. Betsuyaku, Tokyo, Japan, p.A7380

510 COPD Access to Community Health - CATCH Smoking Cessation in Severely Mentally Ill Patients/C. Landon, K. Gallardo, Ventura, CA, p.A7381



- 511 Vaping Characteristics of Veterans Replacing Tobacco Smoking with Electronic Cigarettes/A.M. Guerrero, M.D. Schweitzer, K. Balestrini, L.V. Luna Diaz, G. Holt, M. Mirsaeidi, M. Salathe, M. Campos, Miami, FL, p.A7382**
- 512 Weight Gain After Tobacco Cessation/M. Barrueco Ferrero, J. Perez-Rodriguez, M. Lopez-Zubizarreta, P. Alvarez Vega, E. Barrueco-Otero, M. Bartol-Sanchez, Salamanca, Spain, p.A7383**
- 513 Development of a Test to Evaluate the Emotional Status of Smokers/J. Baddini-Martinez, M. Monteschi, M.V.O. Castellano, C.R. Perez, S. Cedano, A.I. De Padua, Ribeirao Preto, Brazil, p.A7384**
- 514 Lung Age with Ex-Smokers and Non-Smokers at Two-Days Medical Checkup/M. Fukakusa, Y. Ichikawa, Y. Ishida, K. Masuda, Tokyo, Japan, p.A7385**
- 515 Duration to Self-Selected Future Quit Date Is Associated with Sustained Smoking Abstinence Rates at 6 Months/G.L. Anesi, K.G.M. Volpp, M.O. Harhay, S.D. Halpern, K. Saulsgiver, Philadelphia, PA, p.A7386**
- 516 Receiving Tobacco Dependence Coaching and Medications: Free Vs. Fee Paid/P.A. Folan, C. Fardellone, Great Neck, NY, p.A7700**

POSTER DISCUSSION SESSION

D103 ALPHA 1-ANTITRYPSIN DEFICIENCY: 50 YEARS OF PROGRESS

1:30 p.m. - 3:30 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 144 A-C (Middle Building, Street Level)

Poster Viewing 1:30-2:15
Discussion 2:15-3:30

Chairing: C.B. Strange, MD, Charleston, SC
R. Sandhaus, MD, PhD, Denver, CO
J. Stoller, MD, Cleveland, OH

- 101 Comparability of a Liquid Formulation of Alpha1-Proteinase Inhibitor to Prolastin-C®: A Double-Blind, Randomized, Crossover Pharmacokinetic and Safety Study in Alpha1-Antitrypsin Deficiency/A. Barker, M. Campos, M. Brantly, J. Stocks, R. Sandhaus, D. Lee, K. Steinmann, J. Lin, S. Sorrells, Portland, OR, p.A7387**
- 102 Demographics and Clinical Profile of Patients with Alpha-1 Antitrypsin Deficiency PiMZ and PiMS Genotypes Started on Augmentation Therapy/N.S. Zaidi, P. Slocum, S. Kearns, L. Kristofek, Pittsburg, KS, p.A7388**
- 103 Multicomponent Intervention Improves BMI in a Randomized Trial of Alpha-1 Antitrypsin Deficient Patients/R. Choate, D.M. Mannino, K. Holm, R. Sandhaus, Lexington, KY, p.A7389**
- 104 Increase in Exercise Activities in Alpha-1 Antitrypsin Deficient Patients: Results of a Randomized Trial/R. Choate, D.M. Mannino, K. Holm, R. Sandhaus, Lexington, KY, p.A7390**

- 105 Factors Associated with FEV₁ Decline in Alpha-1 Antitrypsin Deficient Patients/R. Choate, D.M. Mannino, R. Sandhaus, K. Holm, Lexington, KY, p.A7391**
- 106 Association of Serum Alpha-1 Antitrypsin Levels with Clinical Course of COPD/N. Takei, M. Suzuki, H. Makita, S. Konno, K. Shimizu, H. Kimura, M. Nishimura, Sapporo, Japan, p.A7392**
- 107 Higher C-Reactive Protein Levels Are Associated with Less Symptoms Among a Pi (MZ) Alpha-1 Antitrypsin Phenotype Cohort/H.S. Al Ashry, K. Brown, C. Sanders, J. Kim, G. Blanton, T. Beiko, C.B. Strange, Charleston, SC, p.A7393**
- 108 A Re-Analysis of FEV₁ Decline and Augmentation Effects Using Stricter Slope Measurements from the NIH Alpha 1-Antitrypsin Deficiency Registry Study/M.D. Wewers, Columbus, OH, p.A7394**
- 109 The Effect of Alpha1-Proteinase Inhibitor (A₁-PI) Therapy on Changes in Regional Lung Density: Post-Hoc Analysis of the RAPID/RAPID Extension Trial/D. Reed, N.G. McElvaney, K.R. Chapman, J. Burdon, N. Seersholm, B. Stoel, M. Wencker, O. Vit, M. Fries, J.M. Edelman, D. Parr, Coventry, United Kingdom, p.A7395**
- 110 Identification of Genetic Variants in the SERPINA1 Gene that Influence A1AT Levels/C. Sanders, J. Kim, Fulton, MD, p.A7396**
- 111 Comorbidity Patterns in Alpha-1-Antitrypsin Deficiency Depend on Natural History and Substitution Therapy/S.W. Fahndrich, F. Biertz, A. Karch, B. Kleibrink, A. Koch, H. Teschler, T. Welte, T. Greulich, H.-U. Kauczor, S. Janciauskiene, R. Jorres, C. Vogelmeier, R. Bals, Homburg/Saar, Germany, p.A7397**
- 112 Decline in FEV₁ in Patients with PiZZ Alpha-1-Antitrypsin Deficiency Depends on the Exacerbation Rate/S.W. Fahndrich, N. Bernhard, P.M. Lepper, C. Vogelmeier, M. Seibert, S. Wagenpfeil, R. Bals, Homburg/Saar, Germany, p.A7398**
- 113 CT Evident Emphysema in MZ and SZ Alpha 1 Antitrypsin Deficiency: Smoking as a Phenotype-by-Environment Effect/A. Franciosi, T.P. Carroll, M. Molloy, L. Fee, C. O'Connor, N.G. McElvaney, Dublin, Ireland, p.A7399**
- 114 Chronic Oxidative Stress Leads to Accelerated Telomere Shortening in Children with Alpha-1 Antitrypsin Deficiency/F.J. Dasi, S. Pastor, S. Castillo, A. Reula, L. Banuls, M.M. Navarro-Garcia, E. Fernandez-Fabrellas, F. Sanz Herrero, P. Codoner-Franch, M. Torres, F. Casas, A. Escribano, Valencia, Spain, p.A7400**
- 115 Alpha-1 Antitrypsin in African Americans and Hispanics: The Multi-Ethnic Study of Atherosclerosis (MESA) Lung Study/A. Manichaikul, A. Hashed, X.-Q. Wang, S.J. Bielinski, C.J. Williams, M. Brantly, S.S. Rich, R.G. Barr, Charlottesville, VA, p.A7401**
- 116 Results of a Large Scale Gene-Based Screening Program for Alpha-1-Antitrypsin Deficiency in the USA/F. Rouhani, R. Oshins, C. Charleston, J. Edwards, V. Madamba, K. Scharfswert, D. Nattiel, M.L. Brantly, Alachua, FL, p.A7402**
- 117 The Irish National Alpha-1 Antitrypsin Deficiency Targeted Detection Programme/T.P. Carroll, L. Fee, C. O'Connor, M. Molloy, E. Pentony, I. Ferrarotti, S. Ottaviani, N.G. McElvaney, Dublin, Ireland, p.A7403**



