

# Final Program



# Welcome to San Francisco and the ATS 2025 International Conference

**A**s we prepare to gather in San Francisco for the ATS 2025 International Conference, the need for scientific collaboration, advocacy, and shared learning is heightened. The world is navigating an increasingly complex landscape – global health challenges, shifting policy environments, and economic and political uncertainties that threaten progress in science and medicine. In the face of these headwinds, our collective commitment to advancing pulmonary, critical care, and sleep medicine remains unwavering.

Together, academia, clinical practices, medical centers, industry and governments must champion evidence-based science, health equity, and the power of a global network dedicated to improving respiratory health.

The ATS International Conference is a time for us to come together to learn from each other, to reconnect with colleagues, and to inspire the next generation of physician scientists, PhD researchers, clinicians, and advocates. Our **Opening Ceremony** will set the stage for an incredible program, featuring a keynote from distinguished clinician educator **Kimberly D. Manning, MD, MACP**, that blends personal insight, professional expertise, and a compelling call to action for the future of the global respiratory community.

Following this, the **Plenary Session** will be anchored by the inspiring story of Mr. **Len Geiger**, a dynamic advocate for patient-centered care who will share his unique insights and experiences as an individual with alpha 1 antitrypsin deficiency and who underwent double lung-transplantation. His address will serve as a powerful example of how scientific breakthroughs by ATS mem-

bers have made a meaningful impact on patients' lives. The Session will also include highlights of groundbreaking research and emerging trends that will shape our field for years to come.

Beyond these cornerstone events, we encourage everyone to attend the **Women's Forum** and the **Diversity Forum** – two essential gatherings that celebrate the achievements and contributions of diverse voices in our community. These meetings provide invaluable opportunities for mentorship, dialogue, and networking as we continue to strive for a more inclusive and equitable future in medicine.

The heart of our conference lies in its scientific program, which offers a comprehensive and exciting slate of sessions spanning basic science, clinical research, medical education, and patient advocacy. As the premier conference for pulmonary, critical care, and sleep medicine, the ATS International Conference features the latest scientific reports in the field, combined with the latest clinical care guidelines and advocacy efforts for our patients and our professional future.

The **Basic Science Core theme** this year will explore the developmental origins of lung disease across the lifespan. Other major key sessions include:

- **Clinical Trials Session** – A two-hour session on Sunday, May 18, featuring recently released clinical trial data.
- **Keynote Series** – Unopposed programming from 8 – 8:45 a.m. Sunday through Tuesday, May 18 – 20.
- **Mid-day Symposia** – Covering topics such as generic drug development, artificial intelligence, and governmental agency involvement in respiratory health.
- **Journal Sessions**

- *The New England Journal of Medicine*, *AJRCCM* and *JAMA*: Highlighting high-impact papers from around the time of the conference.

- *Red Journal*: Featuring emerging in-

sights into airway nerve dysregulation and neuroimmune interactions in asthma and chronic cough.

- *ATS Scholar* – A hands-on, interactive session on the fundamentals of peer review for ATS journals.

There is something to learn for everybody, whether you're a basic scientist, a clinical researcher, a clinician, a trainee, or patient advocate. No matter your specialty or area of interest, you'll be able to network and forge partnerships that are critical to collaborations and career advancement.

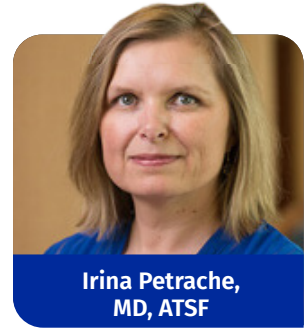
After the conference, attendees who register for the ATS 2025 Conference Highlights will gain access to a curated collection of recorded sessions for on-demand viewing.

We look forward to seeing you all in San Francisco as we engage in critical discussions, celebrate achievements, and blaze new trails together. Your participation is what makes ATS such a vibrant and impactful community.

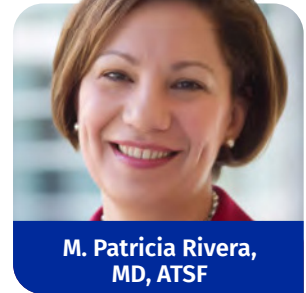
Let's make ATS 2025 a conference to remember! ■

**M. PATRICIA RIVERA, MD, ATSF**  
*President*  
**DEBRA BOYER, MD, MHPE, ATSF**

*Chair, International Conference Committee*



**Irina Petrache, MD, ATSF**



**M. Patricia Rivera, MD, ATSF**








## CLINICAL

## POSTGRADUATE COURSE

### PG1A CRITICAL CARE ULTRASOUND AND ECHOCARDIOGRAPHY I

 This is part 1 of a two-part course which includes PG1B on Saturday, May 17. Those registering for PG1A will be registered for PG1A and PG1B. Pre-registration and additional fees required. Attendance is limited.

|                   |                               |
|-------------------|-------------------------------|
| Member \$1,240    | In-Training Member \$945      |
| LMIC Member \$868 | LMIC In-Training Member \$662 |
| Non-Member \$1650 | In-Training Non-Member \$1070 |

**Assemblies on Critical Care, Clinical Problems, Nursing, Pediatrics**

**8:00 a.m. - 4:00 p.m.**

**Moscone Center**

Room 2005/2007 (West Building, Level 2)

#### Target Audience

Providers of critical care or emergency medicine; specialists in pulmonary hypertension, pulmonologists.

#### Objectives

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

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

This is a 2-day postgraduate course that consists of didactic lectures and hands-on stations. The focus is primarily transthoracic echocardiography, with some diagnostic ultrasound. The topics include basic and intermediate transthoracic echocardiography (including hemodynamic

measures), assessment of fluid status, procedural guidance for vasculocentesis, venography. The hands-on stations will include both healthy models and laptops that can demonstrate pathology.

**8:00 Welcome and Introduction to Critical Care Ultrasound: Training and Competency**

**8:20 Basic Physics, Artifacts, and Knobology**

**8:45 Transthoracic Windows and Views, FATE exam**

**9:15 Basic Evaluation of LV Systolic Function, Measurement of Cardiac Output**

**9:45 Basic Evaluation of RV Size and Function, Pulmonary Embolus**

**10:15 Break**

**10:30 Practical Skills Session: Hands-On Stations I**  
 •Apical Window  
 •Parasternal Window  
 •Subcostal Window

**12:00 Lunch**

**12:30 Lunch and Clinical Cases I**

**12:45 Chest Ultrasound**

**1:15 Valvulopathy and Endocarditis**

**1:45 Basic Assessment of Diastolic Function**

**2:15 Break**

**2:30 Practical Skills Session: Hands-On Station II**  
 • Lung Ultrasound  
 • Cardiac Output  
 • Diastolic Measurements

## CLINICAL

## POSTGRADUATE COURSE

### PG2 BRONCH DAY 2025: A COMPREHENSIVE, HANDS-ON GUIDE TO BASIC BRONCHOSCOPY, EBUS, AND GUIDED BRONCHOSCOPY

 Pre-registration and additional fees required. Attendance is limited.

|                   |                               |
|-------------------|-------------------------------|
| Member \$630      | In-Training Member \$405      |
| LMIC Member \$441 | LMIC In-Training Member \$284 |
| Non-Member \$735  | In-Training Non-Member \$530  |

**Assemblies on Clinical Problems, Thoracic Oncology**

**8:00 a.m. - 4:00 p.m.**

**Moscone Center**

Room 2001/2003 (West Building, Level 2)

**Target Audience**

Adult and pediatric pulmonologists and intensivists, thoracic surgeons, physicians in training, allied health professionals, 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 with benign and malignant respiratory diseases that require bronchoscopic intervention
- understand the indications for basic bronchoscopy, linear and radial endobronchial ultrasound and the skills necessary to perform these procedures
- improve knowledge of navigational and robotic bronchoscopy and strengthen these procedural skills

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 exposed to advanced skills such as linear EBUS, radial EBUS, navigational and robotic bronchoscopy. A series of lectures will be followed by intensive, hands-on stations. Through the use of physical and virtual reality simulators, participants will strengthen their procedural skills. This course is of particular interest to providers seeking to refine their bronchoscopy skills and who wish to review the most up-to-date data behind the various bronchoscopic techniques used today. Audience Response will be used during lectures.

- 8:00 Introduction**
- 8:05 Optimizing Basic Bronchoscopy Skills**
- 8:30 Maximize Bronchoscopic Outcomes in High Risk Patients**
- 8:55 Role of Flexible Bronchoscopy in Management of Hemoptysis**
- 9:20 Foreign Body Aspiration**
- 9:45 Break**
- 10:00 The Fundamentals of Linear EBUS**
- 10:25 Navigational Bronchoscopy: From Fluoroscopy to Robotics**
- 10:55 Bronchoscopic Lung Volume Reduction**
- 12:00 Practical Skills Session:**
- Bronchoscopy with Biopsy and Needle Aspiration
  - Bronchoscopy Management of Hemoptysis
  - Management of the Difficult Airway Including Trachostomy Tubes

- Techniques for Foreign Body Removal Using Flexible Bronchoscopy
- Navigational Bronchoscopy with Radial Endobronchial Ultrasound
- Robotic Bronchoscopy
- Endobronchial Ultrasound Anatomy
- Endobronchial Ultrasound-Guided Transbronchial Needle Aspiration
- Endobronchial Valves

**3:55 Wrap-Up**

*This session and the International Conference are supported by in-kind grants from Ethicon, FujiFilm Healthcare Americas Corporation, Intuitive, and Noah Medical.*

*All CME sessions have been planned and implemented in accordance with the Accreditation Criteria of the Accreditation Council for Continuing Medical Education (ACCME®) and are free of the control of ineligible companies (formerly commercial interests).*

**CLINICAL****POSTGRADUATE COURSE**

**PG3 ADVANCES IN THE MANAGEMENT OF COMPLEX SLEEP-DISORDERED BREATHING AND CHRONIC RESPIRATORY FAILURE**

**Pre-registration and additional fees required. Attendance is limited.**

|                   |                               |
|-------------------|-------------------------------|
| Member \$630      | In-Training Member \$405      |
| LMIC Member \$441 | LMIC In-Training Member \$284 |
| Non-Member \$735  | In-Training Non-Member \$530  |

**Assembly on Sleep and Respiratory Neurobiology**

**8:00 a.m. - 4:00 p.m.**

**Moscone Center**

**Room 2018 (West Building, Level 2)**

**Target Audience**

Health care providers who care for patients with complex sleep disordered breathing conditions and/or chronic respiratory failure syndromes, implement home assisted ventilation management including invasive and noninvasive ventilation.

**Objectives**

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

- know evidence based management of chronic hypercapnic and/or hypoxic respiratory failure conditions that would benefit from implementation of home mechanical ventilators and/or high flow oxygen

- learn strategies in transitioning patients with chronic respiratory failure requiring ventilatory support from hospital to home
- know how to manage home tracheostomy, use of leak speech and how to troubleshoot emergencies

This combined didactic and skills-based course aims to highlight state of the art, evidenced-based management of the spectrum of complex sleep disordered breathing to chronic respiratory failure, with a focus on neuromuscular respiratory failure, severe COPD, central sleep apnea secondary to opioids, diaphragmatic / phrenic nerve dysfunction, and chronic tracheostomy management. The skills-based section will focus on state of the art management of invasive and noninvasive ventilation with home mechanical ventilators and high flow oxygen, point of care diaphragmatic ultrasound, tracheostomy management in the home. Attendees will have the opportunity to participate in small group hands-on learning with faculty and apply these skills towards specific disease states to optimize patient care.

- 8:00 Introductions**
- 8:05 Non-invasive Ventilation in COPD - Personalizing Care Through Phenotypes**
- 8:30 Update on Sleep Disordered Breathing Secondary to Chronic Opioid Use**
- 9:00 Neuromuscular Respiratory Failure: Optimizing Ventilation and Quality of Life with Non-invasive Ventilation**
- 9:30 Break**
- 9:45 Respiratory Impairment Secondary to Phrenic Nerve and Diaphragmatic Dysfunction**
- 10:15 Transitioning Patients from ICU to Home with Non-invasive Ventilation**
- 10:45 Home Tracheostomy Management for the Adult and Pediatric Pulmonologist**
- 11:15 Safety and Monitoring Tips for Home Assisted Ventilation**
- 11:45 Lunch and Learn: Advances in Ambulatory High Flow Oxygen Systems - Case Based Discussion**
- 12:45 Practical Skills Session:**
- Basics of Point of Care Diaphragmatic Ultrasound High Flow Oxygen Systems
  - Home Mechanical Ventilators with Download Interpretation (Vivo 45LS and Luisa)
- 2:30 Break**

## 2:50 Practical Skills Session:

- Mouth Piece Ventilation for Adults and Children on Full Time Ventilation (Astral 150 and VOSCN)
- Tracheostomy Management and Leak Speech Ventilation for Adults and Children

*This session and the International Conference are supported by in-kind grants from Fisher and Paykel Healthcare, Passy-Muir, Inc., and React Health.*

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## BASIC • CLINICAL • TRANSLATIONAL

## POSTGRADUATE COURSE

## PG5 PULMONARY HYPERTENSION: WHAT YOU NEED TO KNOW TODAY

 Pre-registration and additional fees required. Attendance is limited.

|                   |                               |
|-------------------|-------------------------------|
| Member \$465      | In-Training Member \$275      |
| LMIC Member \$326 | LMIC In-Training Member \$193 |
| Non-Member \$570  | In-Training Non-Member \$405  |

**Assemblies on Pulmonary Circulation, Clinical Problems, Pulmonary Circulation, Respiratory Cell and Molecular Biology**

**8:00 a.m. - 4:00 p.m.**

**Moscone Center**

**Room 305-307 (South Building, Level 3)**

### Target Audience

Pulmonologists, Cardiologists, Hepatologists, Rheumatologists, Residents, Fellows, NP's, PA's, Nurses

### Objectives

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

- better diagnose PH, understand the nuances of management, and have a clearer understanding of disease pathobiology. This will improve patient care and outcomes
- better navigate discussions surrounding controversial topics in PH, such as risk stratification and treatment algorithms. This will improve patient care and outcomes
- audience will be better at identifying areas of future critical research and new upcoming technologies for diagnosis and treatment

This postgraduate course offers a comprehensive update on the 7th World Symposium in Pulmonary Hypertension (WSPH) held in Barcelona in 2024. It covers topics such as patient perspectives, advancements in disease mechanisms and genetics, clinical updates in diagnosis and therapy, novel imaging

for pulmonary vasculature, and right ventricle interactions. Discussions include evolving PH definitions and classifications, controversies in risk scores, and a fourth treatment pathway. The course addresses management of end-stage disease, special situation considerations, and clinical trial design. Updates on specific PH groups and discussions on challenges in health disparities, treatment access, and global guidelines are also included.

- 8:00 Introduction to PG, and Overview of the WSPH 2024**
- 8:10 What Do We Know about PAH Pathobiology and Mechanism of Disease**
- 8:30 Genetics and Genomics in PH**
- 8:50 Updates in PH Definition, Classification and Diagnosis**
- 9:10 The Nuts and Bolts of Accurate Diagnosis with RHC**
- 9:30 Break**
- 9:40 How Should We Manage PAH: Focus on Risk Stratification and Treatment Goals**
- 10:00 Updated Treatment Algorithm in PAH, Where Do We Fit the Fourth Pathway?**
- 10:20 End-Stage Disease: Transplantation, Support Technologies, and Palliative Care**
- 10:40 Special Situations in PAH Pregnancy, ICU, Perioperative**
- 11:10 How To Treat Cpcph in Patients with Group 2 PH?**
- 11:30 PH-ILD, How We Treat Based on What We Know and Don't Know**
- 11:50 Choosing the Right Therapy in CTEPH**
- 12:10 Lunch**
- 12:50 Small Group Discussion**
- 1:50 Don't Forget About the Little Ones! PH in Pediatric Patients and How Their Management Differ from Adults**
- 2:10 How Can I Help You? Shared Decision Making in the Era of Evidence-Based Medicine**
- 2:30 Break**
- 2:40 Emerging Therapies and Future Clinical Trial Design Considerations**
- 3:00 Can I Have Your Attention: Real World Community and Global PH Practice**

### 3:20 Challenges With Disparities in PH: Trials, Access, and Beyond

### 3:40 PH Guidelines: One Size Does Not Fit All

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**Merck & Co., Inc.**

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## CLINICAL

## POSTGRADUATE COURSE

### PG6 COMPLEX CARE OF CHILDREN WITH CHRONIC RESPIRATORY FAILURE

 **Pre-registration and additional fees required. Attendance is limited.**

Member \$465

In-Training Member \$275

LMIC Member \$326

LMIC In-Training Member \$193

Non-Member \$570

In-Training Non-Member \$405

#### Assembly on Pediatrics

**8:00 a.m. - 4:00 p.m.**

**Moscone Center**

**Room 201-202 (South Building, Level 2)**

#### Target Audience

Pediatric lung health providers, members of complex care teams, pediatric intensive care physicians and providers, nurses and respiratory therapists providing care to children with complex care needs

#### Objectives

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

- define new strategies to manage the care of children with chronic respiratory failure including patients with neuromuscular and chronic lung diseases
- improve the health status of patients with chronic respiratory insufficiency by better understanding of the role of lung health providers as members of chronic complex care teams
- apply the experience with upper and lower airway endoscopy and interpretation of airway sampling to the care of children with chronic respiratory insufficiency and lower airway disease

Chronic respiratory failure in children is caused by a heterogeneous group of diseases. A deep understanding of the underlying causes of respiratory insufficiency including restrictive lung disease, airway abnormalities, intrinsic lung disease, and pulmonary infections is required for successful care of these children. This didactic session will concentrate on management



of respiratory insufficiency and its underlying causes in children with common conditions such as neuromuscular diseases and bronchopulmonary dysplasia. Special attention will be given to the role that pediatric lung health specialists play in the multidisciplinary care of these children in the setting of a complex chronic care model.

- 8:00 Introduction**
- 8:05 Respiratory Involvement in Neuromuscular Disease**
- 8:40 Chronic Respiratory Failure in Children**
- 9:15 Break**
- 9:35 The Role of the Pulmonologist in Interdisciplinary Neuromuscular Care**
- 10:10 Home Ventilation Strategies for Children with Neuromuscular Disease**
- 10:45 Panel Discussion**
- 11:15 Lunch**
- 12:15 Upper and Lower Airway Endoscopy in Children With Neuromuscular Disease**
- 12:50 Interpretation of Lower Airway Bacterial Culture in Children with Tracheostomy**
- 1:25 Airway Clearance Strategies in Children With Neuromuscular Disease**
- 2:00 Break**
- 2:20 Scoliosis Surgery and Lung Health in Children With Neuromuscular Disease**
- 2:55 Strategies for Decannulation in Children with Bronchopulmonary Dysplasia**
- 3:30 General Discussion**

### CLINICAL

### POSTGRADUATE COURSE

## PG9 INTERSTITIAL LUNG DISEASE: IMPLEMENTING GUIDELINES FOR PATIENT CENTERED CARE

 Pre-registration and additional fees required. Attendance is limited.

|                   |                               |
|-------------------|-------------------------------|
| Member \$465      | In-Training Member \$275      |
| LMIC Member \$326 | LMIC In-Training Member \$193 |
| Non-Member \$570  | In-Training Non-Member \$405  |

## Assemblies on Clinical Problems, Allergy, Immunology and Inflammation, Behavioral Science and Health Services Research, Nursing, Pulmonary Circulation, Pulmonary Rehabilitation

**8:00 a.m. - 4:00 p.m.**

**Moscone Center**

**Room 303 (South Building, Level 3)**

### Target Audience

This session should be broadly relevant to those who provide clinical care for patients with ILD including pulmonary fellows, general pulmonologists, ILD specialists, and advanced care nurses.

### Objectives

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

- apply a consistent, effective strategy to ILD/IPF diagnosis
- understand the range of therapeutics available for ILD and how and when to prescribe them
- integrate a holistic and interdisciplinary approach to ILD patient care

This session will provide a practical approach to the diagnosis and management of patients with ILD. It will bring the most recent recommendations and guidelines into a usable strategy that will facilitate the care of patients with ILD. This will be accomplished through didactics, simulated MDD and panel discussion of difficult cases—providing a range of learning methods to reach the largest number of learners.

- 8:00 Introduction**
- 8:10 Clinical Evaluation of the New ILD Patient**
- 8:35 Applying the Guidelines: IPF, PFF and CPFE**
- 9:00 Applying the Guidelines: CTD-ILD**
- 9:25 Applying the Guidelines: Hypersensitivity Pneumonitis**
- 9:40 Break**
- 10:00 Familial ILD**
- 10:15 Risk Factors, Natural History, and Prognosis**
- 10:40 Speed MDD**
- 11:50 Lunch**
- 12:45 Therapies for Pulmonary Fibrosis**
- 1:10 Therapies for CTD-ILD**
- 1:35 The Critically Ill Patient with ILD**
- 1:55 Advanced Stages of ILD - PH and Lung Transplant**
- 2:20 Break**

2:40 Tough Cases

3:50 Wrap Up

*This session and the International Conference are supported by an independent medical educational grant from Boehringer Ingelheim Pharmaceuticals, Inc.*

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## CLINICAL

## POSTGRADUATE COURSE

## PG10 PULMONARY FUNCTION TESTING: STATE OF THE ART IN 2025

 Pre-registration and additional fees required. Attendance is limited.

|                   |                               |
|-------------------|-------------------------------|
| Member \$465      | In-Training Member \$275      |
| LMIC Member \$326 | LMIC In-Training Member \$193 |
| Non-Member \$570  | In-Training Non-Member \$405  |

**Assemblies on Respiratory Structure and Function, Clinical Problems**

8:00 a.m. - 4:00 p.m.

Moscone Center

Room 209-210 (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 including advanced care practitioners.

### Objectives

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

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

This course will focus on clinical lung function testing, combining guidelines from recent technical standards and the new interpretive strategies guideline with interactive experience in small group settings focusing on the performance, interpretation, and reporting of pulmonary function testing (PFT). We will combine didactic lectures with case-based instruction, small group discussion, and live demonstration of spirometry and diffusing capacity measurement. We will use a multidisciplinary team approach to facilitating case discussions including content experts, clinicians, respiratory therapists, and pulmonary function

laboratory medical directors. The course will conclude with a discussion of difficult cases by a diverse expert panel.

8:00 Introduction

8:05 Spirometry: State of the Art Measurement and Interpretation

8:30 Spirometry: Reference Equations and Significant Change

8:55 Assessment and Interpretation of Static Lung Volumes

9:20 Difficulty Capacity Assessment and Interpretation

9:40 Break

10:00 Pediatric Considerations in Pulmonary Function Testing

10:30 Real-time Demonstration of PFT Assessment and Troubleshooting

11:10 Small Group PFT Case Discussion

11:50 Lunch

12:40 The Use of Oscillometry in Clinical Practice

1:10 Bronchial Challenge Testing: State-of-the-art in 2025

1:50 Break

2:05 Complex Patterns in Pulmonary Function

2:35 Small Group PFT Case Discussion #2

3:10 Expert Panel Case Debate



## CLINICAL

## POSTGRADUATE COURSE

### PG1B CRITICAL CARE ULTRASOUND AND ECHOCARDIOGRAPHY II

This is part 2 of a two-part course which includes PG1A on Friday, May 16. Pre-registration and additional fees required. Attendance is limited. See PG1A for course fees.

Assemblies on Critical Care, Clinical Problems, Nursing, Pediatrics

8:00 a.m. - 4:00 P.M.

Moscone Center

Room 2005/2007 (West Building, Level 2)

#### Target Audience

Providers of critical care or emergency medicine; specialists in pulmonary hypertension, pulmonologists.

#### Objectives

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

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

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 laptops that can demonstrate abnormal pathology.

8:00 Vascular Ultrasound

8:25 Vascular Access

8:45 Tamponade

9:15 Using Ultrasound to Assess Intravascular Volume and Fluid Responsiveness

9:45 Ultrasound for Diuresis and Dialysis

10:15 Break

10:30 Practical Skills Session: Hands-On Stations III  
 • Vascular Ultrasound  
 • Tamponade Evaluation  
 • Volume Status

12:00 Lunch

12:30 Lunch and Neuroultrasound

12:45 Abdominal Ultrasound

1:15 Goal Directed Management of Shock Using Echocardiography

1:45 Incorporating Echocardiography Into Shock and CPR

2:15 Break

2:30 Practical Skills Session: Hands-On Station IV  
 • Abdominal Ultrasound  
 • Echo in Shock and CPRs  
 • Ask the Expert

## BEHAVIORAL • CLINICAL • TRANSLATIONAL

## POSTGRADUATE COURSE

### PG12 STATE OF THE ART: LUNG CANCER IN 2025

Pre-registration and additional fees required. Attendance is limited.

Member \$465

In-Training Member \$275

LMIC Member \$326

LMIC In-Training Member \$193

Non-Member \$570

In-Training Non-Member \$405

#### Assembly on Thoracic Oncology

8:00 a.m. - 4:00 P.M.

Moscone Center

Room 201-202 (South Building, Level 2)

#### Target Audience

All providers caring for patients with known or suspected lung cancer (pulmonologist, thoracic surgeons, radiation oncologist,

medical oncologist, APPs) and those interested in translational research in this field.

### Objectives

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

- review and understand recent advances and changes in the treatment of lung cancer
- understand the role of biomarker testing and the integral role played in treatment selection and response
- understand the changes to lung cancer staging guidelines and their impact on patient treatment and outcomes.

This course will provide a comprehensive review of topics in the evaluation and management of patients with known and suspected lung cancer. We will discuss recent developments in the areas of tobacco control, updated guidelines for pulmonary nodule management and staging for lung cancer, advances in lung cancer screening, invasive diagnostic approaches for patients with lung nodules and inoperable lung cancer, biomarkers across the spectrum of lung cancer, and updates in multimodal treatment approaches for lung cancer. Attention will be given to the potential disparities across the lung cancer continuum. Interactive tumor boards will be held to highlight these topics and encourage participant engagement.

- 8:00 Introduction**
- 8:05 The Shifting Epidemiology of Lung Cancer Globally: Implications for Clinical and Global Health Policy Research**
- 8:30 Updates in Lung Cancer Screening across the Globe**
- 8:55 We Can Cut Out More or Less; We Can Operate First or Last: The Flexibility of Thoracic Surgery in 2025**
- 9:20 Pulmonary Nodule Guideline Updates**
- 9:45 Break**
- 10:05 Updates in Multimodality Treatment for Lung Cancer: An Oncologist's Perspective**
- 10:30 Radiation Oncology for Lung Cancer: A Review of Current Best Practices for Treatment of Early-Stage Disease, Palliation, and Ongoing Trials**
- 10:55 Multidisciplinary Tumor Board**
- 11:30 Lunch**
- 12:35 Tobacco Treatment across the Lung Cancer Continuum as a Priority**
- 1:00 Lung Cancer Staging: Changes and Impact on Management and Outcomes**

- 1:25 The Importance of Biomarker Testing: What the Pulmonologist Should Know**
- 1:50 Addressing Disparities across the Lung Cancer Continuum**
- 2:15 Break**
- 2:35 Updates in Mesothelioma**
- 3:00 Multidisciplinary Tumor Board**
- 3:35 The Top 5 in Thoracic Oncology: This Year's Most Important Articles**

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**Merck & Co., Inc***

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## BASIC • TRANSLATIONAL

## POSTGRADUATE COURSE

### PG13 LUNG IMMUNITY AND RESPIRATORY INFECTION

- R Pre-registration and additional fees required. Attendance is limited.**
- |                   |                               |
|-------------------|-------------------------------|
| Member \$465      | In-Training Member \$275      |
| LMIC Member \$326 | LMIC In-Training Member \$193 |
| Non-Member \$570  | In-Training Non-Member \$405  |

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

**8:00 a.m. - 4:00 P.M.**

**Moscone Center**

**Room 205-206 (South Building, Level 2)**

### Target Audience

Providers of lung health; those serving a specific patient group or multiple groups; those with research and/or clinical 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:

- describe new findings about specialized elements of immunity within the lung
- improve research efforts relating to pulmonary immunology and respiratory infections



- apply knowledge of immunopathophysiology and immunoprotection to preventing and treating patients with or at risk for pneumonia

The session will provide an overview of immunity in the lung, how that lung immunity determines both the susceptibility to and the outcome of acute lower respiratory infection, and how those immune cells and processes drive protection or pathogenesis.

- 8:00 Resident and Recruited Macrophages in the Lung**
- 8:30 Neutrophils and Acute Lower Respiratory Infection**
- 9:00 Eosinophils Defend Against Respiratory Microbes**
- 9:30 Visualizing Immunity in the Lungs**
- 10:00 Break**
- 10:15 Microbiome Effects on Lung Immunity and Respiratory Infection**
- 10:45 Mechanisms of Lung Repair after Infection**
- 11:15 T Regulatory Cells Preventing Injury and Promoting Recovery**
- 11:45 Lunch**
- 12:45 Lung-Resident Immunity across the Life-Course**
- 1:15 Immunological Factors Dictating Severity of Acute Respiratory Infection**
- 2:30 Co-Morbidities and Susceptibility to Respiratory Infection**
- 3:00 Stimulating Lung Innate Immunity to Prevent Respiratory Infection**

### CLINICAL • TRANSLATIONAL

### POSTGRADUATE COURSE

#### PG14 UPDATES ON LUNG TRANSPLANTATION: WHAT PULMONOLOGISTS NEED TO KNOW

 Pre-registration and additional fees required. Attendance is limited.

|                   |                               |
|-------------------|-------------------------------|
| Member \$465      | In-Training Member \$275      |
| LMIC Member \$326 | LMIC In-Training Member \$193 |
| Non-Member \$570  | In-Training Non-Member \$405  |

**Assemblies on Clinical Problems, Allergy, Immunology and Inflammation, Critical Care**

**8:00 a.m. - 4:00 P.M. Moscone Center**

Room 215-216 (South Building, Level 2)

#### Target Audience

Providers caring for patients with advanced stage lung diseases

that could benefit from lung transplant, pulmonologists, surgeons, physical therapists, pharmacists, trainees interested in lung transplant, transplant pulmonologists and surgeons.

#### Objectives

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

- better understand the indications and proper timing of referral for lung transplantation as well as optimization of end stage lung disease prior to listing to ensure optimal outcomes
- understand the process of donor selection and optimization, peri-operative care of lung transplant including mechanical ventilation and ECMO support
- recognize various causes of acute and chronic allograft dysfunction and how to utilize the current methods to diagnose and treat them

This session will provide a comprehensive review and updates of important topics of lung transplant that are highly relevant to ATS attendees. The audience will learn about indications, proper referral, optimization and selection of lung transplant recipients and donors, perioperative care and complications as well as acute and chronic lung allograft dysfunction and long term outcomes of lung transplant.

- 8:00 Introduction**
- 8:05 Indications and Timing of Referral for Lung Transplant; Who and When?**
- 8:30 Optimization of Lung Transplant Recipients: How Can It Be Achieved?**
- 8:55 Is My Patient Ready for Listing, Science or Art and How Can We Quantify Readiness**
- 9:20 Is the New Allocation System Helping My Patient's Chances to Be Transplanted? CAS v. LAS and What Can We Do?**
- 9:45 Panel Discussion**
- 10:00 Break**
- 10:10 Perioperative Care of Lung Transplant, Mechanical Ventilation, ECMO, and Other Critical Care Treatments**
- 10:35 Airway and Vascular Complications Mimicking Acute Rejection**
- 11:00 Primary Graft Dysfunction, Is It Just a Post-op ALI or Much More and What Can Be Done to Minimize Its Risk**
- 11:25 Panel Discussion**
- 11:40 Lunch**

- 12:40 Antibody Mediated Rejection- What's New in Risk and Management?**
- 1:05 Biomarkers and Therapeutic Targets: PFT, BAL, Liquid Biopsy, and Biologics**
- 1:30 Acute Cellular Rejection- Updates on Diagnosis and Management**
- 1:55 Panel Discussion**
- 2:10 Break**
- 2:20 CLAD; Diagnosis and Management- Anything New or All Doom and Gloom?**
- 2:45 Quality of Life Post Lung Transplant- How Much Are We Really Helping Our Patient With End Stage Lung Diseases by Doing a Lung Transplant**
- 3:10 Retransplant for CLAD- Indications, Outcomes, and Ethical Implications**

### BASIC • TRANSLATIONAL

### POSTGRADUATE COURSE

## PG15 INTEGRATIVE LUNG BIOINFORMATICS: FROM DATA TO DISCOVERY

 Pre-registration and additional fees required. Attendance is limited.

|                   |                               |
|-------------------|-------------------------------|
| Member \$465      | In-Training Member \$275      |
| LMIC Member \$326 | LMIC In-Training Member \$193 |
| Non-Member \$570  | In-Training Non-Member \$405  |

**Assemblies on Respiratory Cell and Molecular Biology, Respiratory Cell and Molecular Biology; Phd and Basic and Translational Scientists working Group (PBTS WG)**

**8:00 a.m. - 4:00 P.M. Moscone Center**

Room 305-307 (South Building, Level 3)

### Target Audience

Researchers with limited computational biology background wishing to gain these skills.

### Objectives

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

- independently analyze your own single-cell RNA-Seq dataset using easy-to-use only tools without prior expertise
- identify known or novel cell populations with altered gene expression programs in diverse lung diseases
- explore lung spatial imaging and transcriptomics

In this interactive workshop, we will introduce a series of web-based bioinformatics applications to explore, visualize and analyze diverse

molecular omics and imaging lung resources. The focus will be on existing tools and protocols developed by the LungMAP, HCA, ArchMap.bio and HuBMAP. In particular: 1. Interactive exploration of single-cell genomic datasets 2. Tools to explore lung cell type biology and gene regulatory programs. 3. Best practices for single-nuclei RNA/ATAC data generation. 4. Web-based and AI tools to analyze and interpret user provided scRNA-Seq. 5. Interactive exploration of spatial imaging and transcriptomic/proteomic datasets. 6. Integrative omics comparisons between technologies

**8:00 Multi-omic Data Exploration at LungMAP.net**

**8:20 Defining Healthy and Disease Single-Cell Heterogeneity with ArchMap**

**8:40 Surveying Signatures of the Lung with ToppCell and ToppGene**

**9:00 Integrative Analyses of Lung Molecular Omics Data with LGEA**

**9:20 Break**

**9:35 Analyzing Single-Cell Genomics in the Cloud with Terra.bio**

**9:55 Exploring Lung Spatial Imaging and Transcriptomics**

**10:15 Best Practices for Single-Cell Data Generation and Analysis**

**10:35 Lunch**

**11:20 Workstation Round Robin**

**1:40 Break**

**1:55 Workstation Round Robin**

**3:40 Discussion and Follow Up**

### CLINICAL

### POSTGRADUATE COURSE

## PG16 CARDIOPULMONARY EXERCISE TESTING: ADVANCES AND APPLICATIONS

 Pre-registration and additional fees required. Attendance is limited.

|                   |                               |
|-------------------|-------------------------------|
| Member \$465      | In-Training Member \$275      |
| LMIC Member \$326 | LMIC In-Training Member \$193 |
| Non-Member \$570  | In-Training Non-Member \$405  |

**Assemblies on Pulmonary Rehabilitation, Clinical Problems, Respiratory Structure and Function**

**8:00 a.m. - 4:00 P.M. Moscone Center**

Room 209-210 (South Building, Level 2)

**Target Audience**

CPET lab directors, attending physicians, clinical physiologists, exercise physiologists, clinical fellows, research fellows.

**Objectives**

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

- better understand the physiologic principles of CPET that determine the pulmonary, cardiovascular and neuromuscular responses to exercise in health, and how these are modified in chronic cardiopulmonary diseases
- better understand the utility of CPET to: 1) assess mechanisms of dyspnea and exercise intolerance, 2) stratify disease severity or prognosis, 2) assess safety and prescription for exercise training or pulmonary rehabilitation
- develop confidence in understanding the integrated physiologic responses during CPET, the application of CPET and the interpretation of CPET responses in clinical practice

This course focuses on cardiopulmonary exercise testing (CPET). This includes education on the physiologic basis for CPET, current guidelines, quality control and advances in CPET methods to assess the pulmonary system and central hemodynamics dynamics during exercise. Interpretative strategies and common CPET responses in disease states will be presented in didactic sessions and followed by practice-based learning in an interactive small group setting. Learners will be supported during practice-based learning by expert Faculty. The inclusion of a live CPET demonstration will complement the didactic sessions and highlight the multidisciplinary components necessary for performing high-quality CPET.

|              |   |
|--------------|---|
| <b>8:00</b>  | <b>Physiologic Basis for CPET</b>                             |
| <b>8:45</b>  | <b>Understanding Pulmonary System Limitations to Exercise</b> |
| <b>9:15</b>  | <b>Questions and Answers</b>                                  |
| <b>9:30</b>  | <b>Break</b>  |
| <b>9:45</b>  | <b>Exercise and the Heart: Invasive CPET</b>                  |
| <b>10:30</b> | <b>Use of CPET in Exercise Rehabilitation Programs</b>        |
| <b>11:00</b> | <b>Conducting the Test: Practical Issues 1</b>                |
| <b>11:30</b> | <b>Lunch</b>  |
| <b>12:00</b> | <b>Live CPET Demonstration 1</b>                              |
| <b>12:45</b> | <b>Quality Control and Troubleshooting</b>                    |
| <b>1:15</b>  | <b>Data Analysis from Graphic Display</b>                     |
| <b>1:45</b>  | <b>Break</b>  |
| <b>2:00</b>  | <b>Reference values</b>                                       |

**2:30**    **Spectrum of CPET Responses Among Disease States: Pulmonary**

**2:45**    **Spectrum of CPET Responses Among Disease States: Cardiovascular**

**3:00**    **Making the Case - Round Table Discussions**

**CLINICAL****POSTGRADUATE COURSE**

**PG17**    **OCCUPATIONAL AND ENVIRONMENTAL LUNG DISEASE 101: DOES MY PATIENT HAVE OCCUPATIONAL LUNG DISEASE?**

**R** Pre-registration and additional fees required. Attendance is limited.

|                   |                               |
|-------------------|-------------------------------|
| Member \$465      | In-Training Member \$275      |
| LMIC Member \$326 | LMIC In-Training Member \$193 |
| Non-Member \$570  | In-Training Non-Member \$405  |

**Assembly on Environmental, Occupational and Population Health**

**8:00 a.m. - 4:00 P.M.**

**Moscone Center**

**Room 207-208 (South Building, Level 2)**

**Target Audience**

Residents, fellows, non-physician caregivers and early career professionals who care for patients with occupational and environmental lung disease.

**Objectives**

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

- establish a framework for evaluating whether occupational and environmental exposures are associated with chronic lung disease to improve patient care
- apply principles of occupational and environmental lung disease to establish causality across a range of chronic pulmonary conditions
- evaluate and remediate drivers of chronic lung disease in patients with an occupational or environmental exposure

Occupational and environmental exposures are an important, and often unrecognized driver of chronic lung disease. In this session, we will provide a structured, clinically focused introduction to the evaluation and diagnosis of occupational lung disease, with a focus on practical guidance of topics important for providers caring for these patients. These will include an overview of, including workers compensation, medical depositions and establishing how to establish causation and how to give a medical deposition.

|       |   |
|-------|---|
| 8:00  | Opening Remarks   |
| 8:10  | How Do I Ask? A Clinician's Approach                        |
| 8:40  | Workers Compensation - How Do I Establish Causation?        |
| 9:10  | How Will Imaging Help? A Radiologist's Approach             |
| 9:40  | Break   |
| 9:55  | Wheezing on the Job - Occupational Obstructive Lung Disease |
| 10:25 | Medical Surveillance- Screening and Potential Downsides     |
| 10:50 | Break   |
| 11:05 | The Lingering Effects of Military Deployment                |
| 11:25 | Occupational Lung Disease in Cannabis Workers               |
| 11:45 | Engineered Stone Silicosis: Worker Outreach and Advocacy    |
| 12:05 | Lunch   |
| 1:05  | When the Exposure is Coming from Inside                     |
| 1:35  | Occupational Exposures and Interstitial Lung Disease        |
| 2:05  | Break   |
| 2:25  | So You've Been Deposed- Now What?                           |
| 3:25  | So Your Patient Needs a Respirator- Now What?               |
| 3:55  | Closing remarks   |

## CLINICAL

## POSTGRADUATE COURSE

## PG19 A SWAN DIVE INTO HEMODYNAMICS: MASTERING PULMONARY ARTERY CATHETERS

 Pre-registration and additional fees required. Attendance is limited.

|                   |                              |
|-------------------|------------------------------|
| Member \$235      | In-Training Member \$140     |
| LMIC Member \$165 | LMIC In-Training Member \$98 |
| Non-Member \$290  | In-Training Non-Member \$210 |

Assemblies on Pulmonary Circulation, Critical Care

12:00 P.M. - 4:00 P.M.

Moscone Center

Room 304 (South Building, Level 3)

### Target Audience

Cardiopulmonary providers, intensivists, providers using or

encountering pulmonary artery catheters, trainees and staff (nurses, PA/NP) encountering or using pulmonary artery catheters

### Objectives

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

- learn expert procedural technique for catheter insertion, preparation, and troubleshooting. Learners will be able to safely acquire accurate, reliable, and reproducible cardiopulmonary hemodynamic data using pulmonary artery catheters
- assess pulmonary artery catheter waveforms and interpret resulting hemodynamic data, quantify flow through the cardiopulmonary system, calculate shunting. Learners will be able to confidently interpret PAC data to guide management
- recognize the application of PAC in the ICU and the role of exercise testing. Learners will be comfortable recognizing when to use the PAC to guide management in the ICU and how to exercise can help with challenging clinical cases

This course will review the setup, technical considerations, and interpretation of waveforms and data regarding pulmonary artery catheters in both the outpatient and intensive care unit settings. Using both case-based lectures and small group practice sessions interpreting cases led by experienced faculty, learners will enhance their understanding of how to correctly acquire data using pulmonary artery catheters, how to troubleshoot during the procedure and ensure high-quality data capture, how to apply this technique to the outpatient and ICU settings, and how to interpret the resulting data to guide clinical decision-making.

### 12:00 Nuts and Bolts of Performing Right Heart Catheterization

### 12:20 Case Based Discussion

### 12:45 Waveforms, Cardiac Output Calculations and Vasoreactivity Testing, Oh My!

### 1:10 Break

### 1:15 Breakout Session 1

### 2:00 Welcome to the Jungle: RHC Applications in the ICU

### 2:25 Exercise RHC: Who, What, When, Why and How

### 2:50 Case based discussion 2

### 3:15 Break

### 3:20 Breakout Session 2



CLINICAL

POSTGRADUATE COURSE

PG20 TACKLING OBESITY IN PATIENTS WITH SLEEP-DISORDERED BREATHING

Pre-registration and additional fees required. Attendance is limited.

|                   |                              |
|-------------------|------------------------------|
| Member \$235      | In-Training Member \$140     |
| LMIC Member \$165 | LMIC In-Training Member \$98 |
| Non-Member \$290  | In-Training Non-Member \$210 |

Assemblies on Sleep and Respiratory Neurobiology, Behavioral Science and Health Services Research

12:00 P.M. - 4:00 P.M. Moscone Center  
Room 303 (South Building, Level 3)

Target Audience

Pulmonary and sleep medicine healthcare providers, pulmonary and sleep medicine trainees/fellows, pulmonary and sleep medicine nurses, and members of the SRN, CP, and BSHSR assemblies.

Objectives

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

- learn about the current approaches for the management of obesity
- understand how to facilitate the care of patients with sleep-disordered breathing and obesity
- apply this knowledge to improve the health and quality of life in patients with sleep-disordered breathing and obesity

This half-day post-graduate course will focus on advances in the management of obesity for adults with sleep-disordered breathing (SDB). Didactic sessions will address the variety of weight loss methods currently being utilized as well as upcoming novel medications and approaches. Additional sessions will focus on how best to deliver care to SDB patients with obesity and the role that sleep providers play.

- 12:00 The Global Obesity Epidemic
- 12:10 Lifestyle: Not Just a Starting Point
- 12:30 Shedding the Weight: How Bariatric Surgery Cuts through Obstructive Sleep Apnea
- 12:50 Beyond the Scalpel: Bariatric Endoscopy
- 1:10 The New Frontier: GLP-1 Agonists and Beyond
- 1:40 Break
- 1:50 Developing Expertise: Training Pathways for Obesity Medicine

- 2:10 Pro-Con Debate- Sleep Providers Should Prescribe GLP-1 Agonists- Pro
- 2:30 Pre-Con Debate- Sleep Providers Should Prescribe GLP-1 Agonists- Con
- 2:50 Break
- 3:00 What's Weight Got to Do With It: The Impact of Weight Loss on Obstructive Sleep Apnea
- 3:15 Obesity in Sleep-Disordered Breathing: The Big Picture
- 3:45 Panel Discussion

## OPENING CEREMONY

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

### Moscone Center

Esplanade Ballroom (Upper Mezzanine, South Building)

Kimberly D. Manning, MD, MACP, will kick off the ATS 2025 International Conference as the Opening Ceremony speaker. Dr. Manning is a trailblazing physician, educator, and storyteller whose impact resonates far beyond medicine.

A Professor of Medicine in the Division of General Internal Medicine at the Emory School of Medicine, Dr. Manning is known for her innovative approach to medical education. She has been recognized nationally for her mentorship and teaching, as well as her blogging and public speaking.

Dr. Manning's storytelling prowess shines through her social media presence, her podcast The Human Doctor, and her writing in esteemed journals such as JAMA and The Lancet. She has a passion for teaching and working to bring out the everyday lessons in patient care that sometimes get missed.

Attendees can look forward to an inspiring address that blends personal insight, professional expertise, and a compelling call to action for the global respiratory community to strive for a more inclusive and compassionate future.

The latest class of ATS Fellows and Research Program awardees will be recognized. The Public Service Award, World Lung Health Award, Jo Rae Wright Award for Outstanding Science, and the J. Randall Curtis Humanism Award will be presented.

### Chair and Introduction: Irina Petrache, MD, ATSF

*The ATS thanks Boehringer Ingelheim Pharmaceuticals, Inc. for its support of the ATS 2025 Opening Ceremony.*

## NETWORKING SUPER CENTER


Stop by the Networking Super Center to visit the ATS Center, the International Participants Center, and the Learning Studio. The Learning Studio and the International Participants Center offer unique programming, and the ATS Center hosts resources to help you maximize your conference experience.

**COLLABORATE, EDUCATE, CONNECT AND LEARN**

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

## THE NETWORKING EXCHANGE FOR EARLY CAREER PROFESSIONALS

The Network Exchange is a welcome event for all Early Career Professionals (residents, fellows, post docs, IP members, and other medical professionals) and takes place on Saturday following the Opening Ceremony. This one-hour event allows attendees to network and mingle with peers as well as provides information at the start of the conference.

 **This event is free to paid conference registrants**

# ATS 2025 International Conference

 **ATS 2025** San Francisco, CA

**Sunday Morning, May 18**

## MEET THE EXPERT SEMINARS

 Pre-registration and additional fees required. Attendance is limited.

\$100 Member/Non-Members

\$70 LMIC Member/LMIC Non-Members

**10:45 a.m. - 11:45 a.m.**

**Moscone Center**

- MTE1 CHOOSING AND MONITORING IMMUNOSUPPRESSION IN ILD PATIENTS**  
Room 20, Hall E (North Building, Exhibition Level)
- MTE2 MAKING WAVES: OSCILLOMETRY BASICS AND INTERPRETATION FOR CLINICAL AND RESEARCH APPLICATION**  
Room 308 (South Building, Level 3), Moscone Center
- MTE3 THE APPROACH TO A MALIGNANT PLEURAL EFFUSION**  
Room 311 (South Building, Level 3)
- MTE4 BRONCHIECTASIS - MORE THAN A CASE OF CHRONIC COUGH**  
Room 21, Hall E (North Building, Exhibition Level)
- MTE5 THE EVALUATION OF RECURRENT PULMONARY INFECTIONS: IDENTIFICATION OF PRIMARY IMMUNODEFICIENCY AND DIFFERENTIAL DIAGNOSIS**  
Room 312 (South Building, Level 3)

- MTE6 HITCHHIKER'S GUIDE TO NAVIGATING SINGLE CELL RNA SEQUENCING: CRITICAL INSIGHTS FOR USERS**  
Room 313 (South Building, Level 3)
- MTE9 HAS THE TIME COME TO AIM FOR ASTHMA REMISSION?**  
Room 22, Hall E (North Building, Exhibition Level)
- MTE10 ANSWERING DIFFICULT CLINICAL QUESTIONS IN MANAGEMENT OF SARCOIDOSIS**  
Room 314 (South Building, Level 3)

## KEYNOTE SERIES

**8:00 a.m. - 8:45 a.m.**

**Moscone Center**

Esplanade Ballroom (South Building, Upper Mezzanine)

The Fran Comi Keynote Lecture will focus on:

### **K1 PROVIDING HEALTH CARE FOR UNHOUSED INDIVIDUALS**

The ATS Keynote Series focuses on timely topics of high relevance to the pulmonary, critical care, and sleep medicine community. Keynote lectures feature leaders who have made major contributions in the important themes programmed at the 2025 conference and are unopposed by any other programming.

## CLINICAL

## YEAR IN REVIEW

### **A1 CLINICAL YEAR IN REVIEW**

**9:15 a.m. - 10:45 a.m.**

**Moscone Center**

Esplanade Ballroom (Upper Mezzanine, South Building)

#### **Target Audience**

Pulmonary, critical care, and sleep providers. The program will discuss topics of interest to a broad group of providers. The program is relevant to not only clinicians, but also to researchers and administrators.

#### **Objectives**

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

- apply new clinical research knowledge to clinical practice

- learn new findings about key conditions in pulmonary, critical care and sleep
- have new strategies to manage the care of common conditions in pulmonary, critical care, and sleep

This program has been developed to include core topics in pulmonary, critical care, and sleep medicine. The goal of the session is to discuss critical state-of-the-art topics and evolving concepts. The learner will be exposed to a carefully curated review of the current literature by emerging leaders in the field. After the course, participants will better understand novel concepts in each specific domain that we hope will translate to improved patient care.

**9:15 Asthma**

**9:37 Interventional Pulmonary**

**10:00 Pulmonary Function Tests**

**10:22 Sleep**

## CLINICAL

### CHAIR'S SYMPOSIUM

## A2 VACCINES IN THE CROSSHAIRS: FACING CONTEMPORARY CHALLENGES IN IMMUNIZATION SCIENCE

**9:15 a.m. - 10:45 a.m.**

**Moscone Center**

Room 215-216 (South Building, Level 2)

### Target Audience:

All attendees

### Objectives:

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

- learn about current and new vaccines against respiratory infections
- improve our understanding on vaccine hesitancy using real world information
- apply current landscape on vaccine policies and its impact on implementation and patient outcomes

The symposium addresses one of the most pressing health challenges of our time: sustaining the impact and equity of vaccines amidst scientific, societal, and political disruptions. Vaccines remain among the most effective tools in preventing infectious diseases and reducing morbidity and mortality, especially in respiratory infections where global health burdens

remain disproportionately high. However, their success is increasingly threatened by vaccine hesitancy, misinformation, inequitable access, and evolving policy landscapes. This session brings together multidisciplinary experts to highlight the continuum of vaccine development and implementation-from basic immunological discovery to public health delivery. Presentations will explore the latest advances in respiratory vaccine research, including novel platforms and host-directed strategies that promise to transform prevention for diseases such as influenza, RSV, and emerging coronaviruses. The session will also address real-world barriers that undermine vaccine uptake and coverage, including declining public trust, fragmented policies, and global inequities in vaccine access. This timely program will engage clinicians, researchers, and policymakers in advancing the next generation of respiratory vaccine science while reinforcing the foundational role of public trust and policy in global immunization efforts.

**9:15 From Bench to Breakthrough: Cutting-Edge Research in Respiratory Vaccine Development**

**9:35 The Trust Crisis and Countering Vaccine Hesitancy: Lessons from the ATS/CDC/CMSS Vaccine Initiative**

**9:55 Vaccine Policy in Flux: Balancing Science, Policy, and Public Health**

**10:15 The Global Immunization Divide: Overcoming Barriers to Universal Vaccine Coverage**

**10:35 SPanel Discussion**

## BEHAVIORAL

### SCIENTIFIC SYMPOSIUM

## A3 FELLOWS CASE CONFERENCE

**Assembly on Behavioral Science and Health Services Research**

**10:45 AM – 11:45 AM**

**Moscone Center**

Room 24, Hall E (North Building, Exhibition Level)

### Target Audience

Advanced practice providers, clinicians, early career professionals, interprofessionals, interventional pulmonologists, medical educators, nurses

### Objectives:

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

- recognize clinical, radiographic, and pathologic findings of rare diseases



- gain insight into clinical decision-making skills demonstrated by master clinicians, radiologists, and pathologists which will improve the quality of learners' practice and potentially improve the 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

Four unknown cases will be presented by adult PCCM fellows to a panel of experts in a traditional Clinical Pathology Conference (CPC) format. The panel of experts includes three master clinicians (Anne Dixon, Patricia Rivera, and Eric Schmidt), a chest radiologist (Brett Elicker), and a pathologist (Kirk Jones). The clinician experts will discuss the key clinical elements of the history and a differential diagnosis. The expert radiologist and pathologist will interpret the imaging and pathology, respectively, which the expert clinicians will use to further discussion and make a diagnosis. High yield summarizing teaching points will be incorporated into each presentation.

- 9:15**    **Foreshadowing Trouble" or "Revealing a Pulmonary Pretender**
- 9:27**    **Expert Clinician**
- 9:35**    **Interstitial Intrigue: Unmasking the Invisible**
- 9:47**    **Expert Clinician**
- 9:55**    **Immune to the Clues: Unraveling the Mystery**

### CLINICAL

### CRITICAL CARE TRACK

## A4    SPEAKING BUT NOT HEARD: DISPARITIES IN GERIATRIC CRITICAL CARE

Assembly on Critical Care

9:15 a.m. - 10:45 a.m.

Moscone Center

Room 3005/3007 (West Building, Level 3)

### Target Audience

Critical care providers (MDs, RNs, OTs, PTs) Research scientists focused on family involvement in patient care, delirium, post-ICU outcomes, geriatric care

### Objectives

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

- identify disparities in the aging population in multiple care settings
- identify unique barriers to high quality care that minoritized older adults face in the ICU

- identify strategies to address disparities in older, under-represented communities

As the proportion of older adults in the community grows and our population in the United States becomes increasingly more diverse, racial and ethnic healthcare disparities in the Intensive Care Unit (ICU) are likely to intensify. Barriers to equitable, high-level care include language discordance, disparities in sedation and analgesia practices, and racism in provider-patient communication. Older ICU patients are uniquely vulnerable to these care differences. In this session, we will discuss disparities in geriatric critical care and ICU recovery, as well as proposed strategies to improve communication and promote equity in our ICUs.

- 9:15**    **How Does Ethnicity Influence ICU Care of Minoritized Older Adults?**
- 9:27**    **The Impact of Language Discordance on ICU Delirium Care**
- 9:39**    **Practical Strategies to Improve Implementation of the ICU Liberation Bundle in Non-English Speaking Patients**
- 9:49**    **Practical Strategies to Improve Implementation of the ICU Liberation Bundle in Non-English Speaking Patients Part 2**
- 9:59**    **Understanding the Impact of Race in End-of-Life Communication in ICU Patients**
- 10:11**    **How Health Care Disparities Impact the Recovery from Critical Illness for Older Adults**
- 10:23**    **Reducing Disparities in Rural ICU Care**

### CLINICAL

### SCIENTIFIC SYMPOSIUM

## A5    FROM CRADLE TO CHRONIC DISEASE: WHEN DEVELOPMENTAL PROGRAMMING PROMOTES DISEASE BEFORE YOU KNOW IT

Assembly

9:15 a.m. - 10:45 a.m.

Moscone Center

Room 3001/3003 (West Building, Level 3)

### Target Audience

All attendees

### Objectives

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

- recognize the interplay between alveolar and vascular development
- understand how early life exposures and events may alter the trajectory of lung development and subsequent growth, leading to increased risk for lung disease in adulthood

There is growing recognition that abnormal lung development contributes to lung disease across the lifespan. Further, there is a unique interplay between alveolar and vascular development that may uniquely influence disease presentation. The proposed session will review how early life events impact lung development and may alter the progression of disease or subsequent presentation across the lifespan

**9:15 Early Life Programming of Airway Development and Disease Trajectory**

**9:33 Early Life Programming of Vascular Development and Disease Trajectory**

**9:51 Early Life Exposures that Influence Later Asthma Risk**

**10:09 Developmental Origins of COPD: Evidence from Genome-Wide Association Studies**

**10:27 Impact of Prematurity on the Pulmonary Vasculature for the Lifespan**

**TRANSLATIONAL**

**SCIENTIFIC SYMPOSIUM**

**A6 EVOLVING LANDSCAPE OF RESPIRATORY OUTCOMES IN SURVIVORS OF PREMATURE BIRTH**

Assemblies on Pediatrics, Clinical Problems, Environmental, Occupational and Population Health

9:15 a.m. - 10:45 a.m.

Moscone Center

Room 2005/2007 (West Building, Level 2)

**Target Audience**

Pulmonologists, researchers, and other healthcare professionals interested in the long-term respiratory outcomes of premature birth survivors, with a focus on prevention and therapeutic strategies for chronic obstructive pulmonary disease

**Objectives**

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

- describe the physiological mechanisms behind catch-up growth in preterm infants and articulate its implications for lung

development, facilitating early life medical management and long term patient counseling

- describe the impact of both genetic and environmental variables on the respiratory health of individuals born prematurely, thereby improving participant competency in optimizing long term health status in this population
- identify individuals at higher risk for developing chronic obstructive lung disease in early adult life among those born prematurely, facilitating early referral and appropriate patient counseling

Premature birth, occurring in approximately 10% of births worldwide, presents significant challenges to long-term health, particularly affecting respiratory outcomes. This symposium will explore the lifelong pulmonary effects of premature birth with a focus on the interplay between catch-up growth, environmental exposures, and genetic factors in determining the increased risk of chronic obstructive pulmonary disease (COPD) and other respiratory conditions later in life.

**9:15 Session Introduction**

**9:25 Catch-Up Growth and Lung Development in Premature Infants**

**9:45 Environmental Exposures and Respiratory Health in Prematurity Survivors**

**10:05 Genetic Influences on Catch-Up Growth and Environmental Responses in Premature Infants**

**10:25 Chronic Obstructive Pulmonary Disease in Adults Born Preterm: Pathways and Prevention**

**CLINICAL**

**SCIENTIFIC SYMPOSIUM**

**A7 INCLUDE: ADVANCES IN PEDIATRIC OSA THROUGH DOWN SYNDROME-FOCUSED TRIALS**

Assemblies on Pediatrics, Sleep and Respiratory Neurobiology

9:15 a.m. - 10:45 a.m.

Moscone Center

Room 2009/2011 (West Building, Level 2)

**Target Audience**

Pediatric pulmonologists, sleep medicine physicians, advanced practice providers who care for children

**Objectives**

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

- define new strategies for the care of children with Down syndrome who have OSA
- describe new findings about medication therapy for OSA in children with Down syndrome
- describe the specific challenges and consequences of OSA in children with Down syndrome

Obstructive sleep apnea is highly prevalent in children with Down syndrome. Historically, people with Down syndrome were excluded from clinical trials, but through the NIH INCLUDE Project, a number of ongoing clinical trials are underway that may provide new options for sleep apnea in both children with Down syndrome and beyond.

#### 9:15 Introduction

9:21 **DOSA: Oxygen Therapy for Children with Down Syndrome and Obstructive Sleep Apnea**

9:37 **MOSAIC DS: Medications for Obstructive Sleep Apnea in Children with Down Syndrome**

9:53 **APAP21: Positive Airway Pressure for OSA in Children with Down Syndrome**

10:09 **Oximetry Measurement Biases by Race/Ethnicity and Skin Pigmentation in Children with Down Syndrome**

10:25 **Potential Future Directions in Obstructive Sleep Apnea for Children with Down Syndrome**

10:35 **Discussion**

**BASIC • CLINICAL • TRANSLATIONAL**

**SCIENTIFIC SYMPOSIUM**

### **A8 EMPHYSEMA ACROSS DISEASES: FLAWED (RE)GENERATION OR RAPID DESTRUCTION?**

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

9:15 a.m. - 10:45 a.m.

Moscone Center

Room 205-206 (South Building, Level 2)

#### **Target Audience**

Basic and translational scientists and clinicians

#### **Objectives**

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

- learn the other lung conditions beyond COPD where emphysema is one of the main features
- learn the mechanisms underlying emphysema in absence of cigarette smoke

Emphysema, while primarily recognized as a component of chronic obstructive pulmonary disease (COPD), can also be present in various other lung conditions such as pulmonary fibrosis, COVID, prematurity, or infections, as well as in physiological aging. This session will discuss the causes and pathobiological features of emphysema in several lung conditions.

9:15 **"I Have Never Smoked and I Have Emphysema. I'll Tell You More About It."**

9:20 **Emphysema in IPF: The Unusual Suspect**

9:34 **I Bet You Didn't Know: COPD and Emphysema Are Not the Same Disease**

9:48 **The Growing Burden of Emphysema in an Aging Population: Parhobiology of Senescence-Induced Emphysema**

10:02 **Beyond the Surface: Imaging Insights into Emphysema Progression**

10:16 **It's Not Emphysema, It's Alveolar Simplification: When the Lung Fails to Develop**

10:30 **Post-COVID Airspace Enlargement: A Rising Contributor to Emphysema**

**BASIC • CLINICAL • TRANSLATIONAL**

**SCIENTIFIC SYMPOSIUM**

### **A9 ADVANCING HOST-DIRECTED THERAPIES IN PULMONARY INFECTIONS: BRIDGING RESEARCH AND CLINICAL PRACTICE**

Assemblies on Pulmonary Infections and Tuberculosis, Allergy, Immunology and Inflammation

9:15 a.m. - 10:45 A.M. Moscone Center

Room 209-210 (South Building, Level 2)

#### **Target Audience**

Clinical providers and investigators in the field of pulmonary infections

#### **Objectives**

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

- accurately define and differentiate between host-directed and host-informed therapies for pneumonia, bronchiectasis, and tuberculosis
- identify and implement specific HDTs in the treatment of pneumonia, bronchiectasis and tuberculosis, incorporating these therapies into their clinical practice
- identify research gaps, formulate innovative questions, discover novel mechanisms, study immune response variability, and design trials for target populations

Pulmonary infections remain a leading cause of morbidity and mortality globally, necessitating innovative approaches beyond conventional antimicrobial treatments. This scientific symposium aims to explore the potential of host-directed therapies (HDTs) in treating pneumonia, bronchiectasis and tuberculosis. By bringing together leading experts, the session will address current professional practice gaps, provide updates on HDT research, and identify future research directions. Attendees will gain valuable insights into HDT applications, improving their ability to implement these therapies in clinical practice, ultimately enhancing patient outcomes. The symposium will serve as a platform for fostering collaboration and advancing the field of HDTs.