- 118 Improving Testing for Alpha-1 Antitrypsin Deficiency Using the Pulmonary Function Laboratory/L.V. Luna Diaz, I. Iupe, B. Zavala, K. Balestrini, A.M. Guerrero, M.D. Schweitzer, G. Holt, M. Mirsaeidi, R. Calderon, M. Campos, Miami, FL, p.A7404**
- 119 Real Life Treatment Benefit of Intravenous Augmentation Therapy for Severe Alpha-1 Antitrypsin Deficiency/M. Molloy, C. O'Connor, L. Fee, T.P. Carroll, N.G. McElvaney, Dublin, Ireland, p.A7405**
- 120 The Impact of Glycosylation on the Immunoregulatory Properties of Alpha-1 Antitrypsin/D.M. Dunlea, O.J. McElvaney, N. Lacey, M.M. White, B. Marsh, C. McCarthy, P. Hawkins, E.P. Reeves, N.G. McElvaney, Dublin, Ireland, p.A7406**
- 121 Bacteriophage-Host Relationships in Alpha-1 Antitrypsin Deficiency and Sarcoidosis/K. Gulino, A. Geber, A. Twaddle, B.A. Methe, A.M. Morris, H. Hochheiser, R.G. Collman, Y. Zhang, L.A. Maier, L. Koth, M. Rossman, K.F. Gibson, W.P. Drake, E. Herzog, D.R. Moller, S. Wisniewski, R.M. Senior, J.G.N. Garcia, E.S. Chen, C.B. Strange, R. Sandhaus, M. Becich, N. Kaminski, E. Ghedin, New York, NY, p.A7407**
- 707 The MUC5b Promoter Polymorphism and Shorter Telomere Length Are Associated with Idiopathic Pulmonary Fibrosis-Like Features in Chronic Hypersensitivity Pneumonitis/B.J. Ley, C.A. Newton, I. Arnould, B.M. Elicker, T.S. Henry, K.D. Jones, C.K. Garcia, P.J. Wolters, San Francisco, CA, p.A7415**
- 708 Association of Changes in Quantitative CT with Outcome Measures in the Scleroderma Lung Study III/J.G. Goldin, G.H.J. Kim, E. Kleerup, R. Elashoff, P. Lu, P. Clements, M.D. Roth, D.P. Tashkin, Los Angeles, CA, p.A7416**
- 709 Association Between Obstructive Sleep Apnea and Subclinical Interstitial Lung Disease: The MESA Sleep Study/J.S. Kim, A. Podolanczuk, P. Borker, S.M. Kawut, G. Raghu, J.D. Kaufman, R.G. Barr, E.R. Peterson, K.D. Hinckley Stukovsky, E.A. Hoffman, S.S. Redline, D.J. Lederer, New York, NY, p.A7417**
- 710 High Attenuation Areas on Chest CT and Clinical Respiratory Outcomes in Community-Dwelling Adults: The Multi-Ethnic Study of Atherosclerosis (MESA)/A.J. Podolanczuk, E. Oelsner, R.G. Barr, E.A. Hoffman, I.J. Easthausen, P.L. Enright, K.D. Hinckley Stukovsky, A. RoyChoudhury, E.D. Michos, G. Raghu, S.M. Kawut, D.J. Lederer, New York, NY, p.A7418**
- 711 Composite Physiologic Index (CPI) Categorization and Gender Age Physiology (GAP) Stage Correlation and Differentiation of Patient-Reported Health-Related Quality of Life in Patients with Idiopathic Pulmonary Fibrosis (IPF)/T. Leonard, E.C. O'Brien, V. Gamerman, E. Yow, M.L. Neely, C.S. Conoscenti, D.A. Culver, Ridgefield, CT, p.A7419**
- 712 African-American Ethnicity Predicts Improved Survival in Interstitial Lung Disease/A. Adegunsoye, J.M. Oldham, M.M. Churpek, C.T. Lee, L. Witt, L. Chen, S. Hsu, J.H. Chung, S. Montner, A. Husain, I. Noth, R. Vij, M.E. Strek, Chicago, IL, p.A7420**
- 713 Molecular and Cellular Mechanisms of Pulmonary Langerhans Cell Histiocytosis/H. Liu, F.X. McCormack, M.T. Borchers, A. Osterburg, J. Flury, Cincinnati, OH, p.A7421**
- 714 Tankyrase Inhibitors: A Potential Novel Therapy for LAM/TSC/M. Orcholski, S. Ruoss, C. Filipakkis, E. Henske, V. De Jesus Perez, Stanford, CA, p.A7422**
- 715 Lymphangioleiomyomatosis (LAM) Cells Regulate Monocyte Activation and Maturation/C. Guo, T.M. Truong, L. Chen, A. Gow, Piscataway Township, NJ, p.A7423**
- 716 TSC2-Null Cell-Fibroblast Interactions Enhance Protease Activity by Extracellular Acidification in Lymphangioleiomyomatosis (LAM)/A. Dongre, D. Clements, S.R. Johnson, Nottingham, United Kingdom, p.A7424**
- 717 Tumorigenic Cells of Lymphangioleiomyomatosis Are of a Neural Crest Origin and Susceptible to Tyrosine Kinase Inhibitors/U.J. Unachukwu, T. Shiomi, J. Sonnet, D. Woode, K. Chada, J. D'Armiento, New York, NY, p.A7425**
- 718 Changes in Lung Function During Pregnancy in Patients with Lymphangioleiomyomatosis/A.M. Taveira-DaSilva, P. Julien-Williams, A. Jones, J. Yao, J. Moss, Bethesda, MD, p.A7426**
- 719 NKG2D Ligand Expression in Lymphangioleiomyomatosis/R.A. Foot, A. Osterburg, R. Nelson, F.X. McCormack, M.T. Borchers, Cincinnati, OH, p.A7427**

POSTER DISCUSSION SESSION

D104 ADVANCES IN INTERSTITIAL LUNG DISEASE

1:30 p.m. - 3:30 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 209 A-C (South Building, Level 2)

Poster Viewing 1:30-2:15

Discussion 2:15-3:30

Chairing: I. Noth, MD, Chicago, IL
R. Bascom, MD, MPH, Hershey, PA
J. Morisset, MD, Montreal, Canada

- 701 Duration of Rheumatoid Arthritis and the Risk of Developing Interstitial Lung Disease/M. Mohning, Z. Yunt, R.C. Keith, A. Olson, E. Fernandez Perez, T. Huie, M.K. Demoruelle, B. Goldstein, J.J. Swigris, J. Solomon, Denver, CO, p.A7409**
- 702 Five Years of Real World Pirfenidone Experience/G. Hughes, C. Leonard, N. Chaudhuri, Wythenshawe, United Kingdom, p.A7410**
- 703 Clinical Characteristics and Prognosis of Interstitial Pneumonia with Autoimmune Features/J.H. Lee, J. Lee, J.S. Song, E.J. Chae, D.S. Kim, J.W. Song, Seoul, Korea, Republic of, p.A7411**
- 704 Anti-Fibrotic Role of Inhaled Interferon- γ Detected by Proteomic Studies in Patients with Idiopathic Pulmonary Fibrosis/N.A. Hasaneen, J. Haley, H.D. Foda, R. Condos, G.C. Smaldone, Stony Brook, NY, p.A7412**
- 705 Antacid Use and Subclinical Interstitial Lung Disease: The MESA Study/M.D. Restivo, A. Podolanczuk, S.M. Kawut, G. Raghu, P.J. Leary, R.G. Barr, D.J. Lederer, New York, NY, p.A7413**
- 706 The Use of PAH Specific Therapy in Sarcoidosis Associated Pulmonary Hypertension (SAPH): A Meta-Analysis and Systematic Review/A. Shujaat, Buffalo, NY, p.A7414**



- 720 The Effect of Low Dose rhGM - CSF Subcutaneously for PAP/F.** Zhang, H. Li, Shanghai, China, p.A7701
- 721 Assessment of Quality of Life in a Cohort of Patients with Idiopathic Pulmonary Fibrosis Using PROMIS-29/A.E.F.** Dimmock, H. Lehmann, T.H. Dimmock, S.K. Danoff, C.H. Chuang, F. Cordova, K.O. Lindell, R. Bascom, Hershey, PA, p.A7702
- 722 Characteristics of Patients with Idiopathic Pulmonary Fibrosis (IPF) Receiving Approved Anti-Fibrotic Therapies in the US/V.** Gamerman, M. Salisbury, D. Culver, T. Leonard, M.L. Neely, E. Yow, C.S. Conoscenti, S. Palmer, Ridgefield, CT, p.A7703
- 723 Left Versus Right: Does Site and Timing of Surgical Lung Biopsy for Interstitial Lung Disease Influence Outcomes?/E.** Otoupalova, S.G. Meka, B. Dalal, V. Jayaschandran, S. Hafez-Khayyata, G. Balachandran Nair, Royal Oak, MI, p.A7704

POSTER DISCUSSION SESSION

D105 CRITICAL CARE: FROM CELL TO MICE TO BEDSIDE - TRANSLATIONAL STUDIES IN SEPSIS AND PNEUMONIA

1:30 p.m. - 3:30 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 151 A (Middle Building, Street Level)

Poster Viewing 1:30-2:15
Discussion 2:15-3:30

Chairing: I.S. Douglas, MD, Denver, CO
J.P. Reilly, MD, MSCE, Philadelphia, PA
C. Mikacenic, MD, Seattle, WA

- 301 ABO Genetic Variation Is Associated with an Evoked Endothelial Phenotype in Sepsis/J.P. Reilly, M.G.S. Shashaty, B. Lim, B.J. Anderson, C.A.G. Ittner, J.A. Palakshappa, T. Dunn, R. Feng, J.D. Christie, N.J. Meyer, Philadelphia, PA, p.A7428**
- 302 Sepsis Mediated cAMP Signals Increase Caspase-1 Activation in Pulmonary Microvascular Endothelial Cells During Pseudomonas Aeruginosa Infection/P. Renema, N.A. Housley, J.P. Audia, D.F. Alvarez, Mobile, AL, p.A7429**
- 303 Pseudomonas Aeruginosa Exoenzyme U Causes Intracellular Caspase-1 Activation in Pulmonary Microvascular Endothelial Cells and Elicits Pyroptosis/P. Renema, N.A. Housley, J.P. Audia, D.F. Alvarez, Mobile, AL, p.A7430**
- 304 Vibrio Vulnificus MARTX Toxin Causes Heterogeneous Barrier Disruption in Pulmonary Endothelial Cells/D.A. Teague, M. Francis, N.A. Housley, P. Renema, D.F. Alvarez, J.P. Audia, Mobile, AL, p.A7431**
- 305 Inhibition of Human Pulmonary Microvascular Endothelial Cell Apoptosis Protects Against Septic Barrier Dysfunction/S.E. Gill, L. Wang, S. Mehta, London, Canada, p.A7432**
- 306 The Metalloproteinase-Dependent Role of TIMPs in Regulation of Pulmonary Microvascular Endothelial Cell Barrier Function During Sepsis/M. Masciantonio, S. Mehta, L. Wang, M. Rohan, C. Pape, S.E. Gill, London, Canada, p.A7433**

- 307 Brain Expression of the TNF- α -S100A8/A9 Axis After Sepsis/S.J. Denstaedt, A. Hjelmaas, M.W. Newstead, X. Zeng, T.J. Standiford, B.H. Singer, Ann Arbor, MI, p.A7434**
- 308 C-Jun N-Terminal Kinase 2 (JNK2) in Sepsis/M. Sala, L. Gu, J.M. Walter, C. Chen, H.C. Do-Umehara, Q. Zhang, P.A. Reyfman, K. Anekalla, G.S. Budinger, A.V. Misharin, R.G. Wunderink, J. Liu, Chicago, IL, p.A7435**
- 309 Physiologic Effects of Low-Level Nutritional Support in a Mouse Model of Klebsiella Pneumonia Sepsis/B. Chuan, F.A. Shah, L. Guo, B. Cooper, K.M. Robinson, J. Lee, Y. Zhang, C.P. O'Donnell, B.J. McVerry, Pittsburgh, PA, p.A7436**
- 310 SS31 Prevents Sepsis Induced Reductions in Diaphragm Strength and Endurance/G.S. Supinski, L. Wang, E.A. Schroder, L.A.P. Callahan, Lexington, KY, p.A7437**
- 311 Intravenous Citrulline in Critically Ill Patients with Sepsis/T.W. Rice, M. Hays, S. Mogan, A.P. Wheeler, Nashville, TN, p.A7438**
- 312 Plasma Taurine Levels at Early Diagnosis Predict Survival/A. Tesfai, B.A. Shala, F. Shala, H. Gashaw, G. Quinlan, N. MacCallum, S. Mumby, N. Gray, E. Want, N. Kirkby, J. Leiper, J. Mitchell, London, United Kingdom, p.A7439**
- 313 Sepsis-3 the Dysregulated Host Response and Cytokine Changes/A.K. Jaehne, Y. Chen, A. Schoenling, J.K. Gill, J. Deleda, L. Poisson, E.P. Rivers, Detroit, MI, p.A7440**
- 314 Different Expression Profile in Primary Cell Lines Exposed to Septic Plasma of Rats/J. Bringue, R. Guillaumat-Prats, M. Camprubi-Rimblas, E. Torrents, M. Martinez, A. Artigas, Sabadell, Spain, p.A7441**
- 315 Impaired Bioenergetic Homeostasis and Phagocytosis in Septic Human Neutrophils (PMN) Is Partially Restored by Granulocyte-Macrophage Colony Stimulating Factor (GM-CSF)/J. Juss, R. Argias, J. Marshall, Toronto, Canada, p.A7442**
- 316 Regulation of Chitinase Activity and Human Chitinase 3-Like-1 (hChi1) in Neutrophils During Bacteremia/A. Ho, A.J. Losier, L. Sharma, C.R. Marion, N. Andrews, W. Liu, S. Bermejo, C.S. Dela Cruz, New Haven, CT, p.A7443**
- 317 Low Dose Enteral Dextrose Attenuates Inflammation and Metabolic Dysfunction in the Acute Phase of Sepsis Through Upregulation of the Intestinal Peptide GIP/F.A. Shah, B. Chuan, L. Guo, B. Cooper, B.J. O'Donnell, D. Stefanovski, Y. Zhang, B. Wice, C.P. O'Donnell, B.J. McVerry, Pittsburgh, PA, p.A7444**
- 318 The Effect of Heparan Sulfate Fragments on Long-Term Potentiation: A Novel Mechanism Underlying Neurocognitive Dysfunction of Sepsis/J.A. Hippensteel, J.E. Orfila, R.M. Dietz, J.A. Ford, Y. Yang, S.M. Haeger, M.J. Perez, F. Zhang, R.J. Linhardt, P.S. Herson, E.P. Schmidt, Aurora, CO, p.A7445**
- 319 Delivery of Human MSC Derived Extracellular Vesicles Directly to the Lung Improves Bacterial Pneumonia Acute Lung Injury/J. Devaney, E. Horan, D. O'Toole, S. Elliman, J. Laffey, R. MacLoughlin, Galway, Ireland, p.A7446**