- 9:15 Profiling the Host Response in Respiratory Infections**
- 9:33 Host-Directed Therapies in Pneumonia**
- 9:51 Host-Directed Therapies in Bronchiectasis**
- 10:09 Host-Directed Therapies in Tuberculosis**
- 10:27 How Do We Make This Happen: Clinical Trials for Host-Directed Therapies in Pulmonary Infections**

**BASIC • CLINICAL • TRANSLATIONAL**

**SCIENTIFIC SYMPOSIUM**

**A10 TRUE GRIT: TALES OF IMPACTFUL SCIENCE IN DRUG DEVELOPMENT, CLINICAL TRIALS, GLOBAL REGISTRIES AND BIOBANKS FOR PULMONARY ARTERIAL HYPERTENSION**

**Assembly on Pulmonary Circulation**

**9:15 a.m. - 10:45 a.m.**

**Moscone Center**

**Room 211-212 (South Building, Level 2)**

**Target Audience**

- 1) Adult and pediatric clinicians interested in understanding new pharmacotherapeutics for PAH.
- 2) Translational scientists interested in understanding the roadmap from bench-to-bedside
- 3) Pharmaceutical companies interested in product development

**Objectives**

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

- explore Activin A's mechanistic role in PAH and the translational pathway of product development, highlighting challenges and opportunities from academic and pharmaceutical perspectives
- explore the challenges and opportunities involved in applying for funding from philanthropic foundations. Emphasize the importance of creative, out-of-the-box thinking to stand out in a competitive funding landscape
- describe the design of multicenter biobank and registries for PAH, including the major limitations on using real-world-data sets, as well as data-sharing

This session targets clinicians, scientists, and industry professionals to enhance attendance and interaction. It includes four topics, each presented by one or two speakers, focusing on the vision, challenges, and troubleshooting involved in advancing projects. By the end of the session, participants will understand the mechanisms behind new generation therapies for PAH, including supporting data, potential molecular biology-based side effects, and long-term adverse event monitoring. They will also learn about collaboration with biobanks and global registries, effective use of databases, and addressing industry-related limitations for new targets. Lastly, we aim to provide insights for developing treatments for pulmonary hypertension.

- 9:15 Discovery and Clinical Development of Activin Ligand Traps for PAH: What's Special About It?**
- 9:30 PVDomics Cohort: Inception and Execution**
- 9:45 PVRI GoDeep Cohort: Inception and Execution**
- 10:00 Engaging in High-Risk/High-Reward Science: Going Off the Beaten Path**
- 10:15 A Second Career: Preordained?**
- 10:30 From the Other Side of the Fence: Drug Development in the Pharmaceutical Industry**

*This session and the International Conference are supported by an independent medical educational grant from Merck & Co., Inc.*

*All CME sessions have been planned and implemented in accordance with the Accreditation Criteria of the Accreditation Council for Continuing Medical Education (ACCME®) and are free of the control of ineligible companies (formerly commercial interests).*



## BASIC • CLINICAL • TRANSLATIONAL

## SCIENTIFIC SYMPOSIUM

**A11 CENTENNIAL CELEBRATION OF VA'S RESEARCH AND DEVELOPMENT PROGRAM**

Assemblies on Thoracic Oncology, Allergy, Immunology and Inflammation, Clinical Problems, Nursing

9:15 a.m. - 10:45 a.m.

Moscone Center

Room 2018/2020 (West Building, Level 2)

**Target Audience**

Those interested in learning about research in VA, especially related to lung cancer screening, immunology, and COPD; those with research interests in leveraging data from CT scans using AI to inform lung cancer screening and treatment.

**Objectives**

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

- understand the value of risk prediction-based patient selection for screening as compared to use of USPSTF(2021) guidelines
- have a better understanding of the potential value of artificial intelligence and radiomics in risk stratification and predicting prognosis and treatment responses in patients with lung cancer
- have insight into how and why these biomarkers may be clinically useful.

Starting in 1925, discoveries in the Research and Development Program included development of concepts required for CT scanning and establishing links between smoking and lung cancer. Because lung cancer remains a major health concern, the Program embarked on the Lung Precision Oncology Program (LPOP), which includes early detection using lung cancer screening. Three speakers will describe leveraging LPOP's infrastructure to influence policy for patient selection, analyzing data in screening CT scans using artificial intelligence to inform screening practices, and using translational research to improve immunotherapy. Another will describe efforts to improve care for COPD using VA's integrated health care system.

**9:15 Milestones of the Last Hundred Years and Developing a Learning Healthcare System for the Future**

**9:33 Implementing Prediction-Augmented Lung Cancer Screening in LPOP**

**9:51 Applications of Artificial Intelligence and Radiomics to Improve Lung Cancer Screening in LPOP**

**10:09 Studying Immunity Markers for Interception of Lung Cancers at Their Earliest Stages**

**10:27 Population-Based Approaches to Improve Care for COPD and Other Smoking-Related Diseases**

## BEHAVIORAL

## SCIENTIFIC SYMPOSIUM

**A12 IMPLEMENTING PREVENTATIVE AND BEHAVIORAL HEALTH INTERVENTIONS IN PULMONARY MEDICINE**

Assembly on Behavioral Science and Health Services Research

9:15 a.m. - 10:45 a.m.

Moscone Center

Room 2010/2012 (West Building, Level 2)

**Target Audience**

Health System Leaders, clinicians, those interested in implementing quality improvement projects, interprofessional team members, trainees/fellows

**Objectives**

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

- identify gaps in the provision of high-quality comprehensive care to patients with lung disease, particularly among minoritized populations
- increase knowledge about evidence-based behavioral interventions that go beyond disease-specific treatments to improve patient symptoms and clinical outcomes
- learn practical skills on how to integrate these evidence-based behavioral interventions into pulmonary specialty practice, with a focus on the role of the interprofessional care team

Although preventative care has traditionally fallen under the role of primary care, there is an increasing demand for pulmonary specialists to take responsibility in providing comprehensive care that goes beyond disease-specific treatments. In this session, we will review the role of the interprofessional pulmonary specialty team in providing evidence-based behavioral interventions such as vaccination, smoking cessation, promotion of physical activity, stress management and mitigation of environmental triggers. By the end of the session, learners will gain practical knowledge that can be integrated into pulmonary specialty care to improve patient-centered outcomes for individuals with lung disease.

**9:15 Introduction**

- 9:20 **Increasing Vaccination Rates Among Patients with Lung Disease**
- 9:35 **Proactive Smoking Cessation Assistance in the Context of Lung Cancer Screening**
- 9:50 **Promoting Lifestyle Changes in Minoritized Patients with Asthma**
- 10:05 **Stress Management in Asthma: The Coping with Asthma through Life Management (CALM) Study**
- 10:20 **Mitigating the Effects of Environmental Exposures on Lung Disease**

### BEHAVIORAL

### SCIENTIFIC SYMPOSIUM

## A13 POTENTIATING THE BENEFITS OF WORKFORCE DIVERSITY

**Assemblies on Behavioral Science and Health Services Research, Nursing; Ethics Committee, Membership Committee ; Health Policy Committee AND Health Equity and Diversity Committee**

9:15 a.m. - 10:45 a.m.

**Moscone Center**

Room 304 (South Building, Level 3)

### Target Audience

Attendees engaged in the healthcare sector, whether as a frontline provider, researcher, or administrator

### Objectives

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

- explain potential benefits of a diverse workforce
- assess their home institution for structures that can inhibit diverse expression and practice
- develop structures that support a diverse learning and working environment

The American Thoracic Society recognizes the value of a diverse workforce in meeting the needs of an increasingly diverse population, many of whom are under-served or disadvantaged relative to those with socially privileged identities. However, many institutions struggle to retain the degree of workforce diversity they already have, or to translate this diversity into known benefits like improved health outcomes and a more creative learning environment. This session offers expert-guided, evidence-based insight into maximizing local institutional workforce diversity. Attendees will learn about the impact of workforce diversity on the clinical and learning environment,

barriers to realizing these important outcomes, and interventions to support their realization in the workplace.

- 9:15 **Introduction**
- 9:18 **Supporting Gender Equity in PCCASM**
- 9:28 **Burdens & Benefits of Intersectional Perspective**
- 9:38 **Diversity in Allied Health Professions & Research**
- 9:48 **Mentoring the URIM Physician**
- 9:58 **Building a DEI Curriculum**
- 10:08 **Actualizing the Promise of Diversity for Equity: The Benefits of Diverse Working & Learning Environments**
- 10:25 **International Medical Graduate (IMG) Physicians: Barriers to Success and Recommendations for Support**
- 10:35 **Q&A**

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### CLINICAL • TRANSLATIONAL

### MINI SYMPOSIUM

## A14 ADVANCES IN THE DIAGNOSIS AND MANAGEMENT OF ILD

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

**Moscone Center**

Room 25 Hall E (North Building, Exhibition Level)

- 9:15 **Adult Life Course Trajectories of Lung Function and the Development of Interstitial Lung Abnormalities: The CARDIA Lung Study**
- 9:27 **Clinical Features and Outcomes of Familial and Sporadic Pulmonary Fibrosis**
- 9:39 **Proteomics Classification of Interstitial Lung Disease Is Comparable to Multidisciplinary Discussion Approach**
- 9:51 **Electronic Nose Technology as Diagnostic Tool for Different Fibrotic Interstitial Lung Disease: The ILDNose Study**

- 10:03 A Digital Psychological Therapy Improves Health-related Quality of Life in Pulmonary Fibrosis Patients Using Antifibrotic Treatment
- 10:15 Antifibrotic Dose Reductions and Clinical Outcomes in Patients With Idiopathic Pulmonary Fibrosis in Real-World Data Sources
- 10:27 Methotrexate Versus Prednisone as First-line Treatment for Pulmonary Sarcoidosis: The PREDMETH Trial
- 10:39 Association of Pulse Dose Corticosteroids With Outcomes Among Patients With Acute Exacerbations of Idiopathic Pulmonary Fibrosis
- 10:51 Improvement in Wait List Mortality for the Most Critically Ill Since the Implementation of the CAS
- 11:03 Efficacy and Safety of Danazol in Pulmonary Fibrosis Associated With Short Telomeres: A Phase 2 Randomized Clinical Trial

### CLINICAL • TRANSLATIONAL

#### MINI SYMPOSIUM

### A15 PRIMARY AND SECONDARY RESULTS FROM CLINICAL TRIALS: COPD AND PLEURAL DISEASE

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

Room 3000/3002/3004 (West Building, Level 3)

- 9:15 Fissure Completion Surgery and Zephyr Valve Placement in Patients With Late-stage Emphysema: Expanding Treatment Eligibility
- 9:27 Anti-inflammatory Reliever Therapy for Obstructive Lung Disease: A Cluster Randomized Trial
- 9:39 ARINA-1 Improves Quality of Life in a Pilot Study of Chronic Bronchitis
- 9:51 Efficacy of Tezepelumab in Patients With Moderate to Very Severe Chronic Obstructive Pulmonary Disease With and Without Chronic Bronchitis: Phase 2a COURSE Study
- 10:03 Assessment of Disease Stability in Patients With COPD Receiving Single-inhaler Therapy With Fluticasone Furoate/Umeclidinium/Vilanterol (FF/UMEC/VI) Versus FF/VI and UMEC/VI: Post Hoc Analysis of the IMPACT Trial

- 10:15 Cardiopulmonary Risk Benefits of Budesonide/Glycopyrrolate/Formoterol Fumarate Triple Therapy: A Number Needed to Treat Post Hoc Analysis of the ETHOS Trial
- 10:27 Reductions in RV vs. RV/TLC as a Measure of Success Following BLVR
- 10:39 Medical Thoracoscopy With Versus Without Prior Artificial Pneumothorax for Patients With Minimal or Absent Pleural Effusion: A Multicenter Randomized Trial

### BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

#### MINI SYMPOSIUM

### A16 BEYOND THE DUST: ADVANCING EXPOSURE ASSESSMENT, METABOLOMICS, AND TREATMENT IN OCCUPATIONAL LUNG DISEASES

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

Room 201-202 (South Building, Level 2)

- 9:15 Occupational Exposure to Dust and Fumes Is Associated With Increased All-cause Mortality Among Smokers in COPD Gene
- 9:27 Increased Lung Particulate Burden in Post-9/11 Military Veterans With Deployment-related Distal Lung Disease
- 9:39 Metabolomic Insights Into Mechanisms of Mitochondrial Dysfunction as a Limitation to Exercise in Previously Deployed Military Personnel
- 9:51 Metabolic Changes Associated With Lung Health Improvements in a Dietary Intervention
- 10:03 Longitudinal Single-cell Analysis of Asbestos-induced Pulmonary Fibrosis
- 10:15 Artificial Stone-related Silicosis in China
- 10:27 Evaluating the Efficacy of Prednisolone for the Treatment of Silicosis
- 10:39 Geospatial and Temporal Analysis of Excessive Respirable Crystalline Silica (RCS) Exposures in United States Coal Mines
- 10:51 Lung Function Decline Among Former U.S. Coal Miners Absent Further Exposure Worse Among Central Appalachian Miners

11:03 Increased Dementia Risk Among Patients With Pneumoconiosis

## CLINICAL

## MINI SYMPOSIUM

### A17 TUBERCULOSIS: STILL KICKING, STILL HIDING - SCIENCE, SPREAD, AND WHAT WE'RE DOING ABOUT IT

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

Room 2001/2003 (West Building, Level 2)

- 9:15 Inhibiting Immune Check Point Inhibitors Rescues T Cell Response in TB Patients: Impact on Drug Pump Expression and Clearance of M.tuberculosis
- 9:27 Uncovering Ribosomal Gene Disruptions in Human Tuberculosis: A Spatial Transcriptomics Study of Submucosal Glands
- 9:39 Predicting Treatment Outcomes in MDR-TB: Comparing Electronic and Self-reported Adherence Measures for Bedaquiline
- 9:51 Optimizing Rifapentine Dosage for Drug-susceptible Tuberculosis: Preliminary Findings From an Adaptive Randomized Controlled Trial
- 10:03 12-month Respiratory Outcomes in Children and Adolescents Treated for Pulmonary Tuberculosis
- 10:15 The Association of Pretreatment Nutritional Status With Lung Function After Microbiologic Tuberculosis Cure
- 10:27 Bedaquiline Adherence Predicts Retention-in-Care in Patients With Drug-Resistant Tuberculosis and HIV
- 10:39 Socio-ecologic Factors Impacting Medication Adherence Trajectories in Patients With Drug-resistant Tuberculosis and Human Immunodeficiency Virus
- 10:51 Efficacy and Safety of Daily Drug Regimens Containing High-dose Versus Standard-dose Rifampicin for Treating Pulmonary Tuberculosis: Systematic Review and Meta-analysis

## CLINICAL

## MINI SYMPOSIUM

### A18 BEST TRIALS IN PULMONARY REHABILITATION

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

Room 3006/3008 (West Building, Level 3)

- 9:15 High Intensity Interval Training in Patients With Interstitial Lung Disease
- 9:27 High-intensity Inspiratory Muscle Training in Patients With Pulmonary Hypertension: Randomized Clinical Trial
- 9:39 Effect of a Self-directed Lifestyle-based Weight Management Program Among Patients With Comorbid COPD and Sleep Apnea
- 9:51 Personalised Exercise-rehabilitation for People With Multiple Long-term Conditions (PERFORM): A Randomised Feasibility Study
- 10:03 Effects of Comorbidity on Programme Completion in Chronic Obstructive Pulmonary Disease (COPD) Patients Undergoing Pulmonary Rehabilitation
- 10:15 Evaluation of Program Adherence and Health Outcomes When Patients Self-select to Either In-person or Virtual Pulmonary Rehabilitation
- 10:27 Are There Differences in the Characteristics of Patients Who Opt for Home-based Pulmonary Rehabilitation Versus Centre-based Pulmonary Rehabilitation?
- 10:39 A Feasibility and Pilot Randomized Clinical Trial Assessing the Integration of Digital Remote Patient Monitoring Within Pulmonary Rehabilitation
- 10:51 Adaptive Oxygen Delivery in Home Settings for Patients With Chronic Obstructive Pulmonary Disease on Long-Term Oxygen Therapy - A Pilot Randomized Crossover Feasibility Trial



**BASIC • CLINICAL • TRANSLATIONAL****MINI SYMPOSIUM****A19 COMING INTO FOCUS: NOVEL APPROACHES TO CAPTURE ASTHMA**

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

Room 3014/3016/3018 (West Building, Level 3)

- 9:15 The Impact of Race-neutral Reference Pulmonary Function Equations Among Us Patients With Severe Asthma: Results From the Chronicle Study
- 9:27 Differences in the Characteristics and Outcomes by Sex in Patients With Physician-diagnosed Asthma and/or COPD in the NOVELTY Study
- 9:39 Oscillometry and Parent-reported Respiratory Symptom Control in Toddlers With Recurrent Wheeze: The WINDOWS Study
- 9:51 Combined Point-of-Care Assessment Using Oscillometry, Spirometry, and FeNO to Optimally Identify an At-risk Asthma Phenotype
- 10:03 Greater Aerodynamic Force and Pressure in Obese Asthmatics Associated With Worse Asthma Control and Quality of Life: CT-based Computational Fluid Dynamics Analysis
- 10:15 Lung Function Improvement in Patients With Uncontrolled, Moderate-to-Severe Asthma Treated With Benralizumab: A New, Retrospective Analysis of the Pooled Sirocco and Calima Studies
- 10:27 Effect of Dupilumab on the Temporospatial Characteristics of Mucus Plugs in Patients With Moderate-to-Severe Asthma

**CLINICAL • TRANSLATIONAL****MINI SYMPOSIUM****A20 INNOVATING SLEEP DIAGNOSTICS: EMERGING APPROACHES FROM ACOUSTICS TO RETINAL IMAGING**

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

Room 303 (South Building, Level 3)

- 9:15 Clinical and Physiological Factors That Drive High Night-to-Night Variability in OSA Severity: Implications for Simplified Multi-night Monitoring and Misdiagnosis Rates: Implications for Simplified Multi-night Monitoring and Misdiagnosis Rates
- 9:27 Hourly Scoring of Apnea-Hypopnea Events Using a Novel Touchless Monitoring System
- 9:39 Refining the Detection of Sleep-disordered Breathing Events: Improving Annotations in National Sleep Research Resource (NSRR) Polysomnography Data
- 9:51 Clinical Validation of Sleep and Respiratory Parameters Recorded With a Novel Patch-based Type II Polysomnography System
- 10:03 Sensor-Based Digital Health Technology Enables Digital Medicine for Sleep-Related Breathing Diseases
- 10:15 Real-time Sleep Monitoring Improves Sleep in Critically Ill
- 10:27 Upper Airway Obstruction Mapping Through Transfer Function Analysis of Tissue Vibrations
- 10:39 Characterizing IDC Compensation to Flow Limitation During Drug-Induced Sleep Endoscopy in OSA
- 10:51 Artificial Intelligence-Powered Severity Classification of Obstructive Sleep Apnea From Retinal Optical Coherence Tomography

**BASIC • TRANSLATIONAL****MINI SYMPOSIUM****A21 UNCOVERING THE IMMUNE LANDSCAPE AND MOLECULAR DRIVERS OF LUNG CANCER: FROM CARCINOGENESIS TO TARGETED THERAPIES**

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

Room 2014/2016 (West Building, Level 2)

- 9:15 Comprehensive Epithelial Atlas Mapping Cellular Dynamics, Chromosomal Alterations and Molecular Programs in Pre- and Early-stage Lung Adenocarcinoma Manifested as Ground-glass Nodule

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| <p>9:27 Microenvironment Components and Spatially Resolved Single-cell Transcriptome Atlas of Regional Lymph Node Metastases in Lung Cancer</p> <p>9:39 DNA Methylation-dependent Metabolic Processes in Shaping Tumor-associated Macrophage Function in Lung Cancer</p> <p>9:51 Macrophage-Specific MicroRNA-193B Drives Lung Tumorigenesis by Reprogramming Immune Responses: Implications for Targeted Immunotherapy in Non-small Cell Lung Cancer (NSCLC)</p> <p>10:03 STAT3 Inhibition Prevents Adaptive Resistance and Augments Nature Killer (NK) Cell Cytotoxicity to KRASG12C Inhibitors in Non-Small Cell Lung Cancer (NSCLC)</p> <p>10:15 Anti-PD-1 and Anti-CD39 Induce Respective CD8 T Cell and Macrophage Responses at the Patient-derived Ex Vivo Tumor-border</p> <p>10:27 “Do Not Eat Me” Signaling as a Novel Macrophage Immunotherapy in Lung Cancer</p> <p>10:39 Integrated Multi-omics Unraveled a Basal Cell-dependent Signature Predictor of Outcome and Immunotherapy Response in LUSC</p> <p>10:51 Integrating Genetic and Radiographic Markers to Predict Immune Checkpoint Inhibitor Pneumonitis Risk in Non Small Cell Lung Cancer</p> | <p>103 Human Airway Epithelial Cell Expression of HMOX1 and Hypoxia Gene Responses Are Impaired by Trisomy 21 at Baseline and During RSV Infection</p> <p>104 Role of the Lysophosphatidic Acid 1 Receptor in Goblet Cell Hyperplasia in Chronic Bronchial Asthma</p> <p>105 Myeloid-derived Secreted Phospholipase A2 Group X Modulates Airway Hyperresponsiveness and Eosinophilic Inflammation in T2 Predominant and Mixed Inflammation Models of Asthma</p> <p>106 Flavonoid Quercetin Enhances Nuclear Factor Erythroid 2-related Factor 2 (Nrf2) Pathway Activation and Reduces Inflammatory Cytokines in Asthmatic Airway Epithelial Cells</p> <p>107 Inhibition of Triggering Receptor Expressed on Myeloid Cells 1 (TREM1) Attenuates Allergic Airway Inflammation in a Mouse Model of Allergic Asthma</p> <p>108 The Role of BMAL1 on the Ferroptosis of Airway Epithelial Cells in HDM-induced Asthma</p> <p>109 PGE2 Dynamics and Rhinovirus Infection Attenuation of 15-PGDH Activity Within the Airway Epithelium</p> <p>110 Epithelial Immunomodulation by Aerosolized Toll-like Agonists Prevents Allergic Lung Inflammation by Reducing Th2 Polarization</p> <p>111 Epithelial - CD4+ Tissue Resident Memory Crosstalk Dictates Allergic Airway Neutrophilic Disease</p> <p>112 Epidermal Growth Factor Protects Lung Epithelial Cells After Injury</p> <p>113 Ligand-Independent TREM-1 Blockade Ameliorates Pulmonary Inflammation and Fibrosis</p> <p>114 Epithelial Membrane Protein 2 Deletion Protects From Lung Injury and Fibrosis</p> <p>115 Netrin-1 Deletion in Type II Pneumocytes Exacerbates Bleomycin Induced Mouse Lung Fibrosis Via Ccl2 and Cxcl2</p> <p>116 The Role of Myristic Acid in the Pathogenesis of Pulmonary Fibrosis</p> <p>117 Mitochondrial Pathways and T2-low/T17-low Asthma in Children and Adolescents</p> |
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### BASIC • TRANSLATIONAL

### POSTER DISCUSSION SESSION

## A22 BREAK ON THROUGH: AIRWAY EPITHELIAL BARRIER IN INFLAMMATION AND INJURY

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

Moscone Center

Room 203-204 (South Building, Level 2)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

- 101 20 Nanometer Bacterial Cellulose Reduces Asthma Inflammation by Repairing Airway Epithelial Barrier Dysfunction
- 102 IL-33 Modulates Crosstalk Between Eosinophils and Airway Epithelial Cells

**BASIC • CLINICAL • TRANSLATIONAL****POSTER DISCUSSION SESSION****A23 MICROBIAL MAESTROS:  
ORCHESTRATION OF  
HOST-PATHOGEN INTERACTION**

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

Moscone Center

Room 207-208 (South Building, Level 2)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

- 201 Dietary Fiber Modulates Lung Immunity and Immunotherapy Response in NSCLC
- 202 Gut Microbiota Inhibits Influenza Virus-induced N6-Methyladenosine: Role of Microbiota-mediated Epigenetic Modification in Antiviral Immunity
- 203 Gut Dysbiosis Alters Th17 Cell Inflammation in the Lungs
- 204 Urban Air, Diesel Exhaust and Microplastic Particles Predispose to Asthma Origin Via Gut Microbiome Alteration
- 205 Translational Study: Propionate, A Short-chain Fatty Acid Product of the Gut Microbiota, Reduces Inflammatory Responses to Lipopolysaccharide-induced Injury in Human Lung Bronchoalveolar Lavage and Tissue
- 206 Gut Epithelial Aryl Hydrocarbon Receptor Signaling Modulates Allergic Airway Disease Through Microbial Regulation
- 207 Nasal Microbiome Profiles Are Associated With Prospective Respiratory Viral Infection Risk in School-aged Children
- 208 Relationship of Fungal Translocation, Inflammation and Pulmonary Function in People With HIV
- 209 Alveolar Immune Mediator Levels Are Distinct Between Different Bacterial Pathogens and Have Differential Associations With Mortality
- 210 Clinical and Microbiome Factors Associated With Symptomatic Mucus Plugs in Patients With Obstructive Airway Disease With Type 2 Inflammation
- 211 The Role of the Lung Microbiome in Asthma

- 212 Species Level Identification Via Tiling 16s rRNA Gene Amplicon Sequencing for Microbiome Characterization of Bronchoalveolar Lavage Fluid in Lung Transplant Patients: A Proof-of-Concept Study
- 213 Prevotella Intermedia Culture Supernatant Exacerbates Mycobacterium Avium Infection in Alveolar Macrophages In Vitro and In Vivo
- 214 Oral-derived Bacteria Impact the Lung Microbiota and Are Involved in the Pathogenesis of Chronic Obstructive Pulmonary Disease
- 215 NF- $\kappa$ B-dependent Transcriptional Regulation of Piezo1 Mediates Bacterial Clearance of P. Aeruginosa From the Lung
- 216 Diet-mediated Immunometabolic Regulation Promotes Pulmonary Clearance of K. Pneumoniae
- 217 Obstructive Sleep Apnea Related Hypoxic Burden Is Associated With Enrichment of Anaerobic Taxa in the Upper Airway Microbiome
- 218 The Upper Airway Microbiome in Obstructive Sleep Apnea Pre and Post-CPAP Therapy
- 219 Obstructive Sleep Apnea Impairs the Prognosis of Lung Cancer Patients Treated With First-line Immune Checkpoint Inhibitors and Is Associated With Gut Microbiota Dysbiosis and Circulation Immune Imbalance
- 220 Sex-Specific Immune Transcriptional Programming by Pseudomonas in Cystic Fibrosis
- 221 Antecedent Pneumococcal Experience Protects From Allergic Airway Eosinophilia
- 222 T Cell Specific Stat1 Drives Neutrophil Induced Lung Pathology During Klebsiella Pneumoniae Infection

**CLINICAL • TRANSLATIONAL****POSTER DISCUSSION SESSION****A24 UPDATES IN RARE LUNG DISEASE,  
SARCOIDOSIS, AND LUNG  
TRANSPLANT**

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

Moscone Center

Room 3009/3011 (West Building, Level 3)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

|     |  |   |   |
|-----|--|---|---|
| 901 | Outcomes With ABO Identical Versus ABO Compatible Blood Groups in Patients Undergoing Lung Transplantation   | 915   | Risk of Bronchiolitis Obliterans Among Bone Marrow Transplant Recipients Who Received Post-Transplant Cyclophosphamide Compared to Standard of Care   |
| 902 | Pre-Lung Transplant Monocyte Counts Predict Post-Lung Transplantation Mortality in Patients With Idiopathic Pulmonary Fibrosis   | 916   | Associations and Outcomes of Bronchiectasis in Patients With Bronchiolitis Obliterans Syndrome Complicating Allogeneic Hematopoietic Cell Transplantation: A Retrospective Cohort Study               |
| 903 | Increased Mechanical Power Is Associated With Poor Lung Transplant Clinical Outcomes   | 917   | Impact of Race, Ethnicity, and HLA Molecular Mismatch on Risk for De Novo Donor-specific Antibodies in Lung Transplantation   |
| 904 | ECMO - Bridge to Nowhere: Analyzing Factors for Delisting Versus Successful Lung Transplant in Waitlisted Candidates   | 918   | Molgramostim Reduces Surfactant Burden and Number of Whole Lung Lavage Procedures in Patients With Autoimmune Pulmonary Alveolar Proteinosis (aPAP): Results From the IMPALA-2 Phase 3 Clinical Trial |
| 905 | A Holistic Evaluation of Patient Outcomes in Single and Bilateral Lung Transplantation for Emphysema   | 919   | The Impact of GLP-1 Analogs on Thromboembolic Outcomes in Patients With Sarcoidosis   |
| 906 | Assessing Single Versus Double Lung Transplant Outcomes in Patients With Idiopathic Pulmonary Fibrosis With Pulmonary Hypertension - A Look at the New Pulmonary Hypertension Criteria       | 920   | The Association of Medicaid Expansion With Lung Transplant Waitlist Outcomes  |
| 907 | Comparative Outcomes of Bronchoscopy Utilization in Acute Respiratory Failure Due to Drug-related Injury: A Propensity-matched Analysis From National Database                               | 921   | Clinical Utility of Plasma Donor-Derived Cell-Free DNA for Detection of Lung Allograft Rejection in Patients With Lung Transplant: Experience From a Large Lung Transplant Program                    |
| 908 | Impact of Single vs Bilateral Lung Transplantation on Survival in Interstitial Lung Disease Patients at a High-volume Center   | 922   | Pirfenidone for the Treatment of Bronchiolitis Obliterans Syndrome After Allogeneic Hematopoietic Cell Transplant: Results From a Single-Arm Extension Trial  |
| 909 | Prognostic Implications of Volume-Based Quantitative Biomarkers Derived From 18F-FDG-PET/CT in Pulmonary Sarcoidosis   | 923   | Reversal of Interstitial Lung Disease in Children and Adults With Chronic Acid Sphingomyelinase Deficiency Treated With Olipudase Alfa Enzyme Replacement Therapy                                     |
| 910 | FEV1 Trajectory in a Multicenter Prospective Cohort of Patients With Bronchiolitis Obliterans Syndrome After Hematopoietic Cell Transplantation  | 924   | Sirolimus Use During Pregnancy in Women With Lymphangioleiomyomatosis   |
| 911 | Pre-lung Transplant Physical Conditioning Afforded Through Pulmonary Rehabilitation: Assessment Via Cardiopulmonary Exercise Testing and Associations With Post-transplant Clinical Outcomes | <div>CLINICAL</div> <div>POSTER DISCUSSION SESSION</div>                                |   |
| 912 | Baseline Lung Allograft Dysfunction Is Associated with Pre-transplant Total Lung Capacity Regardless of Donor/Recipient Size Match   |   |   |
| 913 | FCGBP Rs1464897604 Polymorphism Is Associated With Bronchiolitis Obliterans Syndrome After Lung Transplantation  | <b>A25 ADVANCES IN INTERVENTIONAL PULMONARY AND PLEURAL DISEASE</b>                     |   |
| 914 | Efficacy and Safety of Low-dose Sirolimus Treatment for Patients With Lymphangioleiomyomatosis   | 9:15 a.m. - 11:15 a.m. <b>Moscone Center</b><br>Room 3022/3024 (West Building, Level 3) |   |
|     |  | Poster Viewing  | 9:15-10:00  |
|     |  | Discussion  | 10:00-11:15   |



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| <p>1001 Identifying Patients With Pulmonary Masses From CT Radiology Reports Using Natural Language Processing (NLP)</p> <p>1002 A Deep Learning Approach to Differentiating Between Transudative and Exudative Pleural Effusions on Thoracic Ultrasound</p> <p>1003 Thoracic Ultrasound Performance in Predicting Pleural Effusion Volume Using Rib Space Counts</p> <p>1004 Thoracic Irrigation Using CLR Irrigator for Complicated Pleural Infection</p> <p>1005 Real-Time Reliability: Unveiling the Accuracy of Pleural Fluid Glucose Measurement with Point-of-Care Arterial Blood Gas Analyzer Technology</p> <p>1006 Pleural Fluid pH Values Across Several Common Etiologies</p> <p>1007 Lung Cancer Mortality Decreases With Increasing BMI: How Airflow Limitation Unravels the Obesity Paradox</p> <p>1008 Safe Implementation of Prolonged Apneic Breath Hold Strategy During Lung Navigational Bronchoscopy</p> <p>1009 The Prevalence of Laryngeal Pathology in Patients With Excessive Central Airway Collapse</p> <p>1010 SENDA: System for Endoscopic Assessment of Dynamic Airway Collapse</p> <p>1011 EBUS-guided Lymph Nodal Gadolinium Injection and MRI of the Chest in Diagnosis of Abnormal Lymphatic Drainage</p> <p>1012 Paclitaxel-coated Balloon Dilation in Recurrent Airway Stenosis</p> <p>1013 A Method for Designing a Population-based, Silicone Airway Stent for Off-the-Shelf Use</p> <p>1014 Comparing the Efficacy and Long-term Outcomes of Patient-specific vs. Commercially Available Airway Stents in a Tertiary Care Cohort</p> <p>1015 Beyond the Traditional Scope: Robotic-assisted Bronchoscopy for Lung Nodule Diagnosis in High-risk Lung Transplant Recipients</p> <p>1016 Diagnostic Yield of Robotic Bronchoscopy for Ground Glass Nodules</p> | <p>1017 Endobronchial Valves: How New Pulmonary Function Test Interpretation Guidelines Impact Eligibility</p> <p>1018 Long Term Effectiveness of Bronchoscopic Lung Volume Reduction in COPD Patients With Alpha-1 Antitrypsin Deficiency</p> <p>1019 Predicting Pneumothorax Development Post-Bronchoscopic Lung Volume Reduction (BLVR) With Endobronchial Valves</p> <p>1020 Predicting Success With Lung Reduction in Patients With Heterogenous or Homogenous Emphysema: Baseline RV or RV/TLC Thresholds</p> <p>1021 Identifying Patients Who Benefit From Sequential Bilateral Bronchoscopic Lung Volume Reduction</p> <p>1022 Patient Preference Factors in Bronchoscopic Lung Volume Reduction</p> <p>1023 A Retrospective Review of Redo Bronchoscopic Lung Volume Reduction (BLVR)</p> <p>1024 Staged Bilateral Bronchoscopic Lung Volume Reduction for Residual Hyperinflation Following Successful Index Procedure in Pulmonary Emphysema: A Multi-center Study</p> |
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## CLINICAL

## POSTER DISCUSSION SESSION

### **A26 NAVIGATING THE ABCDS OF LONG-TERM OUTCOMES AFTER ICU**

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

Moscone Center

Room 2006/2008 (West Building, Level 2)

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|----------------|-------------|
| Poster Viewing | 9:15-10:00  |
| Discussion     | 10:00-11:15 |

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| 701 | Trajectories and Risk Factors of Post-sepsis Frailty in Survivors: A Nationwide Cohort Study                                    |
| 702 | Aging Alters Inflammatory Gene Expression in Acute Lung Injury-associated Skeletal Muscle Wasting                               |
| 703 | Physical Activity Levels in Survivors of Critical Illness Six Months After Hospitalization                                      |
| 704 | Relationship Between Intensive Care Unit Delirium, Subsyndromal Delirium, and Depression in Acute Respiratory Failure Survivors |

- 705 A Qualitative Multi-center Study of an App-based Mindfulness Intervention for Critical Illness Survivors
- 706 The Effect of Reducing Blue Light Exposure on Delirium in Critically Ill Patients
- 707 Construct Validity of a 90-day Physical Recovery Survey Assessment in Adult Acute Respiratory Distress Syndrome (ARDS) Survivors
- 708 Insomnia Severity Following Intensive Care Unit Admission for Acute Respiratory Failure
- 709 Relationship Between Intensive Care Unit Delirium and Subsyndromal Delirium and Quality of Life Impairments at 12 Months
- 710 Delirium and Family Satisfaction in the ICU: Insights From Spanish and English-speaking Dyads
- 711 A Screening Tool to Predict Post-intensive Care Syndrome (PICS) in the Critically Ill
- 712 Association of Central Nervous System Biomarkers With Incident Delirium in ICU Patients With Respiratory Failure
- 713 Communication of Post Intensive Care Syndrome: What Providers Reportedly Do and What Patients Remember
- 714 Association Between Skilled Rehabilitation in Hospital and Days Alive and at Home Following Critical Illness in Older Adults
- 715 Physical Activity Monitoring as a Method to Quantify Post-discharge Physical Health Recovery in Critically Ill Children Who Survive Acute Respiratory Failure
- 716 Evaluating the Effect of Respiratory and Hemodynamic Support During Critical Illness on Cognitive Function After Recovery
- 717 Association Between Intensive Care Unit (ICU) Delirium Recall and Longitudinal Quality of Life Scores in Acute Respiratory Failure Survivors
- 718 Comparison of Perceived Barriers to Early Mobilization Between a Mobility-Naïve and Mobility-Experienced ICU
- 719 COVID ALI/ARDS Survivors Have Persistently Elevated Serum GDF-15 and Lower 6-Minute Walk Distance Over 3 Years: A Time-Independent Longitudinal Modeling Approach

- 720 Impact of Frailty on Mortality and Discharge Outcomes in Critically Ill Patients: A Systematic Review and Meta-analysis
- 721 Long-COVID Phenotypes Are Not Associated With Persistent Inflammation, Endothelial Dysfunction, or Complement Activation Over 3-years in COVID-19 ALI/ARDS Survivors
- 722 CANCOV- Canadian Prospective Cohort of 5-year Outcomes in Critically Ill Patients With COVID-19 Critical Illness and Family Caregivers - Long Term Functional Outcomes After Protective Mechanical Ventilation
- 723 Implementation of a Telehealth Enabled Post-ICU Clinic
- 724 Accuracy of Remote Versus Laboratory Spirometry for Assessment of Pulmonary Function Among Children Surviving Acute Respiratory Failure
- 725 Factors Associated With Delays in the Early Mobilization of Mechanically Ventilated Patients

## CLINICAL

## POSTER DISCUSSION SESSION

### A27 EVERY BREATH YOU TAKE: INTRIGUING CASES OF CARDIAC, PULMONARY AND VASCULAR EMERGENCIES IN THE ICU

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

Moscone Center

Room 2002/2004 (West Building, Level 2)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

- 601 Successful Minimally Invasive Treatment of Tracheal Perforation With Tension Pneumomediastinum and Pneumothoraces in an Intubated Patient
- 602 Fat Embolism Syndrome in a Patient With Sickle Cell Disease and Intraatrial Shunt
- 603 The Diagnostic Superiority of Cardiac CT in Identifying Valve-in-Valve Aortic Root Thrombus
- 604 Mitral Valve Perforation Leading to Unilateral Alveolar Hemorrhage - A Rare Case With a Surgical Cure

- 605 Beyond Breathlessness: A Hidden Rupture Unveiled in a Case of Suspected Pneumonia
- 606 Listen to Your Patient; He Is Telling You the Diagnosis
- 607 Compressive Complication: Exploring Cardiac Tamponade After Thrombectomy for Pulmonary Embolism
- 608 Dissection or Direction? Aortic Thrombus vs. North-South Syndrome
- 609 Toxic as FK - A Case of Paxlovid-Induced Tacrolimus (FK506) Toxicity in a Kidney Transplant Recipient with COVID-19
- 610 Refractory Hypoxemia in Acute Chest Syndrome: Managing Severe Acute Respiratory Distress Syndrome
- 611 Bones, Lungs, and Brain: A Case of Fat Embolism Syndrome
- 612 Shattered Spleen: Splenic Laceration After Endoscopic Retrograde Cholangiopancreatography
- 613 A Case of Methemoglobinemia During Early Pregnancy
- 614 Delayed Bupropion Cardiotoxicity Treated With Intravenous Lipid Emulsion: A Case Report
- 615 SVC Ya Later, Airway
- 616 Daptomycin Dilemma: Navigating Dosing in a Critically Ill Post-LVAD, Post-xenothymokidney Transplant Patient
- 617 Contrast-induced Bronchospasm in a Patient With Bronchopleural-Esophageal Fistula
- 618 ECMO in a Stage IV Lung Cancer Patient: A Case for Expanding Indications in the Era of Cancer Remission
- 619 I Am Not Sad I Am Decompressed: A Case of Pericardial Decompression Syndrome
- 620 Hypertonic Saline as Rescue Therapy for Diuretic Resistant Acute Decompensated Heart Failure
- 621 Dengue and Severe Myocarditis: A Deadly Viral Attack on the Heart
- 622 Unexpected Consequences: A Rare Mycotic Pseudoaneurysm After Salmonella Gastroenteritis
- 623 True or Tracheal Bronchus?

- 624 Foreign Intrusion: Unraveling a Deadly and Rare Cause of Hemobilia
- 625 Enhancing Critical Care Outcomes With Point-of-Care Ultrasound: A Resident's Role in the Early Diagnosis of Pulmonary Embolism

## CLINICAL

## RAPID POSTER DISCUSSION SESSIONS

### A28 DEEPER DIVES, GREATER IMPACT: LEVERAGING SECONDARY ANALYSES IN CRITICAL CARE TRIALS

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

Moscone Center

Room 2022/2024 (West Building, Level 2)

Viewing/Abstract Summaries

9:15-10:00

Discussion

10:00-11:15

- 801 Treatment Effect Is Not Enriched in the Hyperinflammatory Phenotype in the Aster Clinical Trial of Acetaminophen for Sepsis
- 802 Daisy: Determining the Association of Intravenous Fluids With Mortality in Septic Patients: A Secondary Analysis of a Multicenter, Phase 3, Randomized Clinical Trial (CLOVERS)
- 803 The Effect of Piperacillin-tazobactam vs Cefepime on Clinically Significant Platelet Counts - A Secondary Analysis of the ACORN Randomized Clinical Trial
- 804 Analysis of Electronic Health Record Alert Compliance in the Precision Resuscitation With Crystalloids in Sepsis (PRECISE) Trial
- 805 Incretin Hormones Predict Response to Enteral Nutrition Dosing Strategies in Acute Respiratory Distress Syndrome
- 806 Pre-treatment Gene Expression Modifies Treatment Effects in Two Randomized Trials of Mesenchymal Stem Cells for ARDS
- 807 Interleukin-6 as an Effective Intermediate Endpoint in Critical Illness: An Individual Patient Data Meta-analysis of Randomized Controlled Trials
- 808 Personalized Mechanical Ventilation in Patient With Acute Respiratory Distress Syndrome Guided by Lung Ultrasound: A Pilot Phase Study

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| <p>809 Ventilator Management for Patients With Acute Respiratory Failure Supported With Venovenous ECMO: A Prospective, Pragmatic, Cluster-crossover Pilot Study</p> <p>810 High Flow Nasal Oxygen Therapy Versus Non-invasive Ventilation for Prevention of Reintubation in Patients With Hypercapnia at Extubation - A Randomised Controlled Trial (HYPERHOT NIV Trial), Results From an Interim Analysis</p> <p>811 Phrenic Nerve Stimulation Decreases Biomarkers for Brain Injury in Deeply Sedated Mechanically Ventilated Moderate ARDS Patients</p> <p>812 Heterogeneous Treatment Effects Observed in ARDS Patients Stratified by Vasopressor Use and PEEP Strategies</p> <p>813 Personalized Ventilation Based on Lung Recruitability in Patients With Acute Respiratory Distress Syndrome</p> <p>814 Impact of a Mechanical Insufflator-Exsufflator on the Need for Tracheal Suctioning in Intubated Patients - A Prospective Randomized Crossover Trial</p> <p>815 Does Operator Experience Modify the Effect of Noninvasive Ventilation on Hypoxemia During Tracheal Intubation: A Post-hoc Analysis of the PREOXI Trial</p> | <p>502 Polygenic Risk Scores and Longitudinal Lung Function Across the Adult Lifespan: Analysis of Two Population-based Studies</p> <p>503 Epigenetic Age as Both Effect and Modifier of Response to Nasal Corticosteroid Under Diesel Exhaust and Allergen Exposure in Adults With Allergic Rhinitis</p> <p>504 Creating and Integrating TelSeq Telomere Length Nomograms From Topmed for Survival Assessment in PFF-PR IPF Patients</p> <p>505 Genomics of Sarcoidosis: A Systematic Review of Genome-Wide Association Studies and Hypothesis-Driven Genetic Studies</p> <p>506 Evaluating the Association Between Beta-2 Adrenergic Receptor Polymorphisms and Asthma Risk in Adults: A Meta-analysis</p> <p>507 Genetic Susceptibility on PM2.5 Exposure and Respiratory and Neurobehavioural Health in Children: A Systematic Review</p> <p>508 Life Stressors, Resilience Resources, and Asthma Among Adults in the Hispanic Community Health Study/ Study of Latinos (HCHS/SOL)</p> <p>509 Residential Ozone Concentrations and Chronic Obstructive Pulmonary Disease Risk: Racial-ethnic Differences in the All of Us Study</p> <p>510 Home Indoor PM2.5 Exposure and Asthma Symptoms Among Urban Adults With Asthma</p> <p>511 Health Impacts of Acute Exposure to Common Pollutants: Findings From a Controlled Human Study</p> <p>512 Personal Care Product Use and Risk of Adult-Onset Asthma: Prospective Cohort Analyses of U.S. Women From the Sister Study</p> <p>513 Inhalation Exposure to PAHs and BTEX Emissions From Grills and Their Influence on Cancer Risk</p> <p>514 Urinary Trace Metal Levels in Humans From NHANES Cohort Associated With Municipal Water Exposure and NTM Infection</p> <p>515 CT Airway-to-Lung Ratio Modifies the Impact of Indoor Air Pollution on Cardiac Autonomic Function in COPD</p> <p>516 Prediction of Pathological Findings From CT Reports Using Random Forest Models in Patients With Chronic Hypersensitivity Pneumonitis</p> |
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**BASIC • CLINICAL • TRANSLATIONAL**

**POSTER DISCUSSION SESSION**

**A29 LUNG DISEASE SUSCEPTIBILITY: BRIDGING GENETICS, EXPOSURES, AND ADVANCEMENTS IN DIAGNOSIS**

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

Moscone Center

Room 3010/3012 (West Building, Level 3)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

- 501 Loss of Y Chromosome and Its Associations With Lung Function, Methylation, and Protein Dynamics in Men With Smoking History



- 517 The Correlational Structure of Lung CT and PFT in COPD Are Stable Over Five Years
- 518 Association Between PM<sub>2.5</sub> Exposure and Chest CT Parametric Response Mapping Changes in Individuals With a Smoking History: A Spiromics Air Analysis
- 519 Correlation of Lung Function Measures With X-ray Velocimetry (XV) Ventilation Metrics in People With Silicosis
- 520 Using Mendelian Randomization to Infer a Causal Relationship Between Early Menopause and Lung Health Outcomes in Females With Natural Menopause
- 521 Pilot Study of a Novel Wearable Air Quality Monitor and Impulse Oscillometry: Quantification of Occupational Exposure Risks for Emergency Medical Service Personnel on Fire Scenes
- 522 Development of Next Generation Artificial Intelligence Algorithm for Counting Black Carbon in Sputum Cytology Slides Stained With Hema-3
- 523 Screening for Chronic Obstructive Pulmonary Disease (COPD) Using the St. George's Respiratory Questionnaire
- 524 A Novel Metric for Assessing Disparities of Respiratory Care Among Rural Patients: COPD Mortality-To-Pulmonologist Disparity Ratio (CMPDR)
- 525 Asthma Variants in Wood Smoke Responsive Enhancers Associate With COPD Risk in Smokers
- 302 Longitudinal Monitoring of Volatile Organic Compounds in Exhaled Breath Samples Collected From Children Diagnosed With Cystic Fibrosis
- 303 Inflammation Unleashed: Uncovering Relationships Between Cathepsin B and Common Cystic Fibrosis Pathogens
- 304 Wildfire Smoke Exposure and Pediatric Spirometry: Exploring Race-based Differences
- 305 Decreased Healthcare Utilization in Children With Severe Asthma 1-year After Biologics: An Interrupted Times Series Analysis
- 306 Association of Obesity and Metabolic Abnormalities With Disease Burden Among U.S. Children Hospitalized for Asthma
- 307 Prevalences and High-risk Groups of Asthma, Allergy and Eczema From Birth Through Adolescence Identified by a Novel Developed Collaborative Library of Individual-level Participant Data of 202,475 Children
- 308 Association Between the Multidimensional Poverty Index (MPI) and Asthma in Children in Colombia
- 309 REM OSA vs NREM OSA in Children: Different Phenotypes or Markers of Disease Severity
- 310 Severe Viral LRTIs in Early Childhood: A Risk Factor for Obstructive Sleep Apnea, Recurrent Hospitalizations and Need for Surgical Intervention in Children
- 311 Smoking Out Inequities: A Spatial Analysis of Social Vulnerability and Childhood Opportunity as Predictors of Tobacco Retail Density in Massachusetts

**CLINICAL • TRANSLATIONAL****POSTER DISCUSSION SESSION**

### **A30 BIOMARKERS, PREDICTORS, AND MODIFIERS OF PEDIATRIC PULMONARY OUTCOMES**

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

Moscone Center

Room 213-214 (South Building, Level 2)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

- 301 Modulator Concentrations Significantly Contribute to Variability in Sweat Chloride Results After Therapy With Elexacaftor/Tezacaftor/Ivacaftor

- 312 Exploring the Relationship Between Bronchoalveolar Lavage Eosinophils and Pulmonary Symptoms in Patients With Eosinophilic Esophagitis
- 313 Childhood Opportunity Index and Asthma Diagnosis in School-age Children With Bronchopulmonary Dysplasia
- 314 The Lymphatic Dysfunction Phenotype in Infants With Severe Bronchopulmonary Dysplasia (BPD): A Distinct, Rare Endophenotype
- 315 Changes in Diuretic Response to Furosemide During Postnatal Maturation in Very Preterm Infants

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| <p>316 Prediction of Adverse Outcomes in Preterm Infants With Pulmonary Hypertension</p> <p>317 Blowing Smoke: Weak Age Restriction Enforcement and Increased Retail Locations Reveal Limits in Federal Tobacco Control Policies</p> <p>318 Pilot Study of Blood Biomarkers for T-helper 17-high Asthma in Youth</p> <p>319 High Night-to-Night Variability in Childhood Obstructive Sleep Apnea Severity</p> <p>320 Preliminary Estimates of the Diagnostic Characteristics of Video Clips for Obstructive Sleep Apnea in Children</p> <p>321 Predictors of Bronchodilator Response on Oscillometry and Spirometry in School-age Children With Bronchopulmonary Dysplasia</p> <p>322 Improved Prediction of Bronchopulmonary Dysplasia Severity Using Time-series Machine Learning</p> <p>323 Benefits of Hydroxyurea in Mitigating Early Onset Lung Disease in Children With Sickle Cell Anemia</p> <p>324 Heart Rate Variability as a Biomarker of Progressive Cardiac Autonomic Nervous System Dysregulation in Congenital Central Hypoventilation Syndrome (CCHS)</p> <p>325 Association Between Exposome, Deoxyribonucleic Acid (DNA) Damage and Asthma in Colombian Children Aged 2 to 4 Years</p> | <p>402 Reversible Obstructive Lung Disease in Pre-school Children With Bronchopulmonary Dysplasia</p> <p>403 Antenatal Endotoxin Causes Sustained Impairments of Airway and Parenchyma Growth in Rat Pups Through the Lifespan: Potential Role of Dysanapsis</p> <p>404 The Role of Inducible Nitric Oxide Synthase (iNOS) in the Hyperoxia-induced Mouse Model of Bronchopulmonary Dysplasia</p> <p>405 Structural and Functional Cardiopulmonary Magnetic Resonance Imaging in Neonates With Bronchopulmonary Dysplasia</p> <p>406 Magnetic Resonance Imaging Captures the Short-Term Trajectory of Parenchymal Lung Disease in Infants With Bronchopulmonary Dysplasia</p> <p>407 Cardiopulmonary Magnetic Resonance Imaging Evaluation in Children With Bronchopulmonary Dysplasia</p> <p>408 The Effect of Antenatal Corticosteroids on Lung Function at 9 Years of Age in Children Born Moderate-to-Late Preterm</p> <p>409 Relationship Between Electrical Impedance Tomography Measurements and Parameters of Respiratory Status in Very Preterm Infants, An Observational Cohort Study</p> <p>410 Serial MRI Evaluation of Tracheomalacia Changes in Neonates With Bronchopulmonary Dysplasia</p> <p>411 Perinatal Treatments Are Not Associated With the Physiological Responses to Exercise in Survivors of Very Preterm Birth During Early Adulthood</p> |
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- BASIC • CLINICAL • TRANSLATIONAL**
- RAPID: ABSTRACT POSTER DISCUSSION SESSION**

### A31 THE EVOLVING LANDSCAPE OF BRONCHOPULMONARY DYSPLASIA: MAKING STRIDES

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

Moscone Center

Room 301-302 (South Building, Level 3)

Viewing/Abstract Summaries

9:15-10:00

Discussion

10:00-11:15

- 401 Association of FOXF1 Transcription Factor Gene Variants and the Development of Bronchopulmonary Dysplasia in Extremely Low Birth Weight Infants

### BASIC • CLINICAL • TRANSLATIONAL

### THEMATIC POSTER SESSION

### A32 IT'S NOT EASY BEING WHEEZY: ASTHMA AND COPD CLINICAL STUDIES

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

Moscone Center

Area L, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1359** A Novel Integrative Network Approach Adapted to REGAIN, A Longitudinal Asthma Cohort, Reveals Cellular Dynamics Related to Biologic Therapy Response
- P1360** As-needed Albuterol-budesonide Decreases Risk of Severe Asthma Exacerbation in the First Three Months Post-randomization Compared to As-needed Albuterol in Patients Treated for Moderate-to-Severe Asthma: MANDALA Post-Hoc Analysis
- P1361** Performance of the Pediatric Asthma Impairment and Risk Questionnaire (Peds-AIRQ) in Assessing Control for Children With Asthma Aged 5 to 11 Years
- P1362** Airway Inflammation and Asthma Control in Patients With Moderate Asthma Using Salbutamol or Budesonide/Formoterol Reliever: A Randomized, Controlled, Open-label Study
- P1363** Nasal Brushing Transcriptional Phenotypes Distinguish Type 2-high and -low Asthma in REGAIN, A Longitudinal Asthma Cohort
- P1364** Functional Analysis of Type 2 Lymphocytes Before and After Treatment With Benralizumab in Severe Eosinophilic Asthma Patients: Findings From the Tokyo Asthma Study (TOAST)
- P1365** Multidimensional Risk Index With Treatable Traits for Hospitalized Asthma Outcomes: Clinical Implication
- P1366** Mepolizumab in patients with COPD: Results from the MATINEE Phase III Randomized Controlled Trial
- P1367** Mepolizumab in patients with COPD: Results from the MATINEE Phase III Randomized Controlled Trial
- P1368** Influence of Comorbidities on Long-term Clinical Outcomes in Severe Asthma: Insights From the German Asthma Net (GAN)
- P1369** Nasal Epithelial Gene Expression Analyses of Candidate Senescence Genes Identify MMP2 and FN1 Associated With Asthma Susceptibility and Severity in the ATLANTIS Study
- P1370** The Safety of Long-Acting Beta-Agonists in Pregnancy
- P1371** Reduction in the Use of Rescue Medication for Asthma Symptom Relief With Rilzabrutinib: Results From a Phase 2 Study
- P1372** Nocturnal CPAP as a Means of Improving Lung Function in Obese Asthma
- P1373** Determinants of Oral Corticosteroids Use in the Treatment of Asthma Exacerbation
- P1374** CHF6795 a Novel, Potent, and Selective Oral P2X3R Antagonist Showing Strong Anti-tussive Effect and No Taste Alteration in Preclinical Models
- P1375** BBT002: A Novel Tetravalent Bispecific Antibody Targeting IL4Ra and IL5 for Enhanced Asthma Therapy
- P1376** Long-term Reduction in Inhaled and Systemic Corticosteroid Exposure During Anti-interleukin 5 Therapy for Severe Asthma - A Nationwide Study From the Danish Severe Asthma Registry
- P1377** Suppressing Type 2 Inflammation Through Reprogramming of Pathogenic Group 2 Innate Lymphoid Cells: A Potential Therapeutic Approach for Allergic Diseases
- P1378** IRL201104, A Novel Immunomodulatory Peptide, Shows a Wide Spectrum Long Lasting Effect on Inflammatory Endpoints Through the Sublingual Route in a Model of Allergic Inflammation
- P1379** Evaluation of Patient-Reported Outcomes (PRO) and Satisfaction With Once-daily Vilanterol/Fluticasone Furoate (VI/FF) in Uncontrolled Asthma Patients Experiencing Frequent Exacerbations on Conventional Treatment: Sub Group Analysis of a Real World Study
- P1380** Mepolizumab in Patients with COPD: Results from the MATINEE Phase III Randomized Controlled Trial
- P1381** Real-world Effectiveness of Benralizumab in Japanese Patients With Severe Asthma: Tokyo Asthma Study (TOAST)
- P1382** Regional Variation in Response to Depemokimab Versus Placebo in Patients With Asthma With Type 2 Inflammation: Subgroup Analyses of the Phase III SWIFT-1/2 Studies
- P1383** Use of Asthma Self-Management Plan in Determining Clinical Outcomes in Patients With Asthma at the University of Nigeria Teaching Hospital Enugu

- P1384** Psychometric Evaluation Supports the Validation of the St George's Respiratory Questionnaire in Patients With Asthma With Type 2 Inflammation Receiving Medium-to-High Dose Inhaled Corticosteroids
- P1385** Qualitative Interviews Support the Content Validity of the St George's Respiratory Questionnaire in Patients With Moderate Asthma
- P1386** Efficacy of Rademikibart in COPD-like Patients: Sub-analyses From the Phase 2b Trial in Patients With Moderate-to-Severe Asthma
- P1387** Enabling Population Health With AI Tools to Improve Care in Severe Uncontrolled Asthma
- P1388** Body Fat Percentage as a Stronger Determinant in Asthma Pathophysiology and Treatment Response Than Body Mass Index
- P1389** Disease Burden and Treatment Pattern in Chinese Moderate-to-Severe Asthma Patients: Baseline Analysis of a Real-world, Multicentre Study (PRESENT)
- P1390** Albuterol-Budesonide Treatment in Acute Airway Obstruction: Patient Selection for the ALTA Study
- P1391** Association of Insulin Resistance and Asthma Outcomes: A Pilot Study
- P1392** Highly Selective and Reversible STAT6 Inhibition Demonstrates Potential for Differentiated Efficacy and Safety Profile in Type 2 Allergic Inflammation
- P1393** Evaluation of Lung- Function and Asthma Control in Patients With Persistent Airflow Limitation on Indacaterol/Mometasone/Glycopyrronium Dry Powder Inhaler: A Sub-group Analysis of a Phase IV Study
- P1394** Analysis of Risk Factors for the Escalation of Initial Treatment and New Evidence for Initial Treatment With Antifungal Therapy in Patients With Allergic Bronchopulmonary Aspergillosis
- P1395** Corticosteroid-associated Systemic Adverse Events in Patients on Background Inhaled Corticosteroid Maintenance Therapy and Taking Albuterol-Budesonide Versus Albuterol as Rescue: Post-hoc Analysis of MANDALA
- P1396** Overuse of Rescue Bronchodilators in Asthmatics in Real Life. Evidence for Impaired Spirometry and Uncontrolled Eosinophilic Airway Inflammation
- P1397** Clinical Characteristics and Predictors of Outcomes in Patients With Eosinophilic Lung Disease Requiring Intubation: A Cross-sectional Study Using National Inpatient Data (2016-2021)
- P1398** Single-Inhaler Triple Therapy Is Useful for Achieving Clinical Remission in Patients With Bronchial Asthma by Improving Asthma Control Test Scores
- P1399** Clinical Impact of Asthma-COPD Overlap in Severe Asthma: A Subanalysis From Hi-CARAT Study
- P1400** FASE 2 - CPHG: Initial Findings of an Observational Study of Patients With Severe Asthma Treated in French Nonacademic Hospitals
- P1401** Real-world Compliance With Anaphylaxis Management Guidelines in the Emergency Department: A 4-year Retrospective Study
- P1402** Addressing Unmet Needs in Asthma Management: A Community-Based Approach
- P1403** Safety and Tolerability of Intranasal OM-85 (OM-85-IN) in Healthy Volunteers and Patients With Mild Allergic Asthma: A Phase 1a/1b Randomized, Double-Blind, Placebo-Controlled Study
- P1404** The Effect of an Asthma Flare-up Clinic on Disease Management and Outcomes - A Single Center Randomized Controlled Trial
- P1405** Clinical Remission of Mild-to-Moderate Asthma: Rates, Contributing Factors, and Stability
- P1406** Baseline Characteristics of Patients With Asthma Initiating Albuterol-Budesonide Rescue: A Real-world US Claims-based Study
- P1407** Assessing Health-related Quality of Life in Severe Asthma: Insights From the Korean Severe Asthma Registry
- P1408** Considerations of Treatment Strategies for Type 2-low Asthma
- P1409** Offering Digital Adherence Support Improves Clinical Outcomes for High-Risk Chronic Obstructive Pulmonary Disease (COPD) Patients With Poor Adherence to Inhaled Therapy



## CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

**A33 BIOMARKER WINDOW INTO LUNG DISEASE**

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

Moscone Center

Area M, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

**P1513** Fraction Exhaled Nitric Oxide as a Novel Biomarker of Relapse in Eosinophilic Granulomatosis With Polyangiitis

**P1514** Type-2 and Allergic Biomarkers in Asthma and/or COPD in the NOVELTY Study

**P1515** Effect of Rademikibart on Blood Eosinophil Counts in Patients With Asthma: Is There an IL-4R $\alpha$  Class Effect?

**P1516** Quantification of TLT-1+ Microparticles to Predict Clinical Outcomes in ARDS - A Prognostic Marker

**P1517** Heterogeneity of Eosinophils in Chronic Obstructive Pulmonary Disease

**P1518** Linear Modeling Reveals Novel Insights Into Predictive Values of Biomarkers for Tezepelumab Efficacy

**P1519** FeNO as a Prognostic Biomarker for Clinical Response in Asthma: An Evaluation of Response Thresholds

**P1520** Study of Soy Isoflavones (SOYA) Responder Analysis Among Patients Who Have 4G4G/4G5G Serine Protease Inhibitor Family E Member 1 (SERPINE1) Genotypes

**P1521** Characterizing Vascular Leak and Serum Biomarkers After Dexamethasone Treatment in Murine Influenza Acute Lung Injury Model

**P1522** Acute Biomarkers of Sustained Loss of Lung Function After Recovery From Asthma Exacerbations

**P1523** Variations in the Blood Eosinophil to Serum IgE (eos/IgE) Ratio Identify Asthma Subgroups With Distinct Clinical Traits

**P1524** Nasal Immune Mediators as Biomarkers of Airway Biological Age

**P1525** Plasma Fibrinogen as a Predictor of Disease Severity and Exacerbation: Insights Across the Pre-COPD and COPD Continuum

**P1526** The Association of Adipose Indices and Inflammatory Biomarkers in Uncontrolled Obesity-associated Asthma

**P1527** Predictive Value of Eosinophil Percentage in BALF for Identifying Th2-high Asthma

**P1528** Biomarkers Poorly Distinguish Nasal Polyposis History in Patients Participating in Asthma Clinical Trials: Findings From the ORACLE2 Patient-level Meta-analysis

**P1529** Utility of Fractional Exhaled Nitric Oxide Compared With Methacholine Challenge Test for the Diagnosis of Bronchial Asthma in Adult Patients in a Tertiary Hospital in the Philippines

**P1530** The Relationship Between Inflammatory Biomarkers and New-onset Chronic Obstructive Pulmonary Disease and Rapid Lung Function Decline: Results From the Population-based Cohort Study in China

**P1531** IL-26 as a Potential Biomarker in Moderate to Severe COPD at a Tertiary Center

**P1532** Impact of Dupilumab on Type 2 Inflammatory Biomarkers in Patients With Chronic Obstructive Pulmonary Disease (COPD)

**P1533** Type 2 Inflammatory Biomarkers and Lung Function Improvement in Patients With Chronic Obstructive Pulmonary Disease (COPD) Receiving Placebo Therapy

**P1534** Association of Area Deprivation Index With Biologic Markers of Atopy in Patients With Asthma

**P1535** Individual Digitally Assessed Inhaled Corticosteroid Use in Patients With Severe Asthma: The Effect on T2 Biomarker Status, Immunology, Physiology and Exacerbations

**P1536** Serial Lung Function Measures and Incorporation of Measures of T2 Status Can Better Diagnose Asthma in Patients Already Established on Inhaled Corticosteroids

**P1537** AI-guided Engineering and Generation of Bispecific Antibodies Targeting Both IL13 and TSLP for Chronic Respiratory Diseases

- P1538** Associations Between Circulating CC10 Levels and Gene G38A Polymorphism With Subsequent Asthma Outcomes in Patients With Moderate-to-Severe Asthma
- P1539** Changes in Small Airway Dysfunction in Patients With Severe Asthma 6 Months After Initiating Tezepelumab - Initial Observations
- P1540** Cat vs. Dog: Impact of Allergic Pet Sensitizations on Markers of Asthma Severity in an Urban Population
- P1541** Eosinophil Levels and Testing Rates of Related Inflammatory Biomarkers Among Chinese Patients With Moderate-to-Severe Asthma: Baseline Analysis of a Real-world, Multicenter Study
- P1542** Sputum Analysis in Non-CF Bronchiectasis
- P1543** Skin Prick Test Reactivity to Common Aeroallergens Among the Study Population of 328 Patients
- P1544** Fluctuation Patterns of the Urine Metabolome in Patients With Asthma Compared to Healthy Individuals

### CLINICAL • TRANSLATIONAL

### THEMATIC POSTER SESSION

## A34 WINNING THE BIOLOGIC BATTLE IN ASTHMA AND COPD

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

Moscone Center

Area L, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1411** Dupilumab Improves Lung Function in Patients With Chronic Obstructive Pulmonary Disease (COPD) and Type 2 Inflammation: A Pooled Analysis From the Phase 3 NOTUS and BOREAS Trials
- P1412** Safety and Efficacy of Dupilumab in Adults and Adolescents With Asthma in the RAPID Registry
- P1413** Assessing Inhaler Adherence and Lung Function in Patients With Difficult-to-Treat Asthma Being Considered for a Biologic: A Real World Study

- P1414** Severe Asthma After 2 Years of Dupilumab Therapy: Real-world Data From the ProVENT Study
- P1415** Safety Profile of Tozorakimab (an Anti-IL-33 Monoclonal Antibody): Data From the FRONTIER Phase 2 Program of 1076 Patients
- P1416** Dupilumab Reduces Exacerbations and Improves Asthma Control in Children Regardless of Asthma Duration
- P1417** Reasons for Discontinuation of Tezepelumab in a Real-world Cohort of Specialist-treated Asthma Patients
- P1418** Reduction of Exacerbations According to Type 2 Inflammatory Biomarkers With Dupilumab Treatment in Patients With Chronic Obstructive Pulmonary Disease (COPD)
- P1419** Dupilumab Efficacy in Patients With Chronic Obstructive Pulmonary Disease (COPD) With Type 2 Inflammation Across Baseline Eosinophil Counts
- P1420** Dupilumab Efficacy in Patients With Chronic Obstructive Pulmonary Disease (COPD) and Type 2 Inflammation With and Without Emphysema
- P1421** Clinical Remission Achieved With Benralizumab in Japanese Patients With Severe Asthma: Findings From the Tokyo Asthma Study (TOAST)
- P1422** Exploring Global Geographic Variation in Exacerbation Rates in Randomized Controlled Trials of Biologics in Patients With Severe Asthma: A Systematic Literature Review
- P1423** From Mice to Humans: The IL-33 and IL-4R $\alpha$  Blocking Antibodies, Itepekimab and Dupilumab, Modulate Distinct and Common Inflammatory Mediators in Asthma
- P1424** Bispecific Antibody Targeting Both IL33 and TSLP for Asthma and COPD
- P1425** Discrete Event-Simulation Model Projects Mepolizumab Treatment Outcomes Associated With Long-Term Clinical Remission in Severe Asthma
- P1426** Effectiveness of Biologic Therapy in Reducing Acute Exacerbations in Asthma: A Real-world Propensity-matched Analysis
- P1427** Dupilumab Improves Long-term Asthma Control In German Patients With Severe Asthma: Real-word Data

- P1428** Association Between Improvements in Mucus Score and Volume and Changes in Type 2 Biomarkers in Patients With Moderate-to-Severe Asthma Receiving Dupilumab in the Vestige Study
- P1429** Twice-Yearly Depemokimab Demonstrates Efficacy in Patients With Asthma in China and Japan: Subpopulation Analyses of the SWIFT-1/2 Studies
- P1430** Impact of Biological Therapy on ICS/LABA Adherence in Patients With Severe Asthma
- P1431** The Myristoylated Alanine-rich C-kinase Substrate (MARCKS) as a Host Defense Protein Against SARS-CoV-2 Infection Via an Extracellular Vesicle (EV) Mediated Mechanism
- P1432** Benralizumab Adherence Reduces Exacerbations and Exacerbation-related Medical Costs Among Patients With Severe Asthma: Results From the Zephyr-5 Study
- P1433** Suboptimal Response to Biologics in Severe Asthma Patients With Humoral Immunodeficiencies
- P1434** Efficacy of Benralizumab in Reducing Cough Frequency and Improving Health-Related Quality of Life in Patients With Severe Eosinophilic Asthma in Asia: A Post-hoc Analysis of the Phase 3 Miracle Study
- P1435** In-vitro Characterization of Solrikitung, A Differentiated Anti-TSLP Antibody, Provides Distinct Epitope Binding Profile and Superior Potency Compared to Tezepelumab
- P1436** Characteristics of Patients With Severe Asthma Initiating Dupilumab in a Real-world Setting: The Reveal Registry
- P1437** Younger Severe Asthma Patients With Interleukin 4 (CC Variant) and Dupilumab Treatment Are More Likely to Achieve Clinical Remission
- P1438** Exploring Factors Associated With Clinical Remission in Patients With Severe Asthma Receiving Anti-IL-4R $\alpha$ , Anti-IL-5/5R, or Anti-IgE Treatment
- P1439** Optimized Second-generation IL-4Ra Inhibition: Structural and Molecular Dynamics Properties of Rademikibart Fab-IL-4R $\alpha$  Complex
- P1440** Potential Biomarker for Predicting Clinical Remission Achieved by Mepolizumab in J-Real-Mepo Study
- P1441** Dupilumab Improves Health-related Quality of Life and Asthma Control in Patients With and Without Coexisting Type 2 Conditions: Results From the RAPID Study
- P1442** Effect of Benralizumab on Nasal Symptoms in Patients With Severe Asthma: An Analysis From the Tokyo Asthma Study (TOAST)
- P1443** Efficacy of Tezepelumab-Ekko in Reducing Asthma Exacerbations in Patients With Severe Asthma and Comorbid Obstructive Sleep Apnea
- P1444** Biologics in Asthma: A Cook County Experience
- P1445** Predictive Value of Peak Expiratory Flow Variability in Response to Benralizumab in Patients With Severe Asthma: Insights From the Tokyo Asthma Study (TOAST)
- P1446** Effect of Biologics on Changes of Forced Expiratory Volume in One Second in Severe Asthma
- P1447** Effects of Biologics on Mucus Plugs in Patients With Severe Asthma
- P1448** CT Imaging Analysis Before and After Biologic Therapy in Severe Asthma
- P1449** Fractional Exhaled Nitric Oxide and Asthma Control in Moderate to Severe Asthma Patients Treated With Omalizumab: A Retrospective Cohort Study
- P1450** Towards Patient-centric Asthma Endpoints: A Targeted Review of Exacerbation, Control, and Remission Concepts
- P1451** Clinical Remission in Severe Asthma With Dupilumab
- P1452** Inhaled Anti-IL-4R $\alpha$  Single-domain Antibody Significantly Reduces FeNO in Moderate-to-Severe Asthma Patients: A Phase 2a Proof-of-Concept Study

## BEHAVIORAL • CLINICAL

## THEMATIC POSTER SESSION

**A35 VACCINATIONS, COVID AND OTHER TOPICS IN RESPIRATORY INFECTIOUS DISEASE**

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

Moscone Center

Area J, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1079 Engaging With Patients Who Are Vaccine-hesitant With the Hear Technique**
- P1080 Assessing Concordance Between a Large Health System Electronic Health Record and State Immunization Information System for Respiratory Vaccines: A 2-year Study**
- P1081 Poor Asthma Control Correlates With Lower Rates of Influenza and COVID-19 Vaccination in Adults With Asthma**
- P1082 Rooting Out Barriers to Vaccination in a Safety-net Hospital Pulmonary Clinic - A Summary of Mini Focus Group Findings**
- P1083 Acceptability of Controlled Human Infection Models (CHIM) in Malawi: Stakeholder Views on Critical Considerations in New Chim Models (Tuberculosis-CHIM) and New Study Groups (People Living With HIV)**
- P1084 The Improving Access to Culturally Relevant Long COVID Care and Treatment (Impacct) Program: Qualitative Insights to Guide Implementation**
- P1085 An Immunization Preventative Initiative in Our Underserved Population**
- P1086 The Design of a Vaccine Probe Study to Demonstrate the Causality and Contribution of Respiratory Syncytial Virus Lower Respiratory Tract Infection on Recurrent Wheezing Illness and Asthma in Children**
- P1087 Factors Influencing Patients' Receptivity to Influenza, Pneumonia, and COVID-19 Vaccinations at a Specialty Pulmonary Clinic Serving Rural Appalachians**

- P1088 Risk Factors and Outcomes of All-Cause Readmission Among Previously RT-PCR Positive COVID-19 Patients at a Private Tertiary Hospital in Iloilo City (2020-2024): A Retrospective Cohort Study**

## BEHAVIORAL • CLINICAL

## THEMATIC POSTER SESSION

**A36 PULMONARY HYPERTENSION PATIENT EXPERIENCE, HEALTH SERVICES AND OUTCOMES**

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

Moscone Center

Area C, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P249 Should Your PE Happen During Business Hours: Pert Usage and Temporal Variations**
- P250 Qualitative Interviews of Physicians Managing Patients With Methamphetamine-associated Pulmonary Arterial Hypertension: Understanding the Unmet Medical Need From a Provider Lens**
- P251 Acute Inpatient Utilization Among Medicaid Patients Treated for Pulmonary Arterial Hypertension**
- P252 Variability of Medication Use in Systemic Sclerosis-related Pulmonary Hypertension With and Without Prior Pulmonary Embolism**
- P253 The Impact of Cardiopulmonary Comorbidities on the Economic Burden and Mortality of Pulmonary Arterial Hypertension in the United States**
- P254 Caregiver Network and Caregiving Needs in Women With Pulmonary Arterial Hypertension (PAH)**
- P255 Enhancing Diagnostic Precision: Characterizing Subgroup Variability Within WHO Group 3 Pulmonary Hypertension Using ICD-10 Code I27.23 and Manual EHR Review**
- P256 Patient Reported Experience of Participants in the ARTISAN Study for Pulmonary Arterial Hypertension (PAH)**



## BEHAVIORAL • CLINICAL

## THEMATIC POSTER SESSION

**A37 HIGHLIGHTS IN DIFFUSE LUNG AND RARE DISEASES**

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

Moscone Center

Area A, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1** Evaluating Social Risk Factors and Their Influence on Lung Function, BMI, and Exacerbation Frequency in Patients With Cystic Fibrosis
- P2** Lymphangioleiomyomatosis Patient Research Priorities Survey: Developing Patient-centered Research Agenda
- P3** A National Survey to Understand How Patients With Sarcoidosis Participating in Peer-Led Support Groups Engage With Their Disease and Experience Quality of Life, Self-Efficacy, and Therapeutic Relationships
- P4** Patient Preferences and Priorities for Future Therapies: An Externally Led Patient-focused Drug Development Meeting on Sarcoidosis
- P5** Evaluating Barriers to Care: A Cross-Sectional Survey of Patients in North Carolina With Interstitial Lung Disease Seen at a Tertiary Subspecialty Clinic
- P6** Symptom Factors Among Adults With Cystic Fibrosis
- P7** Factors Influencing Participation in Pulmonary Fibrosis Clinical Trials - A Qualitative Study
- P8** Predictive Value of Fibrosis Scoring and Genomic Classifier in Patients With ILD
- P9** Real-world Treatment Patterns in Patients With Eosinophilic Granulomatosis With Polyangiitis (EGPA)
- P10** Evaluating the Economic Burden: Lifetime Direct and Indirect Costs of Managing Alpha-1 Antitrypsin Deficiency for Patients With the PiZZ Genotype Receiving Augmentation Therapy in the United States

- P11** Multiple Pulmonary Hospitalizations More Common for Black Patients With ILD Despite High Rate of Pulmonary Sarcoidosis Compared to White Patients
- P12** Geographic Associations With Pulmonary Referrals for Sarcoidosis Within a Large, Academic, Tertiary Care Medical System
- P13** Socioeconomic and Racial Disparities in Patients With Acute Exacerbations of Bronchiectasis: Insights From the New York City Public Hospital System
- P14** Clinical Characteristics of Interstitial Lung Disease at a Safety Net Hospital: An Opportunity to Explore Barriers to Care
- P15** A Review of the Healthcare Needs of Duchenne Muscular Dystrophy Patients
- P16** Evaluation of King's Sarcoidosis Questionnaire Scores Based on Insurance Status
- P17** Variability in Testing to Establish a Diagnosis of Sarcoidosis Among Patients Labeled With Sarcoidosis in a Single Center Retrospective Cohort Study
- P18** Impact of Myasthenia Gravis on Outcomes of Pulmonary Embolism - Recent Insight From the National Database

## BEHAVIORAL • CLINICAL

## THEMATIC POSTER SESSION

**A38 MEDICAL EDUCATION AND WELLNESS**

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

Moscone Center

Area F, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P655** Efficacy of a Non-pharmacologic Intervention in Reducing Burnout Among Women Healthcare Providers
- P656** Pulmonary Physicians and Other Medical Specialists Spend Their "Pajama Time" Working After Hours in the Electronic Health Record

- P657** Self-directed Learning Via AI-assisted Probe Guidance Versus Traditional Expert Guided Ultrasound Training in Novices: A Pilot Study
- P658** Leveraging Quality Improvement in Medical Education: The Sweet Hour Journal Club
- P659** Use of CT Pulmonary Angiography; Quality Improvement Through Education and Culture Change
- P660** Clearing the Air: Addressing Internal Medicine Residents' Knowledge Gaps of Racial, Socioeconomic, and Gender Disparities in Chronic Obstructive Airway Diseases
- P661** The Effect of Medical School Simulation Training on Cognitive Load in the Pulmonary Curriculum
- P662** The Effect of Medical School Simulation Training on Emotion in the Pulmonary Curriculum
- P663** High-acuity, Low-occurrence Procedural Simulation Training for Pulmonary and Critical Care Medicine Fellows
- P664** Assessment of Transthoracic Echocardiography Training for Emergency Medicine Residents in France
- P665** A Low Fidelity Model for Thoracostomy Tube Insertion
- P666** A Practical Point of Care Cardiac Ultrasound Curriculum for Internal Medicine Residents
- P667** Evaluation of Organizational Readiness for Simulation in Secondary and Tertiary Care Hospitals in a Low-middle Income Country
- P668** Initial Assessment of an Educational Program on Air Pollution for Professional Trainees
- P669** Novel, Structured, Longitudinal Radiology Curriculum for Graduate Medical Education
- P670** Survey Amongst Anesthesiology Faculty, Residents and Fellows at an Academic Medical Center Regarding Stethoscope Usage With Associated Barriers and Beliefs
- P671** Are We Moving the Needle? Assessing the Effectiveness of a Virtual Course Series for Pulmonary Hypertension
- P672** Fellow Knowledge and Confidence Levels After the Development and Implementation of an Innovative Pulmonary Hypertension Curriculum: Evaluation of Two Cohorts

- P673** Online Clinician Education Supports Improvements in Clinical Practice Related to Asthma Recognition, Assessment, and Patient Referral
- P674** Online Webinar Series Improves Pulmonologists' and PCPs' Knowledge and Confidence in COPD Management
- P675** Online Continuing Medical Education Improves Clinicians' Knowledge and Confidence in Chronic Obstructive Pulmonary Disease Management
- P676** Interdisciplinary Continuing Medical Education Intervention Improves Clinicians' Knowledge and Confidence in Recognition and Management of Worsening Chronic Obstructive Pulmonary Disease
- P677** Resilience and Burnout: A National Survey of Intensive Care Unit Interprofessional Teams

## BEHAVIORAL • CLINICAL

### THEMATIC POSTER SESSION

#### A39 CUTTING EDGE RESEARCH IN ASTHMA AND DYSPNEA

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

Moscone Center

Area L, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1454** Intervention Effects of the Rhode Island Asthma Integrated Response (RI-AIR) Program Maintained Across the Transition to Remote Delivery
- P1455** Disease Burden of Asthma in African Americans in the US: Real World Data Analysis Using Immunolab, A Rwe Generation Platform
- P1456** Impact of the COVID-19 Pandemic on Asthma-Related Healthcare Use in Adults
- P1457** Barriers and Facilitators to Transitioning to Maintenance and Reliever Therapy for Patients With Moderate to Severe Asthma

- P1458** The Betri Study: Preliminary Information on Characteristics of Patients With Asthma or Asthma and Concomitant COPD Overlap Treated With Medium-strength Inhaled Corticosteroid / Long-Acting Beta-Agonists (ICS/LABA) and Switching to High-Strength ICS/LABA o
- P1459** Implementation of Single Maintenance and Reliever Therapy (SMART) Prescribing Into Clinical Practice
- P1460** A Real-World Study on Clinical Remission of Asthma Patients on Biologics
- P1461** Clinical Remission Is an Achievable Goal for Patients With Severe Asthma Receiving Mepolizumab in Europe: A Chart Review
- P1462** Evolution and Factors Associated With Presenteeism in Severe Asthma After Treatment With Biologics
- P1463** Perception of Biologics in Adults With Asthma and CRSwNP: International Survey Results
- P1464** Diesel Exposure and Stock Inhaler Events: Are Schools in High-emission Areas at Greater Risk?
- P1465** Attitudinal Profiles and Their Behavioral Traits in Asthma Patients
- P1466** The Question Items Account for Asthma-related Outcome of Elderly Are Different From Non-elderly
- P1467** Can a New Portable Valved Holding Chamber (VHC) for Use on the Go Improve the Delivery and Reduce Side Effects of a New Combination Albuterol/Budesonide Inhaler?
- P1468** Are Best Practices for Asthma Care Being Followed Among Adults in Northeastern Brazil?
- P1469** Educational Initiative to Provide Personalized Asthma Care: Empowering Patients in Brazil
- P1470** Development and Definition of Functionalities for a Mobile Health Platform for Asthma Control: Evaluation, Support, and Monitoring
- P1471** The Influence of the Action Plan on Asthma Control: A Perspective of Brazilian Adults
- P1472** A Randomized Controlled Trial to Assess the Effect of Benralizumab on Structural and Lung Function Changes in Patients With Severe Eosinophilic Asthma: Design of the CHINOOK Study
- P1473** Spirometry Profiles of Overweight and Obese Individuals With Unexplained Dyspnea

- P1474** Aerosol Delivery Differences and Cost Analysis of Wasted Medication Under Clinically Relevant Test Methods Using a Valved Holding Chamber With Facemask and Fluticasone Propionate
- P1475** Therapeutic Asthma Prescription Patterns for Specialists and Non-specialists in Brazil: A Survey With 315 Physicians

## CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

### **A40** INNOVATIONS AND CHALLENGES IN MECHANICAL VENTILATION: OPTIMIZATION, WEANING, AND ADVANCED RESPIRATORY SUPPORT

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

Moscone Center

Area K, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1205** Mechanical Ventilator Weaning in Prolonged Mechanical Ventilation
- P1206** How Do the Oxygen Saturation Values That Mechanically Ventilated ICU Patients Experience in Clinical Care Compare to the Personalized Targets That a Machine Learning Model Predicts Will Result in the Best Outcomes?
- P1207** Nasal High Flow With Asymmetrical Cannula: Effects on the Neural Respiratory Drive and the Ventilation in COPD Patients During Acute Exacerbation
- P1208** Synergistic Effects of High Mechanical Power and Fluid Accumulation on Mortality in Mechanically Ventilated Patients
- P1209** Development and Validation of Predictive Models for Plateau Pressure and Driving Pressure in Mechanically Ventilated Patients
- P1210** Feasibility of Measuring Driving Pressure and Patient Effort in Assisted Modes of Ventilation: An Observational Study
- P1211** Validating a Charge-based Algorithm for Identifying Extubation in Mechanically Ventilated Patients

- P1212** Comparative Analysis of the Effects of Flow and Oscillatory Bronchial Hygiene Maneuvers on Respiratory Mechanics of Adult Patients Under Invasive Mechanical Ventilation: A Randomized Clinical Trial
- P1213** Is There an Optimal PEEP for Pulmonary Hemodynamics in Acute Injured Lungs?
- P1214** Infrared Temperature Differentiation Between Artificial Airway and Nasogastric Tube: A Potential Novel Tool for Confirming Airway Position
- P1215** Risk Factors for and Prediction of 28-day In-hospital Mortality in Critically Ill Adults Undergoing Tracheal Intubation
- P1216** A Machine Learning-derived Clinical Score Predicts Passive Ventilation 48 Hours After Initiation of Invasive Mechanical Ventilation
- P1217** Association of Obesity With Mortality, ARDS, and Thromboembolism in ICU Patients on Prolonged Ventilation
- P1218** Wake Up and Breathe! Minimizing Time From Passing Spontaneous Breathing Trial to Extubation - A Qi Project
- P1219** Introduction of a Respiratory High Care Unit Into a Specialist Critical Care Centre in Wales, UK
- P1220** A Novel Equation for Bedside Estimation of Elastic Power in Passively Ventilated Patients
- P1221** Heartbeat Interference on Ventilator Pressure-time Waveform as a Novel Pulmonary Parameter: Correlation With Pulmonary Mechanics
- P1222** Heartbeat Interference on Ventilator Pressure-time Waveform to Predict Recruitability and Overdistention
- P1223** Predicting Lung Recruitability and Monitoring Recruitment Maneuver Efficacy at the Bedside: Are We Doing It Right?
- P1224** Accurate Measurement of Oxygen Consumption in Mechanically Ventilated Patients Using a Molecular Flow Sensor
- P1225** Getting High on PEEP: Esophageal Balloon for PEEP Optimization in Obese Patients With Respiratory Failure
- P1226** Factors Affecting the Duration of Mechanical Ventilation and Mortality in Intubated Chronic Obstructive Pulmonary Disease Patients
- P1227** Predictors of Non-invasive Ventilation in Acute Hypercapnic Respiratory Failure: A Single Center Experience
- P1228** Pediatric Endotracheal Tube Securement: A Bench Model Comparison of Tape and Neobar® to Simulate Unplanned Extubation in Infants
- P1229** A Dive Into Risk Factors for Self-Extubations at a Rural University Health Network
- P1230** Breathing Easy: NIV Interface Comparison in Post-cardiac Surgery
- P1231** Lung Recruitability Assessment Using Pressure-volume Curve May Be Affected by Its Peak Pressure
- P1232** Pocc as a Predictor in the Weaning Protocol From Mechanical Ventilation in Patients With Acute Respiratory Distress Syndrome
- P1233** Comparison of Noninvasive Ventilation With or Without Mechanical Ventilation for Myasthenia Gravis Exacerbation: A Retrospective Observational Study
- P1234** Intravenous Oxygen Delivery With Free Oxygen Nano- and Microbubbles in Saline
- P1235** Comparison of Rox Index and Hacor Scoring in Predicting In-Hospital Mortality and Success of High Flow Nasal Cannula in Patients With Acute Hypoxic Respiratory Failure: A Retrospective Analytical- Cohort Study
- P1236** The Effect of Prone Position-induced Lung Recruitment Is Independent From Its Effect on Perfusion and Gas Exchange: A Secondary Computed Tomography Analysis of a Controlled Circulatory Death Donor Model
- P1237** Anatomical Asymmetry in Upper Airways During Asymmetrical Nasal High Flow
- P1238** Acoustic Rhinometry May Predict Nasal Resistance During Breathing
- P1239** Efficacy of High-flow Nasal Cannula in Type II Respiratory Failure
- P1240** How Often Does an Initial Tidal Volume of 450 ML Provide Lung-Protective Ventilation?
- P1241** Prolonged Mechanical Ventilation on Patients Undergoing Cytoreductive Surgery With Intraperitoneal Chemotherapy (Sugarbaker Surgery): Risk Factors



- P1242 High Intraoperative Positive End-Expiratory Pressure (PEEP) Levels in Cardiothoracic Surgery: Impact on Postoperative Recovery
- P1243 Primary Non-invasive Respiratory Support in Severe Bronchiolitis: A Multicenter Cohort Study
- P1244 Novel Adaptive High-Flow Oxygen Therapy
- P1245 APRV-TCAV Use With Severely Obese ARDS Patients Avoids ECMO
- P1246 Tracheostomy Care: A Hospital's Dilemma
- P1247 Base Excess Levels as a Predictor of Successful Liberation From Mechanical Ventilation: A Retrospective Clinical Study
- P1248 Effect of Positive End-expiratory Pressure on Lung Mechanics and End-expiratory Lung Volume in a Swine Model of Obesity and Acute Hypoxemic Respiratory Failure
- P1249 Airway Closure in Obesity: A Swine Model of Combined Abdominal and Chest Loading in AHRF
- P1250 Inhomogeneous Airway Opening Pressures by Electrical Impedance Tomography in an Obesity Model of Healthy and Injured Mechanically Ventilated Swine
- P1251 Improving Weaning Outcomes: A Cohort Study of High-Flow Tracheal Therapy vs. Tracheostomy Mask
- P1252 BromAc® Removes Biofilm From Endotracheal Tubes and Exhibits Antibacterial Effect in Mucoid and Non-Mucoid Pseudomonas Aeruginosa
- P1253 Safety of Hybrid Tracheostomies Performed by Critical Care Medicine Trainees
- P678 Hospital Free Days and Symptom Burden After Sepsis
- P679 Predicting Physical Recovery After Critical Illness With Non-contact Cardiopulmonary Monitoring
- P680 Intensive Care Unit Functional Status and Long-term Mortality in Critical Care Survivors
- P681 Mortality and Risk Factors in Critical Care for Very Elderly Patients: A Single-center, Retrospective Study
- P682 Post-ICU Outcomes in Hospitalized Patients: Insights Into Mortality, Readmission, and Functional Impairment
- P683 Post Intensive Care Unit Syndrome in Surviving Patients and Families in Four Hospitals in Addis Ababa: Burden, Lived Experiences, and Possible Interventions
- P684 Post Acute Respiratory Illness Service (PARIS): A Multidisciplinary Post-Intensive Care Unit Clinic
- P685 The Prevalence of Frailty in Critically Ill Patients: A Systematic Review and Meta-analysis
- P686 Maximizing Participant Retention in a Post-intensive Care Unit (ICU) Follow-up Study of Acute Respiratory Distress Syndrome (ARDS) Survivors: A Mobile Phone and Web-based Strategy
- P687 Association Between National Health Insurance Benefit Extension Policy and Clinical Outcomes of Ventilated Patients With Severe Pneumonia: A Nationwide Cohort Study
- P688 Association Between Limited English Proficiency and Survival in Patients With Sepsis
- P689 Inequality in Critically Ill ARDS Patients Research(I-CARE): Exploring ARDS Disparities Across Race, Ethnicity, and Gender
- P690 Racial and Ethnic Inequalities Among Survivors of Critical Illness in the MIMIC-IV Database
- P691 Impact of Hispanic Ethnicity on ICU Mortality in South Texas
- P692 The Hispanic Paradox Does Not Hold in Sepsis
- P693 Equitable Reduction of Unplanned Extubation, a Quality Improvement (QI) Project: Overcoming Racial, Language, and Socioeconomic Disparity

**BEHAVIORAL • CLINICAL • TRANSLATIONAL**
**THEMATIC POSTER SESSION**
**A41 IMPROVING POST-ICU OUTCOMES AND ELIMINATING DISPARITIES**
**9:15 a.m. - 4:15 p.m.**
**Moscone Center**

Area F, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P694 Associations Between Walking Ability Questionnaires and Performance-based Walking Speed in Survivors of Critical Illness
- P695 Prevalence of Critical Illness at a National Referral Hospital in Kenya

## CLINICAL

## THEMATIC POSTER SESSION

## A42 BREATHING NEW LIFE INTO PNEUMONIA SCIENCE: COVID-19 AND UNIQUE PATHOGENS

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

Area J, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1089 Individualized Treatment Effects of Steroids in Veterans Hospitalized With COVID-19: A National Analysis
- P1090 Corticosteroids in Severe Covid-19 Across Vaccination Status: An Emulated Target Trial Benchmarking to and Extending Upon the Recovery Trial
- P1091 Distinct Metabolic Dysregulation in Chronic Critical Illness: A Longitudinal Metabolomics Study of Severe Covid-19 Patients
- P1092 Priorities for Healthcare Systems Emergency Preparedness in Inpatient Settings Informed by Covid-19: An Official American Thoracic Society Workshop
- P1093 Early Identification and Limitations of Multidrug-resistant Pathogens in Ventilator-associated Pneumonia Using Multiplex PCR
- P1094 Pneumocystis Pneumonia After Chimeric Antigen Receptor T-cell (CAR-T) Therapy: A Systematic Review and Meta-analysis
- P1095 Venous Thromboembolism Complicates Covid Sepsis More Frequently Than During Non-Covid Sepsis
- P1096 Association Between Age and Pneumonia Related to Noninvasive Mechanical Ventilation in Adults Who Have Acute Respiratory Failure

## CLINICAL

## THEMATIC POSTER SESSION

## A43 THE BATTLE WITHIN: ENCEPHALITIS, MENINGITIS, AND THE MANY FACES OF CNS INFECTIONS

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

Moscone Center

Area F, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P696 Varicella Zoster Virus Encephalitis Leading to Stroke and Pulmonary Embolism
- P697 Hypoglycorrhachia With CN III Palsy Secondary to Bacterial Meningitis, Neuro-Lupus, or CNS-HLH?: A Unique Diagnostic and Management Challenge
- P698 Don't Lick Your Wounds: A Cautionary Case of Pasteurella Meningitis
- P699 Intermittent Oculomotor Nerve Palsy and Cryptococcal Meningitis as the Initial Presentation of HIV/AIDS: A Case Report
- P700 Atypical Varicella-zoster Virus Encephalitis in an Immunocompromised Patient: The Confounding Role of Neurosarcoidosis
- P701 Streptococcus Pyogenes: A Unique Case of Fatal Meningitis in an Adult
- P702 A Rare Triad: Neisseria Meningitidis Leading to Pericardial Effusion, Pleural Effusion, and Septic Arthritis
- P703 Against the Odds: A Complex Case of Anti-NMDA-Receptor Encephalitis Triumphantly Treated With Extended IVIG Course
- P704 A Case of West Nile Encephalitis Causing Respiratory Failure Requiring Intubation
- P705 A Case of Extreme Agitation After Delta-9-tetrahydrocannabinol Use in a Patient With Anti-IgLON5 Encephalitis
- P706 Beyond the Usual Suspects: Fusobacterium Bacteremia and the Complex Presentation of Meningitis With Subarachnoid Hemorrhage

- P707 Navigating Refractory Seizures in Rasmussen's Encephalitis: A Case Report
- P708 Unexpected Bacterial Group B Streptococcus Meningoencephalitis in a Young Male
- P709 Anti-Leucine-rich Glioma-inactivated 1 Antibody Encephalitis as a Rare Etiology of a Common Medical ICU Presentation: Severe Hyponatremia and Altered Mental Status
- P710 Not Your "tick"-pyical Headache
- P711 Demonic Possession or Neurological Disorder? A Case of NMDA Encephalitis Without Tumor
- P712 Disseminated Varicella Zoster Infection With Meningoencephalitis in Immunocompetent Patient
- P713 "Not So Reversible" a Case of Fatal Malignant Posterior Reversible Encephalopathy Syndrome in the Setting of End-stage Renal Disease
- P714 A Fatal Case of Neuroinvasive West Nile Virus Infection
- P715 Confused No More: A Rare Case of Steroid Responsive Hashimoto's Encephalitis
- P716 The Great Masquarader: Coccidioidal Meningitis With Brain Abscess in a Patient With Sarcoidosis
- P717 Diagnostic Challenges in a High-risk Patient: A Case of Spinal Epidural Abscess Masked by Alcohol Withdrawal and Comorbidities
- P718 "Fungus Among Us": Cryptococcal Meningoencephalitis in a "Normal" Host
- P719 A Peculiar Presentation of Streptococcal Meningitis
- P720 West Nile Virus Neuroinvasive Disease in a Kidney Transplant Recipient
- P721 Post-infectious Inflammatory Response Syndrome (PIIRS) in an Immunocompetent Patient With Cryptococcal Meningitis
- P722 When MguS Opens the Door: A Rare Case of Haemophilus Influenzae Meningitis
- P723 Recognizing the Signs: A Case Report on the Critical Role of Early Diagnosis in Rhino-orbital Cerebral Mucormycosis

## CLINICAL

## THEMATIC POSTER SESSION

### A44 BEYOND THE USUAL SUSPECTS: NAVIGATING RARE AND RESISTANT INFECTIONS IN CRITICAL CARE

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

Moscone Center

Area J, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees.

- P1097 Polymicrobial Pneumonia in a Patient With Human Immunodeficiency Virus
- P1098 Pulmonary Kaposi Sarcoma Immune Reconstitution Inflammatory Syndrome
- P1099 Pushing Past Pseudomonas: A Breakthrough Case With Polymyxin and Cefiderocol in Superbug Pneumonia
- P1100 Surviving Multidrug-resistant Elizabethkingia Spp Pneumonia
- P1101 Atypical Mycobacterial Avium Intracellulare Infection in the Immunocompetent Host
- P1102 Confronting a Clinical Dead End: Insights From a Pan-resistant Pseudomonas Case
- P1103 Staphylococcus Auricularis: A Rare Case of Bacteremia in a Young Critically Ill Patient
- P1104 When Your Gut Stops Moving: An Ominous Sign of Legionella Infection
- P1105 Shock and Awe: Unraveling A Rare Case of Streptococcal Toxic Shock Syndrome
- P1106 Legionella Pneumonia Complicated by DIC/HUS Overlap
- P1107 Bacillus Cereus Septic Shock and Purpura Fulminans in a Patient With Cirrhosis
- P1108 Lupus, Disseminated Cryptococcus, and Dilated Cardiomyopathy: Illustrating the Fatal Complications of a Systemic Disease in a Peripartum Patient
- P1109 A Rare Case of Rhabdomyolysis Induced by Legionella Pneumophila

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| <p><b>P1110</b> Streptococcal Cellulitis: A Potentially Life-Threatening Infection Beyond Skin Involvement</p> <p><b>P1111</b> Streptococcus Dysgalactiae Bacteremia Complicated by Tricuspid Valve Endocarditis, Complete Heart Block, and Pulmonary Septic Emboli: A Case Report</p> <p><b>P1112</b> Transpapillary Cystic Duct Stent as a Bridge to Lung Transplant in a Patient With Cholecystitis</p> <p><b>P1113</b> Diabetic Ketoacidosis Reveals a Hidden Threat: Klebsiella Pneumoniae Invasive Syndrome in a 31-year-old Man</p> <p><b>P1114</b> A Case of Mucormycosis in the ICU</p> <p><b>P1115</b> Pyogenic Pericardial Effusion</p> <p><b>P1116</b> Stroke in the Context of HIV Vasculopathy and Varicella Zoster Virus Infection: A Case Report</p> <p><b>P1117</b> Emphysematous Gastritis and Thyphilitis Associated With Klebsiella Pneumonia</p> <p><b>P1118</b> Fulminant Clostridioides Difficile Induced Disseminated Intravascular Coagulation</p> <p><b>P1119</b> From Male Pelvic Abscess to Dialister Pneumosintes Bacteremia: An Unexpected Culprit of Septic Shock</p> <p><b>P1120</b> Triple Bacteremia in a Patient With Multiple Sclerosis</p> <p><b>P1121</b> Rare Kluyvera Ascorbata Infection in a Post-hemicolectomy Patient: Severe Sepsis With Peritoneal Hematoma</p> <p><b>P1122</b> Rescue of Refractory Septic Shock: An Adolescent Case Highlighting Differences in Practice Between Pediatric and Adult Critical Care</p> <p><b>P1123</b> A Bad Case of Tonsillitis: Lemierre's Syndrome With Metastatic Disease</p> <p><b>P1124</b> Healthy 18-year-old With Mycoplasma Sepsis: A Case Study</p> <p><b>P1125</b> Lemmel Syndrome - A Rare Cause of Obstructive Jaundice Leading to Sepsis</p> <p><b>P1126</b> An Unfortunate Case of Purulent Pericarditis and Septic Shock Secondary to a Hepatic-pericardial Fistula in a Patient With Complex Oncologic and Cardiac History</p> <p><b>P1127</b> Source Control in Penile Abscess: Actinotignum Schaalii and Schaalii Odontolytica Double Trouble</p> | <p><b>P1128</b> Stercoral Colitis Induced Colon Ischemia Complicated by Septic Shock and Respiratory Failure</p> <p><b>P1129</b> Infective Endocarditis From Escherichia Coli Sepsis in the Setting of Mitral Valve Clipping: An Uncommon and Complex Presentation</p> <p><b>P1130</b> Sepsis From Klebsiella Pneumonia Liver Abscess: A Rare but Emerging Infection - Wait, This Is a Board Question!</p> <p><b>P1131</b> Isolated Pulmonic Valve Endocarditis With Septic Embolism</p> <p><b>P1132</b> Unmasking Sepsis: When Cultures Fail, Molecular Clues Prevail</p> <p><b>P1133</b> A Fatal Case of Fulminant Sepsis From Capnocytophaga Canimorsus Infection</p> <p><b>P1134</b> A Vein of Trouble: Lemierre's Syndrome Presenting With Septic Thrombophlebitis</p> <p><b>P1135</b> The Dark Path From Fentanyl Use to Limb Ischemia and Necrotizing Fasciitis</p> <p><b>P1136</b> The Forbidden Kiss: Pasteurella Multocida Bacteremia Without an Apparent Source</p> <p><b>P1137</b> A Rare Case of Stevens-Johnson Syndrome Triggered by Aeromonas Hydrophila Bacteremia in a Patient With Diffuse B-cell Lymphoma</p> <p><b>P1138</b> No One Dies Without Doxy: An Atypical Case of Septic Shock by Rocky Mountain Spotted Fever</p> <p><b>P1139</b> An Unexpected Pathogen: A Novel Case of Liver Abscesses Caused by Priestia Megaterium</p> <p><b>P1140</b> From Colonisation to Septic Shock: A Tale of Candida Isolated From Respiratory Tract</p> <p><b>P1141</b> A Vein and Fungi Affair: A Case of Non-cirrhotic Fungal Peritonitis</p> <p><b>P1142</b> Epidural Gas Tracking in a Case of Streptococcus Dysgalactiae</p> <p><b>P1143</b> A Shocking Case Series of Invasive Group A Streptococcus</p> <p><b>P1144</b> Occult Sepsis in an Immunocompromised Patient Presenting Presenting to the Intensive Care Unit With Respiratory Syncytial Virus Pneumonia</p> <p><b>P1145</b> Fatal Periorbital Necrotizing Fasciitis in an Immunocompromised Patient in the ICU</p> |
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- P1146** Beyond the Typical: Severe Sepsis and Multi-organ Dysfunction From Tick-borne Diseases
- P1147** Infectious Pair in Sin City: COVID-19 and Malaria Co-infection in a Las Vegas Case
- P1148** Elizabethkingia Anophelis: A Rare Pathogen Inducing Severe Septic Shock in Respiratory Infection
- P1149** Atypical Presentation of Septic Shock: Disseminated Tuberculosis Induced Septic Shock

**CLINICAL****THEMATIC POSTER SESSION**

### **A45 BROKEN HEARTS AND BLOCKED VESSELS: GREAT CASES FROM THE HEART AND VASCULAR ICU**

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

Moscone Center

Area B, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees.

- P125** Survival at a Cost: An Unexpected Sequel of Cardiopulmonary Resuscitation
- P126** Definity Contrast and Cardiac Arrest: Uncovering the Hidden Risks in a Compelling Case Study
- P127** Pausing More With Ticagrelor: a Case of Cardiac Arrest Secondary to Ticagrelor Initiation
- P128** Amiodarone Induced Thyrotoxicosis Leading to Fulminant Cardiogenic Shock
- P129** Flecainide-Induced Right-sided Cardiogenic Shock
- P130** A Curious Case of Heart Failure With Reduced Ejection Fraction in a Lupus Patient
- P131** The Queen of Spades: A Case of Cardiogenic Shock as a Result of Apical Hypertrophic Cardiomyopathy
- P132** Complex Diagnostic and Therapeutic Challenges in a Critically Ill Patient With Refractory Hypoxia and Severe Pulmonary Hypertension: A Case Report
- P133** Deeper Than the Surface: A Case of Dermatomyositis Induced Cardiomyopathy
- P134** Unveiling the Shadows: Navigating Right Heart Dysfunction in Septic Cardiomyopathy

- P135** Acute Regurgitation of a Mechanical Mitral Valve and MSSA Bacteremia: Managing Paravalvular Leak in a High-risk Patient
- P136** A Case of Cardiac Myxoma Leading to Cardiogenic Shock and Death
- P137** A Shocking Development: Inflammatory Myopathy Presenting With Cardiogenic Shock
- P138** Think Twice Before You Have Energy Drink: A Case of Mitral Chordal Rupture in HOCM
- P139** Don't Go Radiating My Heart: A Case of Radiation Induced Heart Disease
- P140** Double Trouble: A Patient Who Developed Takotsubo Cardiomyopathy and Acute Coronary Syndrome After Elective Esophageal Surgery
- P141** The Worst Headache From a Broken Heart
- P142** Atypical Presentation of Takotsubo Cardiomyopathy in an Elderly Patient
- P143** Atypical Presentation of Takotsubo Cardiomyopathy in a Young Female
- P144** A Case of Beta Blocker and Calcium Blocker Overdose Managed With Veno-arterial Extracorporeal Circulation
- P145** Peripartum Spontaneous Coronary Artery Dissection and Acute Coronary Syndrome: A Critical Connection
- P146** Spontaneous Coronary Artery Dissection With Cardiogenic Shock in a Young Female
- P147** To Operate or Not to Operate. That Is the Question: A Case Report of a Surgical Repair of a Left Ventricular Pseudoaneurysm
- P148** From Confusion to Clarity: Diagnosing A Type II Endoleak in a Patient With Unexplained Anemia and Hypoperfusion
- P149** Coronary Artery Stenosis: An Extracerebral Manifestation of Moyamoya Disease
- P150** From Atypical Symptoms to Diagnosis: A Case of Type 2B Spontaneous Coronary Artery Dissection
- P151** Uncommon Complications of Pacemaker Implantation: A Rare Case of Left Ventricular Perforation
- P152** Type A Aortic Dissection Causing Acute Liver Failure: A Rare Vascular Cause of Hepatic Ischemia

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| <p><b>P153</b> Flipped and Inflated: The Case of Ascending Aortic Aneurysm in a Patient With Situs Inversus</p> <p><b>P154</b> The Dissection of Differentials: An Atypical Presentation of Aortic Dissection</p> <p><b>P155</b> Transient Coronary Vasospasm During Robotic Bronchoscopy</p> <p><b>P156</b> Acute Type B Aortic Dissection Presenting as ST-elevation Myocardial Infarction</p> <p><b>P157</b> An Atypical Case of Complicated Type B Aortic Dissection</p> <p><b>P158</b> HALTING Progress: Unmasking Hypoattenuated Leaflet Thickening Post-Transcatheter Aortic Valve Replacement (TAVR)</p> <p><b>P159</b> A Deadly Complication: Atrioesophageal Fistula Following Radiofrequency Ablation for Atrial Fibrillation. A Case Report</p> <p><b>P160</b> Delayed Cardiac Tamponade Following Chest Trauma: A Case Report and Literature Review</p> <p><b>P161</b> Point-of-Care Ultrasound (POCUS) Revealing Cardiac Tamponade in Streptococcus Pneumoniae Pericarditis</p> <p><b>P162</b> A Rare Case of Pseudo-Meigs Syndrome Presenting With Cardiac Tamponade</p> <p><b>P163</b> Cardiac Tamponade by Perforated Ventricle Post TAVR - A Rare but Life Threatening Case</p> <p><b>P164</b> Massive Pericardial Effusion With Tamponade Physiology in an ESRD Patient, Atypical Presentations</p> <p><b>P165</b> High Stakes in High Pressure - Increased Risks of Pericardial Drainage in Pulmonary Hypertension Patients</p> <p><b>P166</b> Pericardiopleural Fistula as a Complication of Emergent Pericardiocentesis</p> <p><b>P167</b> A Rare Case of Salmonella-associated Pericardial Tamponade Following Coronary Intervention</p> <p><b>P168</b> Changes in Rhythm: A Fatal Case of Progressive Cardiac Sarcoidosis Presenting With Recurrent and Refractory Ascites</p> <p><b>P169</b> Brugada Causing Ventricular Fibrillation Arrest in the Setting of Appendicitis</p> <p><b>P170</b> New Manifestation of Wolf-Parkinson-White Syndrome in a Critically Ill Patient With Multi-organ System Failure</p> | <p><b>P171</b> Unexplained Syncope: A Case of Brugada Syndrome in a Young Adult</p> <p><b>P172</b> Type-B Aortic Dissection: When Conservative Treatment Falls Short</p> <p><b>P173</b> Life-Threatening Third-Degree AV Block and Cardiogenic Shock: Successful Rescue With Pacemaker Implantation</p> <p><b>P174</b> Boldly Bradycardic: A Case Report of Brash Syndrome in the Setting of HFpEF</p> <p><b>P175</b> Novel Approach to Tricuspid Valve Infective Endocarditis Utilizing Catheter-directed Mechanical Debulking of Vegetations</p> <p><b>P176</b> A Lucky Escape From the Brink of Mortality: Pending Rupture of Mycotic Thoracic Aneurysm</p> <p><b>P177</b> Double Trouble: Double-valve Infective Endocarditis in a Patient With Bicuspid Aortic Valve and Severe Aortic Stenosis</p> <p><b>P178</b> From Valves to Ventilation: A Complicated Course of Infective Endocarditis</p> <p><b>P180</b> Mitral-Aortic Intervallular Fibrosa Abscess as a Complication of Multivalvular Infective Endocarditis</p> <p><b>P181</b> The Tale of Two Diagnoses: The Essential EKG Clues Clinicians Must Know for Takotsubo Cardiomyopathy</p> <p><b>P182</b> Successful Treatment of a Case of Flecainide-induced Ventricular Tachycardia Secondary to Acute Kidney Injury</p> <p><b>P183</b> A Rare Case of Non ST Elevation Myocardial Infarction Secondary to an Anomalous Left Anterior Descending Coronary Artery</p> |
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- CLINICAL**
- THEMATIC POSTER SESSION**
- A46** **NEW RESEARCH IN BIOMARKERS AND IMAGING FOR ILD**

**9:15 a.m. - 4:15 p.m.** **Moscone Center**

Area M, Hall F (North Building, Exhibition Level)

**Viewing:** Posters will be on display for entire session

**Discussion:** 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1545** Radiomic Features Detect Interstitial Lung Disease in Patients With Systemic Sclerosis
- P1546** Machine Learning Prediction of Disease Severity in Patients With Interstitial Lung Disease Based on Lung Ultrasound and CT Imaging
- P1547** Clinical Experience With the First FDA-Authorized Artificial Intelligence Tool in Interstitial Lung Disease and Idiopathic Pulmonary Fibrosis
- P1548** Elevated Ferritin as a Marker of Disease Stability: Insights Into Iron Dysregulation in Idiopathic Pulmonary Fibrosis
- P1549** Neutrophil Extracellular Traps Measurement in the Bronchoalveolar Lavage Fluid of Patients With Interstitial Lung Disease: A Possible Biomarker in Fibrosis?
- P1550** 18F-FDG Positron Emission Tomography Findings in Patients With Lymphoid Interstitial Pneumonia
- P1551** Elevated Serum Level of Krebs Von Den Lungen 6 Predicts Death in Patients With Comorbid Idiopathic Pulmonary Fibrosis and Obstructive Sleep Apnea
- P1552** Impact of Storage Conditions on Bronchoalveolar Lavage Fluid Analysis
- P1553** Impact of BMAX on CT Findings and Clinical Parameters in Interstitial Lung Abnormalities Detected at Health Screening
- P1554** Using Computer-aided Lung Informatics for Pathology Evaluation and Ratings (CALIPER) to Differentiate Immune Checkpoint Inhibitor (ICI) and Radiation Pneumonitis From Infectious Pneumonitis
- P1555** Anti-annexin A4 Antibody as a Biomarker for Desquamative Interstitial Pneumonia
- P1556** Rapid Screening Tool for Quantifying Pulmonary Fibrosis on High-resolution CT Scans
- P1557** A Look Into the Future. When Black-And-White Imaging Turns Color - The Significance of FAPi PET/CT as a Non-invasive Method for Assessing Fibrotic Remodeling of the Lung
- P1558** Investigation of the Usefulness of Serum Specific IgG Antibody to Bird Antigen Assay in Interstitial Pneumonia of Unknown Cause

- P1559** Quantitative Computed Tomography Assessment of Small Airway Function in Idiopathic Pulmonary Fibrosis
- P1560** Diagnostic Utility of Serum Krebs Von Den Lungen-6 in Differentiating Cryptogenic Organizing Pneumonia

## CLINICAL

## THEMATIC POSTER SESSION

### A47 ILD COMORBIDITIES AND OUTCOMES

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

Moscone Center

Area M, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1561** Mortality Outcomes Associated With ACE-Inhibitor Use in Idiopathic Pulmonary Fibrosis
- P1562** The Prevalence of Obesity and Obesity Complications in Patients With ILD: Analysis of National Electronic Medical Record Data
- P1563** The Impact of COVID-19 on ILD-related Mortality Trend in the United States
- P1564** Gastroparesis as a Risk Factor for Interstitial Lung Disease: Findings From a Large Multicenter Study
- P1565** Lymphoid Aggregates Are Associated With Better Prognosis in Idiopathic Interstitial Pneumonia With Usual Interstitial Pneumonia Pattern: A Multicenter Retrospective Study
- P1566** Venous Thromboembolism (VTE) Among Idiopathic Interstitial Lung Disease (ILD) and Connective Tissue Disease-associated Interstitial Lung Disease (CTD-ILD) Patients: A Large Cohort Comparative
- P1567** Impact of Sodium-glucose Cotransporter-2 Inhibitors on Mortality in Patients With Idiopathic Pulmonary Fibrosis and Type 2 Diabetes Mellitus: A Population-based Cohort Study
- P1568** Impact of Sodium-glucose Cotransporter-2 Inhibitors Upon All-cause Mortality and Hospital Admissions in Patients With Idiopathic Pulmonary Fibrosis: A Population-based Cohort Study

- P1569** Association of Mood or Affect With Lung Function and All-cause Mortality in Fibrotic Interstitial Lung Disease
- P1570** Baseline Characteristics and Survival Trends for Patients Diagnosed With Idiopathic Pulmonary Fibrosis Over 2016 - 2022
- P1571** The Impact of Obstructive Sleep Apnea on Idiopathic Pulmonary Fibrosis Clinical Outcomes
- P1572** The Relationship Between Recovery Rate From Exertional Desaturation, Disease Severity and Mortality in Patients With Fibrotic Interstitial Lung Disease
- P1573** Association Between Autoantibody Positivity and Pulmonary Hypertension by Echocardiography in Patients With Interstitial Lung Disease
- P1574** Understanding Mortality in Hospitalised Patients With Interstitial Lung Disease: The Role of Acute Exacerbations of Interstitial Lung Disease
- P1575** Lipid Profile Trajectory in Patients With Interstitial Lung Disease: A Matched Control Study
- P1576** K-BILD Is Associated With Mortality Risk in Patients With Fibrotic Interstitial Lung Disease Receiving Antifibrotic Therapy: A Multi-center Prospective Longitudinal Study
- P1577** The Impact of Co-existing Interstitial Lung Disease on In-hospital Outcomes of Chronic Obstructive Pulmonary Disease in Acute Exacerbation Among Elderly Patients
- P1578** Long-term Survival of Lung Transplant Recipients With Early Post-operative Atrial Fibrillation Treated With Amiodarone
- P1579** The Prognostic Value of Pulmonary Artery Systolic Pressure Elevation in Idiopathic Pulmonary Fibrosis Exacerbations: Implications for Risk Stratification and Targeted Interventions
- P1580** Machine Learning Prediction of Invasive Mechanical Ventilation Among Patients With Idiopathic Pulmonary Fibrosis: A Retrospective Analysis of National Inpatient Sample
- P1581** Pulmonary Hypertension in Interstitial Lung Disease Patients - Is It Just Group 3 Pulmonary Hypertension?
- P1582** Workplace Productivity Loss in Patients With Progressive Pulmonary Fibrosis: Data From the ILD-PRO Registry
- P1583** Interstitial Lung Disease (ILD) Associated With Pulmonary Hypertension (PH)- Considerations After 2024 World Symposium for Pulmonary Hypertension (WSPH) Guidance: A Single ILD Centre Perspective
- P1584** Transplant-Free Survival in Patients With Progressive Pulmonary Fibrosis in the ILD-PRO Registry
- P1585** Prediction of Prognosis and Time-series Analysis of Prognostic Factors in Acute Exacerbation of Idiopathic Pulmonary Fibrosis Using Machine Learning
- P1586** Direct Oral Anticoagulant and the Risk of Acute Interstitial Lung Diseases: A Case-crossover Study Using Japanese Administrative Data
- P1587** The Prognosis of Idiopathic Pulmonary Fibrosis in Chinese Patients: A Multi-Center and Multi-Modal Cohort Study
- P1588** Association of Glucagon-Like Peptide-1 Agonists and Mortality Among Patients With Idiopathic Pulmonary Fibrosis
- P1589** Mortality Trend in Patients With Combined Pulmonary Fibrosis and Emphysema Treated With Antifibrotics
- P1590** Impact of Cough in Patients With Idiopathic Interstitial Pneumonia
- P1591** Prevalence and Outcomes of Clostridium Difficile Infection in Hospitalized Idiopathic Pulmonary Fibrosis Patients: A Population-based Cohort Study
- P1592** Clinical Implications of Slow Vital Capacity in Patients with Idiopathic Pulmonary Fibrosis
- P1593** Health Related Quality of Life in Patients With Interstitial Lung Disease With and Without Antifibrotics: A Single Center, Mixed Methods Cross Sectional Study
- P1594** Investigation of Prognostic Factors for Acute Exacerbation of Interstitial Pneumonia: Usefulness of ROX Index
- P1595** Clinical Outcomes and Healthcare Burden in Patients Hospitalized With Pulmonary Fibrosis: A Nationwide Analysis



- P1596** Comparison of Prognosis Between Acute Exacerbation of IPF and ARDS Treated With PMX-DHP
- P1597** Survival Analysis of Idiopathic Pulmonary Fibrosis (IPF) and Combined Pulmonary Fibrosis and Emphysema (CPFE) Patients Treated With Anti-fibrotic Agents: A Multi-centre Cohort Study
- P1598** The Impact of Early vs. Late Intubation on Morality Among Obese Patients With Idiopathic Pulmonary Fibrosis
- P1599** Prognosis of Interstitial Lung Disease (ILD) Based on Baseline Pulmonary Function Test (PFT) Results in Omani Adult Patients Diagnosed With ILD in Sultan Qaboos University Hospital
- P1600** Respiratory Failure in Patients Treated With Immune Checkpoint Inhibitors: Timing and Survival Outcomes
- P1601** Prevalence and Predictors of Depression and Anxiety in Patients With Fibrotic Interstitial Lung Disease: A Prospective Cohort Study

## CLINICAL

## THEMATIC POSTER SESSION

### A48 WHAT'S NEW IN ILD DIAGNOSIS, MONITORING, AND TREATMENT

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

Moscone Center

Area M, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1602** Hemodynamic Phenotypes of Patients With Interstitial Lung Disease and Exercise Intolerance
- P1603** Pharmacokinetics, Safety, And Tolerability Of A Single Oral Dose Of Nerandomilast (BI 1015550) In Participants With And Without Hepatic Impairment
- P1604** Oxygen Desaturation During Six-minute Walk Test Identifies Risk for Exertional Hypoxemia During a Home Exercise Program in Patients With Interstitial Lung Disease

- P1605** Pharmacokinetics, Safety, and Tolerability of a Single Oral Dose of Nerandomilast (Bi 1015550) in Participants With and Without Renal Impairment
- P1606** Comparison of Clinical, Functional, Radiological and Genetic Characteristics in ILD Patients With Suspected Genetic Predisposition Based on Family Aggregation: Data From a Regional UK Familial Interstitial Pneumonia Service
- P1607** Identifying Risk Factors for Fibrotic Interstitial Lung Abnormalities
- P1608** A Retrospective Cohort Study Evaluating the Effectiveness and Safety of Rituximab in Connective Tissue Disease Associated Interstitial Lung Disease
- P1609** Perceptions of Health Care Providers on the Use of the Edmonton Dyspnea Inventory for Dyspnea Assessment in Interstitial Lung Disease Patients
- P1610** Effects of Itraconazole, a Strong CYP3A Inhibitor, on Pharmacokinetics of Nerandomilast, a Preferential PDE4B Inhibitor
- P1611** Agreement of One-minute Sit-to-Stand Test With Six-minute Walk Test in Interstitial Lung Disease Patients
- P1612** Effect of Calcium Channel Blockers on Lung Function in Placebo-treated Patients in Idiopathic Pulmonary Fibrosis Trials
- P1613** Clinical Characteristics and Outcomes of Patients With Pulmonary Fibrosis and ANCA Positivity
- P1614** Treatment of Interstitial Lung Diseases With Immunosuppressant Medications
- P1615** Radiographic Features Associated With Histopathologic Bronchiolocentric Interstitial Pneumonia
- P1616** Baseline Characteristics of Idiopathic Pulmonary Fibrosis and Systemic-sclerosis-associated Interstitial Lung Disease Patients Enrolled in the Moonscape Study of Vixarelimab
- P1617** A Novel Prolyl-Transfer RNA Synthetase Inhibitor Bersiporocin Phase 2 Trial in Idiopathic Pulmonary Fibrosis: Study Design and Baseline Demographics
- P1618** Interstitial Lung Diseases in Ethiopia: Hypersensitivity Pneumonitis and Sarcoidosis Are the Prevalent Types

- P1619** Clinical Impact of Timing in the Initiation of Antifibrotic Therapy in Patients With Idiopathic Pulmonary Fibrosis
- P1620** Prevalence of Pulmonary Hypertension in Patients With Myositis Specific and Myositis Associated Antibodies
- P1621** Information and Support Needs of Patients With Idiopathic Pulmonary Fibrosis (IPF) and Other Interstitial Lung Diseases (ILDs): A Survey of U.S. Patients
- P1622** Crackle Extend Score, a Highly Useful Tool to Predict Prognosis and Survival
- P1623** TETON-PPF Clinical Trial of Inhaled Treprostinil for the Treatment of Progressive Pulmonary Fibrosis: Preliminary Baseline Demographics
- P1624** Teton Phase 3 Clinical Trials of Inhaled Treprostinil in the Treatment of Idiopathic Pulmonary Fibrosis: Annual Update of Preliminary Baseline Data
- P1625** Lung Auscultation as a Screening Tool in Rheumatoid Arthritis
- P1626** Clinical and Radiologic Characteristics of Familial Pulmonary Fibrosis in the CAREPF Registry
- P1627** Evaluating the Impact of Interstitial Lung Diseases Nursing Support on Antifibrotic Treatment Adherence in Patients With Idiopathic Pulmonary Fibrosis
- P1628** Evaluation of Reliability, Repeatability and Confidence of ChatGPT With Regard to Interstitial Lung Disease in Patients With Systemic Autoimmune Rheumatic Diseases
- P1629** Validation of Claims Based Algorithms for Identifying Interstitial Lung Disease in Japan
- P1630** Glomerular Filtration Rate Trajectory in Patients With Interstitial Lung Disease: A Matched Control Study
- P1631** Clinical, Radiologic, and Histopathologic Profile of Interstitial Lung Disease Patients Diagnosed in Multidisciplinary Discussions in a Tertiary Hospital in the Philippines
- P1632** Assessment of Instagram Posts for Patient Education Quality for Various Interstitial Lung Disease Subtypes

- P1633** Differences in Characteristics Between Cryptogenic and Secondary Organizing Pneumonia: A Single-centre Retrospective Cohort Study
- P1634** Establishment of a Diagnostic Scoring System for Drug-induced Lung Disease
- P1635** Decreased Prevalence of IPF and Increased Prevalence of Unclassifiable ILD Diagnosis After Surgical Lung Biopsy in a Tertiary Center for Interstitial Lung Disease
- P1636** The Impact of Surgical Lung Biopsy in Association With Chest CT Findings on Multidisciplinary Consensus Clinical Diagnosis in Patients With Interstitial Lung Disease
- P1637** Safety Profile and Radiation Exposure When Utilizing 3D Mobile Fluoroscopy Guidance for Transbronchial Lung Cryobiopsy for the Diagnosis of Interstitial Lung Disease - A Single Center Retrospective Analysis