- 320 C-Type Lectin Mincle Recognizes Glucosyl-Diacylglycerol of Streptococcus Pneumoniae and Plays a Protective Role in Pneumococcal Pneumonia/T.** Takano, R. Maus, J. Stolper, M. Tort Tarres, T. Fuehner, A. Prasse, T. Welte, Y. Nakanishi, T. Miyamoto, S. Yamasaki, M. Ulrich, Fukuoka, Japan, p.A7447
- 321 Physiologic and Molecular Profiling of Shock Subtypes in Critically Ill Patients with Decompensated Liver Failure/J.E.** Prasso, S. Hu, B.J. Garber, T. Young, K. Schwab, T.S. Wang, S. Chang, J.C. Deng, Los Angeles, CA, p.A7448
- 322 Sepsis-Induced Pneumonia Susceptibility Is Coupled with Impaired Expression of Iron-Regulating Factors in the Absence of Liver STAT3/Y.** Kim, K.L. Hilliard, E. Allen, K.E. Traber, E.M. Symer, M.R. Jones, D.G. Remick, M. Wessling-Resnick, J.P. Mizgerd, L.J. Quinton, Boston, MA, p.A7449
- 323 Cell-Free Hemoglobin Augments Acute Kidney Injury in a Sepsis Mouse Model/M.** Paul, J. Kuck, C.M. Shaver, N. Putz, M.P. De Caestecker, J.A. Bastarache, L.B. Ware, Nashville, TN, p.A7450
- 324 Immature Platelet Fraction and In Vivo Markers of Platelet Function in Sepsis/P.** Tejera, R. Zhang, L. Su, D.C. Christiani, Boston, MA, p.A7451
- 325 Transfusion of Aged Red Blood Cells Enhances Klebsiella Pneumoniae Extrapulmonary Dissemination and Suppresses Host Immunity/Z.** Xiong, T. Olonisakin, D. Osei-Hwedie, M. Yu, P. Ray, D. Kim-Shapiro, M.T. Gladwin, M.A. Bachman, E.A. Hod, J.S. Lee, Pittsburgh, PA, p.A7452
- 204 Associations Between Blood Eosinophil Counts and Body Mass Index, Lung Function and Genetic Polymorphisms in the General Population: The Nagahama Study/H.** Sunadome, H. Matsumoto, T. Nagasaki, T. Oguma, Y. Izuhara, Y. Ishiyama, C. Morimoto, Y. Kanemitsu, I. Ito, Y. Tabara, F. Matsuda, A. Niimi, S. Muro, M. Mishima, Kyoto, Japan, p.A7456
- 205 Candidate Gene Association Study of Obese Asthma: VDR Gene Variant Associates with Both Obesity and Early Onset Asthma/J.E.** Lang, E. Mougey, J.J. Lima, Durham, NC, p.A7457
- 206 Obesity and Quality of Life in Asthmatic Adult Patients in the Amazon Region/M.D.S.D.L.** Cardoso, R.J.A. D'Oliveira, F.M. Salame, Manaus, Brazil, p.A7458
- 207 Six-Year Trend in the Prevalence of Asthma and Allergic Rhinitis and Their Associated Factors in Young Adults: Analysis of the Hokkaido University Students/M.** Matsumoto, S. Konno, H. Kimura, M. Suzuki, S. Hashino, M. Nishimura, Sapporo, Japan, p.A7459
- 208 Overweight and Obesity Increases Respiratory Symptoms Associated with Secondhand Smoke Exposure Among US Children/T.D.** Wu, E. Brigham, C.S. Rand, G.B. Diette, R. Peng, N. Putcha, K. Koehler, N. Hansel, M.C. McCormack, Baltimore, MD, p.A7460
- 209 Obesity-Associated Severe Asthma in East Asian Population/M.** To, N. Ogura, Y. Kono, S. Mikami, N. Honda, A. Hitani, I. Kano, K. Haruki, Y. To, Saitama, Japan, p.A7461
- 210 Serum Folate Concentrations, Asthma, Atopy, and Asthma Control in Peruvian Children and Adolescents/A.** Nicholson, S. Pollard, J. Lima, K. Romero, C. Tarazona-Meza, G. Malpartida-Guzman, E. Mougey, N. Hansel, W. Checkley, Baltimore, MD, p.A7462
- 211 Impact of Physical Activity on Childhood Asthma Symptoms: Longitudinal Study in Inner City Baltimore, Maryland/B.N.** Nnodum, S. Hwang, K. Romero, C. Kineza, Z. Tariq, R. Peng, N. Putcha, M.C. McCormack, G.B. Diette, N.N. Hansel, Baltimore, MD, p.A7463
- 212 Obesity, Sedentary Lifestyle, and Exhaled Nitric Oxide in an Early Adolescent Cohort/B.** Flashner, S.L. Rifas-Shiman, E. Oken, C. Camargo, T.A. Platts-Mills, L. Workman, A.A. Litonjua, D.R. Gold, M.B. Rice, Boston, MA, p.A7464
- 213 Body Mass Index and Adipose Tissue Within the Airway Wall/J.** Elliot, F. Green, P. Noble, A. James, Perth, Australia, p.A7465
- 214 Correlation Between Lung Function and Carotid Intima Media Thickness in Indian Patients of Bronchial Asthma/P.** Bhadoria, S.G. Nithin, K. Goyal, D.P. Bhadoria, New Delhi, India, p.A7466
- 215 Saturated Fatty Acids, but Not n-6 Polyunsaturated Fatty Acids or Carbohydrates, Increase Airway Inflammation in Non-Obese Asthmatics/L.G.** Wood, Q. Li, H.A. Scott, B.S. Berthon, P.G. Gibson, K.A. Baines, New Lambton Heights, Australia, p.A7467
- 216 Fish Intake, Dietary Polyunsaturated Fatty Acids, and Lung Cancer: Systematic Review and Dose-Response Meta-Analysis of Data from 15 Prospective Studies/C.** Cao, X. Kong, W. Zhang, X. Huang, Ningbo, China, p.A7468