## CLINICAL

## THEMATIC POSTER SESSION

### A49 HOT TOPICS IN RARE LUNG DISEASE

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

Moscone Center

Area A, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P20** Clinical Relevance of FLCN Mutations in Asian Patients With Birt-Hogg-Dubé Syndrome
- P21** Second-line Therapy for Immune-checkpoint Inhibitor-induced Pneumonitis
- P22** The Role of Mucosal-associated Invariant T Cells in Pathogenesis of Lymphangiomyomatosis
- P23** Impact of Lung Transplantation on Frailty: A Longitudinal Analysis From the Lung Transplant and European ILD Registry (eurILDreg)
- P24** Dipnech: Clinical Characteristics of an International Case Series
- P25** Effect of GM-CSF Inhalation Therapy After Whole Lung Lavage in Autoimmune Pulmonary Alveolar Proteinosis

- P26** Early Exploration of <sup>18</sup>F-FAPI-42 PET/CT Imaging in the Assessment of Lymphangioleiomyomatosis
- P27** Clinical Etiologies of Elevated Plasma Donor-derived Cell-free DNA in Lung Transplant Patients Without Histologic Evidence of Allograft Rejection
- P28** Pulmonary Alveolar Proteinosis: Presentation, Clinical Characteristics and Management From a National Referral Centre
- P29** Quantitative Computed Tomography Metrics in Patients Undergoing Hematopoietic Cell Transplantation
- P30** The Clinical Course of Incidental Lymphangioleiomyomatosis
- P31** The Effects of Molgramostim on Respiratory Health-related Quality of Life and Patient-reported Outcomes in Patients With Autoimmune Pulmonary Alveolar Proteinosis (aPAP)
- P32** Optimizing Bridge-to-Transplant MCS Strategies: Pre-transplant Predictors for ECMO and Impella Use in Heart Transplant Candidates
- P33** Asymptomatic and Symptomatic Respiratory Viral Infections With Chronic Graft-versus-Host Disease and Bronchiolitis Obliterans Syndrome After Allogeneic Hematopoietic Cell Transplant
- P34** Autoimmune Pulmonary Alveolar Proteinosis: Update From the US National PAP Registry
- P35** Predictive Factors for Refractory Immune Checkpoint Inhibitor-related Pneumonitis in Patients With Non-small Cell Lung Cancer
- P36** Respiratory Failure in Patients Treated With Immune Checkpoint Inhibitors: Clinical Characteristics and Predictive Factors
- P37** Pulmonary Alveolar Proteinosis: Clinical Characteristics and Whole Lung Lavage Utilization Trends, a Nationwide Study
- P38** Characteristics of Diffuse Cystic Lung Diseases in a National Referral Centre
- P39** Risk of Bleeding Complications in Patients Undergoing Bronchoscopy After Hematopoietic Stem Cell Transplant With Severe Thrombocytopenia
- P40** Acute Fibrinous and Organizing Pneumonia (AFOP) Demographics, Clinical Presentation, Radiology and Diagnostic Modalities. A Systematic Review of Case Reports

- P41** Utility of CT Thorax in Spontaneous Pneumothorax to Diagnose Cystic Lung Disease
- P42** Hermansky-Pudlak Syndrome in the United States
- P43** VEGF-D as a Biomarker for Lymphangioleiomyomatosis Revisited: Correlations With Clinical Features and Diagnostic Significance
- P44** Increased Malignancy Risk in Lymphangioleiomyomatosis: Findings From a Chinese Cohort
- P45** The Prevalence and Clinical Characteristics of Birt Hogg Dubé Syndrome From a National Referral Centre

## CLINICAL

## THEMATIC POSTER SESSION

### A50 THE INFLAMED LUNG: SARCOIDOSIS AND AUTOIMMUNE DISEASE

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

Moscone Center

Area A, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P47** Disease States in Patients With Eosinophilic Granulomatosis With Polyangiitis (EGPA) in England: A Retrospective Observational Cohort Study
- P48** Healthcare Resource Utilization and Associated Costs Across Three Health States in Patients With Eosinophilic Granulomatosis With Polyangiitis (EGPA): A Retrospective Observational Cohort Study in England
- P49** Outcomes of Lung Transplantation for Pulmonary Sarcoidosis in the U.S. in the Lung Allocation Score Era
- P50** Prevalence of Cancer in Patients With Positive Myositis Antibodies and Interstitial Lung Disease
- P51** Real-World Treatment Patterns Among Pulmonary Sarcoidosis Patients With Parenchymal Involvement in the US
- P52** Making Connections: Investigating the Relationship of Subjective Complaints and Objective Measures of Cognitive Dysfunction in Sarcoidosis

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| <p><b>P53</b> Characterization of MDA5-ILD in a Predominantly Hispanic Population of South Florida</p> <p><b>P54</b> Real World Evidence - Treatment Practices for Pulmonary Sarcoidosis</p> <p><b>P55</b> New Scoring for Recurrence of Anti-aminoacyl-tRNA-Synthetase Antibody-Associated Interstitial Lung Disease</p> <p><b>P56</b> Sarcoidosis-Associated Pulmonary Hypertension: Risk Factors and Outcomes From the Largest US Inpatient Database</p> <p><b>P57</b> Venous Thromboembolism in Sarcoidosis: Risk Factors and Outcomes From the Largest US Inpatient Database</p> <p><b>P58</b> The Impact of Rituximab on Connective Tissue Disease-Associated Interstitial Lung Disease: A Comprehensive Systematic Review and Meta-Analysis</p> <p><b>P59</b> The Role of Sequential FDG-PET/CT in Guiding Immunosuppressive Therapy in Pulmonary Sarcoidosis</p> <p><b>P60</b> Acceptability of Remote Monitoring in Connective Tissue Disease-related Interstitial Lung Disease</p> <p><b>P61</b> Immune and Clinical Phenotypes in Sarcoidosis With Autoimmune Markers</p> <p><b>P62</b> Single Center Experience on Anti-Fibrotic (AF) Versus Immunosuppression (IS) in Connective Tissue-related Interstitial Lung Disease (CTD-ILD)</p> <p><b>P63</b> Mortality Predictors in Thoracic Sarcoidosis: Results From SARCO-1 Registry</p> <p><b>P64</b> Interstitial Pneumonia With Autoimmune Features (IPAF) and Usual Interstitial Pneumonia With Autoimmune Features (UIPAF): Evolving Into a Defined Connective Tissue Disease</p> <p><b>P65</b> Predictors of Response and Treatment Outcomes in Sarcoidosis</p> <p><b>P66</b> Clinical Characteristics and Outcomes of MDA5-antibody Positive Myositis-related ILD: A Retrospective Cohort Study in South Korea</p> <p><b>P67</b> Cross Sectional Analysis of U1RNP Positive Mixed Connective Tissue Disease ILD - A Single Center Experience</p> <p><b>P68</b> Decoding the Impact of Pulmonary Function Test Interpretation Strategies on Sarcoidosis Phenotypes</p> | <p><b>P69</b> Screening for Systemic Autoimmune Rheumatic Disease-Associated Interstitial Lung Disease in Central and Eastern Europe</p> <p><b>P70</b> Fatigue Assessment Scale and Small Fiber Neuropathy Screening List in Japanese Sarcoidosis Patients</p> <p><b>P71</b> Diffuse Alveolar Hemorrhage in Hydralazine Induced Vasculitis With Rapidly Progressive Glomerulonephritis: A Case of Pulmonary Renal Syndrome</p> <p><b>P72</b> High Resolution Computed Tomography Characteristics in Sarcoidosis Patients With Nontuberculous Mycobacterial Infection</p> <p><b>P73</b> Connective Tissue Disease-related Interstitial Lung Disease May Not Benefit From Antifibrotic Therapy for Long-term</p> <p><b>P74</b> Role of Rheumatoid Factor in Anti-CCP Antibody-positive Interstitial Pneumonia</p> <p><b>P75</b> Clinical Features of Anti-Ro52-Antibody-positive Idiopathic Inflammatory Myopathy</p> <p><b>P76</b> Clinical Features of Pulmonary Sarcoidosis With Airway Involvement</p> <p><b>P77</b> Clinical Characteristics of Newly-diagnosed Sarcoidosis Patients in Henan, China</p> |
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- CLINICAL**
- THEMATIC POSTER SESSION**
- A51 HOT TOPICS IN LUNG TRANSPLANT**

**9:15 a.m. - 4:15 p.m.** **Moscone Center**

**Area K, Hall F (North Building, Exhibition Level)**

**Viewing:** Posters will be on display for entire session

**Discussion:** 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

**P1254** Hyperammonemia After Lung Transplantation: Routine Bacterial Donor Screening and Outcomes Post Transplantation

**P1255** One-year Lung Transplantation Outcomes for Patients With Silicosis at a Single Center in Southern California



- P1256** Comparison of Lung Transplant (LTx) Waitlist Outcomes Between Primary Pulmonary Hypertension and Other Group B Diagnoses
- P1257** Initiation of Beta-adrenergic Suppression After Lung Transplantation Confers Long-term Survival Benefit
- P1258** Impact of Single vs Bilateral Lung Transplantation on Wait Time to Lung Transplantation in Propensity-matched Patients With Interstitial Lung Disease
- P1259** Impact of Single vs. Bilateral Lung Transplantation on Length of Stay for Transplantation Hospitalization in Patients With Interstitial Lung Disease at a High-volume Center
- P1260** Impact of Single vs Bilateral Lung Transplantation on Survival in COPD Patients at a High-volume Center
- P1261** Impact of Single vs Bilateral Lung Transplantation on Wait Time to Lung Transplantation in Propensity-matched Patients With COPD
- P1262** Impact of Single vs. Bilateral Lung Transplantation on Length of Stay for Transplantation Hospitalization in Patients With COPD at a High-volume Center
- P1263** Role of Postoperative Hemodynamics and Clinical Parameters in Predicting Mortality and Complications Post-heart Transplant
- P1264** Impact of Pre-transplant Mechanical Ventilation Duration on Early Post-heart Transplant Outcomes: A Retrospective Analysis
- P1265** Predictors and Outcomes of New Onset Atrial Fibrillation After Lung Transplantation
- P1266** Belatacept as an Alternative Immunosuppressant Agent for Bone Marrow Sparing in Pulmonary Fibrosis Lung Transplant Recipients With Short Telomeres
- P1267** Assessing the Role of GLP-1 Receptor Agonists in Lung Transplantation: Risks and Benefits
- P1268** Evaluating Bronchoscopy Strategies in Lung Transplant Recipients: Impact on Acute Cellular Rejection and Transplant Outcomes
- P1269** Impact of Multilingual Informed Consent on Lung Transplant Recipients Participating in Explant Tissue Collection at the University of California, San Diego
- P1270** Surgical Outcomes for Lung Transplant Patients With Silicosis at a Center in Southern California
- P1271** A Retrospective Study Identifying Factors Associated With Long-term Survival in Lung Transplant Recipients: A Focus on Psychosocial Wellbeing and Social Determinants of Health
- P1272** Elevations in Donor-Derived Cell-Free DNA Occur Independently of Primary Graft Dysfunction, Cytomegalovirus (CMV) Serostatus, and CMV Viremia in Lung Transplant Recipients
- P1273** Lung Transplant Outcomes Following COVID-19 Infection by Severity Throughout the Pandemic
- P1274** Calcineurin Inhibitor Replacement With Mammalian Target of Rapamycin (mTOR) Inhibitor Following Lung Transplantation
- P1275** Characterization of Cytokines in Lung Transplant Recipients With Elevated Donor-derived Cell-free DNA
- P1276** Predictors of Lung Transplant Waiting List Time in Patients With Idiopathic Pulmonary Fibrosis - Single Center Experience
- P1277** The Impact of Pre-Transplant Hypercapnic Respiratory Failure on Transplant Outcomes in Patients With Advanced Interstitial Lung Disease
- P1278** Does Donor-derived Infection Increase the Risk of Lung Allograft Rejection
- P1279** Evolution of Lung Transplant Patients Due to Interstitial Diseases
- P1280** The Utilization of Lung Grafts From Victims of Hanging for Transplantation: An Expanded Analysis
- P1281** Slope of Spirometry Indices and Allograft Failure in Lung Transplant Recipients

**CLINICAL****THEMATIC POSTER SESSION****A52 OFF TARGET: DRUG PNEUMONITIS**

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

Moscone Center

Area H, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P931** Sniffing Out Trouble: A Case of Hypersensitivity Pneumonitis Triggered by Recreational Use of Poppers
- P932** Abemaciclib-induced Pneumonitis
- P933** A Breath Away From Crisis: The Deadly Risk of Pneumonitis in Advanced Urothelial Cancer Treatment
- P934** Steroid-refractory Pneumonitis: A Case of Immunotherapy-related Pneumonitis in a Patient With Advanced Urothelial Carcinoma
- P935** Vaping, Valves, and a Veiled Diagnosis: Endobronchial Valves as a Diagnostic Clue in a Case of Nonspecific Interstitial Pneumonia
- P936** Steroid-refractory Abemaciclib-induced Pneumonitis Treated With Infliximab
- P937** Respiratory Complications in Multiple Myeloma: A Case of Pneumonitis Induced by Daratumumab
- P938** Monthly High-dose Methylprednisolone and Daily Mycophenolate Mofetil for Chronic Immune Checkpoint Inhibitor Pneumonitis
- P939** Everolimus Induced Pneumonitis: A Case of Relapsing Pneumonitis
- P940** Bleomycin-Induced Pneumonitis (BIP) Complicated by Large-Volume Pneumomediastinum
- P941** From Pneumonitis to Pneumomediastinum: A Rare Progression to Pneumomediastinum in a Keytruda-treated Patient
- P942** Caught in the Lung Crossfire: Fatal Case of Lorlatinib-induced Pneumonitis and ARDS in a Patient With ALK-positive NSCLC
- P950** Antibody-drug Conjugate Pneumonitis in a Patient With Stage IV Adenocarcinoma of the Lung
- P951** Interstitial Pneumonitis Due to Trastuzumab Therapy in a Patient With Metastatic Breast Cancer
- P952** Abemaciclib Induced Drug Pneumonitis
- P953** Immune Checkpoint Inhibitor (Durvalumab) Induced Pneumonitis
- P954** Acute Respiratory Distress Syndrome Secondary to Concurrent Mycoplasma Pneumonia and Osimertinib-induced Pneumonitis
- P955** ECMO as a Temporary Intervention in Checkpoint Inhibitor Pneumonitis: Balancing Support While Assessing Treatment Response

- P956** When Well-Tolerated Turns Worrisome: Severe Pneumonitis After Extended Mirvetuximab-Soravtansine Treatment
- P957** Daptomycin-induced Pneumonitis in the Treatment of Osteomyelitis: A Case Report
- P958** Successful Treatment of Pembrolizumab Associated Pneumonitis With a Shorter Steroid Course
- P959** Combination Immunotherapy Resulting in Concurrent Occurrence of Pneumonitis and Pulmonary Embolism
- P960** A Delayed Presentation of Bleomycin Induced Pneumonitis
- P961** Acute Respiratory Failure in an HIV-positive Patient With Undisclosed Status and Concurrent Kratom Use
- P962** A Case of Acute Eosinophilic Pneumonitis Secondary to Daptomycin in a Patient With Interstitial Lung Disease
- P963** Paclitaxel-induced Pneumonitis: A Case Report With Pulmonary Function Test Changes Pre and Post Steroid Therapy

## CLINICAL

## THEMATIC POSTER SESSION

### A53 OFF TARGET: DRUG-RELATED PULMONARY COMPLICATIONS

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

Moscone Center

Area H, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P964** Nintedanib Induced Anemia: A GAVE Complication
- P965** Hydralazine-induced ANCA Vasculitis - A Rare but Fatal Complication
- P966** DMARDs Associated Cavitary Lung Pleuro-pulmonary Disease
- P967** A Case of Immune Checkpoint Inhibitor-Induced Triple-M Overlap Syndrome

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| <p><b>P968</b> When Cure Turns Into Curse: Pulmonary-Renal Syndrome Secondary to Hydralazine-Induced Vasculitis</p> <p><b>P969</b> Puff or Peril: A Tale of Two Pulmonary Threats - Evali and Rituximab</p> <p><b>P970</b> Diffuse Alveolar Hemorrhage - A Devastating Complication of Drug-induced Lupus</p> <p><b>P971</b> Milky Waters: A Case of Dasatinib-induced Chylothorax</p> <p><b>P972</b> Secukinumab Associated Eosinophilic Pleural Effusion</p> <p><b>P973</b> Consideration of Inhaled Volatile Nitrates “Poppers” in Workup of Hypoxemia</p> <p><b>P974</b> Hydralazine-Induced Systemic Lupus Erythematosus: A Clinical Investigation</p> <p><b>P975</b> Autopneumectomy Due to Lung Necrosis Caused by Chemical Pneumonitis After Caustic Paint Thinner Aspiration</p> <p><b>P976</b> High Stakes in Hemorrhage: Successful Steroid Treatment of Bortezomib Induced Diffuse Alveolar Hemorrhage</p> <p><b>P977</b> A Case of Massive Pleural Effusion Due to Azacitidine Therapy</p> <p><b>P978</b> Hydralazine-Induced Antineutrophil Cytoplasmic Antibody (ANCA)-Associated Vasculitis Presenting as Pulmonary-Renal Syndrome</p> <p><b>P979</b> When Treatment Takes Your Breath Away: A Rare Case of Imatinib-induced Lung Injury</p> <p><b>P980</b> From Urine to Lung - A Rare Case of Nitrofurantoin-Induced Interstitial Lung Disease</p> <p><b>P981</b> Acute Interstitial Lung Disease as a Result of Combination Medication of Abemaciclib and Fluconazole</p> <p><b>P982</b> Development of Pulmonary Arteriovenous Malformations During Trastuzumab Emtansine Therapy for HER2-Positive Breast Cancer</p> <p><b>P983</b> Duloxetine Induced Interstitial Lung Disease - A Novel Case Report</p> <p><b>P984</b> Acute Respiratory Failure Following Initiation of Lutetium Lu 177 Dotatate</p> | <p><b>P985</b> A Case of Diffuse Alveolar Hemorrhage Due to Drug Induced Lupus Precipitated by Hydralazine</p> <p><b>P986</b> A Fatal Case of Pembrolizumab Induced Myasthenia Crisis</p> <p><b>P987</b> Vedolizumab Induced Pulmonary Toxicity: A Case Report</p> <p><b>P988</b> A Unique Case of Pembrolizumab-Induced Unilateral Chylothorax in the Absence of Capillary Leak Syndrome</p> <p><b>P989</b> Bleeding Lungs: A Case Report of Hydralazine Induced Systemic Lupus Erythematosus Presenting With Diffuse Alveolar Hemorrhage</p> <p><b>P990</b> Drug Induced Lupus Secondary to Hydralazine Presenting as Diffuse Alveolar Hemorrhage and Glomerulonephritis</p> <p><b>P991</b> A Joint Decision: A Case of Obstructive Airway Disease Following Long COVID Infection While on JAK Inhibitor for Psoriatic Arthritis</p> <p><b>P992</b> Filgrastim-Associated Acute Respiratory Distress Syndrome</p> <p><b>P993</b> Hydralazine Induced Vasculitis Presenting as Diffuse Alveolar Hemorrhage</p> <p><b>P994</b> Paxlovid-Induced SIADH</p> <p><b>P995</b> Atypical Presentation of Docetaxel Induced Lung Injury</p> <p><b>P996</b> A Rare Case of Amlodipine Overdose Leading to Acute Pulmonary Edema</p> <p><b>P997</b> Breaching the Lungs: Diffuse Alveolar Hemorrhage as a Rare Complication of JAK-2 Inhibitor</p> <p><b>P998</b> Albuterol Nebulization: Unraveling the Risk of Lactic Acidosis in Continuous Therapy</p> <p><b>P999</b> A Case Report of Diffuse Alveolar Hemorrhage Caused by Warfarin Use</p> <p><b>P1000</b> Pulmonary Fallout: The Not-so-Innocent Combo of Cocaine and Fentanyl</p> |
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## CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

## A54 LATEST ADVANCES IN BRONCHIECTASIS, CF, AND RESPIRATORY SYMPTOMS

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

Moscone Center

Area A, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P79 Encounter-level Clustering for the Evaluation of Clinical States of People With Cystic Fibrosis
- P80 Hospitalizations and Risk of Readmissions in Patients With Non-cystic Fibrosis Bronchiectasis
- P81 Incidence and Etiological Characteristics of Bronchiectasis in the US: 2018-2022
- P82 Characteristics of Infrequent or Frequent Exacerbators: Data From the Bronchiectasis Research Registry
- P83 Predictors of Acute Exacerbations in Patients With Post-tuberculosis Bronchiectasis: A Multicenter Retrospective Study
- P84 Accuracy of the American Thoracic Society (ATS) Guideline for Diagnosing Adults With Primary Ciliary Dyskinesia
- P85 Assessment of Primary Ciliary Dyskinesia Diagnostic Capacity in Latin America: A Cross-sectional Study
- P86 Bronchiectasis in Patients With Inflammatory Bowel Diseases - Prevalence, Predictors, and Clinical Characteristics
- P87 Defining a 7-day Standard for Cough Monitoring: Data-driven Insights on Optimal Duration
- P88 A Proof of Concept Therapeutic Solution for Chronic Cough: Personalized Monitoring and Targeted Suppression
- P89 Evaluating Cough Bouts as a Metric for Cough Severity
- P90 Treatment Patterns and Outcomes Among Patients With Non-Cystic Fibrosis Bronchiectasis

- P91 Assessment of Quantitative Cough Monitor-acquired Measures in Patients With Pulmonary Fibrosis
- P92 Clinical Effectiveness of High Frequency Chest Wall Oscillation (HFCWO) in a Bronchiectasis Population - A Case Series
- P93 Characterization of Cough Phenotypes and Mannitol Evoked Coughs in Refractory and Unexplained Chronic Cough
- P94 Study Design of a Phase III Study (AIRTIVITY®) of the Novel Cathepsin C (Dipeptidyl Peptidase 1) Inhibitor BI 1291583 in People With Bronchiectasis
- P95 Cystic Fibrosis Exacerbations as a Risk Factor for Longitudinal Renal Function Decline in Participants in the Standardized Treatment of Pulmonary Exacerbations Clinical Trial
- P96 Evaluation of a Novel Digital Cough Monitor in a Phase 2a Clinical Trial of Chronic Cough
- P97 Frailty and Related Factors in Patients With Bronchiectasis
- P98 Clinical Symptoms and Rheological Characteristics of Sputum in COVID-19-related Cough
- P99 The Impact of Treatable Traits on Antitussive Rate in Chronic Cough
- P100 Personalized Management in Primary Ciliary Dyskinesia: An N-of-1 Trial on Comparative Effectiveness of Airway Clearance Techniques
- P101 Does Timing of Cough Help in Diagnosing Etiology in Chronic Cough?
- P102 Assessing the Prevalence of Primary Ciliary Dyskinesia Among Patients With Idiopathic Bronchiectasis Seen in an Adult Bronchiectasis Clinic
- P103 Nutrition and Body Composition Correlations With Bronchiectasis Severity
- P104 Prevalence of Non-cystic Fibrosis Bronchiectatic Changes in Expiratory Central Airway Collapse
- P105 Validation of Modified Bode Score Using Activity Domain of St. George's Respiratory Questionnaire
- P106 Development and Evaluation of an Algorithm to Detect COPD Through an Intelligent Device
- P107 The Validation of BEAT PCD TEM Criteria
- P108 Effect of Camlipixant on Cardiac Repolarization in Healthy Participants: A Thorough QT/QTc Study



- P109 Investigating Camlipixant P2X3 Selectivity and Taste Disturbance: A Model-Based Dose-Response Meta-Analysis
- P110 Assessment of Ineffective Cough Using Cough Peak Flow (CPF)
- P111 Impact of Demographic and Anthropometric Factors on Reclassification of Exercise Tolerance Using Different Cardiopulmonary Exercise Testing Reference Equations
- P112 Dyspnea as an Adverse Effect of Ticagrelor: An Analysis of the FDA Adverse Events Reporting System Database
- P113 Assessing the Accuracy of the Veteran Specific Activity Questionnaire in Predicting Maximum Oxygen Consumption in Adults Undergoing Cardiopulmonary Exercise Testing at a Tertiary Care Center
- P114 Diagnostic Performance of the Rapid Emergency Assessment for Acute Dyspnea Ultrasound Method for Acute Left Heart Failure in Elderly Patients Presenting to the Emergency Department
- P115 Precision Medicine in Respiratory Care: Implementation Strategies and Clinical Impact - A Scoping Review
- P116 Long-term Impact of Elexacaftor/Tezacaftor/Ivacaftor on Clinical Outcomes and Laboratory Markers in People With Cystic Fibrosis With at Least One F508del Allele: A 42-month Single-Center Study
- P117 Correlation of Neutrophil-to-Lymphocyte Ratio (NLR) With the Clinical Severity in Patients Hospitalized With Exacerbation of Bronchiectasis
- P118 Clinical Phenotypes of Chronic Hypoxemia Among Hospitalized Adults in Kenya: A Cluster Analysis
- P119 Examination of Sex-linked Differences in Resting SpO<sub>2</sub> and SaO<sub>2</sub> in Healthy Adults
- P120 The Effect of Systemic Glucocorticoids and Inhaled Glucocorticoids on Patients With Chronic Obstructive Pulmonary Disease and Bronchiectasis Overlap
- P121 Frailty Is Associated With Increased Risk of 30-day Readmission After Bronchiectasis Exacerbation

## CLINICAL SCIENCE

## THEMATIC POSTER SESSION

### A55 CLINICAL CURIOSITIES: CASE REPORTS IN INTERVENTIONAL PULMONARY

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

Moscone Center

Area B, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P185 Lost in Transit: When the Capsule Takes a Detour to the Wind Pipe Instead of the Food Pipe
- P186 Adult-onset Idiopathic Pulmonary Hemosiderosis Without Typical Autoimmune Markers
- P187 Closing the Gap: The Novel Use of Bronchial Blocker in a Severe Bronchoabdominal/Atmospheric Fistula (BAAF)
- P188 Successful Treatment of a Post-lobectomy Bronchopleural Fistula With an Endobronchial Valve
- P189 Not Set in Stone a Case of Cement Embolism in Vertebroplasty
- P190 Winner Winner Chicken Dinner: Pneumomediastinum Following Chicken Bone Aspiration
- P191 Unconventional Presentation of Amyloidosis: A Case of Negative Congo Red Staining
- P192 Takotsubo Cardiomyopathy Triggered by Bronchoscopy: A Rare Complication
- P193 Unusual Complication of Robotic Bronchoscopy and Literature Review
- P194 Chronic Cough in an Immunocompromised Adult With Seizure Disorder
- P195 A Rare Case of Urinothorax Due to Misplaced Percutaneous Nephrostomy
- P196 Not All Hilar Adenopathy Is Sarcoidosis: A Rare Case of Mediastinal and Hilar Lymph Node Metastasis in Cervical Squamous Cell Carcinoma
- P197 Choking on Success: Iron Pill Aspiration in a Marathon Runner

- P198** The Last Thing You Expect: The Critical Importance of Recognizing Lidocaine Toxicity
- P199** Post-BAL Pneumothorax in Bronchiolitis Obliterans - A Rare Complication
- P200** The Bleeding Edge: Novel Repurposing of Fiberoptic Technology to Differentiate Hemoptysis From Pseudo-hemoptysis
- P201** Proning During Robot-assisted Bronchoscopy for Improved Access to Posterior Lung Lesions: A Retrospective Series
- P202** Now You See It, Now You Don't: A Case of a Phantom Aspiration
- P203** Pneumomediastinum: A Rare Complication of Endobronchial Ultrasound-guided Transbronchial Needle Aspiration
- P204** The Missing Piece: An Unusual Case of Tracheobronchial Foreign Body Aspiration During an Elective Thyroid Surgery
- P205** Management of Rapidly Reaccumulating Pleural Effusion Secondary to Pancreaticopleural Fistula in a Nonsurgical Candidate
- P206** "Bull"-seye: Targeting a Bronchopleural Fistula and Bullae With an Endobronchial Valve
- P207** Endobronchial Valve: The Rescue for Prolonged Persistent Air Leak Despite Multiple Surgical Interventions
- P208** Bridging the Gap: Navigating the Complexities of Bronchopleural Fistula After Pneumonectomy
- P209** A Rare Presentation of Spontaneous Pulmonary Pseudocyst Diagnostic and Therapeutic Challenges
- P210** A Small Fix for a Massive Problem: Using an Endobronchial Valve for Recurrent Massive Hemoptysis Secondary to a Mycetoma
- P211** Post-intubation Tracheal Stenosis After a Single Day of Intubation
- P212** Efficacy of Endobronchial Watanabe Spigot for Patients With Hemoptysis Refractory to Bronchial Artery Embolization
- P213** Iron Pill Aspiration Presenting as Bronchial Stenosis: A Case Report
- P214** You're So Special
- P215** Tight Squeeze: Traumatic Intubation Leading to Tracheal Stenosis
- P216** Animal Bone Extraction Using Flexible Bronchoscopy Presenting as Broncholith in a Previously Treated Chronic Obstructive Pulmonary Disease Patient: A Case Report
- P217** From Chunky Monkey to Chunky Airways: Value of Flexible Bronchoscopy in the Community Hospital Setting
- P218** A Case Regarding Catheter-directed Thrombolysis for an Acute PE in the Setting of a New-onset Atrial Fibrillation With Rapid Ventricular Response
- P219** A Case of Severe Pulmonary Alveolar Proteinosis
- P220** Healing the Air Leak: A Case of Successful Endobronchial Valve Placement After Surgical Correction Following Lung Nodule Segmentectomy
- P221** "Can't Intubate, Can't Oxygenate": A Case of Subglottic Tumor
- P222** "An Unforeseen Complication: Endobronchial Stent Migration and Its Management"
- P223** Foreign Body Reaction in Pulmonary Arteries: Unexpected Case Finding in Transbronchial Cryobiopsy
- P224** A Return to Room Air After BLVR
- P225** Hole in the Wall: A Case of Hiatal Hernia in a 75 Year Old Male

## CLINICAL

## THEMATIC POSTER SESSION

**A56** BEHIND THE CURTAINS: CASE REPORTS IN PLEURAL DISEASE

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

Moscone Center

Area G, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

**P767** Bronchial Erosion Leading to Lobectomy: Discovery of an Intrathoracic Gossypiboma From 1989**P768** A Gynecological Cause of Hemothorax: Ruptured Uterine Fibroids

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| <p><b>P769</b> Rare Case of Recurrent Pneumothorax in Klippel-Feil Syndrome</p> <p><b>P770</b> A Rare Presentation of Hemothorax Caused by Scurvy</p> <p><b>P771</b> Graves' Disease Complicated With Left Subclavian Vein Thrombosis and Subsequent Chylothorax: A Unique Case Report</p> <p><b>P772</b> Propof-all Up in That Space</p> <p><b>P773</b> Recurrent Large Unilateral Pleural Effusion Unraveling Pulmonary Sarcoidosis</p> <p><b>P774</b> Hidden Fat: Pleural Lipomatosis as a Rare Cause of Progressive Shortness of Breath</p> <p><b>P775</b> Resolution of Hepatic Chylothorax Following Tips: A Novel Therapeutic Insight</p> <p><b>P776</b> Recurrent Hydropneumothorax Due to Migrating Fractured Rib Fragment, Managed Using Vats</p> <p><b>P777</b> A Case of a Loculated Malignant Pleural Effusion Drained With Pleural Irrigation</p> <p><b>P778</b> Pneumothorax in Ehlers-Danlos Syndrome</p> <p><b>P779</b> A Rare Complication of Exudative Pleural Effusion After Nephrostomy Tube Placement</p> <p><b>P780</b> Leukemic Blasts in Pleural Fluid Leading to Respiratory Distress: A Rare Presentation of Acute Myeloid Leukemia</p> <p><b>P781</b> Atraumatic Right Sided Colo-pleural Fistula After Transcatheter Arterial Chemoembolization</p> <p><b>P782</b> Idiopathic Fibrosing Mediastinitis Complicated by Chylothorax in a 19-year-old Filipino</p> <p><b>P783</b> A Rare Case of Pleural and Systemic Listeriosis in a Patient With Cirrhosis</p> <p><b>P784</b> Prolonged Intrapleural Fibrinolytic and Enzyme Therapy in a Patient With Empyema Due to Gemella Sanguinis: Extended t-PA-DNase Therapy Beyond the Mist 2 Protocol</p> <p><b>P785</b> Triple Air Leak Syndrome in a Mechanically Ventilated Patient</p> <p><b>P786</b> Milroy's Disease With Chronic Lymphedema and Recurrent Bilateral Chylothorax</p> <p><b>P787</b> Growing Pleural Mass After Talc Pleurodesis</p> <p><b>P788</b> Double Trouble in the Chest: A Case of Urinochylothorax</p> | <p><b>P789</b> Acute Recurrent Postpartum Pleural Effusion</p> <p><b>P790</b> A Rare Case of Delayed Presentation of a Urinothorax</p> <p><b>P791</b> An Unusual Etiology of Black Pleural Effusion: A Case Report on Pancreaticopleural Fistula</p> <p><b>P792</b> Playing Houdini: The Cyclical Vanishing Act of Thoracic Endometriosis Syndrome</p> <p><b>P793</b> The Mysterious Link: Exploring the Hidden Origins of Catamenial Pneumothorax</p> <p><b>P794</b> Pleural Masses: A Case of Intrathoracic Splenosis Diagnosed Noninvasively</p> <p><b>P795</b> Loculated Pneumothorax and Pneumomediastinum in a Patient With Prior Pleurodesis - A Diagnostic and Therapeutic Challenge</p> <p><b>P796</b> Tough on Grease: Persistent Nontraumatic Chylothorax Refractory to Adjunctive Octreotide Improved With Midodrine</p> <p><b>P797</b> Beyond the Pelvis - A Case of Thoracic Endometriosis Syndrome</p> <p><b>P798</b> Candida Can't Do Da: Right-sided Pleural Effusion Uncovers Spontaneous Esophageal Perforation</p> <p><b>P799</b> Actinobaculum Schaali: An Unlikely Culprit Causing Empyema</p> <p><b>P800</b> A Case of Recurrent Chylothorax in the Setting of Suspected Fibrosing Mediastinitis</p> <p><b>P801</b> Unusual Presentations of Hodgkin Lymphoma: Superior Vena Cava Syndrome, Horner's Syndrome, and Eosinophilic Pleural Effusion ?</p> <p><b>P802</b> Recurrent Left Lung Paracentesis? A Rare Case of Left Hepatic Hydrothorax Due to Diaphragmatic Defect</p> <p><b>P803</b> Empyema Secondary to Ruptured Hepatic Abscess: A Case Report</p> <p><b>P804</b> Veins Under Pressure: A Rare Cause of Chylothorax in a Hemodialysis Patient</p> <p><b>P805</b> Pleurodesis Saves the Day No VATS, No Problem!</p> <p><b>P806</b> TB or Not TB: Two Unique Cases of Pleural Tuberculosis in Immunocompetent Hosts</p> <p><b>P807</b> Rare Chest Complication From a Subcapsular Liver Hematoma</p> <p><b>P808</b> Seeing Through the Shadows: Lung Sliding Reveals Pneumatocele Misdiagnosed as Empyema</p> <p><b>P809</b> As Clear as Cholesterol Crystals: A Rare Case of Pseudochylothorax</p> |
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- P810 The Case of the Disappearing Bilateral Pneumothoraces
- P811 Splenic Injury: Rare Cause of a Pleural Effusion
- P812 A Case of Fusobacterium and Parvimonas Empyema
- P813 Eosinophils of Many Origins: Eosinophilic Pleural Effusion in a Patient With Hypereosinophilia and Pericardial Effusion
- P814 Black Pleural Effusion a Case of Thoracic Endometriosis
- P815 Recurrent Chylothorax Refractory to Conservative Management

### CLINICAL

### THEMATIC POSTER SESSION

## A57 LATE BREAKING ABSTRACTS IN CLINICAL PROBLEMS

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

Moscone Center

Area H, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1001 Real-World Treatment Persistence and Predictive Factors for Discontinuation of Antifibrotic Therapies in Patients With Idiopathic Pulmonary Fibrosis: A Post-hoc Analysis of Two Multicenter Observational Cohort Studies in Poland
- P1002 Pulmonary Fibrosis After COVID-19 Is Characterized by Airway Abnormalities and Persistently Elevated CC16
- P1003 Efficacy and Safety of Pirfenidone in Patients With Progressive Pulmonary Fibrosis: A Retrospective Single-center Study in South Korea
- P1004 Development and Validation of a Predictive Model for Acute Exacerbation Risk in Patients With Idiopathic Pulmonary Fibrosis: A Dual Center Based Clinical Study
- P1005 Leveraging Generative Pre-trained Transformer (GPT) Large Language Models (LLMs) For Interstitial Lung Diseases (ILD) Clinical Research
- P1006 Automated AI Detection of Interstitial Lung Disease by Computed Tomography (CT) in the COPD Gene Trial; Subanalysis and Characteristics of Accurately Detected Cases
- P1007 A Double-blind, Placebo-controlled, Randomized Phase 1 Study to Evaluate Safety, Tolerability, and Pharmacokinetics After Single or Repeat Twice-daily Doses of AP02, a Nebulized Formulation of Nintedanib
- P1008 Harnessing Remote Patient Monitoring Data for Hospitalization Risk Prediction: A Statistical and Temporal Analysis
- P1009 Monte Carlo External Control Arm Generation Utilising Real-world Patient Data and Deep Learning-based Quantitative CT Metrics Demonstrates Treatment Effect in the Atlas IPF Trial
- P1010 Serial Endobronchial Optical Coherence Tomography Imaging as a Novel Method to Detect Microscopic Disease Changes and Microprogression in IPF
- P1011 Nintedanib for the Treatment of SARS-CoV-2 Induced Pulmonary Fibrosis: A Randomized Clinical Trial (Nintecor)
- P1012 The Increased Risk for the Viral Infection After Sepsis in Patients With Chronic Obstructive Pulmonary Disease: A Federated Research Network Study
- P1013 A Solution for Adults With Refractory Chronic Cough
- P1014 Real-World Effectiveness of Budesonide/Glycopyrrrolate/Formoterol Fumarate on COPD Exacerbation-Related Healthcare Utilization and Costs: Results From the US Arctos Study
- P1015 Safety of Bilateral Thoracentesis: A Cross-Sectional Safety Review
- P1016 Novel Visualization of High-Volume Respiratory Rate Data for Remote Clinical Assessment of COPD
- P1017 Win Ratio Analysis of BOREAS and NOTUS: Faster Trials, Clearer Wins for Patients With Chronic Obstructive Pulmonary Disease With Type 2 Inflammation
- P1018 Comparing Long Term Effectiveness of Bronchoscopic Lung Volume Reduction in COPD Patients With and Without Alpha-1 Antitrypsin Deficiency - A Matched Case-Control Study



- P1019** Reduced COPD Exacerbation Risk With Prompt Initiation of Budesonide/Glycopyrrolate/Formoterol Fumarate (BGF) After a COPD Exacerbation Among Patients With COPD and Concurrent Asthma: The MITOS EROS+CP (US) Study
- P1020** Mepolizumab for the Treatment of Refractory Chronic Cough With Eosinophilic Airways Disease (MUCOSA): A Randomized, Double-blind, Placebo-controlled Trial
- P1021** The Association Between Skeletal Muscle Mass and All Cause Mortality in Acute Exacerbation of Chronic Obstructive Pulmonary Disease
- P1022** Endobronchial Ultrasound-guided Transbronchial Mediastinal Cryobiopsy via a Tunnel
- P1023** Risk Factors for the Development of Pleural Effusions in Patients Undergoing Bronchoscopic Lung Volume Reduction (BLVR)
- P1024** Predictors of Improvement in Lung Volume Reduction to Determine Surgical Versus Bronchoscopic Approach in COPD Patients
- P1025** Our Experience of Endobronchial Ultrasound With Transbronchial Needle Aspiration in an Indian Tertiary Care Hospital
- P1026** Social Determinants of Health and Rehospitalization in Chronic Obstructive Pulmonary Disease (COPD) Patients: A Longitudinal Analysis
- P725** Evaluation of Indoor Air Quality, Health Impacts, and Natural Ventilation in Medical Faculty Buildings
- P726** From Smog to Search: Studying the Impact of Air Pollution on Google Search Trends for Asthma
- P727** Community Knowledge About Air Pollution Levels, Sources, and Health Risks in Southwestern Uganda
- P728** Regional and Age-Related Differences in Correlates of Biomass-Associated Air Pollution Exposure and Subjective Assessments of Indoor Air Quality in Uganda
- P729** Rate of Pediatric Healthcare Encounters for RSV From PM<sub>2.5</sub> Before and After Tier 3 Vehicle Standards in New York State
- P730** Acceptability and Feasibility of Home-based Portable Air Cleaners in Veterans With Chronic Respiratory Health Conditions and Co-occurrence of Major Depressive Disorder
- P731** Air Filtration to Improve Indoor Air Quality and COPD Outcomes in a High-risk Urban Population of U.S. Military Veterans
- P732** Home Is Where the Haze Is: Domestically Acquired Particulate Lung Disease Presenting as a Lung Mass
- P733** How the Risk of COPD Exacerbation in the 3 Largest Urban Agglomerations in Poland Varies Depending on the Concentration of Air Pollutants?
- P734** Purpleair Monitor Locations in Allegheny County, PA: An Ecological Analysis
- P735** Phospholipids in Small Airway Lining Fluid and Effects of Exposure to Pollen and Air Pollution in Allergic Asthma

## BASIC • CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

## A58 ADDRESSING THE CHALLENGES OF AIR POLLUTION FOR BETTER LUNG HEALTH OUTCOMES

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

Moscone Center

Area F, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P724** Impact of Ethanol Blended Fuel and Bharat Stage VI Emission Standards on Human Health and Ambient Air Quality Risk Assessment in India

## BASIC • CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

## A59 CASE REPORTS IN OCCUPATIONAL AND ENVIRONMENTAL MEDICINE

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

Moscone Center

Area F, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P737 Unmasking Hypersensitivity Pneumonitis: A Complex Case of Environmental Exposures and COVID-19
- P738 A Parakeet Owner's Pulmonary Puzzle: Severe Asthma, Sarcoidosis, and Allergic Bronchopulmonary Aspergillosis (ABPA) Complicated by Stenotrophomonas maltophilia and Hypersensitivity Pneumonitis
- P739 Fowl Play: A Case of Hypersensitivity Pneumonitis Caused by Bird Exposure in Adult Female
- P740 Occupational Hypersensitivity Pneumonitis: A Rare Case Triggered by Aureobasidium Pullulans
- P741 ¡Oye! It's Not Always Sarcoid!
- P742 A Novel Case of Sarcoidosis in a Nail Salon Worker
- P743 Silicone Granulomatosis: A Rare Cause of Hypercalcemia
- P744 The Silicosis Sleuth and the Case of the Sarcoidosis Imposter
- P745 The Importance of Asking a Thorough Social History; A Case of Aluminum Pneumoconiosis
- P746 Masked by the Shadows: Bronchial Anthracosis Uncovered
- P747 Double the Threat: A Combine Pulmonary Fibrosis and Emphysema in a Filipino Coal Miner - A Case Report
- P748 Steroid-Dependent Non-Specific Interstitial Pneumonia in an Asphalt Pothole Repair Worker
- P749 Lithium Battery Fires and Fluoride Gas: A New Concern for Reactive Airway Disease Syndrome
- P750 Fiberglass-induced Pseudo-Angioedema and Dermatitis in a Construction Worker
- P751 Beyond the Pallidus: Unexpected Outcomes in Severe Carbon Monoxide Poisoning
- P752 An Unusual Case of Methemoglobinemia
- P753 Case Report: Tracheal Hirudiniasis Induced by Ingestion of Unboiled Mountain Spring Water
- P754 Kush Coma: A Unique Presentation of Acute Cannabis Toxicity Requiring Intubation Complicated by Sinus Bradycardia and 2nd Degree Atrioventricular Nodal Blockade
- P755 Rapid Ascent From Underwater Lead to Decompression Illness: A Case Report and Review of Literature
- P756 A Case of Nitrous Oxide-Induced Bilateral Pulmonary Embolism and Subacute Combined Degeneration
- P757 Burning Up - How Heat Stroke Can Spark GBS
- P758 Unusual Inheritance Pattern of Alpha-1 Antitrypsin Deficiency: A Case Report of Four ZZ Phenotype Siblings From MZ Carrier Parents
- P759 Toxic Treads: The Link Between Tire Fibers, Microplastics, and Interstitial Lung Disease
- P760 Diffuse Pulmonary Meningotheliomatosis and Turner's Syndrome: A Growing Area of Literature
- P761 Complex Medical and Pulmonary Sequelae of Severe Schizophrenia: A Case of Recurrent Foreign Body Aspiration and Pulmonary Complications
- P762 A "Bone" Voyage Gone Wrong: A Chicken's Bone Detour
- P763 Supplement to Suffocation: A Journey Down the Wrong Pipe

## BASIC • TRANSLATIONAL

## THEMATIC POSTER SESSION

### A60 EXPLORING SOUTH BEACH: MAPPING THE EPIDEMIOLOGY, SURVIVAL, AND OUTCOMES IN PULMONARY HYPERTENSION

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

Moscone Center

Area C, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P258 Regional Variation of Pulmonary Arterial Hypertension Mortality in the United States. A CDC Wonder Study
- P259 Impact of Pulmonary Hypertension on Heart Failure: Insights From the Nationwide Inpatient Sample
- P260 Pulmonary Arterial Hypertension in Octogenarians: The Pulmonary Hypertension Association Registry
- P261 Baseline Insights and Diagnostic Challenges of Precapillary Pulmonary Hypertension in Rural West Virginia: Findings from a Regional Registry

- P262 Quality of Life After Hospitalization With Acute Pulmonary Emboli
- P263 Prevalence and Predictors of Pulmonary Arterial Hypertension in Hemodialysis Patients With Arteriovenous Fistula: A Systematic Review and Meta-Analysis
- P264 Survival in Methamphetamine Associated Pulmonary Arterial Hypertension
- P265 Pulmonary Arterial Hypertension Hospitalization Trends and Outcomes. A Retrospective Large Database Analysis
- P266 The Addition of a Pulmonary Hypertension Specialist to an Existing Interventional Cardiology Practice and the Impact on Right Heart Catheterizations and Diagnosis of Pulmonary Hypertension
- P267 Do Comorbidities Play a Role in Pulmonary Embolism Mortality?
- P268 Characteristics and Survival of Adult Pulmonary Arterial Hypertension and Chronic Thromboembolic Pulmonary Hypertension Patients Treated in a Uruguayan Reference Center (2006-2024)
- P269 Characterizing Roles and Perspectives of Caregivers in Pulmonary Hypertension
- P270 Rates of Pulmonary Hypertension in End-stage Renal Disease Associated With AV Fistula at a Single Center
- P271 Low Muscle Mass In Patients With Pulmonary Arterial Hypertension
- P273 HIPK2 Regulates Pro-proliferative Pro-survival Phenotype of Pulmonary Smooth Muscle Cells in Pulmonary Arterial Hypertension
- P274 Von Willebrand Factor-mediated  $\alpha v\beta 3$  Integrin Signaling Drives Pulmonary Artery Smooth Muscle Cell Proliferation in Pulmonary Hypertension
- P275 A Single Academic Center's Experience With Isolating Pulmonary Artery Endothelial Cells From Right Heart Catheter Tips in Patients With Pulmonary Arterial Hypertension
- P276 A Simplified Procedure to Isolate Endothelial Cells From Pulmonary Arterial Blood
- P277 BMPR2 Mutation in Visceral Adipocytes Regulate Pulmonary Microvascular Endothelium
- P278 Postnatal TBX4 Knockout Results in Pulmonary Hypertension and Alveolar Simplification
- P279 Differential PI3K Isoform Expression in BMPR2-deficient Pulmonary Artery Endothelial Cells
- P280 Changes in Lung Endothelial Cell Apoptosis Susceptibility After Exposure to Shear Stress
- P281 DEHP-Induced Glucose Consumption and Lactic Acidosis in Pulmonary Endothelial Cells: Insights for Neonatal Health in NICU Settings
- P282 CDK5 Inhibition Attenuates Nitration Stress-induced Endothelial-to-Mesenchymal Transition
- P283 Endostatin-Induced microRNA Dysregulation and TGF- $\beta$  Pathway Alterations in Pulmonary Arterial Hypertension: Insights Into Pulmonary Endothelial Cell Dysfunction
- P284 miR-153 Prevents Hypoxia-induced Endothelial-to-Mesenchymal Transition in Lung Vascular Endothelial Cells
- P285 Complex Regulation of Endothelial Nitric Oxide Production Contributes to Hypoxia Response in Pulmonary Endothelium - Role of Epithelial-Endothelial Crosstalk in the Lung
- P286 Endothelial Rock Is Dispensable in the Adult Murine Lung, but Required for Central Nervous System and Intestinal Vascular Integrity
- P287 Non-canonical CDC20-securin Signaling Drives Pulmonary Vascular Cell Hyper-proliferation, Remodeling, and Pulmonary Hypertension

## BASIC • TRANSLATIONAL

## THEMATIC POSTER SESSION

### A61 BARBARY COAST: REGULATION OF PULMONARY ARTERIAL CELLS IN DISEASE AND DEVELOPMENT: MECHANISMS AND IMPLICATIONS

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

Moscone Center

Area C, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P288** Hepatocyte Growth Factor Underlies Male Protection Against Pulmonary Arterial Hypertension
- P289** Tn $\alpha$  Induces Abnormal Pericyte-Mediated Vascular Remodeling in a Novel Model of CTD-PAH
- P290** Developmental Alterations in Lung Pericytes Facilitate Alveolarization
- P291** Akt-dependent Vacuolar Protein Sorting 34 Activation in Pulmonary Arterial Vascular Is a Shared Molecular Mechanism in Adult Pulmonary Hypertension and Congenital Diaphragmatic Hernia-associated Pulmonary Vascular Remodeling
- P292** PRMT5 Regulates Pulmonary Vascular Smooth Muscle Cell Proliferation and Survival in Pulmonary Arterial Hypertension
- P293** In Vitro Phase Separation of PPM1B During Hypercapnia

### BASIC • TRANSLATIONAL

### THEMATIC POSTER SESSION

## **A62 PIER 41: KEY CLINICAL COMPLICATIONS, DIAGNOSTIC CHALLENGES, AND THERAPEUTIC APPROACHES IN PULMONARY VASCULAR DISEASE CASE REPORTS**

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

Area C, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P295** Pulmonary Arteriovenous Malformation Embolization in a Pregnant 20-year-old With Hereditary Hemorrhagic Telangiectasias
- P296** An Unexpected Discovery: Bronchial Atresia Unveiled Following a High-Altitude Hike
- P297** A Tortuous Case of Hemoptysis
- P298** A Rare Case of Giant Cell Arteritis Affecting Two Giants: Aorta and Pulmonary Artery
- P299** Walking a Fine Line: Dialysis Catheter Placement Into an Anomalous Pulmonary Vein
- P300** Radiation for Pulmonary Artery Chondrosarcoma

- P301** Recurrent Hemoptysis in the Setting of an Anomalous Left Bronchial Arising From the Right Coronary Artery
- P302** Out of Place but Not Out of Reach: The Successful Retrieval of a Dislodged Leadless Pacemaker
- P303** Giant Pulmonary Artery Aneurism Compressing Pulmonary Vein: When the Snail Swallows the Tail
- P304** Pseudoaneurysm After Right Heart Catheterization: Implications in Elective Cases and Intensive Care
- P305** A Tale of Two Arteriovenous Malformations: From Asymptomatic Nuisance to Abscessed Crises
- P306** "One Lung Is Good Enough": Isolated Unilateral Absence of Pulmonary Artery With Ipsilateral Interstitial Lung Disease
- P307** Atypical Presentation of Cardiogenic Pulmonary Edema: Multiple Subsolid Lung Nodules
- P308** A Rare Vascular Anomaly: Pulmonary Artery Pseudoaneurysm in a Young Female
- P309** The Fat Emboli That Persisted
- P310** Hypoxia, Shunt, and Pulmonary Arteriovenous Malformations: A Tale of Two Syndromes
- P311** Concrete Consequences- A Case of Extensive Cement Embolization Following PMMA Administration
- P312** Pulmonary Hemorrhage After Swan-Ganz Manipulation
- P313** I've Got a Case of the Blues: A Curious Case of Superior Vena Cava Syndrome
- P314** Blast From the Past: Recurrent Hemoptysis Due to Multiple Pulmonary Vein Isolation Ablations for the Treatment of Atrial Fibrillation
- P315** Massive Arterio-venous Malformation (AVM), You Name a Complication
- P316** Defying the Odds: ECMO as a Life-saving Intervention in Distributive and Cardiogenic Shock After Fatal Calcium Channel Blocker Overdose
- P317** Carcinoid Heart Disease With Left Sided Hepatic Hydrothorax and Trapped Lung
- P318** Recurrent Hemoptysis Secondary to Undiagnosed Bronchial Dieulafoy's Disease
- P319** The Vein Less Traveled: An Unusual Pulmonary Shunt Causing Refractory Hypoxia



- P320** Unilateral Pulmonary Venous Atresia - The Chronic Thromboembolic Pulmonary Disease Mimicker
- P321** Antiphospholipid Syndrome and the Craft of Its Sequelae
- P322** The Danger Within: How Hormone Supplementation Can Lead to Certain Demise
- P323** Unexpected Hypoxemia: A Case of Hepatopulmonary Syndrome in Acute Liver Failure
- P324** A Ticking Timebomb: A Case of a Ruptured Mycotic Aneurysm in a Patient With Tricuspid Valve Endocarditis
- P325** Complications of Sickle Cell Disease Requiring Venovenous Extracorporeal Membrane Oxygenation
- P326** A Case of Pulmonary Artery Pseudoaneurysm Associated With Empyema
- P327** Fractured Neck and a Fatty Surprise: A Rare Case of a Fat Embolism
- P328** Garlic Therapy for Hepatopulmonary Syndrome: Paving the Way to Transplant
- P329** All Hands on Deck: Acro-osteolysis in the Diagnosis of Systemic Sclerosis
- P330** Calcium-channel Blocker Induced Respiratory Failure? An Unusual Phenomenon
- P331** Platypnea-orthodeoxia Syndrome: A Rare Cause of Hypoxia on Exertion
- P332** Unmasking the Flow: High Output Heart Failure Linked to Chronic Arteriovenous Fistula
- P333** To Bleed or Not to Bleed, That Is the Question
- P334** Pulmonary Arteriovenous Malformations (AVMs) in a Patient With Familial Hereditary Hemorrhagic Telangiectasia (HHT): A Case of Recurrent PAVMs Growth Over Three Decades in an Asymptomatic Patient
- P335** Single Right Pulmonary Artery: A Rare Anatomical Variant Mimicking Pulmonary Arterial Venous Malformation
- P336** The Paradox of Elevated Pulmonary Pressures Without Shunt Reversal in ASD - A Case Report
- P337** The Curved Turkish Sword - A Complex Case of Scimitar Syndrome

- P338** A Rare Case of a 68 Year Old Female Diagnosed With Aortobronchial Fistula After a Thoracic Aneurysm Repair: A Case Report

**BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL**
**THEMATIC POSTER SESSION**
**A63 PEDIATRIC ASTHMA, CHRONIC COUGH, AND ENVIRONMENTAL LUNG DISEASES**
**9:15 a.m. - 4:15 p.m.**
**Moscone Center**

Area E, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P519** Characterization of Airway and Esophageal Inflammation in Children With Recurrent Croup
- P520** Efficacy of Inhaled Corticosteroids in Pediatric Patients With Oropharyngeal Dysphagia
- P521** Barriers to Start-up and Implementation of a Double-blind Interventional Randomized Controlled Trial in Critically Ill Pediatric Patients
- P522** Feasibility of Electronic Medication Monitoring for Measuring Rescue Inhaler Use After Pediatric Emergency Department Treatment for Acute Asthma Exacerbations
- P523** A Novel Methodology to Enable Cost-effective, Multi-center, Randomized, Double-blind, Placebo-Controlled Trials
- P524** The Healthcare Burden of Pediatric Cough and Associations With Preschool Asthma - Findings From the Canadian Healthy Infant Longitudinal Development (CHILD) Cohort Study
- P525** Measuring Social Determinants of Health Among Children With Poorly Controlled Asthma Enrolled in a Pediatric Asthma Trial
- P526** Metabolomic Dysregulations in Severe Obesity-Related Asthma: Insights from a New York City Pediatric Urban Cohort
- P527** Challenges of Implementing a Standardized Asthma Clinical Pathway Across a Pediatric Department

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| <p><b>P528</b> Provider Perspectives on the Implementation of an Acute Asthma Pathway in the Pediatric Primary Care Setting: A Qualitative Study</p> <p><b>P529</b> Usability Assessment of Albus Home Contactless Device for Long Term Nocturnal Monitoring in Children With Asthma</p> <p><b>P530</b> Optimizing Asthma Care in the Underserved Pediatric Population in Miami</p> <p><b>P531</b> Effects of COVID-19 Infection on Chronic Asthma Control in Adolescents</p> <p><b>P532</b> The Role of Inflammatory Markers in Asthma Severity and Outcomes in a Pediatric Inner-city Cohort</p> <p><b>P533</b> Clinical Characterization of a Cohort of School-age Children With Severe Asthma Seen at a Suburban Pediatric Pulmonology Practice</p> <p><b>P534</b> Trends in Intensive Care Unit Admissions and Ventilation in Patients With Asthma: A 10 Year Population-Based Study</p> <p><b>P535</b> Evolving Disease Phenotypes in Pediatric Severe Asthma: A Report of Dual Biologic Therapy for Comorbid Systemic Inflammatory Disease</p> <p><b>P536</b> A Breath of Fresh Care: Assessing the Effectiveness of Current Transition Practices for Young Adults With Severe Asthma</p> <p><b>P537</b> The Effectiveness of Magnesium Sulfate for Status Asthmaticus in the Pediatric Intensive Care Unit</p> <p><b>P538</b> Effectiveness of a Virtual Patient Simulation at Classifying Asthma Phenotype and Specialist Referrals Among Pediatricians</p> <p><b>P539</b> Complete Blood Count-derived Inflammation Indices as Possible Biomarkers for Allergic and Non-allergic Asthma Phenotypes in Children</p> <p><b>P540</b> Sham Bilevel Positive Airway Pressure (BPAP) for a Prospective, Randomized, Double Blind, Controlled Trial Evaluating the Role of BPAP in Pediatric Acute Asthma Exacerbations</p> <p><b>P541</b> Current Practices Among 13 Severe Pediatric Asthma Programs in the United States</p> <p><b>P542</b> Using Order Sets to Increase Pediatric Pulmonary Follow-up After Asthma Exacerbation Emergency Department Visit</p> | <p><b>P543</b> Improving Inhaled Corticosteroid Prescribing Practices for Children Admitted to the Hospital With an Acute Asthma Exacerbation</p> <p><b>P544</b> Does Making an RT-driven Pediatric Asthma Pathway More Efficient Affect Outcomes?</p> <p><b>P545</b> Obesity in School-age Children With Severe Asthma Seen at a Suburban Pediatric Pulmonology Practice</p> <p><b>P546</b> An Electronic Health Record-Integrated Portal-based Asthma Management Module for Adolescent Involvement in Their Care</p> <p><b>P547</b> Characteristics of Mediastinal Emphysema Cases in Pediatric Asthma Exacerbation Hospitalizations: A Comparison With Data From Approximately 25 Years Ago</p> <p><b>P548</b> Establishing a Physical Fitness Screening Process in a Pediatric Severe Asthma Clinic: A Pilot Study</p> <p><b>P549</b> The Impact of an Urban Greening Intervention on Pediatric Asthma Healthcare Utilization</p> <p><b>P550</b> Transient Tachypnea of the Newborn and the Association With Preschool Asthma</p> <p><b>P551</b> It's Not Easy Being Wheezy: Markers of Illness Severity in Pediatric Patients Intubated for Status Asthmaticus With Air Leak Syndrome</p> <p><b>P552</b> Standardizing Asthma Action Plans for Single-maintenance-and-reliever Therapy in a Pediatric Pulmonology Clinic: A Quality Improvement Study</p> <p><b>P553</b> Understanding the Perspectives of Caregivers on the Asthma Action Plan for Brazilian Children and Adolescents: A Qualitative Study</p> <p><b>P554</b> Asthma Among Children With Primary Ciliary Dyskinesia: Analysis of Data From 130 Million Electronic Health Records</p> <p><b>P555</b> Mepolizumab Treatment in Children and Adolescents With Severe Eosinophilic Asthma (CASAM)-A Real-world Study: 12 Months Analysis</p> <p><b>P556</b> Epinephrine Prescription and Post-injection Monitoring Practices for Biologic Therapies in Pediatric Severe Asthma Clinics: A Multicenter Survey Analysis</p> <p><b>P557</b> Navigating the Crisis: A Case of Asthma Management Disrupted by Financial Instability</p> |
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- P558 Asthma in Children With Melanocortin 4 Receptor (MC4R) Gene Mutation Variant: A Case Series
- P559 A Seed of Doubt: A Case of Foreign Body Aspiration in a 10-year-old Girl
- P560 When You Can't Quite Cough It Up; A Child With Foregut Duplication Cyst Presenting as Asthma
- P561 Social Determinants of Health Screening in a Pediatric Asthma Population Leveraging an Institutional Electronic Medical Record-based Population Registry
- P562 Examining the Association of Secondhand E-cigarette and Smoke Exposure With Stages of E-cigarette Use in US 6th-12th Graders
- P563 The Association of Adolescent Respiratory Health With History of Smoking and Vaping Nicotine and Cannabis
- P564 Respiratory Symptoms and Nicotine and Cannabis Vaping Discontinuation
- P565 Vaping Screening: A Quality Improvement Project to Screen for Pediatric Vape Use and Symptoms of Pulmonary Complications of Vaping in an Ambulatory Setting
- P566 Improving the Use of Nicotine-Specific Screening Tools in Pediatric Primary Care
- P567 The Association of Exposure to Secondhand Nicotine Vaping at Home With Vaping Behavior Among Adolescents
- P568 Differentiating HAPE and Pneumonia in Children
- P569 Assessing Resident Understanding of Community Asthma Resources at a New York City Children's Hospital: A Pilot Study
- P571 Pulmonary Function Outcomes in a Prospective Cohort of Pediatric Allogeneic Hematopoietic Cell Transplant Recipients
- P572 Relationship Between Dysanapsis and Configuration of Flow-Volume Curve
- P573 Laboratory Evaluation of Low-cost Home Spirometry Devices
- P574 Home Spirometry in Asthma: A Scoping Review
- P575 Spirometer Reference Equations for School Children and Adolescents Aged 6-19 in Addis Ababa, Ethiopia
- P576 Pulmonary Function Abnormalities in Survivors of Pediatric Acute Respiratory Distress Syndrome
- P577 Feasibility of Pulmonary Function Testing at Baseline Prior to Pediatric Hematopoietic Stem Cell Transplantation (HSCT) Patients
- P578 Comparative Diagnostic Accuracy of Methacholine Challenge and Cardiopulmonary Exercise Testing for Bronchial Hyperresponsiveness in Pediatric Dyspnea
- P579 Beyond the Numbers: Rethinking the Role of Exhaled Nitric Oxide in Diagnosing Exercise-induced Bronchoconstriction in Pediatric Dyspnea
- P580 Evaluating Bronchodilator Response as an Alternative to Methacholine Challenge for Diagnosing Bronchial Hyperreactivity in Children Presenting With Unexplained Dyspnea
- P581 TRANSPIRE: Underlying Immunodeficiency Diagnosis Is Associated With Worsened Baseline and Longitudinal FEV<sub>1</sub> and FVC After Pediatric Hematopoietic Stem Cell Transplant in a Multicenter Study
- P582 Remote Stethoscope for Monitoring Asthma Patients: A Tool for Delivering Quality Virtual Care
- P583 Validation of a Digital Stethoscope for Recording and Identification of Pediatric Breath Sounds to Aid in Development of a Machine Learning Algorithm
- P584 Seasonal Variability of Fractional Exhaled Nitric Oxide (FeNO)
- P585 Utility of Routine FeNO Measures in School-age Children With Asthma
- P586 Abnormal Baseline Oscillometry in Subjects Undergoing Hematopoietic Stem Cell Transplantation (HSCT)

## CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

### A64 EVALUATION AND TESTING FOR PEDIATRIC LUNG DISEASES

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

Moscone Center

Area E, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P587** Ventilatory Response to Carbon Dioxide Challenge in Children and Young Adults
- P588** Demonstration of Differences Between Pediatric and Adult Respiratory Morphology Observed Using the N-Tidal Capnometer
- P589** Evaluating a Wearable Device for Wheeze Detection in the Pediatric Emergency Department: A Feasibility Study
- P590** Testing of a Novel Pediatric Mobile-Phone Reflectance Pulse Oximeter - The Phefumla Oximeter - by Healthcare Workers in South Africa
- P591** Predicting Minute Ventilation From Heart Rate in Adolescents: A Model for Real-time Assessment in Air Pollution Studies
- P592** Evaluation of Magnetic Resonance Imaging (MRI) Anatomic Risk Factors to Predict Outcomes in Patients With Esophageal Atresia (EA)
- P593** Patient Perceptions of Telehealth Post-pandemic in a Large Pediatric Pulmonary Clinic
- P594** Frequency of Various Combinations of Static and Dynamic Airway Findings From Flexible Bronchoscopy in Patients With Trisomy 21
- P595** Curious About Karius: Investigating the Impact of Karius and Bronchoalveolar Lavage Improving Diagnostic Yield Among Immunocompromised Children
- P596** Aligning Expectations With Outcomes: A Prospective Study of Pediatric Bronchoscopy in the ICU Setting
- P597** Pediatric Flexible Bronchoscopy Via Artificial Airways in the Intensive Care Unit
- P598** Assessing the Implications of Rapid Diagnostic Tests in Patients Undergoing Bronchoalveolar Lavage in a Pediatric Hospital
- P599** Bronchoscopic Evaluation of Former Neonatal Intensive Care Unit Patients With Congenital Heart Disease: Does Complexity Matter?
- P600** Clinical Utility of Bronchoalveolar Lavage in Oncology Patients at a Pediatric Hospital in Bogota, Colombia
- P601** Antibiotic Treatment Following Bronchoscopy With Bronchoalveolar Lavage Among Children With Chronic Cough

- P602** Convergent Validity Assessment of the Brazilian Version of the Pediatric Rating of Chronic Illness Self-efficacy (PRCISE-BR)
- P603** Evaluating and Optimizing Quantiferon-TB Gold Plus (QFT-Plus) for Pediatric Tuberculosis (TB) and Latent TB Infection (LTBI) Screening in Northern China's Children With Underlying Health Conditions
- P604** Chest Computed Tomography Findings in Neuroendocrine Cell Hyperplasia of Infancy
- P605** Abnormal Baseline Pulmonary Status Before Hematopoietic Stem Cell Transplant Is Underrecognized: A Report From the Transpire Study
- P606** Visualizing Lung Ventilation Heterogeneity in Children With X-ray Velocimetry

## BEHAVIORAL • CLINICAL • TRANSLATIONAL

### THEMATIC POSTER SESSION

## A65 PEDIATRIC ARTIFICIAL AIRWAY AND MECHANICAL VENTILATION

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

Moscone Center

Area E, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P608** Validity of Caregiver-collected Tracheostomy Aspirate Culture Testing in Children With Tracheostomies
- P609** Time Toxicity of Pediatric Home Ventilation
- P610** Charting a Safe Path: A Multidisciplinary Guide to Discharging Pediatric Trach and Ventilated Patients From the PICU
- P611** Use of Volume-targeted Pressure Support in Children With Tracheostomies: A Single-center Experience
- P612** Association Between a Positive Rapid Respiratory Viral PCR Test and Outcomes for Children Hospitalized for Suspected Bacterial Tracheostomy-associated Infections: A Multicenter Observational Study



- P613** Risk Factors Associated With Failed Extubation Post Lung Transplant in a Pediatric Center
- P614** Minute Ventilation Overestimation and Variability During Simulated Decannulation With a Pediatric-Sized Tracheostomy Tube: Implications for Ventilator Alarm Functionality
- P615** Regional Discharge Practices on Pediatric Chronic Home Invasive Ventilation
- P616** Survey of the Decision-Making Process for Placement of Pediatric Tracheostomies
- P617** Increasing Caregiver Confidence During Pediatric Tracheostomy Emergencies Using the Tracheostomy Emergency and Airway Management Card
- P618** Implementation of the Tracheostomy/Ventilator Action Plan in the Inpatient Setting
- P619** Factors Associated With Discharge on Baseline Respiratory Support for Children With Tracheostomy Hospitalized With Bacterial Tracheostomy-Associated Infections: A Multicenter Observational Cohort Study
- P620** Ventilator Transition Program - Successes and Pitfalls
- P621** Assessing Moral Injury Among Healthcare Workers: Impact of Pediatric Tracheostomy Decisions
- P622** Impact of Inhaled Tobramycin on Healthcare Utilization and Morbidity in Non-CF Pediatric Tracheostomy Dependent Patients With Pseudomonas Infections
- P623** Correlation Between Diaphragm Thickening Fraction and Respiratory Distress Score in Infants With Bronchiolitis Using High Flow Nasal Cannula
- P624** Differences in Clinical Conditions and Outcomes Between Pediatric and Adult Home Ventilator Users
- P625** Efficacy Assessment of a Novel Pediatric Oxygen Mask System Using a Breathing Simulation Model

**CLINICAL****THEMATIC POSTER SESSION**

## **A66 CASE REPORTS IN CHILDHOOD INTERSTITIAL, DIFFUSE, AND RARE LUNG DISEASES**

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

Moscone Center

Area E, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P626** Outpatient Use of Ram Cannula for Non-invasive Ventilation in a Pediatric Patient With Interstitial Lung Disease
- P627** Focal Pulmonary Interstitial Glycogenosis in a Newborn With Symptomatic Congenital Lobar Emphysema
- P628** Progressive Fibrosing Interstitial Lung Disease in an Adolescent With RTEL1 Variants
- P629** Respiratory Failure, Pulmonary Hypertension, and Critically Ill chILD - A Case for Early Lung Biopsy
- P630** When the Gut Shouldn't Be Trusted: A Rare Case of Diffuse Alveolar Hemorrhage in a Patient With Possible IBD and Chronic Anemia
- P631** When Birds of a Feather Flock Together - Hypersensitivity Pneumonitis in a Teenage Bird Fancier
- P632** Unmasking NEHI: A Hidden Underlying Diagnosis
- P633** Idiopathic Interstitial Granulomatous Lung Disease Responsive to High Dose Steroids in an 11-year-old Child
- P634** Sarcoidosis in a 13-Year-Old Female
- P635** A Puzzling Diagnostic Journey in a Pediatric Patient With Diffuse Lung Disease
- P636** Successful Intervention in an Initially Asymptomatic Patient Who Was Diagnosed With Pulmonary Alveolar Proteinosis Due to MARS1 Mutation
- P637** Genetic Predisposition to Drug-induced Interstitial Lung Disease in Pediatric Venous Lymphatic Malformation: A Case for Preemptive Testing

- P638 Hamman-Rich Syndrome in Children: Rare or Underdiagnosed?
- P639 A Case of Smooth Muscle Inaction Mutation Leading to Increase Respiratory Support
- P640 Development of Hemoptysis in a 14-year-old Patient With Crohn's Disease
- P641 Palliative Mechanical Ventilation for Niemann Pick Disease Type C2 Related Interstitial Lung Disease
- P642 Wheezing Child? Don't Always Incyst on Asthma
- P643 Pediatric Pulmonary Hemosiderosis and Late Cow Milk Allergy: Closely Related or Not
- P644 From Unsafe Sleep to Uncovering Diffuse Lung Disease: A Case of Acute Cyanosis and Respiratory Distress
- P645 Rapidly Progressive Lung Disease in a 9-Year-Old
- P646 Rapid Development of Plastic Bronchitis in a Child With a Fenestrated Fontan
- P647 Patient With Sick Cell Disease Presenting With Severe Acute Chest Syndrome and Plastic Bronchitis
- P648 A Case of Acute Obstructive Pulmonary Physiology Due to Stevens Johnson Syndrome/Toxic Epidermic Necrolysis
- P649 A Pediatric Case of Eosinophilic Granulomatosis With Polyangiitis Presenting With Severe, Refractory Asthma, Hypereosinophilia, and Recurrent Pericardial Effusions
- P650 Eosinophilic Granulomatosis With Polyangiitis Disease in a 15-year-old Female With No History of Asthma
- P651 Pulmonary Hemorrhage, Infectious vs Autoimmune Etiology
- P652 A Case of Granulomatosis With Polyangiitis in Teen-female
- P653 Pulmonary Cavitory Lesions in a Patient With Pyoderma Gangrenosum

## CLINICAL

## THEMATIC POSTER SESSION

### A67 UNVEILING TB'S MANY FACES: EXTRAPULMONARY, DISSEMINATED, AND COMPLICATED

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

Moscone Center

Area J, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1151 Hide and Seek: The Elusiveness of Miliary Tuberculosis
- P1152 Beyond the Usual Suspicions: Uncovering Meningeal Involvement in Miliary Tuberculosis
- P1153 The Distracting Stroke in a Critically Ill Patient: Unveiling Hidden Miliary Tuberculosis
- P1154 An Unique Case of Organizing Pneumonia: Is It a Pathogen or Passenger?
- P1155 An Interesting Case of Recurrent Pulmonary MTB Causing Severe Fibro-cavitory Disease
- P1156 Common Things Are Common: A Case of a New Pleural Effusion
- P1157 More Than Meets the Scan in Diagnosing Disseminated Tuberculosis (TB)
- P1158 Epidural Abscess: An Uncommon Presentation of Tuberculosis in a Young African Male
- P1159 A 91- Year- Old American Female With a Micronodular Diagnosis
- P1160 Disseminated Tuberculosis Masquerading as Pleural Effusion and Ascites: A Diagnostic Challenge
- P1161 Unmasking the Unseen: Tackling the Diagnostic Challenge in a Rare Case of Isolated Tuberculous Epididymo-orchitis
- P1162 Mondor's Disease and Tuberculosis: Coincidence or Consequence?
- P1163 An Unexpected Cause of Right Heart Failure in the Setting of a Cavitory Lung Infection

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| <p><b>P1164</b> When Antitubercular Therapy Isn't Enough: A Case Report of Persistent Cavitory Tuberculosis and the Role of Surgery</p> <p><b>P1165</b> From Supraclavicular Node to Diagnosis: Solving Fever and Lymphadenopathy in HIV</p> <p><b>P1166</b> "I Can Be Anything I Want" - A Rare Case of Tuberculous Arachnoiditis Mimicking as Peripheral Sensory Neuropathy</p> <p><b>P1167</b> Post-tuberculosis Destroyed Lung Syndrome: A Case Report and Review of Management Challenges</p> <p><b>P1168</b> The Silent Spread: A Case of Disseminated Tuberculosis in an Immunocompetent Patient</p> <p><b>P1169</b> From Lungs to Gastrointestinal Tract - An Aggressive Case of Disseminated Tuberculosis</p> <p><b>P1170</b> Primary Infection of Drug-resistant Tuberculous Laryngitis in Immunocompromised Patient - A Rare Case Report</p> <p><b>P1171</b> Beyond the Lungs: A Complex Case of Disseminated Tuberculosis With Multi-organ Involvement and Neurological Sequelae in a Young Male Inmate</p> <p><b>P1172</b> TB or Not TB: A Mediastinal Mass That Tested Negative - Until PCR Set the Record Straight</p> <p><b>P1173</b> Unmasking a Malignancy Mimic: Diagnostic Challenges and Outcomes in Pseudotumoral Tuberculosis</p> <p><b>P1174</b> An Unusual Vascular Threat in Tuberculosis: Strategic Control of Rasmussen Aneurysm Bleeding</p> <p><b>P1175</b> A Tragic Trifecta: A Cautionary Tale of Fatal Pulmonary Tuberculosis in a Patient on PD-L1 Inhibitor Therapy for Non Small Cell Lung Cancer</p> <p><b>P1176</b> Spontaneous Extra-pulmonary Air Leaks in Tuberculous Cavitory Lung Disease: Case Report of Concurrent Pneumothorax, Pneumomediastinum and Pneumoperitoneum</p> <p><b>P1177</b> Emergent of Multiple Intracranial Nodules Amidst Treatment for Pott's Disease: A Diagnostic Challenge</p> <p><b>P1178</b> Disseminated Pulmonary and Knee Tuberculosis With Phemister Triad</p> <p><b>P1179</b> A Survivor of Pericarditis Tuberculosis: What Should We Learn?</p> | <p><b>P1180</b> Beyond the Lungs: Otitis Media and Cavitory Pneumonia Secondary to Mycobacterium Tuberculosis</p> <p><b>P1181</b> Common Presentation in an Uncommon Place</p> <p><b>P1182</b> Co-infection With Mycobacterium Tuberculosis Complex and Pneumocystis Jirovecii in a Non-HIV-infected Patient With Interstitial Lung Disease: A Case Report</p> <p><b>P1183</b> Dysphonia as the Great Masquerader: A Case of Tuberculosis</p> <p><b>P1184</b> Tuberculosis Pleuritis Treated With Intrapleural Lytics Complicated by Recurrence Requiring Video-assisted Thorascopic Surgery</p> <p><b>P1185</b> A Rare Case of Tuberculosis With Tension Hydrothorax and Rhabdomyolysis in a Young Male From Senegal</p> <p><b>P1186</b> Peritoneal Tuberculosis Presenting as Omental Caking and Carcinomatosis: A Case Report</p> <p><b>P1187</b> Unmasking Tuberculosis: Bronchial Anthracofibrosis as a Diagnostic Clue</p> <p><b>P1188</b> A Puzzling Pericardial Effusion: Unraveling the Mystery of Isoniazid-Induced Lupus</p> <p><b>P1189</b> An Unusual Presentation of Disseminated Tuberculosis</p> <p><b>P1190</b> Unmasking the Cascade: AIDS, Miliary Tuberculosis, and Hemophagocytic Lymphohistiocytosis</p> <p><b>P1191</b> New Tuberculosis Treatment, Old Problems: 100% Adverse Reactions in Thai Tuberculosis Patients on the Rifapentine-Moxifloxacin Regimen</p> <p><b>P1192</b> Scrotal Swelling With an Unexpected Source: Disseminated Pulmonary Tuberculosis With Only Urogenital Symptoms</p> <p><b>P1193</b> EBUS Drainage of a Mediastinal Abscess Reveals an Old Foe</p> <p><b>P1194</b> Rasmussen's Aneurysm Resulting From Progressive Mycobacterium abscessus Fibrocavitory Disease</p> <p><b>P1195</b> Aspergillosis or Tuberculosis? Solving a Complex Case of Misdiagnosis</p> <p><b>P1196</b> Whole Genome Sequencing Confirms Tuberculosis Reinfection of the Scrotum Despite Ongoing Treatment</p> <p><b>P1197</b> Red-Orange Pleural Effusion</p> |
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- P1198** Post-bronchoscopy Pneumonia in the Setting of Mycobacterium Tuberculosis Pulmonary Disease
- P1199** Reactivation Tuberculosis Presenting With Oropharyngeal Manifestations
- P1200** Chronic Lung Damage After Tuberculosis: A Focus on Bronchiectasis and Its Management
- P1201** A Rare Battle: Congenital Tuberculosis in a Late Preterm Neonate Born at 34 Weeks
- P1202** A Rare Case of Cervical Potts' Disease With Spinal Cord Compression
- P1203** When Pulmonary TB Gets Under Your Skin: A Case Pulmonary Tuberculosis Causing Cutaneous Fistula With Lung Collapse

### CLINICAL

### THEMATIC POSTER SESSION

## **A68 EXPANDING HORIZONS IN PULMONARY REHABILITATION: NOVEL APPLICATIONS, OUTCOMES, AND INNOVATIONS**

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

Moscone Center

Area C, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P340** Association Between Initiation of Pulmonary Rehabilitation, Health Care Utilization and Survival Among Sleep Apnea Patients
- P341** Association Between Initiation of Pulmonary Rehabilitation, Health Care Utilization and Survival Among Bronchiectasis Patients
- P342** Association Between Initiation of Pulmonary Rehabilitation, Health Care Utilization and Survival Among COVID-19 Patients
- P343** Association Between Initiation of Pulmonary Rehabilitation, Health Care Utilization, Disease Control, and Survival Among Asthma Patients
- P344** Identifying the Main Long-term Conditions Contributing to the Burden of Chronic Breathlessness: A Scoping Review

- P345** A Perplexing Case of Hypoventilation
- P346** Breathing Exercise Education via Telehealth for Symptom Management in Idiopathic Pulmonary Fibrosis: A Case Report
- P347** In Patients With Obstructive Airway Disease, Investigate the Effects of Different Breathing Strategies and Pedaling Rates on the Physiological Responses to Bicycle Exercise
- P348** Efficacy of Telerehabilitation: Results From a Single Center During the COVID Pandemic
- P349** LAMFit: A Collaboratively Co-designed Mobile Application for Home-based Exercise in Lymphangioleiomyomatosis
- P350** Development of a Smart Mask for at Home Patient Monitoring
- P351** Pulmonary Rehabilitation in Post Tuberculosis Patients: A Longitudinal Cohort Study
- P352** Role of a Protocolized Pulmonary Rehabilitation Programme in Improving Performance Status in Patients With End-Stage Lung Disease Eligible for Lung Transplant
- P353** Long-Term Effects of a Symptom-Based Rehabilitation vs. Usual Care in People With Post COVID-19 Condition, Differentiated by Symptom Clusters: The Reload Randomized Controlled Trial
- P354** Pulmonary Rehabilitation in Pediatric Patients Post-acute Sequelae of COVID-19
- P355** Effects of Creatine Supplementation on Fatigue Related to Long COVID - Fatigue Study
- P356** The Impact of Respiratory Muscle Strength and Functional Capacity on Diaphragm Mobility in Individuals With Chronic Obstructive Pulmonary Disease
- P357** Correlation Between Physical Activity and Modified GAP Score in Patients With Idiopathic Pulmonary Fibrosis in Japan
- P358** Factors Associated With Positive Outcomes in Pulmonary Rehabilitation
- P359** The Influences of Adolescent and Current Exercise Habits on Clinical Profiles of Chronic Obstructive Pulmonary Disease



- P360** Quality of Life Profile and Physical Capabilities of PiZZ Patients With Alpha-1 Antitrypsin Deficiency (AATD) Associated Lung Disease in a Large United States Cohort
- P361** A Comparison of Three Analytic Methods to Detect Cardiopulmonary Exercise Testing Metabolic Thresholds Using Heart Rate Data
- P362** Comparison of Two Recruitment Strategies for a Physical Activity Clinical Trial in U.S. Veterans With COPD and Chronic Musculoskeletal Pain
- P363** Follow-up Rates in Pulmonary Rehabilitation After COPD Exacerbations: Addressing Gaps in Care
- P364** Relationship Between Diaphragm Excursion and Exercise Tolerance in Patients With Fibrotic Interstitial Lung Diseases
- P365** Ultrasonographic Evaluation of the Diaphragm and the Choice of Inhalation Device
- P366** Center-based Pulmonary Rehabilitation Sites in the U.S. Veterans Health Administration Have Significantly Decreased Post COVID-19
- P372** Functional Characterization of Pulmonary Endothelial Cells Harvested From Pulmonary Artery Catheter in Pulmonary Arterial Hypertension: Effect of Treatment
- P373** Effects of Low-intensity Exercise on Pulmonary Arterial Hypertension: A Comprehensive Transcriptomic Analysis of Lung, Heart and Muscle
- P374** Effects of Physical Training on Mitochondrial Dynamic in Pulmonary Arterial Hypertension
- P375** Extreme Molecular Elevations of Donor-derived Cell-free DNA in Lung Transplant Recipients: Exploring the Unknown
- P376** Exploring Cell-free DNA Association With Different Intra-alveolar Injury Patterns of the Lung Allograft Standardized Histological Analysis (LASHA) Protocol Among Transplant Recipients
- P377** Proteomics, Redox Proteomics, and Metabolomics Profiling of Phosgene-induced Lung Injury in a Murine Model
- P378** Radiation-induced Lung Injury Is Mediated by Endothelial Cell Integrin Beta 4
- P379** Engagement of PD-L1 by Membrane Derived PD-1 Induces Inhibitory Signaling in Macrophagecells and Promote Inflammation Resolution in Acute Lung Injury Models
- P380** Indole Metabolites as Nove Lung Danger Signals In Vivo and Ex Vivo
- P381** Cholesterol Modulates Airway Epithelial Cell Differentiation Via Inhibition of P53 Nuclear Translocation
- P382** Role of Ceramide in SARS-CoV-2 Spike Protein-amplified Acute Lung Injury
- P383** Protectin D1 Improves Alveolar Barrier Breach After HCl-induced Acute Lung Injury
- P384** Parabacteroides Goldsteinii-Derived Exosomes Alleviate Acute Lung Injury by Regulating Gut Microbiota to Suppress the Generation of Pulmonary Inflammasomes
- P385** Sodium 4-Phenylbutyrate Mitigates Oxidative Stress and GSDME-Mediated Pyroptosis of Endothelial Cells in Acute Lung Injury via PARK7
- P386** Use of a Lung Microphysiological System to Test TLR9 Inhibition for Sepsis Plasma-induced Endothelial Dysfunction

### BASIC • CLINICAL • TRANSLATIONAL

### THEMATIC POSTER SESSION

## A69 EMERGING MOLECULAR PATHWAYS IN ACUTE LUNG INJURY AND PULMONARY INFLAMMATION

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

Moscone Center

Area D, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P369** Dysregulation of the Autophagy-lysosomal Pathway in Lung Endothelial Cells Exposed to MRSA
- P370** Delta Subunit of Sodium Epithelial Channel Regulates Alveolar Type 2 Cell Lineage in Mice Lungs
- P371** Transfer RNA (tRNA) Fragments, Regulated by the tRNA Methyltransferase TRMT1, Regulate Cytokine Responses and Cell Death During Lung Injury
- P372** Functional Characterization of Pulmonary Endothelial Cells Harvested From Pulmonary Artery Catheter in Pulmonary Arterial Hypertension: Effect of Treatment
- P373** Effects of Low-intensity Exercise on Pulmonary Arterial Hypertension: A Comprehensive Transcriptomic Analysis of Lung, Heart and Muscle
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- P377** Proteomics, Redox Proteomics, and Metabolomics Profiling of Phosgene-induced Lung Injury in a Murine Model
- P378** Radiation-induced Lung Injury Is Mediated by Endothelial Cell Integrin Beta 4
- P379** Engagement of PD-L1 by Membrane Derived PD-1 Induces Inhibitory Signaling in Macrophagecells and Promote Inflammation Resolution in Acute Lung Injury Models
- P380** Indole Metabolites as Nove Lung Danger Signals In Vivo and Ex Vivo
- P381** Cholesterol Modulates Airway Epithelial Cell Differentiation Via Inhibition of P53 Nuclear Translocation
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- P385** Sodium 4-Phenylbutyrate Mitigates Oxidative Stress and GSDME-Mediated Pyroptosis of Endothelial Cells in Acute Lung Injury via PARK7
- P386** Use of a Lung Microphysiological System to Test TLR9 Inhibition for Sepsis Plasma-induced Endothelial Dysfunction

- P387 The Severity of Sepsis-induced Acute Lung Injury Is Determined by SOX18 Expression
- P388 Specialized Pro-resolution Mediator Loaded Extracellular Vesicles Mitigate LPS-induced Acute Lung Injury in Mice
- P389 Alveolar Epithelial GHRH Receptor Interacts With TLR4 and GRK4 to Facilitate Inflammation
- P390 Endoplasmic Reticulum Stress Response Pathway Activation Patterns in Lung Fibrosis in End-stage IPF and COVID-ARDS
- P391 Circulating Exosomal MicroRNA Signatures Associated to Inflammatory Endotypes in Patients With Severe Asthma
- P392 A Novel Heterobifunctional ALOX15 Degradar for Treatment of Nasal Polyps
- P393 The Involvement of Caveolin-1 (Cav1) and ArhGAP35 in Glucocorticoids (GCs)-induced Delayed Wound Healing of Alveolar Epithelial Cells (AECs)
- P394 Caspase 3 Activation and Heterogeneity of Apoptosis After Injurious Stimulus
- P395 Inhibition of Monoacylglycerol Lipase Reduces Nitrogen Mustard-induced Acute Lung Injury in Mice
- P396 LOX (Lipoxygenase)-dependent Oxylipins Are Associated With Mortality in Viral Acute Respiratory Distress Syndrome
- P397 Mitogen Activated Protein Kinase Activated Protein Kinase 2 (MK2) Potentiates Caspase-3 Activity During Apoptosis
- P398 Mesenchymal Stem Cells-derived Exosomes Alleviate Acute Lung Injury by Inhibiting Alveolar Macrophage Pyroptosis
- P399 Blood Eosinophil Gene Expression Phenotype Is Altered in Response to Anti-IL-5 Therapy Mepolizumab
- P400 Single Cell RNA Sequencing With Cell Cell Communication Analyses Reveals the Impact of Osteopontin for Ozone Induced Airway Responses via Interaction Between Dendritic Cells and Alveolar Macrophages
- P401 Epidermal Growth Factor Receptor Regulates Beclin-1 and Autophagy in Hyperoxic Acute Lung Injury
- P402 Attenuation of Cuproptosis Through Histone Deacetylase Inhibition: A Novel Strategy for Alleviating Acute Lung Injury

## BASIC • CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

## A70 GENE EXPRESSION, METABOLISM AND EPITHELIAL DYSFUNCTION IN AIRWAY DISEASES: FROM ASTHMA TO COPD

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

Moscone Center

Area L, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1477 Taurine Protects Against Ozone-induced Airway Hyperresponsiveness and Oxidative Stress in Paraoxonase 1 Knockout Mice
- P1478 Long-acting Muscarinic Antagonist for Asthma Recovers Mucus Production and Normalizes Cilia Function in Epithelium With Human Airway Basal Cells In Vitro ALI Model
- P1479 Long-acting Beta2-adrenergic Agonist and Inhaled Corticosteroids for Asthma Induced Mucus Production With Human Airway Basal Cells In Vitro ALI Model
- P1480 Oxidized Phosphatidylcholines Induce Map Kinase-dependent Production of Inflammatory Mediators in Human Airway Fibroblasts
- P1481 From Bench to Bytes: Computational Tools Illuminate DAG-induced Negative Feedback in Gq-PLC Signaling, With PKC Isoforms as Tuning Knobs
- P1482 Differentiation of Basal to Ciliated Cells Is Altered in Asthmatic Airway Epithelial Cells (AECs) and Potentially Modulated by Ferroptosis-induced Mitochondrial Damage in Specific Cell Types
- P1483 Reduced Host Antibacterial Function Is Associated With Type 2-low Airway Disease
- P1484 Glutamate Inhibits Airway Smooth Muscle Cell Proliferation Via Umami Receptor
- P1485 MicroRNA-223 Targets the FOXO1 Transcription Factor and Inflammatory Genes Involved in Asthma in Bronchial Epithelial Cells

- P1486** Airway Epithelial Responses to Human Rhinovirus A16 Infection Are Differentially Regulated by the Presence of Monocytes
- P1487** Rage Haplodeficient Mice Are Partially Protected From Allergen Induced Type2 Inflammation
- P1488** IRE1 $\alpha$  Regulation of Airway Epithelial Fate and Mucus Metaplasia
- P1489** Circadian Regulation of Viral Infections and Inflammation in Pediatric Asthma
- P1490** Differential miRNA Expression in Asthma and Control Subjects: A Meta-analysis
- P1491** A Four-gene CC16-associated Transcriptomic Score and Risk for Asthma Exacerbations
- P1492** The Combination of APG777 (anti-IL-13) and APG333 (anti-TSLP) Inhibits Central and Local Drivers of Obstructive Airway Disease
- P1493** Keratinizing Basal Cells and Peri-Goblet Cells Are Associated With Smoking and COPD in the Bronchial Epithelium
- P1494** Novel Antifungal Strategies for Airway Mycosis
- P1495** Immunofluorescence: Mislocalization of RSPH4A Protein in Primary Ciliary Dyskinesia Patients With Puerto Rican Founder Mutation
- P1496** Effects of Curaxin 137 on Asthmatic Airway Smooth Muscle Cells
- P1497** Identification of FOXF1-expressing Endothelial Cells in the Placental Tissues
- P1498** Impact of miRNA-29a-3p on PDGFA Expression in Pulmonary Artery Smooth Muscle Cells
- P1499** Deficiency of Protein Quality Control and DNA Damage Clearance Due to Loss of Ubiquitin-specific Protease 19 in Airway Epithelium Enhances Emphysema
- P1500** Bronchial Gene Expression Associated With Bronchiectasis Can Also Be Detected in Nasal Epithelium
- P1501** EphA2 Receptor Is Upregulated in COPD Alveolar Type 2 Cells Compared to Healthy Donors
- P1502** Association of Moderate Hypoxemia and Proteomic Markers of Cerebral Hypoxia With Cognitive Impairment in Individuals With Smoking Exposure
- P1503** Surfactant Lipid Accumulation Seen in Pulmonary Alveolar Proteinosis Does Not Appear to Be Related to an Increase in Lipid Synthesis
- P1504** Real-world Effectiveness of Mepolizumab in Oral Corticosteroid (OCS) Dependent Patients With Severe Asthma: Post-hoc Analysis of NUCALA Effectiveness Study (NEST)
- P1505** Model-based Comparison of the Pharmacokinetic/Pharmacodynamic and Eosinophilic Response of Benralizumab Versus Depemokimab at 12 Weeks
- P1506** Diagnostic Metabolomic Profiling of COPD as Potential Biomarkers in Older and Younger Patients
- P1507** RIP3 Activation Contributes to Accelerated Emphysema With Aging
- P1508** Mitochondrial-Nuclear Dissociation of the Electron Transport Chain Is Present in Chronic Obstructive Pulmonary Disease (COPD)

## BASIC • CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

### A71 EPITHELIAL DYSFUNCTION, INFLAMMATION AND CIGARETTE SMOKE: DRIVERS OF COPD AND CF PATHOGENESIS

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

Moscone Center

Area D, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P404** Impact of Lysosomal Sphingolipid Regulation by Cigarette Smoke on Endothelial Cell Fate
- P405** Evaluating the Role of Eosinophils in Alpha-1 Antitrypsin Deficiency
- P406** Genetic Overlap of Idiopathic Pulmonary Fibrosis (IPF) and Chronic Obstructive Pulmonary Disease (COPD)
- P407** The Role for Mitochondria in the Development of Pulmonary Emphysema

- P408** MCTR3 Protects Against Cigarette Smoke-induced Epithelial Damage and Pro-inflammatory Responses in Differentiated Primary Human Small Airway Epithelial Cells at the Air-liquid Interface
- P409** HHIP's Dynamic Role in Epithelial Wound Healing Reveals a Potential Mechanism of COPD Susceptibility
- P410** Leveraging Disease Relevant Transcriptomes From TOPMed LTRC Improves Polygenic Transcriptome Risk Prediction for COPD
- P411** Comparative Single-cell RNA-Seq Analysis of Immune Cell Populations in COPD Lung: Insights From Mouse and Human Models
- P412** Loss of Extended Synaptotagmin 2 Expression Enhances Cigarette Smoke-induced Plasma Membrane Damage in Lung Epithelial Cells
- P413** Macrophage Influence on COPD Development by Regulating CAVIN2+ Airway Basal Stem Cells
- P414** Epigenetic Regulation of Tollip by Cigarette Smoke Exposure Impairs Human Lung Defense: Unlocking the Mystery of Viral Infection
- P415** Preservation of Co-expressed Modules Between Bulk and Differentiated Skeletal Muscle in COPD Cachexia
- P416** Diagnostic and Prognostic Potential of Long Non-coding RNAs NEAT1 and SNHG5 in Chronic Obstructive Pulmonary Disease
- P417** Exploring QKI's Impact on Lung Homeostasis and COPD Progression
- P418** Anti-OXPL Antibodies Modulates Pathways Driving COPD Pathophysiology
- P419** Bronchoalveolar Lavage Fluid (BALF) Metabolomics of Viral Exacerbation in Smoke-exposed Ferrets
- P420** Tissue Distribution of <sup>14</sup>C-Enfentrine, a Novel Phosphodiesterase (PDE)3 and PDE4 Inhibitor, in Rats Following a Single Intravenous Dose
- P421** Interlobar Differences in Airway Cell Counts, Cell Differentials and Protease Levels in People With Cystic Fibrosis on Highly Effective Modulator Therapy
- P422** Anti-inflammatory and Parasympathetic Bronchorelaxant Effects of Enfentrine in Combination With Inhaled Therapies in a Human Ex Vivo Model of COPD
- P423** Impact of Nuclear Factor Kappa B Inhibition on Neutrophil Extracellular Trap Induced Pro-inflammatory Cytokine Production In Vitro
- P424** Gene Expression Deconvolution of Hair Follicle Cells Demonstrates Lung-Relevant Cell Types. The Subpopulations and Intermediate Outcome Measures in COPD Study (SPIROMICS)
- P425** Cigarette Smoke Exposure Limits Functional Efficacy of CFTR Modulator Therapy in Cell Culture and Animal Models
- P426** Synergistic Bronchorelaxant Effects of Enfentrine in Combination With Inhaled Therapies in a Human Ex Vivo Model of COPD
- P427** Single-cell Sequencing Highlights Increased Atypical AT2 Interacting With M1 Macrophages in Chronic Obstructive Pulmonary Disease (COPD)
- P428** Production and Characterization of Apolipoprotein A1 Nanoparticles as a New Therapeutic Vector for Lung Diseases
- P429** Identification of Infection Specific Histone Modifications in Neutrophils of Cystic Fibrosis
- P430** Temporal Dynamics in the Regulation of Pulmonary Ionocyte Development Through Notch Signaling
- P431** Transcriptomic Changes in Patients With COPD With Chronic Bronchitis Following Metered Cryospray
- P432** CFTR-Mediated Ion and Fluid Transport by Primary Ferret AT2 Epithelia
- P433** Lower Airway Potential Difference Testing Using a Novel Integrated Image Guided System
- P434** Low TET1 Expression Levels in COPD Are Associated With High Numbers of Neutrophils and Surfactant Protein Serum Leakage



## BASIC • CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

**A72 KNIVES OUT: SHARPENING TOOLS FOR UNDERSTANDING ASTHMA AND OTHER AIRWAY DISEASES**

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

Moscone Center

Area D, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P436** Oxidized Phospholipids Inhibit Glucocorticoid Receptor Nuclear Translocation and Expression of Anti-inflammatory Genes in Airway Epithelial Cells
- P437** EpOMes and DiHOMEs Activate TRPA1 and TRPV1 Channels in Airway Smooth Muscle
- P438** Interleukin 4 Promotes Hypercontractility in Human Airway Smooth Muscle Cells
- P439** Inhaled Pitavastatin Inhibits Bronchoconstriction in an Experimental Sheep Lung Model
- P440** Kisspeptin Alters Intracellular Calcium and Contractility in Severe Th1 and Th2 Endotypes in Airway Smooth Muscle
- P441** Atovaquone Inhibits ABCC1 and Decreases Camp Egress in Human Airway Smooth Muscle Cells
- P442** The 18 KDA Mitochondrial Translocator Protein TSPO in Regulating Airway Smooth Muscle Cell Contraction
- P443** Cooperativity of Cannabis Terpenes and Beta 2 Adrenergic Receptor Agonist in Airway Smooth Muscle Relaxation
- P444** House Dust Mite Exposure Increases Amyloid ? Expression and Disrupt Epithelial Integrity In Vitro
- P445** Targeting Airway Remodeling Via Polymer Nanoparticles
- P446** Optimized Methods for Measuring Extracellular ATP From In Vitro Airway Epithelial Cell Cultures
- P447** Investigating the Effect of Stretch and Environmental Exposures on Airway Epithelium-derived Extracellular ATP

- P448** A Meta-analysis on the Intrinsic Contractile Properties of Airway Smooth Muscle
- P449** Therapeutic Intervention With Novel Drug Abrogates Aspects of Airway Remodeling in a Mouse Model of Severe Allergic Asthma
- P450** Effect of Hyperoxia Exposure on Airway Beta-2-adrenergic Receptors
- P451** Biased Muscarinic M3 Receptor Ligand PD 102807 Inhibits Airway Smooth Muscle Cell Proliferation
- P452** Kinase-mediated Phosphorylation of Glucocorticoid Receptors in Human Airway Smooth Muscle Cells
- P453** Role of Nestin in IL-17A Induced Human Airway Smooth Muscle Cell Proliferation
- P454** Augmenting Beneficial  $\beta$ 2-adrenergic Receptor Signaling and Function Using a Biased Allosteric Modulator
- P455** The MAPK/Casein Kinase 2/ABCC1 Axis Regulates Camp Egress and B2-adrenoceptor Desensitization in Human Airway Smooth Muscle Cells
- P456** Dysregulated Iron Metabolism in Airways of Aging Asthmatic Humans
- P457** Disparate Mechanisms of Airway Smooth Muscle Cell Proliferation Regulation by Diacylglycerol and Phosphatidic Acid
- P458** Identification of Candidate Biomarkers for Asthma Using the Breath Biopsy VOC Atlas
- P459** MicroRNA Mediated Regulation of GR $\beta$  Expression in Airway Smooth Muscle: Implications for Glucocorticoid Insensitivity and Cell Proliferation
- P460** Mitochondria Are Functionally Heterogeneous Within Human Airway Smooth Muscle Cells
- P461** E3 Ligase RNF145 Regulates Airway Smooth Muscle Cell Growth Through PP2A Mediated Regulation of p70S6 Kinase
- P462** Characterization of Ovalbumin-Induced Allergic Airway Inflammation in Ferrets
- P463** Correlating Electrical Impedance Tomography Temporal Signals With Quantitative Computed Tomography Spatial Variables in Obstructive Lung Disease Subjects
- P464** The Pulmonary Health Index (PHI): A Novel Composite Indicator of Lung Health Status in Patients With Asthma or COPD

- P465** Coving Index: A Novel, Sensitive Spirometric Marker of Small Airways Obstruction
- P466** To Determine the Prevalence of Respiratory Diseases in Walk-in Patients Using Handheld Spirometer in North India
- P467** 2021 Update on the Definition of Post-bronchodilator Response for FEV<sub>1</sub> and FVC: Clinical and Physiological Characteristics of Responders Compared to the 2005 Criteria
- P468** Identification of the Predictors of a Positive Eucapnic Voluntary Hyperpnea Test in Subjects Investigated for Asthma or Exercise-induced Bronchoconstriction
- P469** Body Mass Index as a Determinant of Airway Tree Morphology on Computed Tomography, Complementary to Type 2 Airway Inflammation, in Patients With Asthma
- P470** Effects of Forceful Breathing Maneuver of Spirometry on Oscillometry Parameters of Patients With Bronchial Asthma
- P471** Correlation of Impulse Oscillometry With Computed Tomography Imaging Metrics in Asthmatic Patients
- P472** Measuring Oscillometry During Recovery After Emergency Department Treatment for Asthma Exacerbations in Children
- P473** Exploring Hidden Potential of Impulse Oscillometry Parameters: Results Indicating Gastrointestinal Complications
- P474** The Impact of Biologics on Lung Function Parameters: A Comparative Analysis
- P475** Effect of Biologic Therapy in Elderly Asthma Patients Based on Acute Asthma Exacerbations: A Retrospective Study
- P476** Lipid-derived Specialized Pro-resolving Mediators (SPMs) Are Associated With Improved Respiratory Health in Pregnant Women With Asthma
- P477** Clinical Validation of the Tremoflo C2 Versus Tremoflo C100 in Asthmatic Patients 2-7 Years of Age
- P478** Cough Detection Performance of the CoughCheck Algorithm in Subjects With Subacute Cough
- P479** Mucus Plug Formation in Asthma Might Involve Increased Local Bronchoconstriction Within the Airway Tree - A Computational Study

- P480** Small Airway Dysfunction, a Risk for Exacerbations, Is Common in Children With Mild, Well-controlled Asthma in Specialty Care
- P481** Lung Deposition of Tanimilast, an Inhaled Phosphodiesterase-4 Inhibitor, Assessed by Functional Respiratory Imaging in Asthma and COPD
- P482** Wildfire-borne Particulate Matter (WFPM): Effects on Bronchorelaxation in Human Small Airways
- P483** Concomitant Air Trapping and Small Airway Disease in Coal Dust Exposed Individuals
- P484** Effect of Chemerin Deficiency on Quasi-Static Elastic Properties of the Respiratory System

### BASIC • CLINICAL • TRANSLATIONAL

### THEMATIC POSTER SESSION

## A73 CLINICAL REPORTS I: STRUCTURAL CURIOSITIES

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

Moscone Center

Area G, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P816** The 60 Second Blues: A Case of Rapid Methemoglobinemia Following Topical Anesthetics
- P817** Out of Place, Out of Breath: The Impact of Heterotaxy Syndrome on Pulmonary Pressure
- P818** Exploring the Uncommon: A Case Series on Tracheobronchopathia Osteochondroplastica
- P819** Bizarre Bilothorax: A Rare Case of Left-sided Pleural Effusion
- P820** All That Wheezes Is Not Asthma or Chronic Obstructive Pulmonary Disease
- P821** An Interesting Phenomenon of Bilateral Catamenial Pneumothorax Refractory to Hormonal and Surgical Interventions
- P822** A Puff, Then a Huff: Confidently Diagnosing Electronic Cigarette Products or Vaping Associated Lung Injury (EVALI) in a Healthy Young Man
- P823** Effusion Confusion
- P824** Tracheal Stenosis Hidden in Plain Sight

- P825 Ticking Time Bomb: Case of a Motor Tic Leading to Pneumomediastinum
- P826 Navigating Airway Challenges: A Case of Papillary Thyroid Carcinoma Ug Causing Mixed Central Airway Obstruction
- P827 Pancreaticopleural Fistula - An Unusual Extra-vascular Origin of a Pleural Effusion
- P828 Post COVID-19 Left Hemidiaphragm Paralysis
- P829 The Unexplained Recurrent Pleural Effusion
- P830 Subcarinal Bronchogenic Foregut Cyst Leading to Pleural Effusion
- P831 Twisted Tale of Total Torsion: A Case of Incidental, Complete Lobar Torsion With Successful Detorsion
- P832 A Case of Congenital Diaphragmatic Hernia in an Adult With Decompensated Cirrhosis
- P833 A Case Report of Pulmonary Herniation Into the Chest Wall in a Post-cardiac Arrest Patient
- P834 Bronchobiliary Fistula Due to Living Donor Hepatectomy: A Case Report
- P835 A Case of Asymptomatic Bronchopulmonary Sequestration in Patient With Mixed Connective Tissue Disease
- P836 Not All Wheezing Is Caused by Asthma: A Rare Case of Severe Bronchial Stenosis
- P837 An Unexpected Complication of Pneumomediastinum in a Young Asthmatic
- P838 Pneumomediastinum in Asthma Exacerbation: Unveiling a Rare Convergence
- P839 When Coughing Leads to Lung Herniation: A Rare Complication in an Asthmatic Patient
- P840 Pneumomediastinum and the Macklin Effect
- P841 Anomalous Celiac Artery in Pulmonary Sequestration
- P842 From Pancreas to Pleura: Insights Into Pancreatic Fistula as a Result of Recurrent Pancreatic Inflammation
- P843 Characterizing Adult Respiratory Phenotypes in Filamin a Deficiency
- P844 A Breath of Fresh Air
- P845 Recycling Plastic: A Case of Plastic Bronchitis in an Adult

- P846 Incidental Finding of Tracheal Bronchus in Patient With COPD
- P847 Congenital Lobar Emphysema Presenting as Acute Chest Pain in Adulthood
- P848 Persistent Left Lower Lobe Mass

## BASIC • CLINICAL • TRANSLATIONAL

### THEMATIC POSTER SESSION

#### A74 FIBROTIC LUNG DISEASE REVISITED

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

Moscone Center

Area G, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P849 ASPIRE Trial in Idiopathic Pulmonary Fibrosis: A Patient Experience-focused Phase 2b Randomized, Double-blind, Placebo-controlled, Multicenter Trial of the Novel Angiotensin II Type 2 Receptor Agonist Buloxibutid
- P850 Lactic Acid Downregulates Profibrotic Markers in Murine Model of Pulmonary Fibrosis
- P851 Correlation Between PFT and Oscillometry in Fibrotic Hypersensitivity Pneumonitis
- P852 Spect as a Translational Non-invasive Method to Assess Zampilimab Lung Target Occupancy in Mice
- P853 Post COVID-19 Lung Fibrosis and the Role of Inflammatory Markers: A Prospective Observational Study
- P854 Investigating Disease Progression in a Sheep Model of Pulmonary Fibrosis
- P855 Impulse Oscillometry for Predicting Forced Vital Capacity and Diffusing Capacity of the Lung for Carbon Monoxide Among Patients With Interstitial Lung Disease
- P856 Evaluation of the Cardiac and Small Lung Vessels Remodeling in a Rat Model of Bleomycin Induced Pulmonary Fibrosis
- P857 Pulmonary Function Test Phenotypes Over Time in Pulmonary Sarcoidosis

- P858** Olaparib, A Poly (ADP-Ribose) Polymerase Inhibitor, Reduces Fibroblast Activity in a Sheep Model of Pulmonary Fibrosis
- P859** Characterizing the Discrepancy Between FVC and FEV6 and Its Association With Expiratory Time in Sarcoidosis Patients
- P860** Combination Antifibrotic and Immunosuppressive Therapy for Myositis Associated Interstitial Lung Disease
- P861** The MUC5AC Mucin Carries a SNP Variation That Increases Its Tendency to Form Net-like Polymers That Increase the Risk of Idiopathic Pulmonary Fibrosis IPF
- P862** Hemoglobin Trajectory in Patients With Interstitial Lung Disease
- P863** WHISTLE-PF: Study Design of a Phase 2b, Multi-center, Randomized, Double-blind, Controlled Trial of ENV-101 (Taladegib) in Patients With Idiopathic Pulmonary Fibrosis
- P864** Negative Spontaneous Curvature Promotes Interfacial Adsorption of Planar Bilayers
- P865** Confounding Complexity in the Pharmacology of Nintedanib: Inhibition of Selected Anti-fibrogenic Effects of Basic Fibroblast Growth Factor in Pulmonary Myofibroblasts
- P866** Multiple Antibody Positivity and Outcomes in Myositis-associated Interstitial Lung Disease
- P869** Improvement of Exercise Performance at High Altitude by Supplemental CO<sub>2</sub>
- P870** Weighing the Risks: Obesity and Dyspnea Among Deployed Veterans
- P871** Cardiopulmonary Exercise Test (CPET) Variables in Obesity: Does Obesity Result in Typical Physiologic Pattern on CPET?
- P872** Comparison of Gas Exchange Parameters on Cardiopulmonary Exercise Testing and Pulmonary Function Tests in Non- Obese Patients With Exertional Dyspnea
- P873** <sup>129</sup>Xe Gas Exchange MRI in Obesity-associated Asthma: Clinical Correlates and Regional Patterns
- P874** Impact of Obesity Hypoventilation Syndrome Among Morbidly Obese Adults Admitted for Influenza: A Retrospective Analysis
- P875** The Effects of Metabolic Syndrome and Its Components on Pulmonary Function in Children and Adolescents With Obesity
- P876** Oropharyngeal Enlargement Reduces Upper Airway Pressure Drop Along With Airflow Obstruction in Obstructive Lung Disease: Computational Fluid Dynamics Analysis
- P877** Evaluation of Sleep Quality and Dyspnea Severity in Patients With Heart Failure With Preserved Ejection Fraction
- P878** Lung Density Analysis for Evaluation of Individuals With Post-acute Sequelae of SARS-CoV-2 and Dyspnea, Fatigue or Exercise Intolerance
- P879** Development of a Wearable Wireless Ultrasonic Patch for Continuous Monitoring of Diaphragm Movement
- P880** Ultrasound Respiratory Assessment in Neuromuscular Disorder Patients: Outcome of Intubation in Emergency Department
- P881** Esophageal Pressure Is Not the Good Marker of Neural Respiratory Drive When There Is a Change in Airway Size and Airflow
- P882** Factors Associated With Mortality in Thoracic Trauma Patients in Cameroon
- P883** Clinical Significance of Small Airway Disease Index That Quantifies the “Flattening” of the Late Expiratory Portion of the Flow Volume Loop

## BASIC • CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

### A75 RUNNING DIAGNOSTICS: WHAT'S NEW IN LUNG PHYSIOLOGY?

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

Area G, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P867** Role of Ventilation/Perfusion Scans in Assessing Respiratory Compromise in Puerto Rican Patients With Primary Ciliary Dyskinesia
- P868** Impact of High Altitude on Dyspnea at Rest



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| <p><b>P884</b> How (Not) to Validate Race-Neutral Lung Function Reference Equations</p> <p><b>P885</b> Same-session Repeatability of <math>^{129}\text{Xe}</math> MRI/MRS Measures of Gas Exchange in Idiopathic Pulmonary Fibrosis</p> <p><b>P886</b> Optimal Photon Counting Detector Computed Tomography Parameters for Quantitative Airway Assessment</p> <p><b>P887</b> Improving Detection and Prevention of Spirometry FIVC Manipulation</p> <p><b>P888</b> Consequences of Inhibition of Deep Inspiration in Isolated Sheep Lungs: Spontaneous Increase in Lung Resistance and Air Trapping</p> <p><b>P889</b> Quantification of the Degree of Coving on the Expiratory Portion of the Flow Volume Loop</p> <p><b>P890</b> Frequency of Occult Restriction With Change to GLI-global Reference Equations</p> <p><b>P891</b> Equity Challenges in Lung Function Test Interpretation: A Study on the Impact of Updated ERS/ATS 2022 Guidelines and Reference Equation Changes in the Pakistani Population</p> <p><b>P892</b> Association Between Daily Estimates of Respiratory Drive and Respiratory Muscles Effort With Outcomes of ICU Patients</p> <p><b>P893</b> Distinguishing Dose-dependent Radiation Lung Injury Using Hyperpolarized <math>^{129}\text{Xe}</math> Magnetic Resonance Spectroscopy</p> <p><b>P894</b> Assessment of Regional Ventilation by Hyperpolarized <math>^{129}\text{Xe}</math> MRI in Patients With Idiopathic Pulmonary Fibrosis and Asthma</p> <p><b>P895</b> Establishment of Reference Equations for Respiratory Mechanical Parameters in Rats</p> <p><b>P896</b> Association Between Cardiac Variables in Cardiopulmonary Exercise Testing and Echocardiogram Parameters in Patients With Exertional Dyspnea</p> <p><b>P897</b> Mechanisms of Dyspnea on Exertion and Exercise Intolerance 3 Months Post-PE in Children</p> <p><b>P898</b> Characterization of Different Phenotypes in an Animal Model of Ventilator Induced Lung Injury</p> <p><b>P899</b> Intrapleural Pressure Monitoring Using Telemetry Implants in Rats: A New Approach for Dynamic Pulmonary Function Assessment</p> | <p><b>P900</b> Exercise Alleviates Muscle Atrophy by Activating Signaling Pathways That Regulate Muscle Tissue Remodeling in Mice With Acute Lung Injury</p> <p><b>P901</b> Ultrastructural Alteration of Bronchoalveolar Lavage of COVID19 Induced Acute Respiratory Distress Syndrome Patients Reveals the Selective Cellular Infectivity, Impact of Hydroxy-Chloroquine, and Syncytial Formation in the Lung</p> <p><b>P902</b> Evaluating Alveolar Deadspace and Pulmonary Shunt Blood Flow in Patients Following COVID-19 Infection</p> <p><b>P903</b> Exploring Inconsistencies in Nonlinear Mechanics During Intraoperative Ventilation</p> <p><b>P904</b> Predicting Ventilator-induced Lung Injury From Ventilator Waveform Features in Mice</p> <p><b>P905</b> Surface Tension Determination From Regression Between Hydrostatic Pressure Variation and Interfacial Curvature</p> <p><b>P906</b> Effect of High Flow Oxygen Therapy (HFOT) Flow Rates on Respiratory Time Cycles</p> <p><b>P907</b> Breathing Variability During Rest and Cognitive Load in Pediatric and Young Adult Individuals With CCCHS</p> <p><b>P908</b> Pulmonary Function Abnormalities in Loeys-Dietz Syndrome</p> <p><b>P909</b> Modulation of Ventilator-Induced Lung Injury by ATP-P2X<sub>7</sub> Receptor Signaling Axis</p> <p><b>P910</b> Non-invasive Techniques to Evaluate Muscular Effort at Different Degrees of Ventilator Assistance in Critically Ill Patients Under Invasive Mechanical Ventilation: A Cross-sectional Clinical Study</p> <p><b>P911</b> Jump Diffusion Modeling of Ventilator-Induced Lung Injury</p> <p><b>P912</b> In Silico Estimation of the Performance of Transcutaneous CO<sub>2</sub> Sensors for Detecting Hypercapnia in Newly Admitted Inpatients</p> <p><b>P913</b> Respiratory Function Correlates With Swallowing Related Quality of Life Measures in Patients With Friedreich's Ataxia</p> <p><b>P914</b> Investigating the Impact of Forced Vital Capacity on Maximum Exercise Capacity and Dyspnea During Incremental Exercise</p> |
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**P915** Comparison Between Spirometry and Plethysmography Equations in a University Center: The Impact of the ATS/ERS 2022 Recommendations in a Brazilian Population

**P916** The Classification of Pleural Effusions From ROC Analyses

### BASIC • CLINICAL • TRANSLATIONAL

### THEMATIC POSTER SESSION

## A76 FINGER ON THE PULSE: CARDIOPULMONARY DYSFUNCTION IN LUNG DISEASE

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

Moscone Center

Area G, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

**P917** Pulmonary Arterial Hypertension Gameshow Improves Physician Knowledge and Competencies

**P918** Functional Comparison of Analog and Digital Mouse Telemetry Implants in Cardiac Arrhythmia Detection

**P919** Actin Cytoskeletal Remodeling Mediates SUN1/ARPC5 Protein Accumulation to Drive Nuclear Architectural Alteration; A Novel Signaling Axis in Pulmonary Hypertension

**P920** Seralutinib in Pulmonary Arterial Hypertension: Exploring Mechanisms of Reverse Remodeling Versus Vasodilation

**P921** Ginger-based Compounds Relax Murine Pulmonary Arteries

**P922** Neurobehavioral and Structural Brain Changes During the Development of Experimental Pulmonary Arterial Hypertension

**P923** The Association of Exhaled Nitric Oxide Level With Respiratory Muscle Strength, Pulmonary Function, Exercise Capacity, Sleep Quality, Functional Status, and Health-Related Quality of Life in Patients With Pulmonary Arterial Hypertension

**P924** Hypoxia Alters Caveolar Architecture and Adenylyl Cyclase 6 Regulation in Pulmonary Arterial Smooth Muscle

**P925** Advanced Cirrhosis in Rats Changes Gene Expression in the Lung

**P926** Touchless Monitoring Visualization of Breathing in the Anesthesia Setting

**P927** Correlation of Heart Rate Variability With Clinicophysiological and Psychological Profile in Stable COPD - A Hospital Based Observational Study

**P928** Utilizing Quantitative Measures of Ventilation and Perfusion to Assess Pulmonary Emboli

### BEHAVIORAL • CLINICAL

### THEMATIC POSTER SESSION

## A77 NIGHTTIME NEMESES: CURIOUS CASES FROM ONDINE'S CURSE TO ONLINE SLEEP SHOPPING

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

Moscone Center

Area B, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

**P227** When Pregnancy's Blessing Meets Ondine's Curse

**P228** Night of Worsening Hypoventilation on Adaptive Servo Ventilation (ASV)

**P229** COVID-19 as an Etiology for Narcolepsy Type 2

**P230** Unmasking the Hidden Respiratory Risks of Chronic Buprenorphine-naloxone Therapy

**P231** A Case Report Detailing an Unconventional Electrode Configuration for Rapid Titration and Outcome Improvement in Hypoglossal Nerve Stimulation Therapy for Obstructive Sleep Apnea

**P232** Non-REM Parasomnia: An Unusual Case of a Sleep Disorder Presenting With Online Shopping Parasomnia Behaviour

**P233** Central Hyperventilation Syndrome Due to Primary Central Nervous System Lymphoma

## BASIC • CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

**A78 HYPOXIA UNMASKED: EXPLORING MOLECULAR MECHANISMS AND SYSTEMIC CONSEQUENCES**

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

Area B, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P235 Combined Effects of Nifedipine and Intermittent Hypoxia on Insulin Signaling Gene Expression and Glucose Homeostasis in Murine Skeletal Muscle**
- P236 Nocturnal Hypoxemic Burden Is Associated With Incident Kidney Failure in Younger Patients With Type 2 Diabetes**
- P237 Intermittent Hypoxia Drives Molecular Changes Without Affecting Adipose Tissue Morphology in Young Adults With Obesity**
- P238 Tissue-Specific Reduction of IL-10 and Elevated Inflammation in Chronic Intermittent Hypoxia: Potential Implications for Obstructive Sleep Apnea**
- P239 Traditional Low-Resolution Pulse Oximetry Overestimates Oxyhemoglobin Desaturation Events and Hypoxic Burden in Obstructive Sleep Apnea Patients**
- P240 Human Cutaneous Melanoma Differential In Vitro and In Vivo Response to Chronic Intermittent Hypoxia: Evidence of an Acquired Aggressive Phenotype**
- P241 Study on Gene Single Nucleotide Polymorphisms in Han and Uyghur Patients With Obstructive Sleep Apnea Hypertension**

## CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

**A79 FROM IP TO PRECISION TREATMENT: CUTTING-EDGE RESEARCH TRANSFORMING LUNG CANCER CARE**

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

Area H, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1029 Impact of Post-operative Radiation Therapy on Survival in NSCLC Patients With Incomplete Surgical Resection**
- P1030 Endobronchial Ultrasound Guided Intranodal Biopsies Improves Rapid On-Site Evaluation Compared to Fine Needle Aspiration Alone**
- P1031 Liquid Biopsy, ctDNA, and Quantitative and Qualitative Yield in the Diagnosis of Lung Cancer in the Pre and Post Biopsy Setting**
- P1032 Outcomes Assessment of Open Pulmonary Lobectomy and Segmentectomy: A Comparison of Open and Robotic-assisted Thoracoscopic Approaches**
- P1033 Patterns and Factors Associated With Preoperative Biopsy Among Patients With Non-Small Cell Lung Cancer in an Integrated Healthcare System**
- P1034 Diagnosis of Sub-centimeter Nodules Through Shape-sensing Robotic Assisted Bronchoscopy: Real-world Outcomes From the Ion Registry**
- P1035 Expanding the Use of Awake Video Assisted Thoracic Surgery (AVATS) for Complex Conditions**
- P1036 Preoperative Inspiratory Muscle Training Enhances Diaphragmatic Excursion and Preserves Function After Esophagectomy in Patients With Esophageal Cancer: A Randomized Controlled Trial**
- P1037 Use of the Vangogh System to Assess for Intra-operative Tissue Adequacy: Initial Experience**

- P1038** Feasibility and Performance of a Next Generation Linear EBUS Bronchoscope Versus Conventional Linear EBUS: A Randomized Controlled Single Blinded Cadaveric Study
- P1039** Two-year Diagnostic Accuracy of the Illumisite™ Platform for Electromagnetic Navigational Bronchoscopy
- P1040** Quick Peeks and Deep Dives: Assessing the Utility of Rapid On-site Evaluation in Navigated Bronchoscopy
- P1041** Quality Improvement and Analysis of Saline Flush on Endobronchial Ultrasound Transbronchial Needle Aspiration
- P1042** Patients Undergoing Endobronchial Ultrasound and Transbronchial Needle Aspiration: A Cross-sectional Study Comparing 2 Time Points in a Tertiary Hospital With a Lung Cancer Service
- P1043** Intratumoral Injection Pressure Monitoring Can Inform Injection Strategy
- P1044** Streamlining Early Stage Lung Cancer Care: Single Anesthesia Events for Robotic Bronchoscopy and Surgical Resection
- P1045** Balloon Dilatation for Bronchoscope Delivery: First-in-Human Trial of a Novel Technique for Ultra-peripheral Lung Field Access
- P1046** Robotic-Assisted Bronchoscopy and Surgical Resection of Lung Cancer in a Single Anesthesia Procedure
- P1047** Methylated BCAT1/IKFZ1 Analysis in Lung Adenocarcinoma Tissue Acquired With Bronchoscopy; A Feasibility Study
- P1048** A Large, Multi-site Academic Center's Robotic-assisted Bronchoscopy Experience - What Impacts Diagnostic Yield and Sensitivity for Malignancy?
- P1049** Utility of Robot-assisted Bronchoscopy in the Biopsy of Sub-centimeter Lung Nodules
- P1050** Even Robots Can Be Sensitive: A Sensitivity Analysis of Robotic-assisted Bronchoscopy for Malignancy
- P1051** Comparison of the Survival Between Patients With Malignant Central Airway Obstruction Managed by Microwave Ablation vs. Other Methods of Airway Recanalization
- P1052** Percutaneous Ultrasound-guided Biopsy as a Leading Method for Diagnosis and Molecular Profiling of Advanced Lung Cancer
- P1053** Overcoming Viral Saturation of Lung Cancer Cells With Novel Injection Strategies to Deliver Oncolytic Viruses
- P1054** Assessing the Safety and Efficacy of Self-Expanding Metallic Y Stents in a Community Medicine Setting
- P1055** Clinical Outcomes Among Patients Undergoing Lung Resection Using Two Innovative Surgical Staplers in Routine Clinical Practice: A Multi-Institutional Database Study
- P1056** Evaluation of Multistation N2 Lymph Nodes With Endobronchial Ultrasound: A Retrospective Single Center Analysis
- P1057** Treatment Outcomes of Airway Stents for Airway-esophageal Fistulas
- P1058** Utility of Robotic-Assisted Bronchoscopy in Diagnosis of Peripheral Lung Nodules: A Tertiary Care Community Hospital Experience
- P1059** Analyses of Surgical Resection of Lung Cancer Associated With Cystic Airspace Cases
- P1060** From Diagnosis to Treatment: Patients With Lung Nodules Evaluated by Interventional Pulmonology
- P1061** Diagnostic Yield of 19G vs 21G EBUS-TBNA Needles for PD-L1 Testing
- P1062** Sociodemographic and Intraoperative Factors as Predictors of Intensive Care Unit (ICU) Admissions on Patients Undergoing Thoracoscopic Lobectomy (VATS)
- P1063** Navigational Bronchoscopy Versus Transthoracic Biopsy for Lung Nodules: A Cost-effectiveness Study