POSTER DISCUSSION SESSION

D106 OBESITY AND NUTRIENTS IN LUNG DISEASE

1:30 p.m. - 3:30 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 150 B (Middle Building, Street Level)

Poster Viewing 1:30-2:15
Discussion 2:15-3:30

Chairing: L.G. Wood, PhD, New Lambton Heights, Australia
R.A. Johnston, PhD, Houston, TX
C. Hanson, PhD, Omaha, NE

- 201 Inverse Relationship Between Leptin and Lung Function/F.** Shareef, T.F. Carr, D. Billheimer, J. Ledford, M. Kraft, Tucson, AZ, p.A7453
- 202 Serum Leptin Level Correlates with the Percentage of Induced Sputum Eosinophils in Asthmatic Patients/Y.** Liang, J. Wang, X. Li, X. Zhang, C. Chang, T. Li, Y. Sun, Beijing, China, p.A7454
- 203 Adiponectin-Enhancing Drugs Shorten the Time to First Asthma Exacerbation in Overweight/Obese Veterans with Incident Adult-Onset Asthma in a 15-Year Longitudinal Database Study/A.** Sood, C. Qualls, A. Murata, J. Mao, D. Schade, G. Murata, Albuquerque, NM, p.A7455



- 217 Potential Roles of Club Cell 16-kDa Secretory Protein (CC16) and CC Chemokine Ligand 18 (CCL18) in Obese Severe Asthmatic Patients/H.** Goudarzi, S. Konno, H. Makita, H. Kimura, K. Shimizu, M. Suzuki, M. Nishimura, Sapporo, Japan, p.A7469
- 218 Diet Effects on Allergic Airway Inflammation/A.** Linderholm, E. Nonnecke, M.R. Showalter, Z. Kons, O. Fiehn, N. Kenyon, Davis, CA, p.A7470
- 219 Recruited Lung Macrophages Contribute to Progression of Airway Inflammation in Obesity Asthma Mice Model/H.** Tashiro, H. Sadamatsu, K. Takahashi, G. Kato, S. Kimura, N. Sueoka-Aragane, Saga, Japan, p.A7471
- 220 Nitrate, Nitrite and Conjugated Linoleic Acid Therapy for Obese Asthmatics/S.L.** Wendell, G.J. Buchan, F. Golin-Bisello, S.R. Salvatore, B. Singh, R.R. Deshpande, F. Holguin, S.E. Wenzel, Pittsburgh, PA, p.A7472

POSTER DISCUSSION SESSION

D107 DIAMONDS AND PEARLS: PULMONARY HYPERTENSION PHENOTYPES

1:30 p.m. - 3:30 p.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 9-10 (Level M2)

Poster Viewing 1:30-2:15

Discussion 2:15-3:30

Chairing: S.M. Kawut, MD, MS, Philadelphia, PA
E.S. Klings, MD, Boston, MA
V. De Jesus Perez, MD, Stanford, CA

- 1001 Racial and Ethnic Differences in Pulmonary Arterial Hypertension/N.** Al-Naamani, J.K. Paulus, K.E. Roberts, M. Pauciulo, K. Lutz, W. Nichols, S.M. Kawut, Philadelphia, PA, p.A7473
- 1002 Sex Differences in Portopulmonary Hypertension/H.M.** DuBrock, R.N. Channick, S.M. Kawut, M. Krowka, Rochester, MN, p.A7474
- 1003 Patterns of Pulmonary Vascular Remodeling and Expression of Serine-Threonine Kinase GCN2 in Pulmonary Veno-Occlusive Disease: A Comparative Analysis/E.J.** Nossent, F. Antigny, D. Montani, H.J. Bogaard, M. Lambert, V. Thomas De Montpreville, B. Girerd, X. Jais, O. Mercier, E. Fadel, F. Soubrier, O. Sitbon, G. Simonneau, A. Vonk Noordegraaf, M. Humbert, F. Perros, P. Dorfmueller, M.R. Ghigna, Amsterdam, N, p.A7475
- 1004 Discovery of Proteomic Immune Signatures in Pulmonary Arterial Hypertension by Unsupervised Consensus Clustering/A.** Sweatt, H. Hedlin, V. Balasubramanian, A. Hsi, L. Blum, W. Robinson, M.R. Nicolls, M. Rabinovitch, P. Khatri, R.T. Zamanian, Stanford, CA, p.A7476
- 1005 Clinical Heterogeneity Across Proteomic Immunophenotypes in Pulmonary Arterial Hypertension/A.** Sweatt, H. Hedlin, V. Balasubramanian, A. Hsi, L. Blum, W. Robinson, M. Nicolls, M. Rabinovitch, P. Khatri, R.T. Zamanian, Stanford, CA, p.A7477