## CLINICAL

## THEMATIC POSTER SESSION

**A80-1 PULMONARY TOXICITIES AND TREATMENT-RELATED COMPLICATIONS IN THORACIC ONCOLOGY**

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

Moscone Center

Area K, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1282** A Rare Finding of Secondary Spontaneous Pneumothorax (SSP) During Tyrosine Kinase Inhibitor Treatment of a Patient With Metastatic Synovial Sarcoma
- P1283** Lurbinectedin-induced Pneumonitis and DAH in Recurrent Stage IV SCLC: Possible Pulmonary Toxicity From a Novel Alkylating Agent
- P1284** Eribulin-induced Pneumotoxicity in a Patient With Metastatic Triple Negative Breast Cancer: A Case Report
- P1285** Is Close Really Close Enough? Immune Check Inhibitor Resulting in Pulmonary Hypertension and Congestive Heart Failure
- P1286** Severe Immune-mediated Pneumonitis Induced by Pembrolizumab
- P1287** Safety and Tolerability of Concurrent Lung Stereotactic Body Radiation Therapy (SBRT), Decitabine, and Venetoclax Prior to Hematopoietic Stem Cell Transplant
- P1288** Refractory Gemcitabine-Induced Pneumonitis in Metastatic Testicular Cancer
- P1289** PET-Avid Solid Nodule: An Atypical Case of Organizing Pneumonia
- P1290** Aggravated Cough in a Patient With Metastatic Breast Cancer: A Case of Capecitabine Induced Pulmonary Toxicity
- P1291** Rapid Diagnosis and Resolution of Abemaciclib-Induced Pneumonitis in a Patient With Metastatic Breast Cancer
- P1292** Case of Fatal Oxaliplatin-induced Pulmonary Toxicity

- P1293** Cardiomyopathy With BRAF/MEK Inhibitor Use in Non Small Cell Lung Cancer: A Rare Treatment-Related Adverse Event
- P1294** Resistance to Anti EGFR Through the Successive and Cumulative Acquisition of Two New Oncogenic Addictions: BRAF and ALK
- P1295** Cannabis Induced Diffuse Alveolar Hemorrhage: A Phenomena Subject to Popularity
- P1296** Pulmonary Mucoepidermoid Carcinoma in a Young Male With Nicotine Pouch Use: A Rare Case and Review
- P1297** Rapid-Onset Autoimmune Diabetes Following Pembrolizumab Therapy in Metastatic Lung Cancer
- P1298** Pembrolizumab Induced Moans, Groans, and Psychiatric Overtones
- P1299** Era of Immunotherapy for Early Stage Non-small Cell Lung Cancer (NSCLC): Pathologic Complete Response in Stage II NSCLC With Neoadjuvant Chemoimmunotherapy
- P1300** Double Vision and Ventilatory Failure on Immunotherapy for Non-Small Cell Lung Cancer
- P1301** Drug-related Cutaneous Lesions From Early Generation Epidermal Growth Factor Receptor (EGFR) Inhibitors
- P1302** Vitiligo-like Depigmentation From Immune Checkpoint Inhibitor
- P1303** Beyond the Lung: A Case of Alectinib-Induced Hypertriglyceridemia Pancreatitis

## CLINICAL

## THEMATIC POSTER SESSION

**A80-2 UNCHARTED AIRWAVES: UNCOMMON PULMONARY TUMORS WITH DIAGNOSTIC CHALLENGES**

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

Moscone Center

Area K, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

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| <p><b>P1304</b> Arterial Anomaly: Analyzing Pulmonary Artery Intimal Sarcoma</p> <p><b>P1305</b> The Gentle Wanderer: A Leiomyoma's Unforeseen Path</p> <p><b>P1306</b> From Localized Tumor to Lethal Metastasis: A Case Report of Myxofibrosarcoma</p> <p><b>P1307</b> Tumor (Clot) in Transit : Metastatic Pulmonary Synovial Sarcoma</p> <p><b>P1308</b> Heart of the Matter: A Case of Postpartum Cardiac Chest Pain</p> <p><b>P1309</b> The Hemorrhagic Veil: Kaposi Sarcoma in the Lungs and Its Pulmonary Manifestations</p> <p><b>P1310</b> Primary Cardiac Rhabdomyosarcoma With Lung Mass: A Rare Battle of Long-term Survival</p> <p><b>P1311</b> A Rare Case of Pulmonary Sarcomatoid Carcinoma With Brain Metastasis as the Presenting Symptom</p> <p><b>P1312</b> When Benign Isn't Simple: Endobronchial Leiomyomas</p> <p><b>P1313</b> Cardiac Angiosarcoma Presenting With Bilateral Pulmonary Embolism in a Patient on Long-term Anticoagulation</p> <p><b>P1314</b> Primary Pulmonary Synovial Sarcoma</p> <p><b>P1315</b> Metastatic Malignant Neoplasm With Rhabdomyoblastic Differentiation Misdiagnosed as Large-cell Neuroendocrine Carcinoma of the Lung</p> <p><b>P1316</b> Synovial Sarcoma Mets to Lung Presenting as PE</p> <p><b>P1317</b> A Rare Case of Pulmonary Spindle Cell Carcinoma in a Non-Smoker</p> <p><b>P1318</b> Diagnostic Challenges in a Cavitary Pulmonary Sarcomatoid Carcinoma With Vascular Invasion</p> <p><b>P1319</b> Angiosarcoma and Radiation - A Ticking Time Bomb</p> <p><b>P1320</b> Pulmonary Sarcomatoid Carcinoma: A Rare and Aggressive Non-small Cell Lung Cancer</p> <p><b>P1321</b> Cardiac Angiosarcoma in a 63-year-old Female With Prior Chest Wall Radiation</p> <p><b>P1322</b> When Pulmonary Artery Pseudoaneurysms (PAPs) Pop</p> <p><b>P1323</b> Pulmonary Artery Tumor Thrombus or Pulmonary Embolism? Unveiling the Diagnostic Mystery</p> <p><b>P1324</b> A Positively Benign Node: A Case of a False Positive Anthracotic Node on Pet Scan</p> | <p><b>P1325</b> Alveolar Adenoma of the Lung: A Rare and Indolent Neoplasm</p> <p><b>P1326</b> A Rare Case of NUT Carcinoma</p> <p><b>P1327</b> Tracheal Adenoid Cystic Carcinoma: A Rare Salivary Gland-Type Tumor</p> <p><b>P1328</b> Chasing Sugars: A Case of Refractory Hypoglycemia Due to Doege Potter Syndrome Leading to Cardiac Arrest</p> <p><b>P1329</b> Pulmonary Pseudomyxoma Peritonei</p> <p><b>P1330</b> A Mycobacterial Masquerade: A Case of Tuberculosis in a Patient With Suspected Lung Cancer Progression</p> <p><b>P1331</b> Unique Case of Neuromyotoma</p> <p><b>P1332</b> Infertility Evaluation Leads to Rare Diagnosis of Rosai Dorfman Disease</p> <p><b>P1333</b> Giant Intrathoracic Schwannoma: A Case Report</p> <p><b>P1334</b> A Rare Case of Mucoepidermoid Carcinoma and Review of the Literature</p> <p><b>P1335</b> Pet Positive Pulmonary Nodule Secondary to ANCA Induced</p> <p><b>P1336</b> Pulmonary Sclerosing Pneumocytoma: An Uncommon Mimic of Malignancy</p> <p><b>P1337</b> That's No Effusion: A Rare Case of Desmoplastic Mesothelioma</p> <p><b>P1338</b> Beyond the FDG Uptake: Unraveling the Mystery of a PET-Avid Solitary Pulmonary Nodule</p> <p><b>P1339</b> Complex Convergence: A Case of Pulmonary Amyloidosis and Lymphoplasmacytic Infiltrate in an HIV Patient</p> <p><b>P1340</b> Not Your Average Nodule: A Case of Pulmonary Sclerosing Pneumocytoma</p> <p><b>P1341</b> When Wheezing Is Not Asthma: Recognizing Alternative Causes, Including Mucoepidermoid Carcinoma</p> <p><b>P1342</b> Hidden in Plain Sight: A Rare Encounter With Pulmonary Sequestration</p> <p><b>P1343</b> "Clusters of Grapes": A Case of Adenoid Cystic Carcinoma Presenting as New Cannonball Pulmonary Metastases</p> <p><b>P1344</b> Anomalies in the Air: A Rare Twist of BRAFv600e Negative, MAP2K1 Positive Pulmonary Langerhans Cell Histiocytosis in a Patient With HIV</p> |
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- P1345 A Rare Case of a Photopenic Well Circumscribed Lung Mass**
- P1346 Connect the Dots: Miliary Nodules as the First Clue to Lung Malignancy**
- P1347 All's Well That Ends Well: Missed Follow-up in Pulmonary Neurofibromatosis**
- P1348 A Rare Case of Pulmonary Amyloidoma Diagnostic Challenges and Clinical Management**
- P1349 The Hidden Threat: Navigating A Rare Cause of Hemoptysis and Respiratory Failure**
- P1350 Dysphagia: Also Think of Lung Cancer**
- P1351 A Rare Case of Mesothelioma Without Pleural Plaques**
- P1352 A Rare Case of Langerhans Cell Histiocytosis Presenting as Multifocal Lymph Node Involvement in an Adult**
- P1353 Use of Veno-Venous Extracorporeal Membrane Oxygenation (VV-ECMO) for Carinal Resection for Chondroma With Critical Tracheal Stenosis: A Case Report**
- P1354 The Fungus That Cried Cancer: A Cryptococcal Deception**
- P1355 Cough Conundrum: A Case of Pulmonary Mucoepidermoid Carcinoma**
- P1356 A Unique Case of Waxing and Waning Hypoxia**

- apply and adapt the proposed strategy toolkit for modeling and teaching allyship in research, teaching, and clinical environments.

The concept of “allyship”, defined as a supportive association between identities with power and privilege and marginalized identities, provides an optimal framework for enhancing education about health equity. Most current DEI (Diversity, Equity, and Inclusion) training focuses on the recognition and timely intervention of biases and microaggressions, but this is only one aspect of allyship. In many healthcare institutions, there is little guidance on using allyship skills proactively throughout daily work. This session will provide strategies and tools already employed in professional spheres outside of medicine to enhance and strengthen researchers’ and clinicians’ skills in utilizing and teaching allyship within healthcare.

## MEDICAL EDUCATION SEMINAR

### **ME101 BEING THE CHANGE: AN ALLYSHIP TOOL KIT FOR CLINICIANS, EDUCATORS AND RESEARCHERS**

Assembly on Behavioral Science and Health Services Research

10:45 AM – 11:45 AM

Moscone Center

Room 23, Hall E (North Building, Exhibition Level)

#### **Objectives**

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

- describe what allyship means (and what it’s not) with examples pertinent to healthcare professionals.
- identify and reflect on one’s emotional intelligence pertinent to DEI and allyship.

# ATS 2025 International Conference

 **ATS 2025** San Francisco, CA

**Sunday Mid-day, May 18**

**CLINICAL**

**ADULT CLINICAL CORE CURRICULUM**

## **CC1 ADULT CRITICAL CARE CORE CURRICULUM**

**SCALE: Core Curriculum Committee**

**11:30 a.m. - 1:00 P.M.**

**Esplanade Ballroom (South Building, Upper Mezzanine)**

### **Target Audience**

Practicing physicians, trainees, students, Advanced Practice Providers

### **Objectives**

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

- Integrate new critical care guidelines in to clinical practice.
- Identify knowledge gaps in the treatment of patients with critical illness.
- Better counsel patients on treatment options available for critical illness.

The goal of the core is to 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 key topics in the areas of Adult and Pediatric Pulmonary, Critical Care, and Sleep Medicine. The topics are aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to help clinicians stay up to date with important information relevant to their medical practices, and to provide an opportunity for

clinicians to evaluate their individual knowledge and skills while earning MOC Medical Knowledge points

**11:30 Hit the Road Jack: Optimizing the ICU to Floor Transition**

**11:55 Like a Surgeon: Timing and Benefits of Tracheostomy for Prolonged Respiratory Failure**

**12:20 My Heart Will Go On: The Role of the Intensivist in Organ Donation**

**12:45 Q&A**

**11:45 a.m. - 1:15 p.m.**

### **DIVERSITY FORUM**

**San Francisco Marriott Marquis**

Yerba Buena Salon 8 (Lower B2 Level)

The annual ATS Diversity Forum focuses on diversity within the fields of pulmonary, critical care, and sleep medicine and research. All ATS Members are invited to attend this event to find inspiration and valuable career insights.

The Underrepresented Trainee Development Scholarship will be presented at this forum. The scholarship was created to increase representation of underrepresented racial and ethnic groups as defined by the National Institutes of Health (NIH) (African American, Hispanic or Latinx, American Indian, Alaskan Native and Pacific Islander) in pulmonary, critical care, and sleep medicine research by providing an opportunity for trainees in U.S. based programs to attend the ATS International Conference

*ATS thanks **Genentech, Inc.** for their generous support of the Diversity Forum.*



## **SPS1 BRIDGING THE GAPS IN BRONCHIECTASIS: DIAGNOSIS, EXACERBATIONS, AND EMERGING THERAPIES**

**12-15 p.m. - 1:15 p.m.** **Moscone Center**

Room 24, Hall E (North Building, Exhibition Level)

**12:15** Improving Early and Accurate Diagnosis

**12:45** Managing Exacerbations and Emerging Therapies

*This program was produced in collaboration with **Insmid Incorporated**.*

## **SPS2 INNOVATIONS IN OBSTRUCTIVE LUNG DISEASE: UNDERSTANDING INFLAMMATION, ADVANCES IN BIOLOGIC THERAPIES, AND OVERCOMING BARRIERS TO UPTAKE**

**12-15 p.m. - 1:15 p.m.** **Moscone Center**

Room 25, Hall E (North Building, Exhibition Level)

**12:15** Innovations in Obstructive Lung Disease: Understanding Inflammation, Advances in Biologic Therapies, and Overcoming Barriers to Uptake

*This program is supported by an independent educational grant from **Regeneron Pharmaceuticals, Inc and Sanofi, and Genentech, a member of the Roche Group**.*

## **SPS3 PHYSICIAN SCIENTIST TRAINING AND THE FUTURE OF ACADEMIC MEDICINE**

**12:15 p.m. - 1:15 p.m.** **Moscone Center**

Room 2009/2011 (West Building, Level 2)

**12:15** Trends in Physician-Scientist Training and Funding

**12:25** Division Chiefs' Perspective: Supporting Research Fellows and New Faculty in Challenging Times

**12:45** Emerging Physician Scientist Perspective: What did it take to get here?

**12:55** How Do We Advocate and Build a Foundation for Future Physician-Scientist Training

**1:10** Identifying Next Steps and Q&A

## **BASIC • TRANSLATIONAL**

### **MID-DAY SYMPOSIUM**

## **MD1 RED JOURNAL IN ACTION 1: EARLY CAREER LUNG RESEARCH HIGHLIGHTS**

**American Journal of Respiratory Cell and Molecular Biology**

**12:00 P.M. - 1:00 P.M.** **Moscone Center**

Room 304 (South Building, Level 3)

### **Target Audience**

Individuals interested in basic mechanisms of lung disease and development; individuals who publish basic mechanistic and translational lung research; individuals interested in the peer review and editorial process; early career researchers

### **Objectives**

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

- describe new findings about emerging breakthroughs of molecular and cellular mechanisms for lung disease as reported in Am J Respir Cell Mol Biol
- better understand the peer review process, in particular the most effective approaches to address reviewer comments, and the role of associate editors to facilitate author-reviewer interactions
- better understand the features of mechanism-deciphering lung pathobiology research, and elements that create potential for future impact in the field

This is a continuation of a series started in 2023. The audience-interactive session will include early career authors of exemplary recent article on basic mechanisms of lung disease in the American Journal of Respiratory Cell and Molecular Biology. It will highlight the review process for these articles, with Associate Editors describing the novelty and relevance of the work alongside critical comments from reviewers. Authors present the study and highlight how they addressed reviewer comments to achieve acceptance.

**12:00** Overview of Session

**12:04** Editor Summary of Review Process and Paper Impact

**12:09** Spatiotemporal Clusters of ERK Activity Coordinate Cytokine-induced Inflammatory Responses in Human Airway Epithelial Cells

**12:27** Q&A

- 12:32 Editor Summary of Review Process and Paper Impact
- 12:37 Cell Population-resolved Multi-Omics Atlas of the Developing Lung
- 12:55 Q&A

### CLINICAL • TRANSLATIONAL

### MID-DAY SYMPOSIUM

## MD2 STUDY UPDATES FROM THE AMERICAN LUNG ASSOCIATION'S AIRWAY CLINICAL RESEARCH CENTERS NETWORK

American Lung Association Airways Clinical Research Centers

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 303 (South Building, Level 3)

### Target Audience

Physicians, clinical scientists, nurses, paraprofessionals, educators, health care providers

### Objectives

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

- describe the clinical and demographic characteristics of healthy young adults entered into the Lung Health Cohort
- better diagnose early onset and precursors of chronic lower respiratory disease in young adults
- describe new findings about lung structure defined by computed tomography in young health adults

The purpose of the session is to discuss ongoing research initiatives within the American Lung Association Airways Clinical Research Centers network. Recent evidence has supported the finding that reduced lung function in early adulthood is an important determinant of development chronic lower respiratory disease. The Lung Health Cohort is a cohort study of young adults to determine exposures and clinical precursors of impaired peak lung growth. The session will review functional and anatomic findings from the first 2000 participants to describe the initial findings from the cohort.

### 12:00 Introduction

### 12:05 The American Lung Association Lung Health Cohort (ALA-LHC): The First 2,000 Participants

- 12:15 Lung Function in Millennials at the Time of Peak Lung Health
- 12:25 Incidental Findings on Chest Computed Tomography (CT) Scans in Healthy Young Adults
- 12:35 Club Cell Secretory Protein CC16 and Lung Health in Young Adult Life
- 12:45 Questions

### BASIC • CLINICAL • TRANSLATIONAL

### MID-DAY SYMPOSIUM

## MD4 THE NHLBI LUNG TRANSPLANT CONSORTIUM

Division of Lung Diseases, NHLBI, NIH

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 209-210 (South Building, Level 2)

### Target Audience

Those with research interests involving the study of lung transplant donors or recipients.

### Objectives

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

- learn about the impact of certain clinical practices on, and the value of collecting particular data elements to inform, donor lung utilization and early post-transplant outcomes in lung transplant recipients
- increase awareness among the broader lung transplant research community of the availability of the consortium's resources to support ancillary studies
- be able to more appropriately design and control for clinical variables during the conduct of multi-site research studies involving lung transplant donors or recipients

Clinical outcomes following lung transplantation are substantially worse than for other solid organs, mostly due to early complications leading to acute allograft dysfunction and infection. The incidence of these outcomes varies widely, raising the prospect that site-specific clinical assessment and practices contribute to this heterogeneity, and posing a significant barrier to performing clinical research studies and interventional trials. To address this challenge, the NHLBI created in 2022 the Lung Transplant Consortium. This session will provide an overview of the consortium, an update on recent progress, and information regarding the utility of the consortium's data and biorepositories to support ancillary studies.

- 12:00 The PROMISE-LUNG Study
- 12:15 Peri-Operative Factors That Drive Cell-Free Hemoglobin-Mediated Primary Graft Dysfunction
- 12:30 The Clinical And Molecular Impacts Of Lung Primary Graft Dysfunction

BASIC • CLINICAL • TRANSLATIONAL

## MID-DAY SYMPOSIUM

## MD5 NOVEL THERAPEUTIC TARGETS FOR PULMONARY ARTERIAL HYPERTENSION (PAH)

Division of Lung Diseases, NHLBI, NIH

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 211-212 (South Building, Level 2)

### Target Audience

Providers of lung health-treating and managing PH patients. Clinical, basic or translational research in PH. Those interested in new drug development particularly physicians treating pulmonary hypertension, scientists studying lung, vascular conditions

### Objectives

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

- improve understanding of resistin and RGT-23 in pulmonary vascular disease and right heart failure
- improve understanding of 2-HOBA in pulmonary vascular disease
- improve understanding of VN-1032 in pulmonary vascular disease

Pulmonary hypertension (PH) is characterized by remodeling of the pulmonary vasculature that results in right ventricular failure. Current vasodilator therapies have shown limited efficacy. To reduce PH mortality, NHLBI supports the development of several novel therapies that target pulmonary vascular remodeling and/or right ventricular function: a monoclonal antibody against human resistin targeting vascular proliferative pathways and fibrotic response of PAH; a small molecule (2-hydroxybenzylamine) that restores metabolic imbalances by scavenging reactive lipids; and a selective aryl hydrocarbon receptor modulator that inhibits pulmonary artery smooth muscle cell proliferation, oxidative stress, and inflammation will be discussed as novel therapeutic approaches for PH.

- 12:00 2-Hydroxybenzylamine (2-HOBA) Improves Cardiac Metabolism and Function Under Load Stress
- 12:15 Resistin as a New Target to Treat PAH
- 12:30 Resistin-BTK Activation of the Inflammasome in Vascular and Cardiac Remodeling in PAH
- 12:45 A Novel Selective Aryl Hydrocarbon Receptor Modulator (SAhRM) as a New Class of Disease Modifying Therapy for PAH

## MID-DAY SYMPOSIUM

## MD6 DEADLY COUNTERTOPS: GLOBAL EPIDEMIC OF SILICOSIS RELATED TO ARTIFICIAL STONE

12:00 p.m. - 1:00 p.m.

Moscone Center

Room 2010/2012 (West Building, Level 2)

### Target Audience:

All attendees

### Objectives

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

- recognize the unique risk factors and clinical features of artificial stone silicosis
- diagnose and treat silicosis in patients who have worked with artificial stone advocate for better working conditions to protect vulnerable patients from further silica exposure

Artificial stone (also called "engineered stone" or "quartz") is a manufactured composite material that simulates the look and durability of natural stone and is used to fabricate kitchen and bathroom countertops. Increasing commercial demand for artificial stone countertops has been followed by reports of silicosis and other silica-related diseases among countertop fabrication workers in countries around the world. These cases are notable for their early onset, accelerated course, and high morbidity and mortality. This session will provide a patient perspective from a countertop fabrication worker who developed silicosis, describe clinical considerations regarding diagnosis and treatment, examine the impact of the disease on at-risk worker populations, and highlight the vital role of clinician engagement in Australia's recent national ban of artificial stone.

1:00 **Introductory Remarks**

1:09 **Clinical Considerations of Artificial Stone Silicosis**

- 1:21 Global Epidemiology of Artificial Stone Silicosis
- 1:33 Eliminating the Hazard: The Evidence Behind Australia's Ban of Artificial Stone
- 1:45 Moderated Q&A/Panel Discussion

## CLINICAL • TRANSLATIONAL

## MID-DAY SYMPOSIUM

### MD7 CARDIOPULMONARY FAILURE IN COPD: INSIGHTS FROM THE SUBPOPULATIONS AND INTERMEDIATE OUTCOMES IN COPD AND HEART FAILURE STUDY (SPIROMICS HF)

Division of Lung Diseases, NHLBI, NIH

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 3000/3002/3004 (West Building, Level 3)

#### Target Audience

Researchers, medical trainees, those interested in relationship between COPD and heart failure

#### Objectives

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

- learn about the SPIROMICS Heart Failure Study
- become familiar with new imaging technologies
- learn new findings about the relationship between COPD and heart failure

While heart failure, particularly with preserved ejection fraction (HFpEF), is a common comorbidity of COPD, little research has been done on the mechanisms that underlie this relationship. The SPIROMICS Heart Failure study takes advantage of the large well-phenotyped longitudinal SPIROMICS cohort and adds high quality cardiovascular measurements and images for a subset of participants. The goal is to better understand how emphysema and airway structure subtypes relate to heart failure phenotypes. During this session, investigators will discuss relationships between cardiovascular phenotypes and emphysema subtypes, combined pulmonary fibrosis and emphysema, and longitudinal changes in COPD.

#### 12:00 Background and Aims of the SPIROMICS HF Study

#### 12:15 Distinguishing Cor Pulmonale from Impaired Left Ventricular Filling with Machine-Learned CT Emphysema Subtypes

#### 12:30 Cardiopulmonary Fibrosis and Diastolic Dysfunction in Combined Pulmonary Fibrosis Emphysema

#### 12:45 Insights from 4D Flow MRI into Right Heart Changes in COPD

## BEHAVIORAL • CLINICAL

## MID-DAY SYMPOSIUM

### MD9 USE OF IMPLEMENTATION SCIENCE TO ADVANCE EVIDENCE-BASED PRACTICES IN CRITICAL CARE SETTING

Division of Lung Diseases, NHLBI, DLD

12:00 P.M. - 1:00 P.M.

Moscone Center

2018/2020 (West Building, Level 2)

#### Target Audience

Researchers interesting in conducting implementation science research in the intensive care unit; clinicians wanting to increase adoption of evidence-based care in their practice

#### Objectives

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

- learn about ongoing NHLBI funded research in implementation science in critical care
- apply innovative principles in behavioral economics, organizational science, and data science to implementation research
- participate in quality improvement and implementation science research in clinical practice

Many critically ill patients do not receive evidence-based practices proven to save lives and reduce morbidity. Addressing this gap is a priority for clinicians, health care administrators, and health care policy makers. Unfortunately, traditional strategies to close the implementation gap, are general ineffective. In this session, we will highlight several ongoing implementation studies conducted by ATS members and funded by the NHLBI. These projects examine strategies to support adoption of evidence-based practice in the ICU, building off recent advances in the fields of behavioral economics, organizational science, machine learning, and other innovative disciplines

#### 12:00 Telehealth-Enabled Coaching to Promote Coordinated Awakening and Breathing Trials in Mechanical Ventilation



- 12:12 Implementing Nudges to Promote Utilization of Low-Tidal Volume Ventilation in ARDS
- 12:24 Interprofessional Teamwork to Improve Post-Extubation Care
- 12:36 Optimizing Use of Early Mobilization in the Intensive Care Unit
- 12:48 Panel Discussion

## TRANSLATIONAL

## MID-DAY SYMPOSIUM

### MD10 NEUTROPHILIC MECHANISMS OF INFLAMMATION, INJURY, AND REPAIR IN LUNG DISEASES

The Neu-Lung Consortium: an NIAID U19 Cooperative Center in Human Immunology

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 3001/3003 (West Building, Level 3)

#### Target Audience

Translational researchers involved with lung and airways inflammation, injury, and repair. Basic and human immunologists. Data scientists Physicians and researchers interested in using clinical and multi-omics data integration for discovery

#### Objectives

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

- describe fundamentals of neutrophil immunobiology as it relates to lung and airways disease
- describe and apply emerging technologies in single-cell and spatial analysis of human clinical samples
- be familiar with the NIH Cooperative Centers in Human Immunology

In our Mid-day Session, we will present an overview of the Neu-Lung consortium and then present data from studies focused on human neutrophilic diseases of 1) the alveolar space (pneumonia and PGD) and 2) the airways (asthma).

- 12:00 The NIAID U19 Cooperative Centers in Human Immunology
- 12:10 The Neu-Lung Consortium: Neutrophilic Mechanisms of Inflammation, Injury, and Repair in Lung and Airways Diseases

- 12:30 Mechanisms of Neutrophil Responses Underlying Alveolar Diseases
- 12:50 Neutrophilic Mechanisms of Airway Dysfunction in Severe Asthma Endotypes

## CLINICAL • TRANSLATIONAL

## MID-DAY SYMPOSIUM

### MD11 COPDGENE: A 15-YEAR LONGITUDINAL STUDY UNRAVELING COPD PROGRESSION AND HEALTH OUTCOMES

Division of Lung Diseases, NHLBI, NIH

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 201-202 (South Building, Level 2)

#### Target Audience

Researchers, medical trainees, those interested in origins and subtypes of COPD

#### Objectives

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

- understand what factors can be used to better diagnose COPD
- understand how new machine learning and deep learning approaches can be used to analyze large-scale cohort data
- understanding how aging processes are linked to COPD and COPD outcomes

Genetic Epidemiology of COPD (COPDgene) is a multi-site longitudinal cohort study funded by NHLBI of current and former smokers to better understand risk factors, natural history, and genetic contributions of chronic obstructive pulmonary disease (COPD). COPDgene uses extensive longitudinal imaging, physiology, and Omics molecular data in combination with genetics in the COPDgene cohort to identify high-risk subgroups with distinct diagnostic, prognostic, and therapeutic implications. COPDgene has been funded for over 15 years. During this session, investigators from the COPDgene study will describe progress and recent findings ranging from machine learning approaches to roles of aging in COPD.

- 12:00 New Diagnostic Approach for COPD
- 12:12 Deep Learning in COPD Imaging
- 12:24 Frailty in COPD
- 12:36 Metabolomic Aging in COPD
- 12:48 Machine Learning for COPD Subtyping

**BASIC • TRANSLATIONAL****MID-DAY SYMPOSIUM****MD12 LUNGMAP PHASE 3- NOVEL TECHNOLOGY, DATA SCIENCE, AND RESOURCES**

Division of Lung Diseases, NHLBI, NIH

**12:00 P.M. - 1:00 P.M.****Moscone Center**

Room 3005/3007 (West Building, Level 3)

**Target Audience**

Providers of lung health, medical fellows in training, and basic and clinical researchers interested in lung biology, developmental biology, lung disease, multi-omics, bioinformatics, and systems biology

**Objectives**

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

- learn the innovative technologies for single-cell multiomics, spatial multiomics, and data analysis of the lung
- learn the newest datasets of LungMAP that could inform lung research
- learn how to access and use the LungMAP resources

The overall goal of LungMAP is to build a molecular and cellular atlas of the human lung to serve as a reference to better understand both normal biology and disease pathobiology. LungMAP Phase 3 aims to utilize the power of single-cell omics and other innovative technologies to identify the pathogenic mechanisms of lung disease at cellular resolution, including cell types critical to disease initiation and progression, aberrant molecular pathways in abnormal and diseased cell states, and targets for novel lung disease therapies. Speakers will describe cutting-edge technology platforms, e.g., spatial transcriptomics, LungMAP data pipeline, data analysis tools, and LungMAP resources.

- 12:00 Multi-Modal Spatial Transcriptomic Profiling of Fibrotic Lung Tissue in 3D**
- 12:12 Single-Cell Multiomics Understanding of Childhood Interstitial Lung Disease Associated with TBX4 Variants**
- 12:24 LungMAP BRINDL Biorepository to Advance Human Lung Research**
- 12:36 LungMAP Portal Ecosystem**
- 12:48 Reader Glasses and Tools for the Analysis of Lung Cell Atlas Data**

**BEHAVIORAL • CLINICAL****MID-DAY SYMPOSIUM****MD13 NAVIGATING RESEARCH FUNDING: PEARLS FOR SUCCESS AND FUTURE DIRECTIONS**

Nursing, Behavioral Science and Health Services Research, Critical Care, Pulmonary Rehabilitation; ATS Research Program; NHLBI, NINR, PCORI

**12:00 P.M. - 1:00 P.M.****Moscone Center**

Room 2001/2003 (West Building, Level 2)

**Target Audience**

This session will benefit attendees with clinical, academic, research, and/or funding responsibilities. The information is appropriate for students as well as early-career, mid-career, and senior clinician-scientists.

**Objectives**

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

- describe the research priorities of each funding agency/organization represented on the panel
- identify each presenting agency/organization's available funding mechanisms and associated criteria
- select an agency/organization and funding mechanism most appropriate for their research

This session will introduce programs and research funding opportunities offered by multiple federal agencies and private organizations/foundations. Speakers will present current research priorities and mechanisms of funding available within their respective agency or organization. This talk will summarize the previous speakers' content and offer tips for successfully securing extramural grant funds from the perspective of a research dean. Time will also be provided for audience members to ask questions of the panel of speakers.

- 12:00 Introduction to the Session and Presenters & Audience Poll**
- 12:03 NIH - National Heart, Lung, and Blood Institute (NHLBI)**
- 12:12 Patient-Centered Outcomes Research Institute (PCORI)**
- 12:19 American Thoracic Society (ATS) Research Program**
- 12:26 NIH National Institute of Nursing Research (NINR)**

- 12:33 **Case Study: Funded Program Success (RESP-FIT R01)**
- 12:40 **Success in Securing Research Funding from the Perspective of an Associate Dean for Nursing Research**
- 12:50 **Summary of the Session and Discussion**

**CLINICAL****PEDIATRIC CLINICAL CORE CURRICULUM****PCC1 PEDIATRIC CLINICAL CORE CURRICULUM****SCALE: Core Curriculum Committee****12:00 P.M. - 1:00 P.M.****Moscone Center****Esplanade Ballroom (South Building, Upper Mezzanine)****Target Audience**

Clinicians, trainees, students, advanced practice providers

**Objectives**

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

- Integrate new pediatric pulmonary and critical care guidelines into clinical practice.
- Identify knowledge gaps in the treatment of pediatric patients with pulmonary disease and critical illness.
- Better counsel pediatric patients and families on treatment options available for management of pulmonary diseases and critical illness.

The goal of the core is to 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 key topics in the areas of Adult and Pediatric Pulmonary, Critical Care, and Sleep Medicine. The topics are aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to help clinicians stay up to date with important information relevant to their medical practices, and to provide an opportunity for clinicians to evaluate their individual knowledge and skills while earning MOC Medical Knowledge points

- 12:00 **PFTs from A to Z: Updates in Pulmonary Function Testing**
- 12:20 **How to Help Patients Today With Actionable Results from Exercise Tests**
- 12:40 **Panel Discussion**

# ATS 2025 International Conference

**ATS 2025****San Francisco, CA****Sunday Afternoon, May 18****CLINICAL****ADULT CLINICAL CORE CURRICULUM****CC2 ADULT PULMONARY CLINICAL CORE CURRICULUM****SCALE: Core Curriculum Committee****2:15 P.M. - 3:45 P.M.****Esplanade Ballroom (South Building, Upper Mezzanine)****Target Audience**

Physicians practicing Pulmonary Medicine, trainees, APPs

**Objectives**

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

- Apply current guidelines to effectively screen for lung cancer.
- Identify knowledge gaps in the approach to diagnosis, staging, and treatment suspected lung cancer.
- Describe the current practice for the identification and management of malignant pleural effusions.

The goal of the core is to 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 key topics in the areas of Adult and Pediatric Pulmonary, Critical Care, and Sleep Medicine. The topics are aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to help clinicians stay up to date with important information relevant to their medical practices,

and to provide an opportunity for clinicians to evaluate their individual knowledge and skills while earning MOC Medical Knowledge points.

- 2:15 I'm Down with LDCT - You Know Me: Lung Cancer Screening and Prevention in 2025**
- 2:40 Stuck in the Middle with You: Diagnosis and Staging of Lung Cancer with Endobronchial Ultrasound**
- 3:05 Livin' on the Edge: Image-Guided Bronchoscopy for Peripheral Pulmonary Nodules**
- 3:30 Panel discussion**

*This session and the International Conference are supported by an independent medical educational grant from Merck & Co., Inc.*

*All CME sessions have been planned and implemented in accordance with the Accreditation Criteria of the Accreditation Council for Continuing Medical Education (ACCME®) and are free of the control of ineligible companies (formerly commercial interests).*

## CLINICAL • TRANSLATIONAL

### CLINICAL TOPICS IN PULMONARY MEDICINE

## A81 PEDIATRIC YEAR IN REVIEW

### Assembly on Pediatrics

**2:15 P.M. - 3:45 P.M.**

**Moscone Center**

**Room 3000/3002/3004 (West Building, Level 3)**

### Target Audience

Pediatric pulmonologists including trainees and APPS and researchers

### Objectives

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

- updates on sickle cell disease management
- update on childhood origins of obstructive lung disease
- identify issues with work force in Pediatric Pulmonology and potential ways to address them

Pediatric in Review will cover 4 pertinent topics on which there are clinical and research advancements in the recent years. In keeping with the Basic Science Focus on Developmental Origins of Pulmonary Diseases, the talks will be on a) Sickle Cell Disease, b) Childhood origins of obstructive lung disease c) Role of nutrition in early onset of Respiratory Disease d) Pediatric Pulmonology workforce development

- 2:15 Introduction to This Year's Pediatrics Year-in-Review**

- 2:25 Effect of Nutrition on Early-Life Onset of Respiratory Diseases**
- 2:45 Early Life Origins of Obstructive Lung Disease**
- 3:05 New Therapies for Sickle Cell Disease - Is It Time for a Change in Outcomes for an Orphan Disease?**
- 3:25 Workforce Development in Pediatric Pulmonology - Is There A Crisis At Hand?**

## CLINICAL

## SCIENTIFIC SYMPOSIUM

## A82 BREAKING NEWS: 2025 CLINICAL TRIAL RESULTS IN PULMONARY MEDICINE

**2:15- 4:15 PM**

**Moscone Center**

**Room 25, Hall E (North Building, Exhibition Level)**

### Target Audience:

All attendees

The session includes newly available trials with the potential for great clinical impact. Speakers will present results for the first time in an open public forum.

- 2:15 Preventing CMV Reactivation in Critical Illness**
- 2:25 Preventing CMV Reactivation in Critical Illness**
- 2:35 Panel Discussion**
- 2:43 Azithromycin in Preschoolers with Severe Wheezing Episodes Diagnosed at the Emergency Department (AZ-SWED): A Randomized, Placebo-Controlled, Precision-Medicine Trial**
- 3:03 Panel Discussion**
- 3:11 Progression in Tumor Size and Stage Following Less vs. More Intensive Strategies for the Evaluation of Patients with Small Pulmonary Nodules**
- 3:31 Panel Discussion**
- 3:39 A Phase III Trial of Nerandomilast in Patients with Idiopathic Pulmonary Fibrosis**
- 3:59 Panel Discussion**
- 4:07 Wrap Up Discussion**



## CLINICAL

## CLINICAL TOPICS IN PULMONARY MEDICINE

### A83 GREAT CASES: CLINICAL, RADIOLOGIC, AND PATHOLOGIC CORRELATIONS BY MASTER CLINICIANS

Council of Chapter Representatives

2:15 P.M. - 3:45 P.M.

Moscone Center

Room 24, Hall E (North Building, Exhibition Level)

#### Target Audience

Clinicians practicing adult and pediatric pulmonary and critical care medicine

#### Objectives

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

- improve recognition of clinical findings of patients in correlation with rare and common pulmonary diseases using a multidisciplinary approach
- apply clinical reasoning approaches to formulate differential diagnoses from complex patient presentations from real-time sharing of clinical knowledge, correlations, and inclusive of radiologic, and pathologic assessment by Master Clinicians
- learners will increase clinical knowledge of management and treatment approaches of pathologies presented

The Great Cases session is an active discussion about adult and pulmonary clinical cases with a multidisciplinary team. Radiology and pathology are presented and reviewed by experts in their fields. Attending learners have the opportunity to learn about unusual clinical problems and the approach to diagnosis, treatment and course.

2:15 Following the Wrong Yellow Brick Road

2:27 Radiological Findings

2:36 You're Going to Not Be So Popular

2:48 Pathology Findings

2:57 Master Clinician

3:06 Unique Like Baby Elphaba

3:18 Master Pediatric Clinician

3:26 There's No Place Like Home

3:38 Master Clinician

## CLINICAL

## CLINICAL TOPICS IN PULMONARY MEDICINE

### A84 NAVIGATING THE NEW LANDSCAPE IN HOME VENTILATION

Assemblies on Clinical Problems, Pediatrics

2:15 P.M. - 3:45 P.M.

Moscone Center

Room 3014/3016/3018 (West Building, Level 3)

#### Target Audience

Clinicians (Physician, mid-level, RT, Resident and Fellow trainees, RN) who care for patients who require home mechanical ventilation support (COPD, neuromuscular disorders, restrictive lung disease)

#### Objectives

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

- understand the similar and different modes available on home life-support ventilators and clinical application in advanced respiratory disease physiology to mitigate breathlessness and improve patient-ventilatory synchrony
- understand the impact of the use of home non-invasive ventilation in improving quality of life and survival in hypercapneic COPD and thoracic restrictive disease

With the exit of one dominant vendor from the home ventilator market, the landscape has changed significantly with multiple new devices that have different features that can be tailored to individual disease needs. The advanced capabilities will allow us to better meet the needs of our patients with complex advanced lung disease but require a more in depth knowledge of the intricacies of the available modes and where they fit into the framework of staged needs for respiratory support. We will also discuss how to navigate the changing insurance approval process with the implementation of AI.

2:15 It's A New Day, No It's Groundhog Day in Home Ventilation

2:20 Legendary Luisa

2:34 Adaptive Astral

2:48 Breathtaking Breas

3:02 Versatile VOCSN

3:16 Navigating the New Insurance Minefield- the Arrival of AI

3:30 Panel Discussion

## BASIC

## SCIENTIFIC SYMPOSIUM

### A85 REGULATORS OF LUNG REMODELING AND REGENERATION ACROSS THE AGES

2:15 PM – 3:45 PM

Moscone Center

Room 3001/3003 (West Building, Level 3)

#### Target Audience

All Attendees

#### Objectives

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

- learn new findings about inflammation and aging in lung remodeling
- learn how epithelial cells and vasculature contribute to remodeling and regeneration across the ages
- understand the current state of lung regeneration as regulated by fibroblasts and extracellular matrix

This session will address how the lung responds to insult across the lifespan to regulate injury, repair, remodeling and resolution. It will provide insight on relevant cell type responses including innate immune cells, fibroblasts, epithelial cells and the vasculature. The attendee will have new insights into the biological processes regulating cell specific responses in lung remodeling and regeneration measured by familiarity with cutting-edge research.

- 2:15 Introduction to the Scope**
- 2:20 Perinatal Meta-Inflammation Causes Premature Lung Aging and Risk for Emphysema in Life**
- 2:37 Epithelial Cells in Lung Remodeling and Regeneration**
- 2:54 Fibroblasts: Fibroblasts as Drivers of Fibrosis and Resolution**
- 3:11 Vasculature: The Contribution of the Vasculature ILD Across the Ages**
- 3:28 Senescence-Associated Lung Remodeling in COPD: Exploring Novel Treatment Strategies**

## BASIC • TRANSLATIONAL

## SCIENTIFIC SYMPOSIUM

### A86 UNLOCKING HETEROGENEITY TO ADVANCE PRECISION MEDICINE IN ARDS

2:15 PM – 3:45 PM

Moscone Center

Room 304 (South Building, Level 3)

#### Target Audience

Critical care clinicians, scientists, clinical researchers, translational researchers

#### Objectives

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

- understand the many tools available to assess the clinical and biologic heterogeneity of ARDS, including methods to sub phenotype and discover treatable traits using data from multiple clinical sources and biologic compartments
- apply our understanding of heterogeneity of ARDS to identify heterogeneity of treatment effect either in observational data, retrospective analysis of prior RCTs, or design of future clinical trials
- identify the research gaps that remain before precision therapeutics can be tested in clinical trials and used at bedside

Heterogeneity is a key feature of critical illness syndromes, including Acute Respiratory Distress Syndrome (ARDS). This heterogeneity is hypothesized to partially explain the failure of therapeutics tested in unselected populations of ARDS. The heterogeneity of our syndromes, however, has been described on multiple axes from systemic molecular biology, alveolar inflammation, respiratory physiology, and host-pathogen interactions. By understanding these distinct axes of heterogeneity, we have the potential to unlock a pathway to precision medicine in ARDS. The objective of this session is to discuss these axes of heterogeneity and the paths towards translating these findings to future targetable traits in ARDS.

- 2:15 Identifying Treatable Traits and Examining Heterogeneity of Treatment Effect in Critical Care Trials**
- 2:26 Applying Systemic Blood Phenotypes of ARDS to the Bedside**
- 2:37 Biologic Heterogeneity in the Alveolar Compartment**

- 2:48 Using Physiologic and Morphologic Heterogeneity in AHRF to Personalize the Ventilator
- 2:59 The Interaction of the Host and Pathogen in Determining Heterogeneity in Infectious ARDS
- 3:10 Pediatric ARDS, A Distinct Subphenotype or Smaller Adults
- 3:21 Heterogeneity in Recovery in ARDS Survivors
- 3:32 General Audience and Panel Discussion

## BASIC • TRANSLATIONAL

## SCIENTIFIC SYMPOSIUM

## A87 VIRTUAL PULMONARY REHABILITATION: CAN WE GET TO CONSENSUS? A PRO/CON DEBATE

Assembly on Pulmonary Rehabilitation

2:15 PM – 3:45 PM

Moscone Center

Room 303 (South Building, Level 3)

### Target Audience

All clinicians, clinical researchers, respiratory therapists, physiotherapists, advanced practice providers, nurses

### Objectives

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

- define a framework that includes the essential components of virtual pulmonary rehabilitation
- apply the components of virtual pulmonary rehabilitation to improve existing virtual programs or guide the development of new ones
- identify the aspects of virtual pulmonary rehabilitation programs that deliver high quality care to which to refer their patients

Conventional in-person Pulmonary Rehabilitation (PR) is standard of care for patients with chronic lung disease. Virtual PR programs have emerged at a rapid pace since the COVID-19 pandemic to deliver an important nonpharmacological treatment, with hopes that a remote method of delivery will improve access and provide an alternative option to in-person, center-based PR. Yet, the virtual PR programs are very heterogeneous. Quality metrics and minimum standards are needed to guide existing and future programs. In this session, key questions about delivery platform, exercise components, and outcome assessments for

virtual PR will be debated using data grounded in the existing literature.

- 2:15 Introduction
- 2:18 PRO: Virtual PR Should be Delivered via 2-Way Live Videoconferencing
- 2:30 CON: Virtual PR Should be Delivered Asynchronously
- 2:42 PRO: Exercise Should Be Conducted Using Aerobic Gym Equipment
- 2:54 CON: Exercise Should Use Minimal Equipment and Ground-Based Walking Training
- 3:06 PRO: The Primary Functional Outcome Assessment Should Be a Measure of Exercise Capacity
- 3:18 CON: The Primary Functional Outcome Assessment Should Be a Measure of Physical Activity or Balance/Frailty
- 3:30 Questions and Answers

## BASIC • TRANSLATIONAL

## SCIENTIFIC SYMPOSIUM

## A88 EPIGENETICS: HOW EARLY LIFE EXPOSURES CONTRIBUTE TO LUNG DISEASE LATER IN LIFE

Assemblies on Respiratory Cell and Molecular Biology, Allergy, Immunology and Inflammation, Environmental, Occupational and Population Health, Respiratory Structure and Function

2:15 P.M. - 3:45 P.M.

Moscone Center

Room 209-210 (South Building, Level 2)

### Target Audience

Basic science researchers, environmental health researchers, clinical researchers, and researchers in preventative medicine.

### Objectives

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

- understand and appreciate how early life exposures contribute to the development of chronic lung disease later in life
- understand how epigenetic changes contribute to the development of asthma, COPD, and pulmonary fibrosis
- understand how environmental exposures can cause epigenetic changes and how preventative measures in early

development might mitigate against chronic lung disease later in life

Accumulating evidence has demonstrated that many chronic lung diseases including asthma, COPD, and pulmonary fibrosis that develop later in life are associated with developmental origins. The mechanisms by which this occurs is not fully understood. This session will help address how epigenetic changes might serve as a mechanism linking environmental exposures during development with asthma, COPD, and pulmonary fibrosis later in life. Understanding the mechanisms that serve as the basis for the “Developmental Origins of Health and Disease (DOHaD)” hypothesis can help the medical community appreciate strategies to mitigate and prevent chronic lung disease.

**2:15 Epigenetics and the Developmental Origins of Lung Disease - the DOHaD Hypothesis**

**2:33 Epigenetic Changes in Utero and the Development of Asthma**

**2:51 Role of Epigenetics in the Developmental Origins of COPD**

**3:09 Air Pollution Exposure and Epigenetics**

**3:27 Epigenetic Changes and Pulmonary Fibrosis**

## CLINICAL

## SCIENTIFIC SYMPOSIUM

### A89 REVOLUTIONIZING RESPIRATORY DISEASE MANAGEMENT WITH MACHINE LEARNING AND AI INSIGHTS

Assemblies on Allergy, Immunology and Inflammation, Environmental, Occupational and Population Health

**2:15 P.M. - 3:45 P.M.**

**Moscone Center**

Room 2009/2011 (West Building, Level 2)

#### Target Audience

Respiratory disease specialists, clinical and research professionals, and healthcare administrators.

#### Objectives

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

- identify key ways ML and AI are integrated into environmental health science and respiratory disease studies
- assess the current trends and future potential of ML and AI technologies in revolutionizing the management and

understanding of respiratory diseases, particularly through the development of predictive models and intervention strategies

- examine the ethical considerations, challenges, and societal implications of employing advanced computational techniques in healthcare, emphasizing privacy, equity, and the responsible use of AI and ML in public health and patient care

This session explores the transformative role of Machine Learning (ML) and Artificial Intelligence (AI) in respiratory disease management. With environmental factors significantly affecting respiratory health, advanced computational techniques promise to revolutionize our understanding and management of these conditions. Our panel of leading experts in ML, AI, and respiratory health will discuss current trends, future potential, and ethical considerations. Through presentations and moderated discussion, we aim to uncover how AI and ML can provide predictive insights, enhance diagnostic accuracy, and tailor interventions, thereby improving patient outcomes and public health strategies.

**2:15 Deciphering Environmental Health: The Role of AI and ML in Respiratory Disease Management**

**2:38 Machine Learning Identifies Respiratory Disease Subphenotypes for Enhanced Prognosis and Treatment**

**3:00 Machine Learning in Identifying Mortality Risks in Respiratory Diseases**

**3:23 Artificial Intelligence in Respiratory Diseases: Innovations and Future Directions**

## BEHAVIORAL • CLINICAL • TRANSLATIONAL

## SCIENTIFIC SYMPOSIUM

### A90 LEVERAGING ONE HEALTH TO PREPARE FOR EMERGING PATHOGENS AND PANDEMICS

Assemblies on Environmental, Occupational and Population Health, Behavioral Science and Health Services Research, Critical Care

**2:15 P.M. - 3:45 P.M.**

**Moscone Center**

Room 2010/2012 (West Building, Level 2)

#### Target Audience

Pulmonary and critical care clinicians; hospital and ICU administrators; health services researchers; clinical epidemiology researchers; emergency management and preparedness personnel and researchers



## Objectives

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

- understand the evidence base supporting or questioning the natural transmission and lab leak theories for the origins of the COVID-19 pandemic
- understand the One Health approach and the connection between human, animal, and environmental health
- understand the impact of climate change on emerging pathogen risk and respiratory viruses as occupational diseases

Submitted on behalf of the ATS Section on Terrorism and Inhalation Disasters (TID), this session will use the One Health lens-the connection between human, animal, and environmental health-to chart a path through COVID-19 and other past outbreaks, contemporary zoonotic threats including highly pathogenic avian influenza, and forward looking preparedness efforts. The session will specifically address COVID-19 origin theories, zoonotic risk for emerging human-relevant pathogens, the ongoing H5N1 avian influenza epidemic, the impact of climate change on animal and human disease risk, and respiratory viruses as occupational diseases. The focus is lessons learned, unanswered questions, and continued challenges.

- 2:15 The One Health Approach and Zoonotic Hosts for Emerging Human-Relevant Pathogens**
- 2:25 COVID-19 Origins: Scientific, Apolitical Assessments of the Natural Transmission and Lab Leak Theories**
- 2:35 Highly Pathogenic Avian Influenza A(H5N1) Virus - Zoonotic and Pandemic Concerns**
- 2:45 A Global Perspective on Outbreak Investigation and Clinical Management of Novel Severe Acute Respiratory Infections**
- 2:55 Climate Change and the Evolving Risk of Emerging Pathogens**
- 3:05 Respiratory Viruses as Occupational Diseases: NIOSH Lessons from Workplace Mitigation and Risk Reduction for Future Pandemic Preparedness**
- 3:15 Patient Perspective**
- 3:25 Panel Discussion**

## CLINICAL

## SCIENTIFIC SYMPOSIUM

### A91 HOW TO ACHIEVE GLOBAL EQUITY IN MEDICATION ACCESS FOR CHRONIC RESPIRATORY DISEASES: CHALLENGES AND OPPORTUNITIES

**Assemblies on Allergy, Immunology and Inflammation, Clinical Problems; International Health Committee**

**2:15 P.M. - 3:45 P.M.**

**Moscone Center**

**Room 215-216 (South Building, Level 2)**

#### Target Audience

Healthcare Professionals, Primary Care Physicians, Nurses and Nurse Practitioners, Policy Makers and Public Health Officials

#### Objectives

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

- define the problem of lack of access and affordability of chronic respiratory treatments
- understand the role of international organizations in education, dissemination and implementation of treatment guidelines around the world
- identify innovative solutions and address inequities in medication access around the world.

An overarching principle of the American Thoracic Society is to improve global lung health and to serve as a resource for members from 129 countries with over 30 percent residing outside the United States. Common challenges are faced by members in all countries although context matters. This symposium invites perspectives from multilateral organizations and in-country experts to address challenges and opportunities regarding global inequities in medication access for chronic respiratory diseases.

- 2:15 Why Is It Important to Achieve Global Equity in Medication Access for Chronic Respiratory Disease**
- 2:20 Role of the Global Initiative for Chronic Obstructive Lung Disease in Achieving Global Equity in Medication Access**
- 2:40 The Growing Epidemic of Chronic Respiratory Disease Across Africa and Equity in Medication Access**
- 3:00 Innovations in Implementing Better Access to Medications for Chronic Respiratory Disease in India**

- 3:20 Drivers of Inequity in Medication Access for Chronic Respiratory Disease in the United States
- 3:40 Closing Remarks

### BEHAVIORAL • CLINICAL

### SCIENTIFIC SYMPOSIUM

## A92 WEIGHING THE BALANCE: EXPANDING LUNG CANCER SCREENING OPPORTUNITIES FOR HIGH-RISK INDIVIDUALS

Assemblies on Thoracic Oncology, Behavioral Science and Health Services Research, Environmental, Occupational and Population Health; Tobacco Action Committee

2:15 P.M. - 3:45 P.M.

Moscone Center

Room 3020 (West Building, Level 3)

### Target Audience

The target audience includes both clinicians and researchers focused on lung cancer risk and carcinogenesis, lung cancer epidemiology, tobacco treatment, occupational health, lung cancer screening implementation, and early detection of lung cancer.

### Objectives

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

- describe the rationale for current USPSTF eligibility criteria for lung cancer screening
- define and identify individuals and populations who have elevated lung cancer risk due to environmental or occupational exposures, family history, comorbid conditions, or other factors
- apply knowledge about lung cancer risk factors to better understand the balance of benefits and harms for lung cancer screening

The proposed session focuses on early detection of lung cancer among individuals at high risk but are currently excluded from lung cancer screening based on US Preventive Services Task Force (USPSTF) recommendations. This includes members of underserved groups such as female Asian never-smokers, firefighters, and people living with HIV, as well as individuals with USPSTF-ineligible risk factors such as family history of lung cancer, occupational exposures, or low intensity smoking. Multidisciplinary speakers will include scientists and physician scientists from Pulmonary Medicine, Cancer Epidemiology, and Medical Oncology with research expertise in these populations, as well as a representative from the USPSTF.

- 2:15 Understanding Driving Factors for the US Preventive Services Task Force Recommendation for Lung Cancer Screening
- 2:30 Prediction-Augmented Screening: A Novel Method for Early Detection of Lung Cancer Among High-Risk Veterans
- 2:45 Expanding Knowledge About Military Toxic Exposures and Lung Cancer Risk: The MAS-EXPAND Study
- 3:00 Developing Early Lung Cancer Detection Opportunities for Workers with Inhalational Occupational Exposures
- 3:15 Defining Lung Cancer Risk Among Asian-American Females Who Have Never Smoked: The FANS Study
- 3:30 Engaging People Living with HIV (PLWH) for Tobacco Treatment and Early Detection of Lung Cancer

*This session and the International Conference are supported by an independent medical educational grant from*

**Merck & Co., Inc.**

*All CME sessions have been planned and implemented in accordance with the Accreditation Criteria of the Accreditation Council for Continuing Medical Education (ACCME®) and are free of the control of ineligible companies (formerly commercial interests).*

### BASIC • CLINICAL

### MINI SYMPOSIUM

## A93 BREATH OF HOPE: DECODING LUNG INJURY AND UNLOCKING TREATMENTS

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 205-206 (South Building, Level 2)

- 2:15 Lower Respiratory Tract *C. Albicans* Induces Lung Injury in Mice and Associates With Lung Injury Endpoints in Humans
- 2:27 Pulmonary Reactivation of Herpes Simplex Virus and Cytomegalovirus in Patients With Acute Hypoxemic Respiratory Failure
- 2:39 Altered Respiratory Immune Response to Acute Respiratory Viral Infection in Patients With Rheumatoid Arthritis
- 2:51 Vimentin Limits Regulatory T Cell Function and Delays Recovery From Viral Pneumonia

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|---|---|
| <p>3:03 Two Photon Intravital Live Imaging Reveals Platelet and Megakaryocyte Derived TSP1 as Regulator of Fibrillar Collagen Deposition Early After Lung Injury</p> <p>3:15 Exposure to Burn Pit Derivates Leads to Myeloid Dysregulation Towards a Pro-fibrotic Phenotype in Mice</p> <p>3:27 Adenosine Triphosphate Via the P2 Purinergic Receptors Drives Pulmonary Fibrosis Progression With Inflammatory Cytokine Production</p> <p>3:39 Discovery of Moracin D as a Novel Interleukin-1<math>\beta</math> Inhibitor to Alleviate Acute Lung Injury</p> <p>3:51 The First Vaccine Based Therapy for Idiopathic Pulmonary Fibrosis in Human</p> <p>4:03 Efficient Therapeutic Platform for mRNA Delivery to the Lung Parenchyma: Using One-component LNP to Deliver TGF<math>\beta</math> mRNA to Lower Lung Regions</p> | <p>3:15 Comparative Effectiveness of New and Conventional Pneumococcal Vaccines in Severe COPD Patients: A Propensity Score Matched Analysis From a Multi-institutional Research Network</p> <p>3:27 Health System Level Barriers to Integrated Care for Comorbid Chronic Obstructive Pulmonary Disease and Cardiovascular Disease in Populations Experiencing Health Care Inequity</p> <p>3:39 Pulmonary Embolism Mortality Trends and Disparities in Patients With Cancer in the United States, 1999 - 2020</p> <p>3:51 "I Was Expecting the Worst": Exploring Barriers and Facilitators to Lung Cancer Screening in Black and Latino Communities</p> <p>4:03 Conducting Research on Tribal Lands: Results From the Navajo Community Asthma Program</p> |
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**BEHAVIORAL • CLINICAL****MINI SYMPOSIUM****A94 DISPARITIES IN COPD, RESPIRATORY INFECTIONS, LUNG CANCER SCREENING AND OTHER AREAS**

2:15 p.m. - 4:15 p.m. Moscone Center

Room 2014/2016 (West Building, Level 2), Moscone Center

- 2:15 Disparities in Respiratory Syncytial Virus Vaccine First Season Uptake Among the Medicare Fee-For-Service Population
- 2:27 Implementation and Sustainment of an Interprofessional COPD Care Transitions Program Across 14 Rural Medical Centers
- 2:39 Geographic Disparities in COPD Care: Rural-Urban Residence, Drive Time to Care, and Social Vulnerability on Prescription of Inhaler Therapies in a National U.S. Cohort
- 2:51 Behavioral Economic Strategies to Promote Cardiovascular Clinical Trial Enrollment Among Underrepresented Populations: A Discrete Choice Experiment
- 3:03 Trends and Disparities in Hospice Care Utilization in COPD Patients in the USA From 2003 to 2020

**TRANSLATIONAL****MINI SYMPOSIUM****A95 NEW AND EXCITING BIOMARKERS IN ILD**

2:15 p.m. - 4:15 p.m. Moscone Center

Room 2001/2003 (West Building, Level 2)

- 2:15 Comprehensive Blood-based Transcriptomic Signature as a Biomarker for Honeycombing in Pulmonary Fibrosis
- 2:27 MUC5B Promoter Polymorphism and a Proteomics Biomarker Score of Radiologically-defined Interstitial Resilience
- 2:39 Association Between a 7-Gene Signature and Risk of Progression in Patients With Idiopathic Pulmonary Fibrosis
- 2:51 Uncovering Molecular Distinctions Between IPAF and IPF: Proteomic Insights Into Inflammatory and Autoinflammatory Pathways
- 3:03 Lower Airway Microbial Signatures Associated With a Progressive Sarcoidosis Phenotype
- 3:15 Deep Learning-based Quantitative CT and Proteomics for Predicting Outcomes in Idiopathic Pulmonary Fibrosis

- 3:27 Detection of Exhaled Volatile Organic Compounds (VOCs) in Connective Tissue Disease-associated Interstitial Lung Disease (CTD-ILD): Diagnostic Potential
- 3:39 Type III and VI Collagen Remodeling Biomarkers Have the Potential to Distinguish Between Idiopathic Pulmonary Fibrosis and Hypersensitivity Pneumonitis
- 3:51 Proteomic Biomarkers of Severity and Outcomes in Interstitial Lung Abnormalities
- 4:03 Molecular Endotypes Predict Differential Response to Immunosuppression in Non-IPF Interstitial Lung Disease

## CLINICAL • TRANSLATIONAL

## MINI SYMPOSIUM

## A96 ADVANCES IN COPD

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 2018/2020 (West Building, Level 2)

- 2:15 Pulmonary Benefits of GLP-1 Analogs Versus SGLT-2 Inhibitors in COPD Patients With Coexisting Type 2 Diabetes
- 2:27 Serum Soluble ST2 (sST2) Is Associated With Chronic Obstructive Pulmonary Disease (COPD) Exacerbations and Enhanced Treatment Response to Astegolimab (Anti-ST2)
- 2:39 A New Multidimensional Diagnostic Approach for Chronic Obstructive Pulmonary Disease
- 2:51 A Genome-wide Association Study of Change in Longitudinal FEV<sub>1</sub> in Chronic Obstructive Pulmonary Disease
- 3:03 Leptin Decline Is Associated With Improvement in Lung Function and Body Composition in a Longitudinal Tobacco-exposed Cohort
- 3:15 The Respiratory Mycobiome Dynamic Is Associated With 3-Year Mortality in Severe COPD Patients During Exacerbation
- 3:27 Phenotypes of Resting and Exertional Hypoxemia in COPD Patients Differentially Associated With Serious Future Events

- 3:39 Effect Modification of Social Vulnerability on the Association Between Air Pollution and Mortality in COPD: A National U.S. Cohort
- 3:51 Food Insecurity Is Associated With Respiratory Morbidity Following Hospital Discharge for Acute Exacerbation of Chronic Obstructive Pulmonary Disease
- 4:03 The Relationship Between Eosinophilic Activation and Mucus Plug Formation in COPD

## BEHAVIORAL • CLINICAL • TRANSLATIONAL

## MINI SYMPOSIUM

## A97 FROM SURVIVING TO THRIVING: UNDERSTANDING AND IMPROVING LONG TERM OUTCOMES AFTER CRITICAL ILLNESS

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 3006/3008 (West Building, Level 3)

- 2:15 Functional, Pulmonary, Psychological and Cognitive Status Up to 12 Months Post-ICU Discharge in COVID-19 Patients: A Preliminary Analysis of the International Aftercor Study
- 2:27 CANCOV - Canadian Prospective Cohort of 5-year Outcomes in Critically Ill Patients With COVID-19 Critical Illness and Family Caregivers
- 2:39 Effect of P2Y<sub>12</sub> Inhibitors, SGLT2 Inhibitors and P-Selectin Inhibitors on One-year Quality-of-Life Outcomes in Critically Ill Patients Hospitalized for COVID-19: A Pre-specified Secondary Analysis of the ACTIV4a Randomized Clinical Trial
- 2:51 Race Is Associated With Differences in Long-Term Recovery of Activities of Daily Life After Acute Respiratory Distress Syndrome (ARDS)
- 3:03 Race/Ethnicity Is Associated With Increased Odds of Post-ICU Physical Functional Impairment in ICU Survivors



- 3:15 Identifying Windows of Opportunity for Early Mobilization of Mechanically Ventilated Patients: Multi-center Comparative Analysis of Clinical Trial and Consensus Guideline Eligibility Criteria
- 3:27 Perceived Barriers to Early Mobilization in the ICU: Impact of Work Intensity and Burnout Across Multidisciplinary ICU Staff
- 3:39 The Effect of Enteral Glycine on Plasma Glycine and Muscle Loss in Critical Illness
- 3:51 Loneliness Is Associated With Long-term Physical Disability In Intensive Care Unit Survivors
- 4:03 Predictors of Financial Hardship in Patients Hospitalized With Critical Illness and Its Association With Patient Outcomes

**BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL****MINI SYMPOSIUM**

**A98 EARLY EXPOSURES, LASTING IMPACTS: HOW PRENATAL AND CHILDHOOD EXPOSURES SHAPE RESPIRATORY HEALTH**

2:15 p.m. - 4:15 p.m. **Moscone Center**

Room 201-202 (South Building, Level 2)

- 2:15 Developmental Origins of Lung Disease - Prenatal Exposures to E-cigarette Aerosols Exacerbate House-dust Mite-induced Asthma in Adult Male Mice
- 2:27 Altered Metabolomic Profile at Birth Detected in Preterm Infants Exposed to Prenatal Smoking
- 2:39 Indoor Air Quality in Homes of Infants Discharged After Hospitalization for Bronchiolitis: Baseline Household PM<sub>2.5</sub> Levels in the Bronchiolitis Recovery and Use of HEPA Filters Study (BREATHE)
- 2:51 Home Environment Risk Factors in Toddlers With Recurrent Wheeze: The Windows Study
- 3:03 Exposure to Volatile Organic Compound Peaks Among Children With Bronchopulmonary Dysplasia
- 3:15 Impact of Indoor Air Quality on Airborne Viral Exposures in Inner-city Elementary Schools

- 3:27 Mixture Analysis Identifies Ozone as Driving Factor for Child Respiratory Symptoms
- 3:39 Impact of Extreme Heat on DNA Methylation in Pediatric Asthma
- 3:51 Association of Lung Growth With a Novel Index of Early-life Growth Conditions Deployable in Adulthood
- 4:03 Evaluating Trajectories and Mortality of Preserved Ratio Impaired Spirometry: Insights From a UK Birth Cohort

**BEHAVIORAL • CLINICAL • TRANSLATIONAL****MINI SYMPOSIUM**

**A99 ENDOTHELIAL DYNAMICS: INJURY, IMMUNITY AND THERAPEUTIC INNOVATIONS**

2:15 p.m. - 4:15 p.m.

**Moscone Center**

Room 3005/3007 (West Building, Level 3)

**Featured Speaker**

- 2:15 Using Markers of Endothelial Glycocalyx Degradation to Guide Precision Medicine in Sepsis
- 2:27 Transplantation of C-Kit-positive Endothelial Progenitor Cells Decreases Lung Fibrosis
- 2:39 Podocan-like Protein 1 Contribution to HIV-associated Pulmonary Arterial Hypertension
- 2:51 A 3' RNA-Modification Enzyme Regulates the Angiogenic Switch in Non-small Cell Lung Cancer
- 3:03 Endothelial Replacement Therapy for Pulmonary Vascular Disease Using Induced Pluripotent Stem Cells
- 3:15 Regional Endothelial Injury During Mechanical Ventilation in Surfactant-depleted Large Animal Lungs
- 3:27 Ventilator-induced Lung Injury Associated With Endothelial Cell Mitochondrial Fission
- 3:39 The Human Proximal Pulmonary Artery Plays a Critical Role in Regulating Cardiopulmonary Function in Health and Disease
- 3:51 Capillary Niche Signaling Mediated Alveolar Regeneration Following Lung Injury

**4:03** A Novel Composite Serum Protein Biomarker of Lymphangioleiomyomatosis Identified by Machine Learning

**4:03** Effect of a Positional Device in the Treatment of Positional Obstructive Sleep Apnea: A Randomized Controlled Trial: Pavlov Study

### CLINICAL • TRANSLATIONAL

#### MINI SYMPOSIUM

### **A100** REIMAGINING RELIEF: ADVANCES IN PHARMACOTHERAPY AND NERVE STIMULATION FOR SLEEP APNEA TREATMENT

**2:15 p.m. - 4:15 p.m.** Moscone Center

Room 211-212 (South Building, Level 2)

- 2:15** The Combination of an Oral Appliance and Supplemental Oxygen Markedly Improves Obstructive Sleep Apnea Severity: A Randomized Controlled Trial
- 2:27** Lateral Wall Collapse From Sleep Endoscopy and Airflow Shape Predicts Hypoglossal Nerve Stimulation Efficacy in Obstructive Sleep Apnea
- 2:39** Nocturnal Hypoxemia Despite Successful OSA Treatment With Hypoglossal Nerve Stimulation
- 2:51** Ultrasound-guided Ansa Cervicalis and Hypoglossal Nerve Stimulation Independently Increase Airflow During DISE in People With OSA
- 3:03** Three-year Efficacy of Proximal and Distal Hypoglossal Nerve Stimulation for Obstructive Sleep Apnea Was Comparable in the THN3 and STAR Trials
- 3:15** The Combination of Pimavanserin and Atomoxetine Reduces Obstructive Sleep Apnea Severity: A Randomized Trial
- 3:27** Atomoxetine Plus Oxybutynin for Obstructive Sleep Apnea: A Randomized-controlled Trial With Detailed Pathophysiology Assessment
- 3:39** GLP-1 Receptor Agonists for Obstructive Sleep Apnea: A Meta-analysis of Randomized Controlled Trials
- 3:51** Efficacy and Safety of Pitolisant in Residual Excessive Daytime Sleepiness for Patients With Obstructive Sleep Apnea Adhering to Continuous Positive Airway Pressure Therapy: An Individual Patient Meta-Analytical Approach

### CLINICAL

#### POSTER DISCUSSION SESSION

### **A101** NEW APPROACHES TO THE MONITORING AND TREATMENT OF ILD

**2:15 p.m. - 4:15 p.m.** Moscone Center

Room 203-204 (South Building, Level 2)

- Poster Viewing** 2:15-3:00
- Discussion** 3:00-4:15
- 101** INS018-055, A Novel Traf2- and NCK-interacting Kinase (TNIK) Inhibitor, Improves Lung Function in Patients With Idiopathic Pulmonary Fibrosis: Results From a Randomized, Double-blind, Placebo-controlled Phase 2a Study
- 102** The Safety and Efficacy of Gecacitinib in the Long-term Treatment of Idiopathic Pulmonary Fibrosis
- 103** Long-term Safety and Efficacy Data With Inhaled Pirfenidone (AP01) in the Atlas Open-label Extension Study Up to 240 Weeks
- 104** Ambulatory Oxygen for Treatment of Exertional Hypoxaemia in Pulmonary Fibrosis (PFOX Trial): A Randomised Sham-Controlled Trial
- 105** TAS-115 (Pamufetinib) in Patients With Chronic Fibrosing Interstitial Lung Disease With a Progressive Phenotype: Results of Phase 2b Randomized Clinical Trial
- 106** Evaluation and Feasibility of Longitudinal Remote Cough Monitoring in Patients With Pulmonary Fibrosis, A Prospective Observational Cohort Study
- 107** Validity and Reliability of Cough-related Patient-reported Outcome Measures in Patients With Pulmonary Fibrosis
- 108** Predictive Value of Home Spirometry for Disease Progression in Patients With Idiopathic Pulmonary Fibrosis

- 109 Visual Analog Scales for Assessment of Dyspnea, Cough, and Quality of Life in Interstitial Lung Disease: A Systematic Review
- 110 Early Nintedanib Deployment in COVID-19 Interstitial Lung Disease (ENDCOV-I): A Randomized, Double Blind, Placebo-controlled Trial
- 111 Development and Validation of Machine-learned Algorithms for Diagnosing ASMD Among Patients With Unexplained ILD
- 112 Inhaled Nintedanib (AP02) for the Treatment of IPF: Safety, Tolerability, and Pharmacokinetics After Single Ascending Doses to Healthy Subjects and IPF Patients
- 113 Nintedanib and Pirfenidone Treatment Outcome Comparisons in Idiopathic Pulmonary Fibrosis Patients
- 114 Safety, Tolerability, and Clinical Pharmacology of PMG1015: An Anti-Amphiregulin Antibody as a Novel Treatment for Idiopathic Pulmonary Fibrosis
- 115 The Effect of Antifibrotic Treatment on Health-related Quality of Life in Idiopathic Pulmonary Fibrosis
- 116 A Missed Opportunity: Inpatient Palliative Care Utilization in Idiopathic Pulmonary Fibrosis Patients
- 117 Impacts of Psychological Well-being and Physical Activity on Health-related Quality of Life in Patients With Fibrotic Interstitial Lung Disease
- 118 Nintedanib in Chinese Patients With Progressive Fibrosing Interstitial Lung Diseases - A Randomized Double-blind Trial
- 119 Efficacy and Safety of Pulse Versus Conventional Corticosteroid Therapy in Anti-ARS Antibody-associated Interstitial Lung Disease
- 120 A Retrospective Analysis of Alerts Generated From Home Spirometry and Oximetry Measurements in a Real-world Multicentre Home Monitoring Programme for Patients With Interstitial Lung Disease
- 121 Modelling of Overall Survival of IPF Patients With Different Phenotypes Treated With Nintedanib
- 122 Impact of Global Lung Initiative (GLI) Based Pulmonary Function Reclassification on Post Hematopoietic Stem Cell Transplant Outcomes: A Retrospective Analysis of 3,120 Patients

- 123 Safety, Tolerability, and Pharmacokinetics of CHF10067 in Subjects With Idiopathic Pulmonary Fibrosis: A Phase Ib Study

## CLINICAL • TRANSLATIONAL

## POSTER DISCUSSION SESSION

### A102 PHYSIOLOGY AND IMAGING IN AIRWAY DISEASE

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 207-208 (South Building, Level 2)

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|----------------|-----------|
| Poster Viewing | 2:15-3:00 |
| Discussion     | 3:00-4:15 |
- 201 The Heterogeneity of Prism Definitions Based on FEV<sub>1</sub> or FVC Decline
- 202 FEV<sub>1</sub>Q Minimal Clinical Important Difference in the COPDGene Study
- 203 Clinically Relevant Cut Points as Surrogates for Suboptimal Peak Inspiratory Flow (PIF)
- 204 Performance of Different Spirometric Reference Equations in Predicting COPD-related Respiratory Outcomes
- 205 Clinical Implications of a Transition to Z-score Thresholds for Classifying Airflow Obstruction
- 206 Reclassification of High-risk Smokers by FEV<sub>1</sub>/FVC: Is It Worth a GOLD STAR?
- 207 Impulse Oscillometry as a Diagnostic Tool for Small Airway Disease in Patients With Human Immunodeficiency Virus (HIV) Infection: Defining Cut-Offs and Clinical Characteristics
- 208 Respiratory Health Outcomes of Participants With Preserved Spirometry at Different Levels of Forced Expiratory Volume in One Second
- 209 The Effect of Inhaler Technique on Bronchodilation in Chronic Obstructive Pulmonary Disease: The Inhale Study
- 210 What Is the Best Physiological Marker of Success Following Bronchoscopic Lung Volume Reduction in Patients With Advanced Emphysema and Hyperinflation: FEV<sub>1</sub> vs. RV/TLC

- 211 Deterioration in Lung Age Is Associated With a Higher Risk of Annualized Clinically Significant Deterioration in Chronic Bronchitis and Mild Chronic Obstructive Pulmonary Disease
- 212 Detection of Microscopic Emphysema in Patients With Pulmonary Fibrosis In Vivo Using Endobronchial Optical Coherence Tomography
- 213 Accurate Classification of Axial CT Images as Diffuse Cystic Lung Disease and Emphysema Using Artificial Intelligence and Machine Learning Techniques
- 214 Incidental Findings on Lung CT Among 18-49 Year-old Adults Participating in the Vapescan Study of E-cigarettes
- 215 Integrating Deep Learning and CT Radiomics to Predict COPD Mortality: A 10-year Survival Analysis
- 216 CT Radiomics: A Novel Approach to Early Detection of COPD Cachexia
- 217 Lower Lobe Mucus Plug Distribution Is Associated With Increased Risk for Future Acute Exacerbations Among Tobacco-exposed Persons
- 218 X-ray Velocimetry Predicts Pneumothorax Risk After Endobronchial Valve Procedure
- 219 Comparison of Visual Reads for Emphysema and Bronchial Thickening on Low-dose Versus Standard-dose Computed Tomography
- 220 Discordance Between Quantitative Computed Tomography and Quantitative Perfusion Imaging in Bronchoscopic Lung Volume Reduction
- 221 Foundational Model of Local Lung Mechanics Predicts COPD Structural Progression Using Transformers
- 222 Uncovering Hidden Disease: Clinical Associations of AI-detected Mucus Plugs in COPD Patients Without Visually Detected Plugs
- 223 Sex Divergence in COPD-associated Pulmonary Vascular Disease: Findings From COPDGene
- 224 Using a Low Attenuation Area Threshold on CT to Identify High-risk COPD Patients in a Multi-center Study: Opportunities for Early Intervention and Risk Reduction

## BASIC • CLINICAL • TRANSLATIONAL

## POSTER DISCUSSION SESSION

### A103 MOVING TOWARDS PRECISION SEPSIS CARE: FROM THE BENCH TO THE BEDSIDE

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 213-214 (South Building, Level 2)

Poster Viewing

2:15-3:00

Discussion

3:00-4:15

- 301 Vasopressor Duration and Intensity Differs by Inflammatory Subphenotype in Sepsis
- 302 The Gut Microbiome Mediates Sepsis-Induced Skeletal Muscle Atrophy
- 303 Anti-anaerobic Antibiotics, Gut Microbiota, and Sepsis-associated Acute Kidney Injury
- 304 Variation in Vasopressor Management in Patients With Refractory Septic Shock
- 305 Safety of Liberal Fluid Resuscitation in Patients With Sepsis: A Retrospective Analysis
- 306 Pre-referral Antibiotics and Mortality Among Adults With Sepsis Referred to a Tertiary Care Hospital in Northeastern Thailand: A Propensity-matched Analysis
- 307 Latent Class Analysis Using Plasma Biomarkers Identifies Two Inflammatory Phenotypes With Differential Responses to Therapy in a Mouse Model of Bacterial Pneumonia
- 308 Latent Profile Analyses of Circulatory Biomarkers Indicate Distinct Patterns of Inflammation in Response to Transfusion in Pediatric MODS
- 309 Elucidating the Relationship Between Age and Sepsis Pathobiology in Sub-Saharan Africa: A Prospective, Multicenter Study From Uganda
- 310 Karnofsky Performance Status-Based Risk Stratification Predicts Post-discharge Mortality Among Sepsis Survivors in Sub-Saharan Africa: A Prospective, Multicenter Analysis From Uganda
- 311 Proteomic Profiling Identifies Shared Inflammatory Pathways in Pediatric Sepsis, MIS-C, and Cytokine Release Syndrome



- 312 Biomarker-based Clustering to Identify Distinct Host Response Signatures in Hospitalized Patients With Suspected Infection
- 313 Active Hematologic Malignancy Is Strongly Associated With the Hyperinflammatory Subphenotype of Sepsis
- 314 Neutrophil Extracellular Traps Associated With Severity and Prognosis of Community-acquired Pneumonia
- 315 Survivors of Murine Polymicrobial Sepsis Are Predisposed to Ischemic Kidney Injury in Association With Loss of Resident Renal Macrophage Populations
- 316 Clinical Phenotyping of Adults With Suspected Sepsis in Uganda Reinforces Severe Tuberculosis as a Key Driver of Physiologic Severity and Mortality Risk
- 317 Multicenter Comparison of Cerner Sepsis Alerts to an Advanced AI General Early Warning Score for Identifying Sepsis in the Hospital
- 318 Bacterial DNA in the Blood: A Novel Biomarker of Severity in Sepsis
- 319 Liraglutide Protects Against Microvascular Dysfunction and Sepsis-Mediated Inflammation and Organ Injury
- 320 Circulating Cell-free Hemoglobin Upregulates Active Heparanase to Drive Endothelial Glycocalyx Destruction and Inflammation in Sepsis
- 321 Circadian Clock Genes Are Differentially Expressed in Skeletal Muscle of Mice With Sepsis - Induced Muscle Atrophy
- 322 Plasma Nucleosomes as Biomarker for Sepsis and Organ Failure
- 323 Identification and Characterization of S-nitrosothiols in Extracellular Vesicles
- 324 Defining a New Pediatric Sepsis Endotype Associated With Bystander T Cell Activation, Dysregulated STAT3 Signaling, and Poor Prognosis

## BEHAVIORAL • CLINICAL • TRANSLATIONAL

## POSTER DISCUSSION SESSION

### A104 REVOLUTIONIZING PULMONARY AND CRITICAL CARE: THE IMPACT OF NURSE-LED RESEARCH

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 3009/3011 (West Building, Level 3)

Poster Viewing

2:15-3:00

Discussion

3:00-4:15

- 901 User-centered Design and Testing of a Patient Communication Decision Support Tool in ICU
- 902 Comparison of Scheduled Family Visitation and Nursing Interventions for Delirium Prevention in Adult ICU Patients
- 903 All on the Same Page? An Analysis of Discrepant Responses Regarding Communication Protocols and Practices in ICUs
- 904 Out-of-Bed Mobility Index: Daily Mobility Increases Odds of Discharge Home Across 7 Adult Intensive Care Units
- 905 Co-occurring Subjective Post-Intensive Care Unit Syndrome (PICS) Symptoms: A Scoping Review
- 906 Posttraumatic Growth and Post-ICU Psychological Symptoms in ICU Survivor and Family Caregiver Dyads
- 907 The Expanding Role of Nurse-led Pre-operative Clinics for Respiratory Assessment, Management, and Optimisation of Elective Cardiac Surgical Patients
- 908 Expert Nurse Insights on the Future of Parenteral Prostacyclin Pumps for Pulmonary Arterial Hypertension
- 909 Assessing Adolescent Behaviors in Asthma Self-management: Developing A Comprehensive Questionnaire
- 910 An Exploration of Medical Mistrust in Urban African American Adolescents With High-risk Asthma
- 911 The Return of Individual Research Results Within a Multi-site Cohort Study of Young Adults

- 912 Dislodgement of Nasal Cannula in Hospitalized Veterans on Oxygen Therapy: The Nurse Perspective
- 913 Family Caregiver-reported Communication Quality With ICU Physicians and Nurses: A Descriptive Pilot Study
- 914 Disparities in Conversations About Family Engagement During Intensive Care Unit (ICU) Team Rounds
- 915 Ageism and Health-Related Needs Among US Older Adults With Asthma and Chronic Obstructive Pulmonary Disease: The National Poll on Healthy Aging
- 916 National Sample Survey Analysis of Gender Pay Disparity in Clinical and Critical Care Nursing

### BASIC • TRANSLATIONAL

### POSTER DISCUSSION SESSION

#### **A105 PIER 39: EMERGING PATHWAYS, DRIVERS, AND BIOMARKERS IN PULMONARY VASCULAR DISEASE: FROM GUT MICROBIOTA TO VASCULAR REMODELING**

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 3022/3024 (West Building, Level 3)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 1001 Cathepsin S in Pulmonary Arterial Hypertension: Implications for Endostatin Cleavage and Disease Progression
- 1002 Deficiency of Ubiquinol-Cytochrome C Reductase Hinge Protein in Mitochondrial Complex III Inhibits Acute but Not Chronic Oxygen Sensing of the Pulmonary Vasculature
- 1003 Activin Pathway Biomarkers and Pulmonary Vascular Remodeling in Operable Chronic Thromboembolic Pulmonary Hypertension
- 1004 The Role of SOX17 in the Shear Stress Response of the Arterial Endothelium

- 1005 Unveiling the Impact of VEGFR2/KDR Modulation on Pulmonary Microvascular Endothelial Cells in COPD/Emphysema
- 1006 Developing a Deep Learning Algorithm to Quantify Pulmonary Vascular Remodeling in a Pre-clinical Model of Pulmonary Arterial Hypertension and Comparing Performance to Formal Histopathological Assessment
- 1007 BMPR2 Mutation Exacerbates Postnatal Growth Retardation and Alveolar Dysplasia in Rats With Nitric Oxide Synthase Inhibition-induced Intrauterine Growth Restriction
- 1008 Intestinal IFNA4 Promotes 15-HETE Diet-induced Pulmonary Hypertension
- 1009 Opposing Roles of Gut Derived Short Chain Fatty Acids and Host Derived Mono-unsaturated Fatty Acids in the Development of Diet-induced Pulmonary Hypertension
- 1010 The Ciboterecept Analog, RKER-012, Improved Survival in a Pre-clinical Model of Pulmonary Arterial Hypertension
- 1011 Piezo1 in Pulmonary Arterial Smooth Muscle Cells - A Critical Player for the Development of Hypoxia-induced Pulmonary Hypertension
- 1012 Lung-specific Deletion of Tbx4 Recapitulates Lung Phenotype of Human Tbx4 Syndrome With Widespread Smooth Muscle Dysregulation
- 1013 Smooth Muscle Fibroblast Growth Factor Signaling Regulates Vascular Smooth Muscle Cell Plasticity and Protects Against Hypoxia-Induced Pulmonary Hypertension
- 1014 Silencing Snai1 as an Anti-inflammatory Therapeutic Approach for Right Ventricular Failure Secondary to Pulmonary Hypertension
- 1015 Deep Phenotyping Exercise Intolerance in Pulmonary Hypertension Associated With Connective Tissue Disease Through Invasive Exercise Hemodynamics
- 1016 Exercise-induced Arterial Hypoxemia in Patients With Heart Failure With Preserved Ejection Fraction
- 1017 Regulation of Glycolysis by CNPY2 in Pulmonary Hypertension Due to Heart Failure With Preserved Ejection Fraction

- 1018 Hemin and High Flow Uniquely Contribute to Endothelial Dysfunction in the Pathogenesis of Pulmonary Hypertension in Sickle Cell Disease
- 1019 Formylpeptide Receptor Agonist Compound 17b Shows Anti-inflammatory and Anti-fibrogenic Effects in Anex Vivoprecision-cut Lung Slice Model of Pulmonary Hypertension
- 1020 Pseudomonas Aeruginosa Toxin ExoY Inhibits SIRT-1 Mediated Autophagy to Promote Pulmonogenic Tauopathy
- 1021 Complement-Containing Matrix-Bound and Liquid-Phase Nanovesicles: Key Players in Matrix Remodeling and Inflammation Leading To Pulmonary Hypertension
- 1022 Complement Factor D Plays a Crucial Role in Metabolic and Pro-inflammatory Reprogramming of Vascular Fibroblasts in Pulmonary Hypertension
- 1023 CD69 Expression in Macrophages Regulates the Progression of Pulmonary Arterial Hypertension Via Modulation of Macrophage Polarization
- 1024 PFKFB3 Kinase Inhibits Fructose-mediated Cholesterol Synthesis in PMVECs and Increases Lung Injury During Pseudomonas Aeruginosa Pneumonia
- 1025 Pharmacological Inhibition of IL-6-Trans-Signaling Protects From Vascular Remodeling and Pulmonary Hypertension in Two Independent Models of Perinatal Inflammation
- 702 Enhanced Therapeutic Potential of Hypoxia-Preconditioned Mesenchymal Stromal Cell-Derived Extracellular Vesicles for the Treatment of Highly Pathogenic Influenza Virus A/H5N1-Induced Lung Injury
- 703 Indirect Effectiveness of Influenza Vaccination: A Systematic Review of Cluster-randomized Controlled Trials
- 704 Mechanism of the Gas6/AXL/AKT Signaling Pathway in Influenza Virus Infection of Epithelial Cells
- 705 Mice With Bronchopulmonary Dysplasia Show Enhanced Airway Immune Cell Infiltration After Influenza A Virus Infection
- 706 A Treatment That Inhibits Respiratory Syncytial Virus Infection Via Alteration of Endosomal Trafficking
- 707 Increased Epithelial Expression of PIGR Is Protective Against Viral Infection In Vitro
- 708 Shared Interferon-dependent Pathway Signatures in Organoids Derived From Patients With COVID-19 and SARS-CoV-2 Infected Regional Airway Epithelial Cultures
- 709 Anti-viral Efficacies of Pulmonary Surfactant Phospholipids Against SARS-CoV-2 and Its Multiple Variants
- 710 Evaluating the Protective Role of Hyperlipidemia on Mortality in Hospitalized COVID-19 Patients: An Age-Stratified Analysis
- 711 Early and Delayed Administration of Azvudine on Mortality of Adult Patients With COVID-19: A Retrospective Study
- 712 Efficacy of Bovhyaluronidase Azoximer (Longidaza®) in Patients With Long-term Pulmonary Sequelae of COVID-19: A Randomized, Double-blind, Placebo-controlled Trial
- 713 The Upper Airway Microbiome in Post-COVID Syndrome
- 714 Breath Metabolite Profile of Long COVID
- 715 Distinct Pulmonary CMV Load Dynamics in Critically Ill COVID-19 Patients With and Without CAPA

**BASIC • CLINICAL • TRANSLATIONAL****POSTER DISCUSSION SESSION**

### **A106 FROM PATHOGEN BIOLOGY TO PATIENT OUTCOMES: VIRAL AND FUNGAL RESEARCH PERSPECTIVES**

2:15 p.m. - 4:15 p.m. Moscone Center

Room 2006/2008 (West Building, Level 2)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 701 Inhalation of Synergistic Pattern Recognition Receptor Agonists Activates an IRF9-dependent DUOX2 Antiviral Immune Response to Protect Against Influenza Virus Infection

- 716 Identification of Distinct Immunophenotypes in Chronic Pulmonary Aspergillosis: Analysis of Baseline Characteristics and Treatment Outcomes
- 717 Adult Fungal Lung Abscess in the United States Epidemiology, Correlation Factors, Causes and Mortality- Nationwide Study From 2002 to 2020
- 718 Clinical Features of Steroid-Responsive Exacerbations of Chronic Pulmonary Aspergillosis
- 719 Retrospective Cohort Study to Examine the Association of Cavitory Pulmonary Disease and Bronchoscopy Yield With Complement Fixation Coccidioidomycosis Titers
- 720 Respiratory Treatment Patterns for Obstructive Lung Disease Among People With or Without HIV: Analysis of the MACS/WIHS Combined Cohort Study

## BASIC • CLINICAL • TRANSLATIONAL

## POSTER DISCUSSION SESSION

## A107 NOVEL THERAPIES AND MOLECULAR PATHWAYS IN COPD, AATD, AND AIRWAY REGENERATION

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 2002/2004 (West Building, Level 2)

Poster Viewing

2:15-3:00

Discussion

3:00-4:15

- 601 AZD6793, A Novel IRAK4 Inhibitor, Targets Multiple Disease-relevant Pathways in Pre-clinical Models of Chronic Obstructive Pulmonary Disease
- 602 COPD and Extracellular Matrix: How Lung Microenvironmental Changes Influence Progressive Lung Disease Pathology
- 603 Investigating Alveolar Type 2 Stem Cell Exhaustion in Human Bronchoalveolar Lavage-derived Organoids
- 604 TSLP Receptor Knockout Mice Develop Emphysema Spontaneously
- 605 Senescence Is Elevated in Airway and Liver Cells in Alpha-1 Antitrypsin Deficiency and Is Tractable to Targeted Therapy

- 606  $\alpha$ -defensins Enhance Nontypeable Haemophilus Influenzae (NTHi) Colonization and Lung Epithelial Barrier Injury Via Cell-cell Junction Disruption in AATD Individuals
- 607 The Impact of X Chromosome Inactivation Patterns and Social Determinants of Health on COPD Outcomes in Women
- 608 Whole-Exome Sequence Data Analysis for Lung Function Provides Allelic Series to Inform Functional Genomics and Drug Development
- 609 Age-dependent Genetic Associations With Lung Function
- 610 Obese Asthma Is Characterized by Multi-faceted Inflammation Accompanied by Epithelial Remodeling
- 612 miRNA-mRNA Network Analysis Identifies PAX5 as a Potential Regulator of Adaptive Immune Response in COPD
- 613 Metabolomic Signatures of Metformin Use in COPD Gene
- 614 Nebulized Platelet-derived Extracellular Vesicles Attenuate Cigarette Smoke-induced Murine Emphysema Via Immunoregulation
- 615 Sex-specific Regulation of Mucin Expression by a TP53 Genetic Variant
- 616 Endothelial FoxM1 Regulates the Lung Epithelial Regeneration and Repair
- 617 Integrated Multiomic Studies Demonstrate Metabolic Shifts in Skeletal Muscle Due to Prolonged Intermittent Hypoxia
- 618 MUCQ: A Personalized Quantitative Mucin Index of the Lung for Prognosis, Diagnosis, and Monitoring Muco-obstructive Lung Diseases
- 619 Development of an Inhalation LNP Therapy for the Treatment of Lung Disease in A1AT-Deficiency Disorder, Utilizing an A1AT KO Ferret Model
- 620 Rage Silencing Via Inhaled Epithelium Targeted Sirna Mitigates Neutrophilic Inflammation in Rat Models of COPD and ARDS
- 621 Smoking-induced Dysregulation of Transposable Elements in the Genome of the Small Airway Epithelium Contributes to the Smoking-induced Dysregulation of the Small Airway Epithelium Transcriptome



- 622 Evaluating T Cell Subsets in Alpha-1 Antitrypsin Deficiency
- 623 Skeletal Muscle Response to Cigarette Smoke Exposure: Transcriptomic Analysis in the Ferret Model of COPD Cachexia
- 624 Targeted Pre-conditioning and Cell Transplantation in the Murine Lower Respiratory Tract
- 625 Impaired Wingless and Int-1(WNT) Signaling in Type 2 Alveolar Epithelial Cells Drives Senescence and Inefficient Alveolar Repair in Alpha-1 Antitrypsin Deficient Lungs

### BASIC • CLINICAL • TRANSLATIONAL

### POSTER DISCUSSION SESSION

## A108 ALL THAT'S WICKED IN ASTHMA

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 3010/3012 (West Building, Level 3)

Poster Viewing

2:15-3:00

Discussion

3:00-4:15

- 501 Inhaled Frevecitinib Reduces Sputum Eosinophils and Improves FEV1 and ACQ-6 in Subjects With Moderate to Severe Asthma Treated With ICS/LABA
- 502 Type-2 Inflammation Worsens Aerodynamic Characteristics in Aging Asthmatics: Quantitative CT and Computational Fluid Dynamics Findings
- 503 Regional Patterns of Obstruction and Air-trapping Before and After Exacerbation in Severe Asthma
- 504 Reduced Transpulmonary Pressure and Elevated Airway Resistance in Asthma Patients With Persistent Airflow Obstruction
- 505 Clinical Remission and Factors Associated With Improved Small Airway Function in Severe Asthma Following One-year Biologics or Standard Treatment
- 506 Utilizing Hyperpolarized  $^{129}\text{Xe}$  MRI as a Biomarker for Asthmatics on Biologic Treatments
- 507 Neuronal M<sub>2</sub> Muscarinic Receptor Protein Expression Is Reduced in Diet Induced Obese Mice but Not in Offspring of Obese Dams

- 508 Oscillometry Measures the Response to Acute Asthma Therapy in the Pediatric Emergency Department
- 509 Bronchial Thermoplasty Reduces Ventilation Heterogeneity Measured by Phase-Resolved Functional Lung Magnetic Resonance Imaging in Severe Asthma
- 510 Longitudinal Quantitative Micro-CT Provides Structure-function Biomarkers That Unveil Progressive Airway Remodeling in Chronic Asthmatic Mice
- 511 GINA vs ATS/ERS Bronchodilator Responsiveness Thresholds vs Alternative Routes of Diagnosis in Severe or Difficult to Control Asthma
- 512 The Acute Force Relaxation Effect of Pitavastatin Depends on Cofilin's Rapid Disassembly of F-actin in Human Airway Smooth Muscle
- 513 Effects of Stretch on Fetal Airway Store Operated Calcium Entry
- 514 Piezo Channels in Aging Asthmatic Human Airway Smooth Muscle
- 515 Widefield-microscopy Based Detection of Calcium Oscillations in Precision Cut Lung Slices
- 516 Development of a High-resolution Three-dimensional Airway Model for Non-destructive Assessment of Airway Smooth Muscle Structure
- 517 Contractile Properties of Intrapulmonary Airway Smooth Muscle in Fatal Asthma
- 518 Investigation of Drug Ciliary Attachment Dynamics and Their Impact on Nanoparticle Therapeutics in Airway Surface Liquid
- 519 Management of Status Asthmaticus Requiring Intubation and VV-ECMO Secondary to S. Pneumoniae Pneumonia, Bacteremia, and Rhinovirus Infection
- 520 Use of APRV to Avoid ECMO in Severe Asthma
- 521 Novel Synthesized KpSAT Peptides Regulates Airway Smooth Muscle Remodeling
- 522 Hydrogen Sulfide (H<sub>2</sub>S) Alleviates Hyperoxia-induced Changes In Intracellular Calcium Regulation In Human Fetal Airway Smooth Muscle
- 523 Class C GPRC5A in Human Airway Smooth Muscle

- 524 Examination of Airway-Associated Adipose Tissue Effects on Airway Smooth Muscle Cell Growth
- 525 First-in-Human Study of CHF 6795, an Oral Selective P2X3 Antagonist for Refractory Chronic Cough

## CLINICAL • TRANSLATIONAL

## RAPID POSTER DISCUSSION SESSIONS

### A109 SMOKE, SNOOZE, AND ICU BLUES: THE INFLUENCE OF ENVIRONMENTAL EXPOSURES AND CRITICAL CARE CONDITIONS ON SLEEP

2:15 p.m. - 4:15 p.m. Moscone Center

Room 2022/2024 (West Building, Level 2)

Viewing/Abstract Summaries 2:15-3:00

Discussion 3:00-4:15

- 801 Rising Temperatures Are Associated With Increased Burden of Obstructive Sleep Apnea
- 802 Effects of Air Pollution on Sleep in Postpartum Women in Rural Ghana
- 803 Burn Pit Smoke Exposure and Daytime Sleepiness Among Veterans: A Large-scale Analysis Using the Epworth Sleepiness Scale From Electronic Medical Record Free Text
- 804 The Combined Effects of Cigarette Smoking and Sleep Disordered Breathing on Sleep Architecture
- 805 Polysomnographic Characterization of Pediatric Patients Hospitalized in a High-Complexity Hospital in Bogotá, Colombia
- 806 Chronic Long-term Sleep Fragmentation and Recovery
- 807 A Parallel-Group, Blinded, Placebo-Controlled, Randomised, Pragmatic Clinical Trial Investigating the Effect of Temazepam on Objective and Subjective Measures of Sleep in Critically Ill Patients (The DREAM Trial)
- 808 Hypersomnia and Outcomes in Critically Ill Patients
- 809 Atypical N3 Sleep Pattern in Critically Ill Patients and Its Role as a Marker of Outcome

- 810 Prevalence and Clinical Characteristics of Korean Intensive Care Unit Patients With Obesity Hypoventilation Syndrome

## BASIC SCIENCE

## RAPID POSTER DISCUSSION SESSIONS

### A110 MECHANISMS OF LUNG TUMORIGENESIS, TRANSITION AND TARGETED THERAPEUTICS

2:15 p.m. - 4:15 p.m. Moscone Center

Room 301-302 (South Building, Level 3)

Viewing/Abstract Summaries 2:15-3:00

Discussion 3:00-4:15

- 401 FXR-Overexpressing Non-small Cell Lung Cancer Exosomes Regulate the Mechanism of Cancer-Associated Fibroblast Transformation
- 402 Mapping the Immune Landscape of Lung Cancer: Identification of Unique CD45<sup>+</sup> Cell Subsets
- 403 Derlin-3 Manipulates the Endoplasmic Reticulum Stress and IgG4 Secretion of Plasma Cells in Lung Adenocarcinoma
- 404 PPAR- $\gamma$ /NF- $\kappa$ B/AQP3 Axis in M2 Macrophage Orchestrates Lung Adenocarcinoma Progression by Upregulating IL-6
- 405 Spatial Transcriptomic Evaluation of Lymph Node Metastasis in Non-small Cell Lung Cancer
- 406 CD146 Promotes Tumor Angiogenesis Through Dual Regulatory Effects on the VEGF/VEGFR Axis and as a Potent Target for Anti-vascular Therapies in Lung Cancer Brain Metastasis
- 407 TMPs Induce TREM<sub>2</sub>+TAM-mediated Progression of Malignant Pleural Effusion and Package Etomoxir for Targeted Therapy
- 408 Influenza's Silent Warriors: Unveiling Lung Tumor Cell Assassination Through Macrophage Reprogramming via SAA4-MLKL Axis
- 409 Targeting KRAS-mutant Lung Adenocarcinoma Tumors Through IL-1 $\beta$  Inhibition
- 410 TRIP13 as a Therapeutic Target Controlled by Antitumor miR-139-3p in Lung Adenocarcinoma

- 411 **Exploring the Role of the Ryanodine Receptor 2 Gene in Lung Adenocarcinoma: Survival Outcomes, Impact on Tumor Microenvironment, and Platinum-based Therapy Response**
- 412 **Using Patient Embeddings From Foundation Models for Enhanced Survival Analysis in Lung Squamous Cell Carcinoma**
- 413 **Evaluating the Efficacy of Tocilizumab for Steroid-Refractory Immune Checkpoint Inhibitor Pneumonitis**

## **RESPIRATORY HEALTH AWARDS CEREMONY**

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

**Moscone Center**

Yerba Buena Ballroom Salon 8 (Lower B2 Level)

### **J. Burns Amberson Lecture**

The Amberson Lecture recognizes major contributions to clinical or basic research that have advanced our fundamental understanding of the basic, translational, or clinical approaches to respiratory disease, critical illness, or sleep disorders. This award also recognizes exemplary professionalism, collegiality and citizenship through mentorship and leadership in the ATS community. The Lecture is given in honor of James Burns Amberson, an international authority on chest disease and tuberculosis.

### **Edward Livingston Trudeau Medal**

Edward Livingston Trudeau Medal recognizes major contributions to the prevention, diagnosis and treatment of lung disease, critical illness, or sleep disorders through leadership in research, education or clinical care, and acknowledges exemplary professionalism, collegiality and citizenship in the ATS community. The Trudeau Medal is the highest honor bestowed by the ATS and is given in honor of Edward Livingston Trudeau, a founder and the first president of the American Lung Association.

### **Distinguished Achievement Award**

Distinguished Achievement Awardees are individuals who have made outstanding major contributions that advance the missions of the American Thoracic Society. Awardees have made substantial contributions to prevention, diagnosis and treatment of lung disease, critical illness, or sleep disorders through advocacy, training, and mentorship. This award recognizes one major accomplishment or cumulative impact

# ATS 2025 International Conference

 **ATS 2025** San Francisco, CA

**Monday Morning, May 19**

## MEET THE EXPERT SEMINARS

 Pre-registration and additional fees required. Attendance is limited.

\$100 Member/Non-Members

\$70 LMIC Member/LMIC Non-Members

**10:45 a.m. - 11:45 a.m.**

**Moscone Center**

### **MTE12 PULMONARY NODULE EVALUATION IN THE AGE OF ARTIFICIAL INTELLIGENCE**

Room 308 (South Building, Level 3)

### **MTE13 ?HARD? DATA IN SCLERODERMA ILD: NEW GUIDELINES AND MANAGEMENT STRATEGIES**

Room 311 (South Building, Level 3)

### **MTE16 TEACHING CASES IN ENDEMIC FUNGAL PNEUMONIA FOR THE NON-ENDEMIC CLINICIAN**

Room 312 (South Building, Level 3)

### **MTE17 TWO BAD DISEASES ARE WORSE THAN ONE: PULMONARY HYPERTENSION IN ILD AND COPD**

Room 21, Hall E (North Building, Exhibition Level)

### **MTE18 PEDIATRIC AIRWAY SAMPLING: ARE WE DOING IT RIGHT?**

Room 314 (South Building, Level 3)

### **MTE20 GENERATIVE AI FOR LUNG IMAGING AND DISEASE DIAGNOSIS**

Room 20, Hall E (North Building, Exhibition Level)

### **MTE21 TAKING YOUR MULTIDISCIPLINARY ICU TEACHING ROUNDS TO THE NEXT LEVEL.**

Room 313 (South Building, Level 3)

## KEYNOTE SERIES

**8:00 a.m. -8:45 a.m.**

**Moscone Center**

Esplanade Ballroom (South Building, Upper Mezzanine),

### **K2 DEVELOPMENT OF GENETIC THERAPIES FOR PEOPLE WITH RESPIRATORY DISEASE**

The ATS Keynote Series focuses on timely topics of high relevance to the pulmonary, critical care, and sleep medicine community. Keynote lectures feature leaders who have made major contributions in the important themes programmed at the 2025 conference and are unopposed by any other programming.

## CLINICAL

## YEAR IN REVIEW

### **B1 CLINICAL YEAR IN REVIEW**

**9:15 a.m. - 10:45 a.m.**

**Moscone Center**

Esplanade Ballroom (Upper Mezzanine, South Building)

#### **Target Audience**

Pulmonary, critical care, and sleep providers. The program will discuss topics of interest to a broad group of providers. The program is relevant to not only clinicians, but also to researchers and administrators.

#### **Objectives**

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

- apply new clinical research knowledge to clinical practice
- learn new findings about key conditions in pulmonary, critical care and sleep
- have new strategies to manage the care of common conditions in pulmonary, critical care, and sleep

This program has been developed to include core topics in pulmonary, critical care, and sleep medicine. The goal of the session is to discuss critical state-of-the-art topics and evolving concepts. The learner will be exposed to a carefully curated



review of the current literature by emerging leaders in the field. After the course, participants will better understand novel concepts in each specific domain that we hope will translate to improved patient care.

**9:15 General Critical Care**

**9:37 ARDS**

**10:00 Sepsis**

**10:23 Medical Education**

## COMMITTEE-SPONSORED

### **B2 NEJM, AJRCCM, JAMA, DISCUSSIONS 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 the American Journal of Respiratory and Critical Care Medicine (AJRCCM), the New England Journal of Medicine (NEJM), and the Journal of the American Medical Association (JAMA). 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.

*Presentations embargoed until May 18 and 19, 2025*

## CLINICAL

### CLINICAL TOPICS IN PULMONARY MEDICINE

### **B3 NON-MALIGNANT PLEURAL DISEASE - A PRO/CON DEBATE**

**Assembly on Clinical Problems**

**9:15 a.m. - 10:45 a.m.**

**Moscone Center**

**Room 303 (South Building, Level 3)**

#### **Target Audience**

This will be for all practicing clinicians that see pleural disease consults. Physicians, Trainees, Advanced Practice Providers, Nurses

#### **Objectives**

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

- understand the data behind conservative management of pneumothoraces and how to apply that to your practice
- describe the data and upcoming trials that will shape empyema management in the future
- apply literature to traditionally frowned upon methods of insertion of a tunneled pleural catheter and surgical pleurodesis for a recurrent, transudative pleural effusion

This session will delve into three common clinical scenarios and have experts debate pros and cons. The three scenarios include pneumothorax, empyema, and recurrent transudative effusions and the management intricacies associated.

**9:15 Pro: All Patients with Empyema Should Be Managed with Chest Tube Insertion, Drainage, and Intrapleural Enzyme Therapy Prior to Surgical Intervention**

**9:30 Con: All Patients with Empyema Should Be Managed with Chest Tube Insertion, Drainage, and Intrapleural Enzyme Therapy Prior to Surgical Intervention**

**9:45 Pro: Recurrent and Refractory to Treatment Transudative Pleural Effusions Should Be Managed with Indwelling Pleural Catheters**

**10:00 Con: Recurrent and Refractory to Treatment Transudative Pleural Effusions Should Be Managed with Indwelling Pleural Catheters**

**10:15 Pro: All Spontaneous Pneumothoraces Should Be Managed Conservatively in the Absence of Significant Symptoms and Hemodynamic Compromise**

**10:30 Con: All Spontaneous Pneumothoraces Should Be Managed Conservatively in the Absence of Significant Symptoms and Hemodynamic Compromise**

## CLINICAL • TRANSLATIONAL

### CRITICAL CARE TRACK

### **B4 FRAILTY IN THE INTENSIVE CARE UNIT**

**Assembly on Critical Care**

**9:15 a.m. - 10:45 a.m.**

**Moscone Center**

**Room 2010/2012 (West Building, Level 2)**

#### **Target Audience**

Critical care clinical providers (physicians, physician assistants,

and nurses), clinical and translational researchers interested in aging and frailty

### Objectives

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

- compare and apply available methods for assessing frailty in critically ill patients
- describe the risks of frailty in the critically ill patient on survival and long-term outcomes
- identify opportunities for frailty intervention

Frailty, a syndrome characterized by increased vulnerability to stressors, is common among intensive care unit (ICU) patients and is associated with adverse outcomes. The optimal strategies to assess and manage frailty in the critically ill remain under intense study. Given the growth of aging populations and of ICU survivors, frailty identification and intervention are essential. In this session, we will review the state of the science regarding frailty in the ICU, including frailty assessment tools, the impact of frailty in the ICU and afterwards, and potential intervention points. This session will span clinical and translational research and will highlight new advances in the field, including lessons learned from the COVID-19 pandemic.

- 9:15 **Assessing Frailty in the ICU Setting**
- 9:27 **Frailty and Its Impact on ICU and Post-ICU Outcomes**
- 9:39 **Multi-Omic Pathways in Frailty**
- 9:51 **Frailty the Post-COVID Era: Lessons Learned and Ethical Considerations**
- 10:03 **Opportunities for Frailty Intervention**
- 10:15 **A Research Agenda for Frailty**
- 10:27 **Wrap-Up and Panel Discussion**

## BASIC • TRANSLATIONAL

## SCIENTIFIC SYMPOSIUM

### **B5 REMINISCENCE OF AN EARLIER LIFE; SHEDDING MECHANISTIC LIGHT ON THE TRANSGENERATIONAL IMPACT OF CIGARETTE SMOKE ON LUNG FUNCTION**

Assemblies on Respiratory Structure and Function, Pediatrics

9:15 a.m. - 10:45 a.m.

Moscone Center

Room 215-216 (South Building, Level 2)

### Target Audience

Basic Science Researchers, Clinicians

### Objectives

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

- understand the epidemiological/clinical role of cigarette smoking before, during and after child conception
- elucidate cigarette smoke as a transgenerational modifier of the lung epigenetic landscape that determines lung function
- learn from advanced pre-clinical models and cohorts on parental exposure and lung function outcome

Lung function decline, originating in childhood, underlies chronic lung diseases (e.g. asthma, COPD). Traditionally, this decline has been attributed to self-inflicted exposures (e.g. smoking). Recent advances reveal that smoke exposure during childhood and parental smoking decades before conception can increase susceptibility to chronic lung diseases in offspring, indicating a transgenerational memory. Critically, novel smoking behaviors (e.g. vaping) may shape future generations' lung health. Large epidemiological studies are exploring transgenerational mechanisms by which smoking affects lung health, including maternal immune activation, aberrant lung structure maturation, and epigenetic priming of lung cell memory and susceptibility to chronic lung disease in the offspring.

- 9:15 **Cigarette Smoke Kills - Why Women Might Get More than Their Fair Share**
- 9:33 **Grandparent's Heritage: Transgenerational Effects of Cigarette Smoke on Lung Health**
- 9:51 **Crossing Barriers - Dysfunctional Placental Gate-Keeping Effects on Lung Development and Risk for Disease**
- 10:09 **Not a Distant Memory - Linking Fetal Lung Epigenetics After Nicotine Exposure to Early-COPD**
- 10:27 **You Never Walk Alone - Obesity x Smoking as Multipliers of Chronic Lung Diseases Across Generations**

## CLINICAL • TRANSLATIONAL

## SCIENTIFIC SYMPOSIUM

**B6 PRECISION MEDICINE IN SEVERE ASTHMA: LATE-BREAKING RESULTS FROM THE PRECISE TRIAL**

Assemblies on Allergy, Immunology and Inflammation,  
Clinical Problems

9:15 a.m. - 10:45 a.m.

Moscone Center

Room 205-206 (South Building, Level 2)

**Target Audience**

Clinicians (physicians, nurses, fellows, residents, pharmacists), researchers, administrators, regulators and policymakers: anyone involved in delivery of care and the science of patients with asthma and severe asthma

**Objectives**

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

- describe new thinking about how to design and interpret biomarker-stratified adaptive platform trials
- describe new findings about the following interventions targeting new pathways in severe and exacerbation-prone asthma: medium chain triglycerides, civosonstat, imatinib, Broncho-Vaxomr, and clazakizumab
- learn how established and new biomarkers can predict asthma severity and response to therapy. The learner can apply this new knowledge in clinical practice to improve the care of severe asthmatics

This session will present for the first time the results of the Precision Interventions in Severe and Exacerbation Prone Asthma (PrecISE) clinical trial, which will conclude in late 2024. PrecISE is a ground-breaking biomarker stratified, adaptive platform trial that tested 5 novel interventions in adults and adolescents with severe asthma. Sponsored by the NIH and conducted at top asthma centers throughout the U.S., PrecISE started in 2019 and used an innovative multi-stage crossover trial design. This phase II study of targeted therapies will advance our understanding of new pathways and biomarkers involved in severe and exacerbation prone asthma.

9:15 Welcome and Introduction

9:18 Design and Statistical Analysis in the PrecISE trial

9:32 Medium Chain Triglycerides

9:46 Civosonstat

10:00 Imatinib

10:14 OM-85 (Broncho-Vaxom)

10:28 Clazakizumab

10:42 Summary and Q&A

## TRANSLATIONAL

## SCIENTIFIC SYMPOSIUM

**B7 CLEAR SKIES OR HAZY HORIZONS: DEBATING PERSONAL POLLUTION CONTROL**

Assemblies on Environmental, Occupational and Population  
Health, Clinical Problems

9:15 a.m. - 10:45 a.m.

Moscone Center

Room 209-210 (South Building, Level 2)

**Target Audience**

Clinicians in pulmonary, pediatrics, infectious disease and occupational health fields, respiratory health workers, environmental and urban health experts, global health researchers.

**Objectives**

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

- increase awareness about environmental exposures relevant to people with chronic lung diseases
- review the evidence for personal interventions to mitigate exposure to environmental hazards
- navigate risk communication and when to recommend specific interventions to reduce exposure to environmental exposures in patients with chronic lung disease

There is a pressing need to understand the evidence for personal exposure interventions for people with chronic lung disease, particularly in the context of worsening air quality days from pollen and wildfire smoke. This session highlights the pros and cons of 3 different personal exposure interventions, (1) HEPA air filtration, (2) N95 respirators, and (3) exercise limitation on poor air quality days. Through this session, we will identify key knowledge gaps, highlight benefits, and provide practical guidance on how clinicians can counsel their patients

9:15 Our Changing Environment and Implications for Lung Health

9:30 A Patient's Perspective

9:25 PRO: "I Should Recommend that My Patient Purchase a HEPA Air Purifier for Their House."

- 9:37 CON: “I Should Recommend that My Patient Purchase a HEPA Air Purifier for Their House.”
- 9:49 PRO: “I Should Advise My Patients to Avoid Exercising When the Air Quality Is Poor.”
- 10:01 CON: “I Should Advise My Patients to Avoid Exercising When the Air Quality Is Poor.”
- 10:13 PRO: “I Should Recommend that My Patient Wears a N95 Outside During High Pollutant Events.”
- 10:25 CON: “I Should Recommend that My Patient Wears a N95 Outside During High Pollutant Events.”
- 10:37 Question and Answer Period

BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

B8 PULMONARY VIRUS INFECTIONS ACROSS THE LIFESPAN

Assemblies on Pulmonary Infections and Tuberculosis, Allergy, Immunology and Inflammation, Pediatrics, Respiratory Cell and Molecular Biology, Respiratory Structure and Function

9:15 a.m. - 10:45 a.m. Moscone Center

Room 2001/2003 (West Building, Level 2)

Target Audience

Basic and translational researchers; clinical scientists; fellows

- Objectives
- At the conclusion of this session, the participant will be able to:
- discuss recent advances in understanding the immunopathogenesis of respiratory virus infections across the lifespan
  - develop new strategies to study respiratory viral disease within the context of immuneaging
  - identify opportunities for innovative collaborations aimed at advancing knowledge on respiratory virus infections across the lifespan

This symposium will explore host responses to pulmonary viral infections throughout different stages of life. Leading experts on respiratory viruses-including respiratory syncytial virus (RSV), rhinovirus (RV), influenza A virus (IAV)-will analyze variations in viral pathogenesis and host outcomes among pediatric, adult, and geriatric populations. Special emphasis will be placed on

- dynamics of host immunity during infection, highlighting the role of immunoaging in shaping disease manifestations.
- 9:15 Consideration of Age in Respiratory Virus Infections
  - 9:17 Impact of Age on RSV Infection, Pathogenesis and Treatment
  - 9:39 Rhinovirus: Complications of Early Life Infection
  - 10:01 Respiratory Viruses in the Development of COPD
  - 10:23 Immune System Changes in the Lungs with Age

CLINICAL

SCIENTIFIC SYMPOSIUM

B9 CONTEMPORARY DISEASE-MODIFYING THERAPIES: UPDATES FOR THE PEDIATRIC PULMONOLOGIST

Assemblies on Pediatrics, Sleep and Respiratory Neurobiology

9:15 a.m. - 10:45 a.m. Moscone Center

Room 3020 (West Building, Level 3), Moscone Center

Target Audience

Providers of lung health; Pediatric providers; Providers for people with neuromuscular disorders and sickle cell disease; individuals with clinical and research responsibilities

- Objectives
- At the conclusion of this session, the participant will be able to:
- define new strategies to manage the respiratory care of children with spinal muscular atrophy, Duchenne muscular dystrophy, Pompe disease, and sickle cell disease
  - better counsel patients regarding the respiratory impacts of disease-modifying therapies in spinal muscular atrophy, Duchenne muscular dystrophy, Pompe disease, and sickle cell disease
  - improve equitable access to disease-modifying therapies within a global context

The paradigms of care for multisystem pediatric disorders including spinal muscular atrophy, Duchenne muscular dystrophy, Pompe disease, and sickle cell disease are shifting as disease-modifying therapies become increasingly available and attenuate the natural trajectory of decline. Respiratory monitoring and treatment are evolving. Although these conditions are individually rare, they collectively represent a growing group of pediatric multisystem



disorders that have seen rapid treatment advances generally outpacing the generation of robust respiratory outcome data. This session will review the current literature on respiratory outcomes and management in these emerging populations while also highlighting issues related to health equity.

- 9:15 Understanding Patient and Caregiver Experiences Accessing Disease-Modifying Therapies**
- 9:28 A Patient's Perspective**
- 9:33 Reassessing Respiratory Care for Spinal Muscular Atrophy in the Era of Disease Modifying Therapies**
- 9:45 Respiratory Health in Duchenne Muscular Dystrophy: The Impact of Disease-Modifying Therapies**
- 10:00 Pompe Disease Therapies: Updates for the Pediatric Pulmonologist**
- 10:15 Pulmonary Outcomes in Sickle Cell Disease: A Changing Landscape**
- 10:30 Panel and Audience Discussion**

## CLINICAL

## SCIENTIFIC SYMPOSIUM

### **B10 BLOOD BASED BIOMARKERS FOR LUNG CANCER SCREENING: FIVE QUESTIONS (AND ANSWERS) TO MOVE THE FIELD FORWARD**

**Assemblies on Thoracic Oncology, Clinical Problems**

**9:15 a.m. - 10:45 a.m.**

**Moscone Center**

**Room 201-202 (South Building, Level 2)**

#### **Target Audience**

Providers of lung health, lung cancer screening interdisciplinary teams, policy and regulatory, clinical research, health equity researchers and providers

#### **Objectives**

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

- contextualize emerging blood-based biomarker tests for early lung cancer detection in terms of their performance, evaluation, and evidence requirements
- have a valuable framework for understanding this emerging field
- evaluate independently the claims and performance of the test, help patients understand the role of these tests and when they may be relevant and helpful, and interpret their results

Despite convincing randomized clinical trials of lung cancer screening, lung cancer screening rates remain low both in the United States and globally. Recent technological advances have suggested that blood-based tests might provide an alternative means of early detection, providing a potential avenue to increasing screening rates among the current screening-eligible population, reducing barriers to access in remote and rural communities, and potentially serving as a means of evaluating individuals whose risk of lung cancer is lower than current criteria. The session will serve an important need, updating attendees.

- 9:15 Introduction**
- 9:20 How Should the Clinical Validation Endpoints for Biomarker Screening Tests Be Defined, and What Is Their Timing?**
- 9:33 How Do the Performance Characteristics of a Screening Biomarker Affect Screening Uptake? Projecting the Impact on Population Health Outcomes**
- 9:46 What Metrics Are Necessary to Assess the Clinical Utility of Biomarkers for Lung Cancer Screening?**
- 9:59 What Is the Current Status of Lung Cancer Screening Biomarkers**
- 10:12 Will the Routine Use of Biomarker Screening Tests Lead to Reduced or Exacerbated Health Inequities?**
- 10:25 Discussion**

*This session and the International Conference are supported by an independent medical educational grant from  
**Merck & Co., Inc.***

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## TRANSLATIONAL

## CLINICAL TOPICS IN PULMONARY MEDICINE

### **B11 BIOMARKERS IN PULMONARY FIBROSIS: GLEANING THROUGH AN OMICS LENS**

**Assemblies on Clinical Problems, Respiratory Cell and Molecular Biology**

**9:15 a.m. - 10:45 a.m.**

**Moscone Center**

**Room 304 (South Building, Level 3)**

**Target Audience**

Clinicians and Clinical and Translational Scientists involved in treating and studying chronic lung diseases

**Objectives**

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

- describe the disease heterogeneity and differential prognoses and endotypes that exists within pulmonary fibrosis using omics methods.
- discuss the utility of omics in understanding individualized disease trajectories and in developing targeted treatments in pulmonary fibrosis
- integrate of multi-omics and the promise of precision medicine in pulmonary fibrosis

Pulmonary fibrosis continues to be a chronic fatal disease with heterogenous outcomes and limited effective treatment options. Recent advances in genomic, transcriptomic, proteomic, metabolomic and radiomic technology have led to a rapid proliferation of investigations utilizing these platforms to study pulmonary fibrosis. This work has shed important light on the heterogeneity of molecular phenotypes and identifying clinically relevant biomarkers for differential survival and treatment effects. This scientific symposium will highlight key findings across the genome, transcriptome, proteome and radiome that have advanced our understanding of pulmonary fibrosis.

**9:20 A Patient's Perspective****9:25 Genomics and Transcriptomics- PRS-ing Forward and sTRS-ing on the Genetic Variation in PF****9:40 Audience Questions & Discussion****9:45 Glimpsing at the 'Protean' Manifestations of PF****10:00 Audience Questions & Discussion****10:05 Metabolomics- Taking the Fuel Out of the Fire****10:20 Audience Questions & Discussion****10:25 Radiomics - Looking Beyond the White and Gray****10:40 Wrap Up****BEHAVIORAL • CLINICAL****SCIENTIFIC SYMPOSIUM**

## **B13 ATS PRESIDENT'S SYMPOSIUM: ALPHA-1 BREAKTHROUGHS: NEW DISCOVERIES IN MECHANISMS, DIAGNOSIS & TREATMENT OF LUNG DISEASE IN ALPHA 1 ANTITRYPSIN DEFICIENCY**

**9:15 a.m. - 10:45 a.m.**

**Moscone Center**

**Room 211-212 (South Building, Level 2)**

**Objectives**

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

- understand trajectory of disease progression in AATD. This understanding underscores the need for early detection and initiation of treatment
- improve understanding of current screening guidelines for AATD lung disease
- educate patients about currently available therapies and ongoing clinical trials

AATD is a significant and treatable cause of COPD/emphysema that is significantly underdiagnosed despite clear guidelines recommending screening of all individuals diagnosed with COPD. After over 30 years of study, critical gaps remain in understanding of patient needs, disease pathogenesis, and application of screening guidelines that will educate researchers and clinicians to better care for their COPD and AATD patients. However, recent studies have revealed previously unappreciated mechanisms associated with AATD-emphysema as well as critical data delineating disease trajectory that could inform clinical trial design and have implications for treatment. In addition, novel therapeutic approaches have been developed and have entered or are nearing clinical trials. To succeed, these trials need established endpoints and biomarkers of disease severity and progression that depend on understanding disease mechanisms. Efforts to establish biomarkers are underway, in part through an NHLBI-funded and Alpha-1 Foundation led consortium. This symposium will directly explore these critical gaps in understanding in relation to emerging data and their associated implications for clinical trials. As a result of attending this program, learners will understand the current knowledge of lung disease mechanisms, the trajectory of AATD-associated lung disease, existing treatment modalities, and the clinical trial landscape.