- 1006 Borderline Pulmonary Hypertension Is Associated with Progression to Overt PH and Increased Mortality in a Large Electronic Health Record Cohort/T.R.** Assad, B.A. Maron, A.R. Hemnes, I.M. Robbins, M. Xu, S. Huang, F.E. Harrell, E.H. Farber-Eger, Q.S. Wells, G. Choudhary, E.L. Brittain, Nashville, TN, p.A7478
- 1007 Risk of Pulmonary Hypertension in Users of Prescription Amphetamine-Based Stimulants: A Single Center Experience/E.M.** Stewart, C.M. Rajasingh, H. Hedlin, R.J. Romanelli, S.R. Wilson, V. De Jesus Perez, R.T. Zamanian, Stanford, CA, p.A7479
- 1008 Effects of Diabetes Mellitus on Pulmonary Vascular Stiffness and Right Ventricular Remodeling/V.** Nair, M.E. Whitaker, S. Sinari, B. Natarajan, L. Trutter, P. Dherange, E.L. Brittain, A.R. Hemnes, E. Austin, K. Patel, A. Kadakia, S.M. Black, J.G.N. Garcia, J.X.J. Yuan, F. Rischard, A. Makino, E.J. Bedrick, A.A. Desai, Tucson, AZ, p.A7480
- 1009 Clinical and Hemodynamic Characterization of Intermediate- and Long-Term Responders to IV Prostacyclin/A.K.** Conger, C. Welch, M.E. Pugh, I.M. Robbins, A.R. Hemnes, Nashville, TN, p.A7481
- 1010 Chronic Inflammation After Splenectomy Is a Risk Factor for Increased Thrombotic Cardiovascular Events/M.** Gerges, C. Gerges, M. Publig, I. Schwarzing, V. Seidl, B. Eichelberger, K. Lechner, A. Alimohammadi, D. Bonderman, M.K. Frey, T. Hofbauer, M. Humenberger, J. Jakowitsch, S. Panzer, I.M. Lang, Vienna, Austria, p.A7482
- 1011 Cardiac Gene Polymorphisms Are Associated with Favorable Prostacyclin Response in Pulmonary Arterial Hypertension/S.J.** Halliday, T.R. Assad, Q. Sheng, E.H. Farber-Eger, F. Ye, A.M. Glazer, E. Brittain, J.D. West, A.R. Hemnes, Nashville, TN, p.A7483
- 1012 The Differences Between Systemic Sclerosis Associated Pulmonary Arterial Hypertension (SSc-PAH) and Idiopathic Pulmonary Arterial Hypertension (IPAH): A Quantitative Lung Morphometric Analysis/R.G.** Argula, R.A. Harley, R.M. Silver, C.B. Strange, V.R. Ramakrishnan, C.A. Feghali-Bostwick, Charleston, SC, p.A7484
- 1013 Phosphoproteomic Analysis of Lung Tissue in Pulmonary Arterial Hypertension Reveals Activation of Immune Modulatory, Angiogenic, and Cell Proliferation Pathways/R.** Sitapara, T.T. Lam, L. Zisman, Rensselaer, NY, p.A7485
- 1014 Pulmonary Vascular Histopathology in Explanted End-Stage Parenchymal Lung Disease/Y.** Dotan, H. Wang, J. Stewart, K. Shenoy, N. Marchetti, F. Cordova, G.J. Criner, A.J. Mamary, Philadelphia, PA, p.A7486
- 1015 Geographical Distribution of Hereditary Haemorrhagic Telangiectasia in Ireland/C.B.** Ni Ealaithe, L.J. Chawke, M. Murphy, A.P. Brady, T.M. O'Connor, Cork City, Ireland, p.A7487
- 1016 Liquid Biopsies in Pulmonary Hypertension: High-Throughput Platelet RNA Profiling-Based Diagnostics/J.** Gomez-Arroyo, M. Best, A. Huis In 't Veld, N. Sol, S. In 't Veld, J. Smits, A. Vonk Noordegraaf, T. Wurdinger, H.J. Bogaard, Cincinnati, OH, p.A7705



RAPID: RAPID ABSTRACT POSTER DISCUSSION

D108 CELL FATE DECISIONS: SENESCENCE, REPAIR, AND REGENERATION

1:30 p.m. - 3:30 p.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 3-4 (Level M2)

Abstract Summaries 1:30-2:00

Poster Viewing/Discussion 2:00-3:30

Chairing: W. Zacharias, MD, PhD, Philadelphia, PA
C.J. Le Saux, PhD, San Francisco, CA
M.I. Ramirez, PhD, Boston, MA

901 Plasminogen Activator Inhibitor-1 Induces Alveolar Type 2 Cell Senescence Through Activating p53-p21-Rb Pathways In Vitro and In Vivo/C. Jiang, G. Liu, T.R. Luckhardt, Y. Zhou, V.B. Antony, V.J. Thannickal, R.-M. Liu, Birmingham, AL, p.A7488

902 TLR4-Mediated Epigenetic and Senescence Mechanisms in COPD/C. Hwangbo, P. Shan, Y. Zhang, X. Zhang, P.J. Lee, New Haven, CT, p.A7489

903 Antagomir of MicroRNA-34a Rescues Cellular Senescence in Bronchial Epithelial Cells of COPD Patients/J. Baker, C. Vuppusetty, K. Ito, P.J. Barnes, London, United Kingdom, p.A7490

904 Targeting the Phospholipase A2 Receptor (PLA2R1) and Its Downstream Effectors to Inhibit Lung Cell Senescence in Chronic Obstructive Pulmonary Disease (COPD)/A. Attwe, J. Huang, V. Amsellem, E. Marcos, M. Breau, K. Kebe, A. Houssaini, P. Validire, B. Maitre, D. Vindrieux, D. Bernard, S. Adnot, Creteil, France, p.A7491

905 Activation of the mTOR Pathway Drives Lung Cell Senescence and Emphysema in Chronic Obstructive Pulmonary Disease (COPD)/A. Houssaini, M. Breau, K. Kebe, S. Abid, E. Marcos, L. Lipskaia, D. Rideau, A. Parpaleix, J. Huang, V. Amsellem, B. Maitre, E. Bizard, N. Vienney, C. Luka, P. Validy, J. Boczkowski, G. Derumeaux, D. Bernard, S. Meiners, S. Adnot, Creteil, France, p.A7492

906 Mitochondrial Uncoupling Protein-2 Mediates Fibroblast Senescence in Age-Related Lung Fibrosis/S. Rangarajan, M.L. Locy, J.L. Larson-Casey, D. Chanda, D. Kurundkar, A. Kurundkar, K. Bernard, J.W. Zmijewski, J.S. Deshane, V. Darley-Usmar, V.J. Thannickal, Birmingham, AL, p.A7493

907 Lung Epithelial Stem Cells in the Development of Emphysema in Mice/A. Tsutsumi, H.E. Ahmad, M. Ozaki, H. Irie, N. Kameyama, S. Chubachi, T. Betsuyaku, Tokyo, Japan, p.A7494

908 Modeling ZAT-Driven Proteotoxicity Using CRISPR-Edited Syngeneic Patient-iPSCs/J. Kaserman, F.J. Molina Estevez, M. Higgins, G. Mostoslavsky, D.N. Kotton, A. Wilson, Boston, MA, p.A7495

909 Lung Fibroblasts of IPF Patients Display Senescence-Like Features In Vitro/M. Schuliga, D. Pechkovsky, D.W. Waters, E. Fogarty, N. Khalil, J.K. Burgess, J. Jaffar, G. Westall, C. Grainge, C. Hogaboam, D. Knight, Newcastle, Australia, p.A7496

910 Age-Dependent Decline in Lung Function in Cigarette Smoke-Induced Cellular Senescence and Airspace Enlargement in Mice/I.K. Sundar, J. Gerloff, I. Rahman, Rochester, NY, p.A7497

911 Forkhead BOX F1 as a Novel Regulator of Quiescence in Human Lung-Resident Mesenchymal Stem Cells/P. Cao, N. Walker, Y. Aoki, V.N. Lama, Ann Arbor, MI, p.A7498

912 Lymphangioliomyomatosis (LAM) Cell Survival Is Driven by IGF2-Induced STAT3 Activation/B.E. Himes, L. Lian, R. Rue, M. Shumyatcher, E.N. Atochina-Vasserman, V.P. Krymskaya, Philadelphia, PA, p.A7499

913 Human Mesenchymal Stem/Stromal Cells Increase Phagocytosis of IgG-Opsonized Targets in Human Monocyte-Derived Macrophages in Part by Enhancing Phagocytic Fc Receptor Expression/A. Volchuk, M. Jerkic, K. Szaszi, J. Laffey, S. Grinstein, G. Curley, Toronto, Canada, p.A7500

914 Nintedanib Reduces Ventilation-Augmented Bleomycin-Induced Epithelial-Mesenchymal Transition and Pulmonary Fibrosis Through Suppressing the Src Pathway/L.-F. Li, Taoyuan, Taiwan, p.A7501

915 Human Umbilical Cord Mesenchymal Stromal/Stem Cells Therapeutic Efficacy in an Animal Model of Systemic Sepsis Is Dose Dependent and Potentially Mediated by Heme Oxygenase 1/M. Jerkic, S. Gagnon, T. Ward-Able, G.F. Curley, J. Laffey, Toronto, Canada, p.A7502

916 Therapeutic Efficacy of Human Umbilical Cord Mesenchymal Stem Cell-Derived Extracellular Vesicles in Pre-Clinical Model of Acute Respiratory Distress Syndrome/A.K. Varkouhi, L. Ormesher, M. Jerkic, R. Rabani, C.C. Dos Santos, J. Laffey, G.F. Curley, Toronto, Canada, p.A7503

917 Mesenchymal Stromal Cells Use Extracellular Vesicle-Mediated Mitochondrial Transfer to Modulate Human Macrophage Phenotype Through Enhancement of Oxidative Phosphorylation in the In Vitro and In Vivo Models of the Acute Respiratory Distress Syndrome/T. Morrison, M. Jackson, D.F. McAuley, A. Kissenpfennig, C.M. O'Kane, A. Krasnodembskaya, Belfast, United Kingdom, p.A7504

918 Human Mesenchymal Stromal Cell Derived Conditioned Medium Delivered Directly to the Lung Ameliorates E.coli Pneumonia Acute Lung Injury in the Rat/J. Devaney, R. MacLoughlin, D. O'Toole, J. Laffey, Galway, Ireland, p.A7505

919 Multipotent Myoepithelial Cells Are Born Early During Airway Submucosal Gland Development/P.J. Anderson, T. Lynch, J. Engelhardt, Iowa City, IA, p.A7506

920 Epigenetic Histone-1 Modulator HMG5 Regulates Cellular Apoptosis in COPD Pathogenesis/R.S.J. Sarker, T.M. Conlon, J. Dorer, G. Burgstaller, L. Merthan, V. Gailus-Durner, H. Fuchs, M. Hrabe De Angelis, M. Bustin, T. Furusawa, O. Eickelberg, A.O. Yildirim, Neuherberg, Germany, p.A7507

921 Wnt Activity Marks Lung Progenitors Capable of Forming Spheres In Vitro/J.-P. Ng-Blichfeldt, C. Ota, J. Stolk, P. Hiemstra, R. Gosens, M. Konigshoff, Groningen, Netherlands, p.A7508



- 922** **Distal Pneumocyte Differentiation of Basal Epithelial Stem Cells by Inhibition of Notch Signaling During Ex Vivo Lung Regeneration**/S.E. Gilpin, T. Wu, X. Ren, D. Evangelista-Leite, H.C. Ott, Boston, MA, p.A7509
- 923** **Characterization of TCF21+ Lung Cells During Neo-Alveolarization**/J.A. Rodriguez-Castillo, A. Ntokou, A. Atzberger, M.D. Tallquist, W. Seeger, R. Morty, K. Ahlbrecht, Bad Nauheim, Germany, p.A7510
- 924** **Claudin-18 Is a Novel Regulator of Organ Size and Distal Lung Epithelial Stem/Progenitor Cell Homeostasis**/B. Zhou, P. Flodby, D.R. Castillo, J. Luo, F.-X. Yu, A. McConnell, B. Varghe, G. Li, P.S. Conti, Y. Liu, M. Sunohara, J.M. Liebler, P. Minoo, K. Guan, B.R. Stripp, E.D. Crandall, Z. Borok, Los Angeles, CA, p.A7511
- 925** **Disruption of Lineage Specification in Adult Pulmonary Mesenchymal Progenitors Alters Microvascular Function and Adaptive Angiogenesis Via Impairment of Pericyte Differentiation**/S.M. Majka, C. Gaskill, J. Kropski, M.M. Taketo, J.D. West, T.S. Blackwell, S. DeLanghe, D. Klemm, Nashville, TN, p.A7706

POSTER DISCUSSION SESSION

D109 UNDERSTANDING THE MECHANISMS OF ACUTE LUNG INJURY

1:30 p.m. - 3:30 p.m.

MARRIOTT MARQUIS WASHINGTON

Marquis Ballroom 1-2 (Level M2)

Poster Viewing

1:30-2:15

Discussion

2:15-3:30

Chairing: R.A. Oeckler, MD, PhD, Rochester, MN
S. Camhi, MD, Pittsburgh, PA

- 801** **Biodistribution of [F-18] FDG-Labeled Adult Bone Marrow-Derived Mesenchymal Stromal Cells with PET/CT Scan in an ARDS Sheep Model**/P. Aranda, D. Alvarez, N. Cardenes, J.P. Carney, J. Sellares, S. Mason, E. Kocyildirim, L. Lagazzi, B. Lopresti, J. Wolfram, A. Ting, C.C. Caufield, M. Rojas, Pittsburgh, PA, p.A7512
- 802** **Investigating the Effects of Protective and Non-Protective Ventilation After Acute Lung Injury Using Hyperpolarized [1-¹³C] Pyruvate**/M. Pourfathi, Y. Xin, S. Kadlecsek, M. Cereda, H. Profka, H. Hamedani, S. Siddiqui, I. Duncan, N. Drachman, R.R. Rizi, Philadelphia, PA, p.A7513
- 803** **Assessment of Lung Injury by MR Quantification of the Bicarbonate-to-Pyruvate Ratio in the Heart**/N. Drachman, S. Siddiqui, M. Pourfathi, S. Kadlecsek, R.R. Rizi, Philadelphia, PA, p.A7514
- 804** **Real-Time Wide Field of View Imaging of Stretch-Induced ATP Release in Rat Alveolar Type I and II Cells**/J.J. Tan, F. Boudreault, E. Brochiero, R. Grygorczyk, Montreal, Canada, p.A7515
- 805** **Acute Lung Injury (ALI) Affects the Relationship Between Regional Blood Volume and Perfusion**/A. Santos, N. De Prost, M.R. Tucci, G.C. Motta-Ribeiro, T. Wellman, M. Vidal Melo, T. Winkler, Madrid, Spain, p.A7516

- 806** **The Impact of Alkalizing Agents on Breathing Effort in Lung Injury Model Rabbits**/T. Yamashita, A. Uchiyama, Y. Koyama, Y. Fujino, Osaka, Japan, p.A7517
- 807** **THAM Administration Reduces Pulmonary Carbon Dioxide Elimination, Causing Rebound in Arterial Carbon Dioxide Tension. An Experimental Study in Hypoventilated Pigs**/G. Perchiazzi, S. Hostman, R. Kawati, A. Larsson, Uppsala, Sweden, p.A7518
- 808** **TNFR1 Inhibition Mitigates Susceptibility to Ventilator-Induced Lung Injury in Mice with Established ARDS**/C.M. Oakley, M. Wilson, K. O'Dea, J. Cordy, M. Takata, London, United Kingdom, p.A7519
- 809** **Blocking IL-6 in Rats Attenuates Mechanical Ventilation Lung Injury**/J. Potito, J. Marcos, D. Sotelo, P. Stringa, G. Laguens, M. Beldarrain, E.R. Corregger, F. Varela, Argentina, p.A7520
- 810** **Therapeutic Effects of Mesenchymal Stromal Cells and Extracellular Vesicles with or Without Prior Activation with Serum from Endotoxin-Induced Lung-Injured Mice in Experimental Acute Respiratory Distress Syndrome**/J. Silva, C. Braga, G. Oliveira, S. Trevelin, C. Barbosa Junior, M. Morales, C.C. Dos Santos, D.J. Weiss, P.R. Rocco, Rio de Janeiro, Brazil, p.A7521
- 811** **In Situ Alveolar Surface Tension After Exogenous Surfactant Treatment in an Acid Aspiration Acute Respiratory Distress Syndrome Model**/T.L. Nguyen, C.E. Perlman, Hoboken, NJ, p.A7522
- 812** **Oral Treatment with PBI-4050 Reduces Acute Lung Injury in an Acute Pancreatitis Model**/L. Gagnon, L. Geerts, B. Grouix, M. Tremblay, F. Sarra-Bournet, A. Felton, P. Laurin, Laval, Canada, p.A7523
- 813** **Plasminogen Reduces Acute Lung Injury in an Acute Pancreatitis Model**/L. Gagnon, L. Geerts, B. Grouix, M. Tremblay, F. Sarra-Bournet, A. Felton, P. Laurin, Laval, Canada, p.A7524
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- 607 Estrogen Receptor Status in Non Small Cell Lung Cancer in Females-A Hospital Based Study/R.A. Jan, S.J. Mir, S. Parveen, S. Shah, P. Koul, U. Hafiz, S. Mudassir, Srinagar, India, p.A7542**
- 608 The Influence of Intermittent Smoking Exposure on Lung Tumorigenesis in a Murine Model/N. Kameyama, S. Chubachi, H. Irie, A. Tsutsumi, H. Yasuda, I. Kawada, A.E.M. Hegab, M. Shimoda, T. Betsuyaku, Tokyo, Japan, p.A7543**
- 609 Enhanced Anti-Tumor and Anti-Angiogenic Effects of Apatinib Combined with Chemotherapy in a Zebrafish Model of Non-Small Cell Lung Cancer/W. Zhang, Z. Wu, Z. Qian, J. Zhou, W. Wang, X. Wang, J. Liu, Y. Feng, M. Zhou, Q. Li, G. Shi, B. Gao, Y. Xiang, Shanghai, China, p.A7544**
- 610 PM10 Induce Epithelial Mesenchymal Transition in Epithelial Cells Through TGF-B1/C.A. Garcia-Garcia, C.M. Garcia-Cuellar, F. Vaca-Paniagua, Y.I. Chirino, M. Santibanez-Andrade, Y. Sanchez-Perez, Mexico City, Mexico, p.A7545**
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- 613 Triptolide Potentiates Pemetrexed-Induced Lung Cancer Cell Death Via Heat Shock Protein 70 Inhibition/T.W. Choi, J.E. Park, M.A. Park, J.H. Lee, S.Y. Park, S.H. Lee, C.W. Choi, M.J. Park, J.-H. Yoo, H.M. Kang, Seoul, Korea, Republic of, p.A7548**
- 614 The Use of Replication-Selective Adenovirus in Detecting Circulating Tumor Cells in Lung Cancer/X.L. Yang, G.R. Zhang, H. Liu, Zhengzhou, China, p.A7549**
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- 616 A Novel Mouse Model of Malignant Pleural Effusion with Indwelling Pleural Catheter/C. Merrick, T. Sherrill, I. Psallidas, F. Maldonado, Nashville, TN, p.A7551**

RAPiD: RAPID ABSTRACT POSTER DISCUSSION

D110 CELLULAR AND MOLECULAR INVESTIGATIONS IN THORACIC ONCOLOGY

1:30 p.m. - 3:30 p.m. WALTER E. WASHINGTON CONVENTION CENTER

Room 206 (South Building, Level 2)

Abstract Summaries 1:30-2:00

Poster Viewing/Discussion 2:00-3:30

Chairing: M.B. Schabath, PhD, Tampa, FL
Z.G. Fridlender, MD, Jerusalem, Israel
K. Kiura, MD, PhD, Okayama, Japan
A.M. Houghton, MD, Seattle, WA

- 601 Safety and Importance of Longitudinal Low-Dose Micro-CT for Preclinical Studies: Evaluation in a Mouse Model of Lung Metastasis/G. Vande Velde, A. Hillen, F. Vanderhoydonc, J.V. Swinnen, E. Marien, Leuven, Belgium, p.A7536**
- 602 Role of Tumor Associated Macrophages and Fibroblasts in an FGF9-Induced Lung Adenocarcinoma Model/M. Ozaki, A. Hegab, Y. Kawakami, T. Kinoshita, Y. Yin, D. Ornitz, T. Betsuyaku, Tokyo, Japan, p.A7537**



- 617 Distinct Regulations of CD163⁺ Macrophages and Indoleamine 2,3-Dioxygenase in Lung Cancer and Infectious Disease/Y. Suzuki, M. Kono, H. Hozumi, M. Karayama, K. Furuhashi, N. Enomoto, T. Fujisawa, Y. Nakamura, N. Inui, T. Suda, Hamamatsu, Japan, p.A7552**
- 618 Host-Derived Interleukin-10 Promotes Murine Malignant Pleural Effusion/X.Z. Wu, Y. Wang, X.-Y. Shi, Beijing, China, p.A7553**
- 619 Comprehensive Genetic Mutation Analysis on Pleural Effusions Related to Lung Adenocarcinoma/A. Demaio, R.C. Dash, S. Sebastian, J.M. Clarke, M.M. Wahidi, K. Mahmood, Durham, NC, p.A7554**
- 620 Tumor Vaccination Combined with Checkpoint Blockade Cooperatively Inhibits Tumor Growth in a KRAS^{G12D} Murine Model of Non-Small Cell Lung Cancer (NSCLC)/R. Salehi-Rad, T. Walser, S. Ong, S.J. Park, S. Sharma, S. Dubinett, Los Angeles, CA, p.A7555**
- 621 Microsomal Prostaglandin E Synthase-1 Promotes Lung Metastasis by Enhancement of Accumulation of MDSCs from Bone Marrow/R. Takahashi, H. Amano, K. Eshima, A. Shizuo, M. Majima, Sagamihara, Japan, p.A7556**
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- 623 MCC950 a Novel Inhibitor of NLRP3 Inflammasome Reduces Migration and Invasion of Lung Adenocarcinoma In-Vitro/M. Siterman, S. Lengier, L. Zadik, N. Ofir, N. Nachmias, M. Rotem, M. Yadgar, Y. Schwarz, A. Bar-Shai, Tel Aviv, Israel, p.A7558**
- 624 Epidermal Growth Factor Receptor (EGFR)-Dependent Cell Growth Is Mediated by FXR-Facilitated Akt and Erk1/2 Activation in Non-Small Cell Lung Cancer/W. You, H. Jiang, Shanghai, China, p.A7707**



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