- 9:15 What is the Mechanism of Injury in AATD Lung Disease?
- 9:28 Monocyte-Endothelial Crosstalk in COPD and AATD
- 9:40 Adaptive Immune Dysregulation in AATD Lung Disease
- 9:52 Targeted Detection and Screening for AATD- Are We Close Yet?
- 10:05 What Have We Learned from Augmentation Therapy Trials: From 1988-Present
- 10:19 Next-Generation Therapies for a Monogenic Lung Disease
- 10:31 Clinical Trial Endpoints for AATD, CT Densitometry, and the A1BC

**CLINICAL****LATE BREAKING MINI SYMPOSIUM**

## **B14 FROM INFLAMMATION TO INFECTION: EXPLORING BREAKTHROUGHS IN AIRWAYS DISEASE**

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

Room 24, Hall E (North Building, Exhibition Level)

- 9:15 Treatment of Viral-induced Acute Respiratory Distress Syndrome (ARDS) With Vilobelimab: A Focus on C5a Inhibition
- 9:27 Effect of a Comprehensive Antibiotic Stewardship Programme on Antibiotic Prescribing for Acute Respiratory Infections in China's Rural Primary Care Facilities: A Cluster-randomised Controlled Trial
- 9:39 Results From Airflow-3: Randomized, Double Blind, Sham Controlled Study of Targeted Lung Denervation in Patients With COPD
- 9:51 First in Human, Multicenter Experience With Airway Scaffolds for Emphysema-related Hyperinflation
- 10:03 Ganciclovir to Prevent Reactivation of Cytomegalovirus in Patients With Sepsis-associated Acute Respiratory Failure: A Phase 3 Randomized Placebo-controlled Trial
- 10:15 Early Multiomic Signals of Severe Bronchopulmonary Dysplasia in Extremely Low Birthweight Premature Infants

- 10:27 Asthma Link: A Pilot Pragmatic Clinical Trial of School-Supervised Asthma Therapy to Improve Pediatric Asthma Morbidity
- 10:39 A Bispecific Monoclonal Antibody Targeting Psl and PcrV for Chronic Pseudomonas Aeruginosa Infection in Patients With Bronchiectasis: Results From a Randomized, Double-Blind Placebo-Controlled Trial (GREAT-2)
- 10:51 DNA Hypermethylation Correlates With Improving Lung Function During Tuberculosis Therapy
- 11:03 Number of Pulmonary Rehabilitation Sessions Predicts 1-year Survival in Persons With COPD

**BASIC • TRANSLATIONAL****MINI SYMPOSIUM**

## **B15 MACROPHAGES: THE PAC-MAN OF THE IMMUNE SYSTEM**

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

Room 2009/2011 (West Building, Level 2)

- 9:15 Macrophage Lipidomic Reprogramming Governs Profibrotic Signaling in IPF
- 9:27 Pleural Cavity-resident B Cells and Macrophages Form Immune Scaffolds on the Lung Surface in Response to Bacterial Stimuli
- 9:39 Mitochondrial Fusion Protein-mediated Interaction Between Lung Macrophages and Type 2 Alveolar Epithelial Cells Prevents Lung Injury and Deleterious Kidney-lung Crosstalk
- 9:51 Leukotriene A4 Hydrolase Aminopeptidase Activation Enhances Macrophage Engulfment of Neutrophils During Klebsiella Pneumonia Infection
- 10:03 Macrophage Mechanosensor TRPV4-NF-κB Interaction Inhibits Bacterial Pneumonia-Induced Lung Injury
- 10:15 Inhibiting Hypoxic Macrophages for Effective Pulmonary Fibrosis Intervention
- 10:27 Inhaled Microplastics Inhibit Tissue Maintenance Functions of Pulmonary Macrophages
- 10:39 Disparate Immune Roles of Lung Interstitial Macrophage Subpopulations During and After Pneumococcal Infection

- 10:51 Autologous Precision-Cut Lung Slice Co-Culture Models For Studying Macrophage-driven Fibrosis
- 11:03 Differences in Expression of Metabolism-related Genes Between Lung Macrophage Subsets

## BASIC • CLINICAL • TRANSLATIONAL

## MINI SYMPOSIUM

**B16 SUBPHENOTYPING ARDS: FROM THE WHOLE PERSON DOWN TO THE CELL**

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

Moscone Center

Room 3006/3008 (West Building, Level 3)

- 9:15 Inflammatory Phenotypes Can Be Prospectively Identified at the Bedside in Patients With the Acute Respiratory Distress Syndrome; Results From a Multicenter, Prospective, Observational Cohort Study
- 9:27 Unsupervised Multi-Omic Factor Analysis Independently Recapitulates the Inflammatory Subphenotypes of ARDS
- 9:39 Unveiling Alveolar Subphenotypes in COVID-19 ARDS: Unique Inflammatory Profiles Independent of Systemic Subphenotypes
- 9:51 Upregulation of the NAIP/NLRC4 Inflammasome and Dysregulation of the IL-18 Axis Are Associated With the Onset and Severity of Acute Respiratory Distress Syndrome
- 10:03 Conserved Plasma Proteomics Signatures of Early Respiratory Outcomes Across COVID-19 and Non-COVID-19 Acute Respiratory Failure
- 10:15 In Critically Ill Children With Acute Respiratory Failure the Hyperinflammatory Subphenotype Is Associated With Increasing Organ System Failure Trajectories Over Time
- 10:27 Prognostic Value of the Hyperinflammatory Phenotype Declines Over the Course of Critical Illness
- 10:39 Probabilities Over Binaries: Refining Inflammatory Sub-phenotypes in Acute Respiratory Failure
- 10:51 Static Compliance of the Respiratory System Is a Genetically Regulated Quantitative Trait in Sepsis-Associated Acute Hypoxemic Respiratory Failure

- 11:03 Machine Learning Identification of Transcriptional Signatures for Predicting Sepsis-Associated Acute Respiratory Distress Syndrome

## BEHAVIORAL • CLINICAL • TRANSLATIONAL

## MINI SYMPOSIUM

**B17 THE POWER OF TEAM SCIENCE: INTERDISCIPLINARY APPROACHES TO PULMONARY AND CRITICAL CARE**

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

Moscone Center

Room 3014/3016/3018 (West Building, Level 3)

- 9:15 Looking Back to Light the Way: The Power of Team Science
- 9:27 Self-management of Sedative Therapy Among Mechanically Ventilated Intensive Care Unit Patients: A Two-group Randomized Clinical Trial
- 9:39 Exploring Perspectives on Family Health Literacy in ICU Settings: A Qualitative Study
- 9:51 One of Us. The Value of Having a Team Therapist to Support Nursing Staff in Critical Care Areas
- 10:03 The Impact of Reconnecting With Survivors After Critical Illness on Clinical Practice and Job Satisfaction in Nursing: A Mixed-Methods Survey
- 10:15 Associations Between Recalled Memories of the ICU Stay, Delirium, and Mental Health Outcomes in Critical Illness Survivors at 1-month Follow-up in a Critical Illness Recovery Center
- 10:27 Feasibility, Acceptability and Preliminary Efficacy of an Acceptance and Commitment Therapy and Empowerment-based Asthma Management Intervention for School-age Children With Asthma and Their Parents: A Pilot Randomized Controlled Trial
- 10:39 Dyspnea Linked to Emphysema-related Clinical, Spirometric, and Quantitative Chest Imaging Features in Individuals With a History of Smoking
- 10:51 Self-reported Inhaled Corticosteroid Adherence, Inhaled Corticosteroid Beliefs, and Endorsement of Nonpharmacologic Management of Asthma Among Black Adults Enrolled in a Randomized Clinical Trial in Federally Qualified Health Centers



**11:03** Feasibility of Home Air Quality Monitoring in Homes of Black Adults Living in New York City Receiving Care for Uncontrolled Asthma in a Federally Qualified Health Center

### BEHAVIORAL • CLINICAL • TRANSLATIONAL

#### MINI SYMPOSIUM

### B18 BEST IN PEDIATRICS

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

Moscone Center

Room 2018/2020 (West Building, Level 2)

- 9:15** Childhood Asthma Trajectories Across Eleven Danish Birth Cohorts: Predictors of Asthma Remission and Persistence - A Nationwide DAIRE Study
- 9:27** Infant Infection With Respiratory Syncytial Virus Genotypes Containing a G Gene Sequence Duplication Increase Childhood Asthma Risk
- 9:39** Serum Proteomic Profiles in Children With Acute Respiratory Distress Syndrome Due to Lower Respiratory Tract Infection and Sepsis
- 9:51** MicroRNA Let-7b-5p Is a Biomarker and Potential Therapeutic Target in Bronchopulmonary Dysplasia
- 10:03** Assessing Cardiovascular Risk Through Hypoxic Burden in Children With Sleep Apnea: Results From the Kids-trial Study
- 10:15** Tissue-resident Alveolar Macrophages as Drivers of Sex-specific Differences Across the Lifespan
- 10:27** Sex Chromosome Dosage as a Mechanism of Male Vulnerability in Neonatal Hyperoxic Lung Injury: Implications for Bronchopulmonary Dysplasia
- 10:39** Increasing Maternal Polyphenol Intake Is Associated With Decreased Risk of Early Persistent and Transient Preschool Wheeze
- 10:51** Analyzing Respiratory Cilia Dynamics in Relation to Bronchopulmonary Dysplasia Severity
- 11:03** Featured Speaker: From Challenges to Opportunities: Lessons Learned While Building a Research Career in Pediatric Pulmonology

### BASIC • TRANSLATIONAL

#### MINI SYMPOSIUM

### B19 ON LOMBARD STREET: CELLULAR PATHOPHYSIOLOGY OF PULMONARY VASCULAR DISEASE: FROM EPIGENETIC AND MOLECULAR DRIVERS TO TREATMENT TARGETS

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

Moscone Center

Room 3001/3003 (West Building, Level 3)

- 9:15** Targeting Pulmonary Endothelial NEDD9 in Acute Lung Injury
- 9:27** LINC03047 Promotes Hypoxia-induced Pulmonary Hypertension by Regulating hnRNP-mediated Pulmonary Artery Smooth Muscle Cell Mitophagy
- 9:39** The RNA M<sup>6</sup>A Demethylase, Fto, Regulates Smooth Muscle Cell Proliferation in the Pathogenesis of Pulmonary Arterial Hypertension Via Regulating FoxM1 Mrna Stability
- 9:51** Integrative Analysis of Single-cell and High-resolution Spatial Transcriptomics in Human Pulmonary Arterial Hypertension
- 10:03** Pericyte Transition and Contribution to Vascular Remodeling in Hypoxia Induced Pulmonary Hypertension
- 10:15** 17 $\beta$ -estradiol Enhances Right Ventricle Angiogenesis and Endothelial Cell Fatty Acid Oxidation in PAH in a Carnitine Palmitoyltransferase 1-dependent Manner
- 10:27** Glucose-6-phosphatase Catalytic Subunit 3 Deficiency: Abnormalities in Endothelial Cell Metabolism Reveal Potential Mechanisms Underlying Pulmonary Arterial Hypertension
- 10:39** Mendelian Randomization and Experimental Approach Identify CTSA and PPT1 as Promising Treatment Targets for Pulmonary Arterial Hypertension
- 10:51** Hepatic Inflammation and BMP9 Dysfunction in Pulmonary Arterial Hypertension
- 11:03** A Long-range Chromatin Interaction Regulates TGS1 in Controlling Inflammatory Pathogenesis of Pulmonary Arterial Hypertension

## CLINICAL

## MINI SYMPOSIUM

**B20 NTM, BRONCHIECTASIS, AND THE QUEST TO UNDERSTAND: A STORY OF LUNGS AND LOVE**

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

Room 3000/3002/3004 (West Building, Level 3)

- 9:15 A Phase 2, Double-blind, Randomized, Placebo-controlled, Multi-center Study to Evaluate the Efficacy, Safety, and Tolerability of Oral Omadacycline in Adults With Nontuberculous Mycobacterial Pulmonary Disease (NTM PD) Caused by Mycobacterium Abscessus "A Phase 2, Double-blind, Randomized, Placebo-controlled, Multi-center Study to Evaluate the Efficacy, Safety, and Tolerability of Oral Omadacycline in Adults With Nontuberculous Mycobacterial Pulmonary Disease (NTM PD) Caused by Mycobacterium Abscessus Complex (MABc)"
- 9:27 Lower Airway Dysbiosis in Nontuberculous Mycobacterial Lung Disease Drives a Neutrophil Extracellular Trap-endotype and Lung Injury
- 9:39 Association of Soluble Programmed Death-1 Protein With Disease Severity in Nodular Bronchiectatic Nontuberculous Mycobacterial Lung Disease: A Multinational Study in Asia
- 9:51 Whole Blood Transcriptomics Characterize Molecular Phenotypes of Pulmonary Mycobacterium Avium Complex Disease
- 10:03 Healthcare Resource Utilization Associated With Treatment for Refractory Mycobacterium Avium Complex Lung Disease: Comparison of Amikacin Liposome Inhalation Suspension (ALIS) vs Non-ALIS Antibiotic Treatment
- 10:15 Non-tuberculous Mycobacteria in Patients With Severe Eosinophilic Asthma Under Biological Treatment
- 10:27 Longitudinal Health Status Improvements Following Culture Conversion in Patients With Mycobacterium Avium Complex Lung Disease

- 10:39 Gut Microbiome Signatures Discriminate Nontuberculous Mycobacterial Pulmonary Disease Patients Requiring Treatment From Those With Stable Disease
- 10:51 Bronchiectasis Exacerbations and Association With Neighbourhood Health and Socioeconomic Status
- 11:03 Inhaled Anticholinergics in Bronchiectasis: Prescribing Practices, Exacerbations, and Culture Data From the US Bronchiectasis and Nontuberculous Mycobacterium Research Registry

## CLINICAL

## MINI SYMPOSIUM

**B21 EQUITY, EFFECTIVENESS AND EXPERIENCE IN PR**

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

Room 2014/2016 (West Building, Level 2)

- 9:15 What Respiratory Services Are Available in Aboriginal Community Controlled Health Services in NSW, Australia?
- 9:27 Exploring Pulmonary Rehabilitation Programs Implemented and Conducted in Latin America for People With Chronic Respiratory Conditions: A Scoping Review
- 9:39 How Global Are Globally Oriented Pulmonary Rehabilitation Studies? Recommendations to Promote Equitable Participation From Low- and Middle-Income Countries: A Systematic Review
- 9:51 Ethnicity Based Differences in Healthcare Utilization and Diagnosis after Presentation with Breathlessness: A Cohort Study Using UK Primary Care Healthcare Records
- 10:03 Racial and Ethnic Disparities in Pulmonary Rehabilitation Utilization Among COPD Patients With Exacerbations
- 10:15 Effects of Symptom-based Rehabilitation (REHAB) vs. Usual Care in People With Post COVID-19 Condition by Symptom Clusters: The Reload Randomized Controlled Trial (RCT)
- 10:27 Participants' Perspectives on Joining a Virtual Rehabilitation Program for Long COVID: A Qualitative Study

- 10:39    Assessing Personalized Approaches and Patient Factors in Long COVID Fatigue
- 10:51    Veterans Affairs-based Multi-modal Lung Cancer Survivorship Program: A 12-month Follow-up Study on Effectiveness and Durability
- 11:03    The Lived Experiences of Patients With Early Stage Non-small Cell Lung Cancer Following Surgery: A Rapid Ethnographic Approach

BASIC • CLINICAL • TRANSLATIONAL

RAPID POSTER DISCUSSION SESSIONS

B22    COPD: THE AGE OF OMICS

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

Moscone Center

|   |  |
|---|--|
| Room 2022/2024 (West Building, Level 2) |  |
| Viewing/Abstract Summaries              | 9:15-10:00   |
| Discussion                              | 10:00-11:15  |
| 801                                     | Single Nucleotide Variants in the Fc Receptor for IgG Are Associated With COPD Severity and Exacerbations in African American Participants From COPDGene and SPIROMICS   |
| 802                                     | Leveraging Transcriptomic Data to Investigate the Biology of IL13 and TSLP in COPD   |
| 803                                     | Clinical and Inflammatory Phenotypes of Patients Hospitalized for Acute Exacerbations of COPD: Associations With In-Hospital Outcomes and Immuno-Inflammatory Mechanisms |
| 804                                     | Assessing Inflammatory Protein Biomarkers in COPD Subjects With and Without Alpha-1 Antitrypsin Deficiency   |
| 805                                     | Unraveling the Role of Cell-free DNA as a Biomarker in Chronic Obstructive Pulmonary Disease (COPD) Exacerbations  |
| 806                                     | Metabolomic Profiling Reveals Distinct and Common Biological Pathways in COPD and IPF  |
| 807                                     | Gene Expression Profile of Change in Exacerbation Frequency in COPDGene  |
| 808                                     | Multi-Cohort Analysis of Airway Epithelial Cells Identifies Early Biomarkers of COPD in Smokers  |
| 809                                     | Integration of Genetics and Cell-type Specific Gene Expression in COPD   |

- 810    Mass Cytometry (CYTOF) Analysis of Human Lung Tissue Identifies Novel Myeloid Subpopulations With Potential Links to COPD Pathogenesis

BEHAVIORAL • CLINICAL

POSTER DISCUSSION SESSION

B23    DIFFUSE LUNG DISEASE AND PULMONARY HYPERTENSION: CLINICAL PERSPECTIVES

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

Moscone Center

|   |  |
|---|--|
| Room 3022/3024 (West Building, Level 3) |  |
| Poster Viewing                          | 9:15-10:00   |
| Discussion                              | 10:00-11:15  |
| 1001                                    | A Pilot Feasibility Study of LAMFit: A Remote, Community-based Digital Exercise Program for Lymphangioleiomyomatosis   |
| 1002                                    | Identifying and Addressing Barriers to Educating Patients About Scleroderma-related Interstitial Lung Disease; An International Delphi Consensus   |
| 1003                                    | How Patients Experience Communication With Physicians About the Future With Lung Disease Among Veterans With Chronic Lung Disease  |
| 1004                                    | Clinical Outcomes of Patients With Idiopathic or Lymphocytic Hypereosinophilic Syndrome in the United States: A Real-world Retrospective Observational Cohort Study                          |
| 1005                                    | Patient and Provider Perspectives on Quality of Pulmonary Hypertension Care: A Multi-site Qualitative Study  |
| 1006                                    | Real-world Treatment Patterns of Patients With Systemic Autoimmune Rheumatic Disease-associated Interstitial Lung Disease After Progression in the United States                             |
| 1007                                    | Real-world Healthcare Resource Utilization and Economic Burden Associated With Idiopathic Pulmonary Fibrosis in Commercially Insured and Medicare Advantage Populations in the United States |
| 1008                                    | Perspectives of Clinical Trial Participation Among Minoritized People With Cystic Fibrosis   |

- 1009 Reduction of Methicillin-resistant Staphylococcus Aureus (MRSA) Acquisition in Patients With Cystic Fibrosis: Single-center Quality Improvement Project
- 1010 Polypharmacy and Potentially Inappropriate Medication (PIM) Use Among Older Veterans With Idiopathic Pulmonary Fibrosis (IPF) - A Retrospective Cohort Study
- 1011 Management of Interstitial Lung Disease in People With Systemic Autoimmune Rheumatic Diseases: An Interdisciplinary Physician Survey
- 1012 Lung Transplant Decision-making for People With Cystic Fibrosis
- 1013 Complex Interactions of Social Determinants of Health on Survival Outcomes in Hispanic Patients With Pulmonary Arterial Hypertension in a US-Mexican Border City
- 1014 Pulmonary and Critical Care Fellowship Experiences in Pulmonary Hypertension Education
- 1015 Exploring the Barriers and Facilitators to Implementation of a Relationship-Centered Communication Training Program in Multidisciplinary Cystic Fibrosis Care
- 1016 Investigating Associations Between King Sarcoidosis Questionnaire Scores and Physician Assessment of Sarcoidosis Severity
- 1017 Geographic and Socioeconomic Disparities in Interstitial Lung Disease Presentation in a Single-center Cohort
- 1018 Quantifying the Impact of Pulmonary Arterial Hypertension (PAH) on Health-related Quality of Life (HRQoL), Work Productivity, and Economic Stability for Patients and Their Caregivers
- 1019 The Impact of Social Determinants of Health on Perceived Stress and Fatigue in Sarcoidosis
- 1020 Perceptions, Attitudes and Behaviors Among Women of Childbearing and Childrearing Age With Pulmonary Arterial Hypertension
- 1021 Comparing the Burden of Pulmonary Arterial Hypertension (PAH) Among Women Across Regions: A Patient Survey
- 1022 Qualitative Interviews of Patients With Methamphetamine-associated Pulmonary Arterial Hypertension: Understanding the Unmet Medical Need From the Patient Lens

- 1023 Incidence of Outpatient Advance Care Planning and/or Palliative Care for Patients With Idiopathic Pulmonary Fibrosis: 2016-2021
- 1024 Epidemiology of Combined Pulmonary Fibrosis and Emphysema (CPFE) Among a National Cohort of United States Veterans

## CLINICAL

## POSTER DISCUSSION SESSION

### B24 EPIDEMIOLOGICAL ADVANCES IN ILD

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

Moscone Center

Room 2006/2008 (West Building, Level 2)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

- 701 Pulmonary Vasculopathy Is Associated With Worse Outcomes Among COPD Gene Participants With Interstitial Lung Abnormalities
- 702 Higher BMI Is Associated With Improved Survival but Greater Fatigue and Dyspnea: A Pulmonary Fibrosis Foundation Registry Study
- 703 Challenging the Role of Forced Vital Capacity in Interstitial Lung Disease (ILD) Trials: A Meta-Regression Analysis to Evaluate the Association Between Forced Vital Capacity Change and Mortality in ILD Treatment Arms
- 704 Sarcopenic Obesity Is Associated With Frailty, Reduced Exercise Capacity, and Reduced Forced Vital Capacity in Adults With Interstitial Lung Disease
- 705 Interstitial Lung Abnormalities, Coronary Heart Disease, and All-Cause Mortality
- 706 Research on the Development of a Real-time Clinical Decision Support System Utilizing Artificial Intelligence for the Analysis of Clinical Phenotypes, Quantitative Grading, and Prognostic Prediction in Combined Pulmonary Fibrosis and Emphysema Syndrome
- 707 Early Experience of a Dedicated Clinical Pathway for Interstitial Lung Abnormalities (ILAs)
- 708 Use of Nintedanib in Patients With Idiopathic Pulmonary Fibrosis in the USA: Analysis of Claims Data



- 709 Variability of Criteria Used to Confirm Progressive Pulmonary Fibrosis: Results From a Real-World Survey
- 710 Development of a Predictive 6 Minute Walk Score in Patients With Idiopathic Pulmonary Fibrosis
- 711 Investigating Cough Bouts in Idiopathic Pulmonary Fibrosis (IPF)
- 712 Systematic Review: Reporting of Race and Ethnicity in Interstitial Lung Disease Research
- 713 Machine Learning Predicts Mortality in Patients With Systemic Sclerosis-Associated Interstitial Lung Disease From Electronic Health Record Data
- 714 Large Language Models as Tools for Clinical Guideline Development
- 715 Disease Progression Modeling Identifies a Conserved Pattern of Lung Function Decline in Familial Pulmonary Fibrosis
- 716 Impact of Physician Engagement in Clinical Trial Advocacy and Participation in Patients With Idiopathic Pulmonary Fibrosis
- 717 Increased Risk of Interstitial Lung Disease in Psoriatic Arthritis: A Nationwide Cohort Study
- 718 Disease Severity at Index Diagnosis Among a National Cohort of Veterans With Idiopathic Pulmonary Fibrosis
- 719 DeSTILD: Development of a Screening Tool for Interstitial Lung Disease
- 720 Integrating Interstitial Lung Abnormality Detection Into Lung Cancer Screening: A Mixed Methods Approach for Care Pathway Development
- 721 Relative Importance of Computed Tomography Features Used by Expert Radiologists to Identify Radiologic Patterns in Interstitial Lung Disease
- 722 Social Disparities and Community Resilience in ILD-Related Mortality Across US Counties
- 723 Influence of Sociodemographic Characteristics on Clinical Trial Participation Among Patients With Idiopathic Pulmonary Fibrosis
- 724 Higher Acute Exposure to Air Pollution Is Associated With Respiratory Hospitalizations in Idiopathic Pulmonary Fibrosis: Data From the IPF-PRO Registry
- 725 Natural Language Processing-based Screening for Interstitial Lung Disease Reduces Referral Delay

**CLINICAL • TRANSLATIONAL****POSTER DISCUSSION SESSION****B25 CLINICAL STUDIES IN COPD: NEW FINDINGS**

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

Moscone Center

Room 2002/2004 (West Building, Level 2)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

- 601 Frailty Is Linked With Inflammatory Pathways in Integration of Blood Proteomics and Epigenetics in the COPD Gene Study
- 602 FUT2 Non-secretor Status Is Associated With Increased Future Risk and Airway Microbial Network Disturbance in COPD
- 603 Increased Exacerbations and Hospitalizations Among PI\*MM Compared to PI\*MM Individuals: An Electronic Health Record Analysis
- 604 Social Determinants of Health Contribute to Adverse Clinical Outcomes in COPD Patients With Sarcopenia and Frailty
- 605 Impact of Neighborhood Social Disparity on COPD Prevalence in the US
- 606 Breathless Under Pressure: The Association Between Stress Levels and Symptom Burden in COPD Patients From the Spiromics Cohort
- 608 Causal Associations Between Chronic Obstructive Pulmonary Disease and Comorbidities: A Mendelian Randomization and Longitudinal Study
- 609 Comparison Between GIP/GLP-1 Co-agonists and GLP-1 Agonists on Pulmonary Outcomes in COPD Patients
- 610 The Cost Impact of Informal Care for Patients With COPD and Exacerbations in the Netherlands
- 611 Prevalence of COPD With Frequent Exacerbations and Biomarkers of Type 2 Airway Inflammation in a Real-world Setting
- 612 Machine Learning Reveals the Clinical Features of Eosinophilic Acute Exacerbation of Chronic Obstructive Pulmonary Disease: A Multicenter Cross-Sectional Study

- 613 Combined Assessment Tool to Identify High-risk Individuals to Predict Severe Exacerbations in a UK Multi-centre Chronic Obstructive Pulmonary Disease Cohort
- 614 A Multicentre Study to Evaluate the Diagnostic Accuracy of a CAD AI Software Decxpert in Detecting COPD on Chest X-Rays
- 615 Comparison of Individual and Composite Measures to Assess Disease Stability over Time in Patients with COPD Treated with Fluticasone Furoate/Umeclidinium/Vilanterol: A Post Hoc Analysis
- 616 Parameter D and Treatment Effects of LAMA/LABA in COPD
- 617 Assessing the Risks of Exacerbations and Mortality Among COPD Patients in the Global Initiative for Chronic Obstructive Lung Disease Category E Based on Blood Eosinophils Level and Smoking Status
- 618 Social Determinants of Health and 30-Day Readmissions or Emergency Department Visits Among Adults Hospitalized for COPD in the REGARDS Study
- 619 The Relationship Between the Timing of Budesonide/Glycopyrronium/Formoterol Fumarate (BFG) Initiation Following an Exacerbation and the Occurrence of Subsequent Exacerbations in a Real-World Setting: MITOS EROS (Japan) Study
- 620 Community-Based COPD Screening Using Simplified Spirometry
- 621 Efficacy of a Hands-free, Breath Regulating, Positive Expiratory Pressure Device in Advanced Cystic Fibrosis - A Pilot Study
- 622 Temporal Variability in Eosinophil Count Among Newly Diagnosed Patients With COPD in the CAPTURE Study
- 623 Variation in Blood Eosinophil Counts and Frequency of Exacerbations in Patients With COPD Over One Year Follow-up
- 624 Comorbidity Burden and All-cause Mortality in Current and Former Smokers With COPD

**BEHAVIORAL • CLINICAL • TRANSLATIONAL**
**RAPID POSTER DISCUSSION SESSIONS**
**B26 ORACLE PARK: VASCULAR ABNORMALITIES, RISK STRATIFICATION, AND CLINICAL MANAGEMENT OF PULMONARY HYPERTENSION**

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

Moscone Center

Room 301-302 (South Building, Level 3)

Viewing/Abstract Summaries

9:15-10:00

Discussion

10:00-11:15

- 401 Elevated Microplastic Particles Are Detected in the Plasma of Patients With Pulmonary Embolism and Is Correlated With Simplified Pulmonary Embolism Severity Index
- 402 Eicosanoids and Related Bioactive Lipids Signature of Chronic Thromboembolic Pulmonary Hypertension and Chronic Thromboembolic Disease
- 403 Comparative Efficacy of Pharmacological Treatments for Inoperable Chronic Thromboembolic Pulmonary Hypertension: A Network Meta-analysis
- 404 Episcleral Vascular Abnormalities in Idiopathic/hereditary Pulmonary Arterial Hypertension: Clinical Significance and Genetic Implications
- 405 Association of FOXF1 Genomic Variants With Children and Adults With Pulmonary Arterial Hypertension
- 406 A Refined Definition of Low Risk in Patients With Pulmonary Arterial Hypertension Incorporating Mortality and Morbidity
- 407 Mapping the Chemical Shift of  $^{129}\text{Xe}$  in Red Blood Cells as a Biomarker for Pulmonary Hypertension
- 408 Acute Vasoreactivity Testing Among Pulmonary Arterial Hypertension Patients Enrolled in the Pulmonary Hypertension Association Registry
- 409 Association of Pulmonary Artery Dilation With Pulmonary Artery Pressure and Survival Using Updated Pulmonary Hypertension Hemodynamic Criteria

- 410 The Minimal Important Difference in NT-proBNP in Various Forms of Pulmonary Hypertension
- 411 Survival in Patients With Pulmonary Hypertension Associated With Fibrotic Interstitial Lung Disease Is Independent of ILD Subtype: A London Study
- 412 Prognostic Indicators of Clinical Outcomes in Sarcoidosis-associated Pulmonary Hypertension: Analysis From a Large Single-Center Cohort
- 413 Assessing the Utility of Provocative Maneuvers During Right Heart Catheterization in Pulmonary Venous Hypertension
- 414 Impact of Insurance Type on Treatment Patterns in Pulmonary Arterial Hypertension: The Pulmonary Hypertension Association Registry

### BASIC • CLINICAL • TRANSLATIONAL

### POSTER DISCUSSION SESSION

## **B27 WHEN TB AND THE IMMUNOCOMPROMISED LUNG WALK INTO A ROOM: EVERYONE GETS TB, OR SCIENCE ADDRESSES THE PROBLEM**

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

Moscone Center

Room 213-214 (South Building, Level 2)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

- 301 The Impact of Tobacco Smoking and Smoking Cessation on Lung Cancer and Stroke Incidence Among People With HIV on Antiretroviral Therapy in South Africa: A Simulation Modeling Study
- 302 Menopause Is Associated With Abnormal Spirometry in Ugandans With and Without HIV
- 303 Association of Quantitative CT Airway Metrics With Impaired Lung Function Among Adolescents With HIV in Nairobi, Kenya
- 304 Experimental Human Pneumococcal Carriage in People Living With HIV: A Controlled Human Infection Model (CHIM) in Malawi
- 305 Identifying Immunosuppressive Medication Use From Clinical Notes Using GPT-4o
- 306 Prognostic Analysis of Pneumocystis Jirovecii Pneumonia in Patients With Systemic Vasculitides
- 307 Clinical Characteristics and Prognostic Analysis of Concurrent Pneumocystis Jirovecii Pneumonia in Patients With Connective Tissue Diseases
- 308 Dissecting Glucosylceramidase Beta 1 (GBA1)-mediated Endosomal Maturation From the Pro-viral Entry Role of Amphotericin B (AmB)
- 309 A Multicenter Retrospective Study on Antifungal Prophylaxis With Echinocandins and Isavuconazole in Post-lung Transplantation
- 310 Airway Lipopolysaccharide Predicts Future Pseudomonadota Colonization and Is Associated With Chronic Lung Allograft Dysfunction in Lung Transplant Recipients Without Positive Cultures
- 311 Acquired Resistance in Different Treatment Cohorts for Rifampicin-resistant Tuberculosis: Results From the TB-TRUST and TB-TRUST-plus Trials
- 312 AlphaFold3 to Model Conformational Changes in the Mycobacterium Tuberculosis Mycobacterial Membrane Protein Regulator (MMPR) to Enhance the Accuracy of Targeted Deep Sequencing for Predicting Phenotypic Resistance to Bedaquiline
- 313 Factors Associated With Tuberculosis Infection Among Household Contacts of Patients With Multidrug-Resistant Tuberculosis in 10 Provinces of Vietnam: A Cross-Sectional Study
- 314 Clinical Phenotypes of Post-tuberculosis Sequelae Among Hospitalized Adults in Kenya: A Cluster Analysis
- 315 The Effectiveness of Rifapentine-Isoniazid in the Prevention of Tuberculosis Among HIV Infected Patients: A Systematic Review and Meta-analysis of Non-inferiority Randomized Trials
- 316 Clinical and Radiographic Characteristics Associated With Pulmonary Artery Enlargement in Pulmonary Tuberculosis
- 317 Kynurenine/Tryptophan Ratio and Radiographic Burden of Tuberculosis in Ugandan Adults With and Without HIV
- 318 Role of Artificial Intelligence Enabled Chest X-ray Interpretation to Detect Pulmonary Tuberculosis in a Low- Income Country

- 319 Characterization of Cardiovascular Risk Factors in Tuberculosis Survivors in a Ugandan Cohort
- 320 Post Tubercular Lung Disease (PTLD) Morbidity Among Treated Cases of Pulmonary Tuberculosis From Rural India
- 321 Neuropsychiatric Side Effects of DR-TB Patients Receiving BPaL/BPaLM Regimen: A Retrospective Study in a National Respiratory Referral Hospital in Indonesia
- 322 An Observational Study to Assess Lung Function of Post Tuberculosis Obstructive Airway Disease in Rural vs Urban Population
- 323 Inhibiting PD-1 Restores Mycobacterium Tuberculosis Specific Poly-functional T Cells: Impact on Therapy of Drug Resistant Tuberculosis Patients

**BASIC • CLINICAL • TRANSLATIONAL**

**POSTER DISCUSSION SESSION**

**B28 TRANSCRIPTIONAL AND MOLECULAR SIGNATURES IN PULMONARY FIBROSIS: PATHOGENESIS AND NOVEL INTERVENTIONS**

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

Moscone Center

Room 203-204 (South Building, Level 2)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

- 101 MCT4 Regulates Hypoxia-Mediated Extracellular Lactate Production in IPF Fibroblasts
- 102 Correlative Ultrastructural and Transcriptional Profiling of the Mesenchyme in Pleuroparenchymal Fibroelastosis Highlights the Emergence of an Adventitial Fibroblast-Like Cell Type
- 103 Cross-talk Between ATF6 and Mammalian Target of Rapamycin Signaling Impairs Alveolar Epithelial Type 2 Cell Function and Differentiation During Lung Fibrosis
- 104 Loss of ATP Binding Cassette Transporter G1 (ABCG1)-dependent Cholesterol Handling Drives Spontaneous Lung Fibrosis Development in Mice
- 105 Sphingolipid Dysregulation in Interstitial Lung Disease

- 106 Unique Transcriptomic and Proteomic Signature of mTORC1 Hyperactivation in Lung Mesenchyme
- 107 ATF6 Acts as a Critical Rheostat to Harmonize the Unfolded Protein Response to Maintain Proteostasis in the Alveolar Epithelium in Murine Models of Pulmonary Fibrosis
- 108 PERK Inhibitor: GSK2656157 Reverses Established Pulmonary Fibrosis
- 109 Neural Crest Markers Are Therapeutic Targets for Tuberous Sclerosis and Lymphangioleiomyomatosis Neoplasms
- 110 Overlap in Single Cell Transcriptional Signatures of Idiopathic Pulmonary Fibrosis and Pulmonary Arterial Hypertension Lungs
- 111 ROCK Dependent Endothelial Mechanotransduction Perpetuates Pulmonary Fibrosis
- 112 Endothelial S1PR1 Limits Endothelin-1 / Endothelin Receptor B Mediated Pulmonary Fibrosis
- 113 Disrupting the FramewERK - Constitutive ERK Deletion Regulates Monocyte Differentiation and Fibrosis Progression
- 114 Immune Mesenchymal Crosstalk Induces ARG1 Dependent Profibrotic Metabolism
- 115 Study of the Role and Mechanism of MSLN in Idiopathic Pulmonary Fibrosis
- 116 Enabling High-throughput In Vivo Drug Discovery for Pulmonary Fibrosis: Proof of Concept In Vivo Screening Identifies Therapeutic Candidates That Regulate Pulmonary Physiology and Extra Cellular Matrix Synthesis
- 117 An Unexpected Beneficial Role of PDGF Signaling in Pulmonary Fibrosis
- 118 Oxidized Mitochondrial DNA as an Endogenous Factor in Acute Exacerbation of Pulmonary Fibrosis
- 119 Altered AP-1, RUNX, and EGR Transcription Factor Dynamics Drive Systemic Sclerosis-associated Interstitial Lung Disease
- 120 The Role of Bromodomain-Containing Protein 4 in Pulmonary Fibrosis: Insights Into Pathogenesis and Therapeutic Implications
- 121 Human iPSC-based Alveolosphere Model to Investigate Fibrotic Disease Signalling in IPF



- 122 IL-33 Precursor Potentiates Bleomycin-induced Pulmonary Fibrosis in Mice Without Engaging the ST2 Receptor
- 123 Mafk Sustains the Profibrotic Activity of Monocyte Derived Alveolar Macrophages and Promotes Lung Fibrosis
- 124 Therapeutic Potential of CAL101: A S100A4 Neutralizing Antibody for Fibrotic and Inflammatory Pulmonary Diseases
- 125 Pyruvate Fate Is a Determinant of Fibroblast Activation in Lung Fibrosis

**BASIC • CLINICAL • TRANSLATIONAL****POSTER DISCUSSION SESSION**

## **B29 AIRWAY AND ALVEOLAR EPITHELIAL RESPONSES: FROM INJURY MECHANISMS TO REGENERATIVE POTENTIAL**

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

Moscone Center

Room 207-208 (South Building, Level 2)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

- 201 Membrane Tension Gates Alveolar Type 1 Fate Selection
- 202 Profiling Regenerative Potential and Lineage Specification of Human Airway Submucosal Gland Stem Populations in Organoid Cultures
- 203 Krt8<sup>Hi</sup> Stressed Transitional Epithelial Cells Differentiate Into Krt5<sup>+</sup> Basal-like Cells Following Silica-induced Lung Injury
- 204 Understanding and Reducing Cardiopulmonary Sequelae Associated With Chronic Hypoxia
- 205 Metabolic Stress Decreases Innate Immune Response in Alveolar Epithelial Cells
- 206 Towards a Comprehensive Atlas of the Pediatric Airways
- 207 Compensatory Lung Growth After Resection in a Murine Lobectomy Model
- 208 The Gut Microbiome in Chronic Obstructive Pulmonary Disease (COPD), Results From a Large Population-Based Cohort

- 209 Levels of Cell-free DNA at the Diagnosis of Antibody-mediated Rejection Predict Poor Outcomes in Lung Transplant Recipients
- 210 Pyruvate Kinase M2 Is Required for Radiation-induced Myofibroblast Differentiation in Primary Human Lung Fibroblasts
- 211 Secreted Frizzled-Related Protein 1 as an Upstream Regulator in Alveolar Response to Cigarette Smoke Injury
- 212 Impact of Leukotriene A4 Hydrolase Activity on Sex-based Survival Differences in Klebsiella Pneumonia Infection
- 213 Identification of MUC5B-expressing Alveolar Type 2 Cells in Subjects With and Without Lung Diseases
- 214 Prioritising Genome-wide Association Study Signals for Experimental Investigation in Lung Disease Biology
- 215 Lung Mesenchymal Stem Cell Heterogeneity With Different Developmental Origins
- 216 Activation of NF- $\kappa$ B Promotes Distal Lung Organoid Formation
- 217 Single-cell Profiling of Mouse Trachea After Sulfur Dioxide Injury Reveals Drivers of Airway Barrier Remodeling
- 218 Differentiating BAL-Derived Airway Organoids Using Air-Liquid Interface Cultures
- 219 Role of JNK Activation in Delaying Autophagy Completion After E-cigarette Vape Exposure
- 220 Activated CGAS-STING Signaling in Alveolar Type 2 Cells in Elderly Smokers
- 221 Tissue-specific cfDNA Contributions to Survival Prediction in Lung Transplant Recipients
- 222 The Cell Specificity of CFTR Function in Alveoli: New Insights From Live Lung Imaging
- 223 Epithelial Deletion of Perk Reduces Lung Injury and Fibrosis in Multiple In Vivo Models of Epithelial Dysfunction and Lung Injury
- 224 Single-cell, Multi-omics on Lung Transplant-Derived Mesenchymal Cells Identifies the Transcription Factor C/EBPD as a Key Pro-fibrotic Regulator
- 225 Developing Hotspot Prime Editors to Enable Therapeutic Correction of Multiple CFTR Mutations in Cystic Fibrosis

**BASIC • CLINICAL • TRANSLATIONAL****POSTER DISCUSSION SESSION****B30 ADVANCED MODALITIES TO UNCOVER PATHOPHYSIOLOGIC FEATURES IN COPD**

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

Moscone Center

Room 3009/3011 (West Building, Level 3)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

- 901 Respiratory Mechanical Biomarkers of the Diaphragm and Chest Wall in COPD Using Inspiratory and Expiratory CT
- 902 A Computational Imaging Method for Small Airways Disease Staging in COPD
- 903 Computed Tomography Imaging Helps Identify Diagnostic Instability of Mild-to-Moderate Chronic Obstructive Pulmonary Disease
- 904 Pulmonary Obstruction and Airway Morphology Independently Predict Initiation of Coronary Artery Calcification in Ever-smokers in COPD Gene
- 905 Uncovering Silent Zones in COPD: Mechanics of Normal Lung Foretell Emphysema Onset and Mortality
- 906 Assessment of Airway-To-Lung Ratio on Cardiac CT: Agreement With Full-lung CT and Validation With Dysanapsis Endpoints: The Collaborative Cohort of Cohorts for COVID-19 Research (C4R) CT Harmonization Study
- 907 Computed Tomography Imaging-based Clusters for Chronic Obstructive Pulmonary Disease Lung Function Decline
- 908 The Size and Location Features of Mucus Plugs in COPD Differ Depending on the Extent of Emphysema
- 909 Data-Efficient Lung Segmentation Using Foundational Models: Improving Clinical Workflow With Segment Anything Model (SAM) for Hyperpolarized Gas MRI
- 910 Impaired Ventilatory Efficiency Is a Treatable Trait in Patients With Mild-to-Moderate Chronic Obstructive Pulmonary Disease

- 911 Usefulness of Longitudinal Parametric Response Mapping on CT Scan for Functional Small Airway Disease and Emphysema in Chronic Obstructive Pulmonary Disease
- 912 Clustering Spirometric Trajectory Patterns in COPD Reveals a Branching Tree Structure
- 913 Quantitative CT and Machine Learning-derived Hyper- and Hypo- Functional Regions Associate Heterogeneous Ventilation and Reduced Deformation With PFT and Smoking in COPD
- 914 Influences of Mucus Plugging on Physical Activity, Exercise Tolerance, and Frailty in Patients With COPD and Pre-COPD
- 915 TREETOP Study: A Novel Lung Function Technique for the Early Detection of Chronic Obstructive Pulmonary Disease
- 916 CT-based Lung Inflation-related Radial and Longitudinal Airway Expansion Biomarkers in COPD
- 917 Leveraging Raw Spirometry Data and Deep Learning for Improved COPD Diagnosis and Risk Prediction
- 918 Assessment of 10-year Progression in COPD Gene Using Automated Measurements of Bronchus-Artery Ratios and Mucus Plugging
- 919 Ensifentrine Improved Patient-reported Outcomes, Including Dyspnea, in Patients With COPD and Concomitant Cardiac Disorders
- 920 Ensifentrine Versus Placebo for Chronic Obstructive Pulmonary Disease: A Systematic Review and Meta-analysis of Randomized Clinical Trials
- 921 Effect of RLS-0071 on Airway Neutrophilia Following Inhaled Endotoxin Challenge Assessed by Chipcytometry
- 922 A Synthetic Approach for Automated Detection and Segmentation of Mucus Plugs on Chest Computed Tomography Images
- 923 Whole Genome Sequencing Analysis of Severe, Early-onset Chronic Obstructive Pulmonary Disease
- 924 Investigating the Effects of Vaping on Lung Structure-Function With  $^{129}\text{Xe}$  MRI and CT

- 925 Computational Analysis of Particle Deposition in Severe COPD Airways: Implications for Pathophysiology and Drug Delivery

**BEHAVIORAL • CLINICAL • TRANSLATIONAL**
**POSTER DISCUSSION SESSION**

**B31 DISPARITIES IN SLEEP: DIFFERENCES IN OSA DX, CPAP USE, DAYTIME FUNCTION, AND SOCIAL DETERMINANTS OF HEALTH**

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

Room 3010/3012 (West Building, Level 3)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

- 501 Lower Continuous Positive Airway Pressure (CPAP) Adherence in Black Patients Is Not Explained by Neighborhood Disadvantage
- 502 Impact of Socioeconomic Status on Outcomes in Sleep Apnea: Insights From NIS 2019-2021
- 503 Are Desaturation-based Criteria Adequate for Diagnosing Obstructive Sleep Apnea in Black Individuals?
- 504 Race and Ethnicity as Modifiers of the Link Between Excessive Daytime Sleepiness and All Cause Mortality
- 505 Racial Differences in Features Between Mesa and SHHS Datasets: Understanding Attribute Biases
- 506 Relational Concerns and Continuous Positive Airway Pressure (CPAP) Adherence in Pregnant and Not-Pregnant Reproductive Age Females
- 507 Exploring the Gender Gap: Association of Sleep Apnea With All-Cause Mortality in Female Veterans
- 508 Ridesharing Services Promote Diverse Recruitment for Clinical Research Sleep Apnea Studies
- 509 Did the Pandemic Serve as a Reset Button for a More Equitable Healthcare System? A Large Cohort Study of Female Veterans' Sleep Service Utilization
- 510 Big Data for Little People: Adherence to Non-invasive Ventilation in a Population-based Cohort of Children

**BASIC • CLINICAL • TRANSLATIONAL**
**THEMATIC POSTER SESSION**

**B32 LUNG-GEVITY: IMMUNE MODULATION IN LUNG INJURY**

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

Moscone Center

Area M, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1513 Impact of Decitabine on Native Lung Immune Profile in a Murine Single-lung Transplant Model
- P1514 Pre-clinical Appraisals of Anti-B Cell Therapeutics Bortezomib and Rituximab Demonstrate Comparable Efficacies in a Murine Model of Restrictive Allograft Syndrome
- P1515 Elucidating the Potential Role of Interferon-Gamma Driven Adaptive Immune Responses in the Pathogenesis of Chronic Lung Allograft Dysfunction
- P1516 Akt1 Is Essential for Follicular Helper T Cell Development
- P1517 Electroacupuncture Ameliorates Airway Dysbiosis and Inflammation by Modulating Circadian Rhythm in COPD Mice
- P1518 LOX-1+ Neutrophils Exhibit a Distinct Phenotype Associated With Prevention of Lung Injury During Pneumonia
- P1519 Canonical LOX-1/oxLDL Interactions Promote Alveolar Macrophage Homeostasis
- P1520 The Role of Treg-expressed Mmp12 During the Resolution of Acute Lung Injury
- P1521 Type-I Interferon Promotes Pulmonary Thrombosis in Mice Exposed to Cigarette Smoke and Flu
- P1522 Novel Human Antibody-Secreting Cell (ASC) Culture Systems to Determine Vaccine Durability
- P1523 Improving Lung Autophagy May Serve as a Potential Approach to Reducing Chronic Pulmonary Diseases Associated With Exposure to E-cigarettes

- P1524** Keratinocyte Growth Factor-2 Alleviates LPS-induced Acute Lung Injury by Promoting Recruited Macrophage M2 Polarization
- P1525** Reactive Oxygen Species Promote Sarcoidosis Granuloma Formation Through Heme Oxygenase-1 and STAT3
- P1526** Effects of Neutrophil Extracellular Traps on Mouse Models of OVA-induced Airway Inflammation Model and Airway Epithelial Cells
- P1527** Inhibition of PLA2G7 Attenuates Acute Lung Injury in Mice Via Immune-metabolic Pathways
- P1528** Divergent Immune Resolution Pathways in Murine Models of Pneumonia and Acute Lung Injury: Pathogen-specific Mechanisms of Inflammation and Repair
- P1529** Chronic Allergen Exposure Leads to Accumulation of B Cells in Lung Lymphoid Aggregates With Genes Associated With Germinal Center Activity and Plasma Cell Differentiation
- P1530** Dysbiosis Modifies Memory T Cells and Exacerbates Tumor Progression in a NSCLC Preclinical Model
- P1531** Genetic Diversity of Collaborative Cross Mice Reveals FFAR3 as a Target for Anti-inflammatory Reprogramming of ILC2
- P1532** The Role and Mechanism of Lung Microbiota in Acute Hypoxic Respiratory Failure
- P1533** OMVs Mediate Lysosomal Damage Via GBP2 to Promote Secretory Autophagy of IL-1 $\beta$  in Acute Lung Injury
- P1534** Prolonged Lymphopenia Was Associated With In-hospital Venous Thromboembolism Among Different Respiratory Virus Infections: A Retrospective Cohort Study
- P1535** E-cigarette Vaping Accelerates Aging of the Lower Respiratory Tract in Mice in a Sex-dependent Manner
- P1536** MicroRNA-33 Sustains Lipopolysaccharide-induced Airspace Neutrophilia
- P1537** Soluble Major Histocompatibility Complex I-related Chain A (sMICA)\*008 Levels Associate With Smoking, Presence of Chronic Obstructive Pulmonary Disease, and Incidence of Lung Cancer
- P1538** Assessment of Deployment-related Particulate Matter<sub>2.5</sub> Exposure in Immune and Pulmonary Dysfunction in Veterans
- P1539** IL-33-induced Alterations in Lung Macrophage Phenotypes
- P1540** Macrophage Characteristics Following Adaptation to Repeated Chlorine Exposures
- P1541** B Cells Are Not Required for Sarcoidosis Granuloma Formation In Vitro
- P1542** Oxidized Human IL-33 Does Not Appear to Signal Via the RAGE/EGFR Receptor Complex
- P1543** Profiling Cell-free DNA to Better Understand Clinical Pathologies, Immune Response and Disease Progression
- P1544** Safety, Tolerability, Pharmacokinetics, and Immunogenicity of a Human Monoclonal Antibody TQC2731 Targeting Thymic Stromal Lymphopoietin (TSLP) in Health Chinese Adults
- P1545** Safety, Tolerability, Pharmacokinetics, and Immunogenicity of a Human Monoclonal Antibody TQC2938 Targeting the IL-33/ST2 Axis in Healthy Chinese Adults
- P1546** Targeting the Macrophage-activating Receptor TREM2 in Inflammatory Airway Diseases: Structural and Biophysical Mapping of Functional Surfaces
- P1547** Neutrophil Elastase Boosts LPS-induced TNF $\alpha$  in Macrophages by a Post-transcriptional Mechanism

## BASIC • CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

### B33 WHEEZING THROUGH THE MECHANISMS: UNPACKING ASTHMA'S SECRETS

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

Moscone Center

Area M, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1549** Circulating IL-13+ IL-17+ Inflammatory ILC2s Denote Severe Eosinophilic and Neutrophilic in Asthma



- P1550** Three-year Prognosis of Asthma Phenotypes in Japan
- P1551** The Role of Non-coding RNAs in Asthma T2-high and T2-low Endotypes
- P1552** Early-life Rhinovirus Infection Increases Airway Tuft and Neuroendocrine Cells in Mice
- P1553** Loss of Cluster of Differentiation 38 Expression Alters Immune Cell Populations and Enhances Airway Hyperresponsiveness in a Mouse Model of Severe Allergic Airway Inflammation
- P1554** Effectiveness of THB001, A Selective KIT Inhibitor, in Uncovering Mast Cell Function in Asthma
- P1555** Distal Lung Inflammation Correlates With Systemic Inflammation and Small Airway Disease: Data From the ATLANTIS Study
- P1556** Sex-dependent E-cigarette Use Changes in Adaptive Immunity in Mouse Models of Allergic Inflammatory Airways Disease
- P1557** Transgenerational Asthma Risk Induced by Perinatal E-cigarette Exposure: Role of Pulmonary Innate Lymphoid Type II Cells
- P1558** Sputum Cellularity and Immune Biomarkers During Acute Exacerbations of Asthma
- P1559** Myeloid-specific Rev-erb $\alpha$  Deletion Augments Alternaria-induced Allergic Asthma
- P1560** High-dimensional Spectral Flow Cytometric Analysis of Allergic Airway Inflammation
- P1561** Effect of Social Deprivation on Asthma Phenotype Varies by Sex and Race
- P1562** Exploration of Asthma Phenotypes Associated With Genetic Determinants of Total Serum IgE Levels
- P1563** IL-17C and TNF- $\alpha$  Production Is Differentially Greater by Bronchial Epithelium From Children With Non-T2 vs. T2-high Donors With a History of Severe Exacerbation
- P1564** Potent and Selective Oral STAT6 Degradator, KT-621, Inhibits IL-4 and IL-13 Functions in Human Cells and Blocks TH2 Inflammation in a House Dust Mite Model of Asthma
- P1565** Sex-Specific Anti-inflammatory Effects of a Ketogenic Diet in a Mouse Model of Allergic Airway Inflammation
- P1566** Underlying Mechanisms of Steroid Insensitivity in ILC2s Mediated Through TL1A/DR3 Signaling
- P1567** ZW1528, A Bispecific Antibody Targeting IL-4R $\alpha$  and IL-33, Potently Inhibits Key Mediators of Airway Inflammation
- P1568** Chronic Rhinosinusitis and Allergic Rhinitis Are Associated With New-onset Asthma Diagnosis
- P1569** TSLP-Induced Type 2 Airway Inflammation and Remodeling Is Dependent on IL-4R? Signaling in Mice
- P1570** Transcriptional Fingerprinting of Type 2 Cytokines, IL-4, IL-13, IL-5 and the Alarmin IL-33 Reveals Unique and Shared Inflammatory Pathways in Asthma
- P1571** Effect of Age on Type 2 Inflammation and Airway Hyperresponsiveness in Adults With T2-high Asthma Endotype
- P1572** Aspergillus SP. Positive Airway Samples in People With Non-CF Bronchiectasis Is Associated With Higher Biomarkers of Systemic TH2 Inflammation, Allergic Airway Disease, and Airway Co-infection
- P1573** In Vitro Characterization of CHF6795, A New Potent and Selective P2X3 Inhibitor With Anti-tussive Properties
- P1574** Factors Associated With Failure to Obtain Induced Sputum Samples in Asthmatic Patients
- P1575** Histochemical Staining Underestimates Peribronchial Eosinophilic Inflammation Compared to ECP or GAL10 Staining in Human Lung Tissue
- P1576** Reduced Ratio of Biopterin Metabolites: Another Source of Nitric Oxide Synthase (NOS) Uncoupling in Asthma
- P1577** Psychometric Evaluation Supports Use of Symptom-Specific Verbal Response Scales in Patients With Chronic Rhinosinusitis With Nasal Polyps
- P1578** MFGE8/integrin  $\beta$ 3 Axis Suppresses NLRP3-Caspase-1 Pathway-induced NETosis in Experimental Neutrophilic Asthma
- P1579** Role of IgA in Sublingual Immunotherapy for Allergic Airway Inflammation Model
- P1580** Mimicking Dry Powder Inhaler Using Inhalation Tower in Mice: A Successful Amelioration of House Dust Mite (HDM)-induced Allergic Asthma After Fluticasone Propionate Dry Powder Delivery

- P1581** Serial Changes of Fractional Exhaled Nitric Oxide and Periostin in the Treatment Course of Cough Variant Asthma
- P1582** Dysphagia and Asthma: The Association of Eosinophilic Esophagitis, Asthma, and Its Effects on Outcomes
- P1583** Do Asthma Symptom Control Tools Reflect Small Airway Dysfunction Assessed by Spirometry and Oscillometry?
- P1584** Identification of Allergen-associated Cell Surface Markers Differentially Expressed on Asthmatic Dendritic Cells

### CLINICAL • TRANSLATIONAL

### THEMATIC POSTER SESSION

## B34 BREATH-TAKING MECHANISMS IN COPD

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

Moscone Center

Area A, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1** The Role of Ferroptosis and Its Inhibition in Chronic Obstructive Pulmonary Disease (COPD)
- P2** Skewed Adaptive Immune Responses Are Involved in Alpha 1 Antitrypsin Deficiency (AATD) Emphysema
- P3** Incidence of Eosinophilic Inflammation in Bronchiectasis Varies Significantly With Blood Eosinophil Count Assessment Strategy
- P4** Targeting MMP12 in COPD: Novel Insights Into Local Sirna Delivery and Preclinical Model Development
- P5** Modeling Effects of Smoking and Smoking Cessation in COPD Airways Using Human Airway Organoids
- P6** Role of CT-quantified Local Histogram Emphysema Patterns in Disease Clustering and COPD Outcomes
- P7** The Role of HAS2 in Exacerbating Elastase-induced Airway Inflammation and Emphysema in Mice

- P8** Sex Hormone Abnormalities Disrupt Circulating Alpha-1 Antitrypsin
- P9** Sex Hormone Stimulation of CRISPR-modified HepG2 Cells Alters Alpha-1 Antitrypsin Production
- P10** Influence and Distinctions of Particulate Matter Exposure Across Varying Etiotypes in Chronic Obstructive Pulmonary Disease (COPD) Mouse Model
- P11** Development and Characterization of a Murine Model for Asthma-COPD Overlap
- P12** Impact of Sarcopenic Obesity on Pulmonary Responses to Hyperoxia
- P13** Central Adenosine A1 Receptors Modulate NGF, BK and PGE<sub>2</sub> - Induced Cough Hypersensitivity
- P14** Alcohol Use in Relation to Breathlessness and Cough in Patients With Chronic Airway Limitation
- P15** The Role of Has2 in a Papain-induced Asthma-COPD Overlap Mouse Model
- P16** The Impact of MZB1 Protein Expression in Immune and Hepatic Cells in Alpha 1 Antitrypsin Deficiency
- P17** Interplay Between Purinergic Receptor and Nuclear Factor Kappa B in HIV Associated COPD

### BASIC • CLINICAL • TRANSLATIONAL

### THEMATIC POSTER SESSION

## B35 'OMICS AND OUTCOMES: TRANSLATIONAL STUDIES ACROSS LUNG DISEASES

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

Moscone Center

Area H, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P931** Salivary Transcriptomic Profile of Inflammatory Markers in Patients With Established Bronchopulmonary Dysplasia
- P932** MCEMP1 Is Required for Murine Pulmonary Fibrosis Development and Regulates the Transcriptome of Mucociliary Genes

- P933** Nasal Gene Expression in Hospitalized Children With Rhinovirus and RSV Infections
- P934** Developing Methods to Define Pathological Niches in Lung Diseases With Spatial Transcriptomics
- P935** Polymorphisms of P-glycoprotein (ABCB1) and Asthma Control: A Longitudinal Study
- P936** Autoimmune IgM Responses Are Associated With Emphysema Severity in COPD Gene
- P937** Asthma-associated 17q21 Genotype Affects Sphingolipid Metabolism in Peripheral Blood Mononuclear Cells But Not in Primary Nasal Epithelial Cells
- P938** Differential Transcriptome Features of Peripheral Blood Mononuclear Cells in Pulmonary Sarcoidosis Between With and Without Extrapulmonary Lesions
- P939** Genomic Insights From Next Generation Sequencing in Patients Having Bronchiectasis With Chronic Periodontitis
- P940** Interferon and Immune Response Pathways Are Associated With Mortality in Proteomic and Transcriptomic Analyses of Lower Respiratory Tract Samples in Patients With Severe COVID-19
- P941** Examining for Neutrophil Subsets in Moderate and Severe Asthma Using Single-cell RNA-sequencing
- P942** Characterization of Gene Networks Associated With ALOX15 Expression in Type 2-High Asthma
- P943** Ensifentrine Improved Respiratory Symptoms and Quality of Life in Patients With COPD and Concomitant Type 2 Diabetes
- P944** Systematic Review and Meta-analysis of Studies Evaluating Risk of Long COVID in Patients With Pre-existing Asthma or COPD
- P945** Efficacy of Brensocatib in Patients With Non-Cystic Fibrosis Bronchiectasis With vs Without Maintenance Use of Macrolides: An Analysis of the ASPEN Trial
- P946** Impact of Dupilumab Treatment on Lung Function in Patients With Chronic Obstructive Pulmonary Disease (COPD) and Type 2 Inflammation
- P947** Influenza Infection Drives Increased Polarization Towards M1-like Microglial Phenotypes With Gene Expression Profiles Associated With Neurodegenerative Diseases
- P948** De Novo Pathway of Pyrimidine Synthesis Modulates *P. Aeruginosa* Pulmonary Infection
- P949** Dupilumab Efficacy in Patients With Chronic Obstructive Pulmonary Disease (COPD) and Type 2 Inflammation by Evaluating Respiratory Symptoms in COPD (E-RS:COPD) Breathlessness and St. George's Respiratory Questionnaire (SGRQ) Activity Scores
- P950** Real-World Evidence for Fixed Triple Therapy With Beclomethasone/Formoterol/Glycopyrronium in Asthma Patients With Concomitant COPD: Six-Month Results of Trimaximize
- P951** COPD Exacerbation and Trends in Mortality in the United States: From 1999-2020
- P952** Molecular Imaging of Murine Acute Lung Inflammation Using <sup>89</sup>Zr-labeled Angiostatin
- P953** Suppression of the Anti-inflammatory Cytokine IL-38 in Moderate to Severe COPD
- P954** All Cause and Chronic Obstructive Pulmonary Disease (COPD) Specific Readmission Rates in the U.S.
- P955** Assessment of Symptom Burden and Related Quality of Life in GOLD E COPD Patients in the United States Via a Real-world Cross-sectional Survey
- P956** Symptom Burden and COPD Quality of Life by Smoking Status and Eosinophil Level: A United States Cross-sectional Survey
- P957** Retrospective Analysis of Patient Profiles and Disease Burden for Patients With Chronic Obstructive Pulmonary Disease Who Initiated Triple Therapy in China
- P958** Correlation of *Aspergillus Fumigatus* Sensitization With Mucus Plugging in COPD
- P959** Role of Gut Microbiota and Inflammatory Factors in Acute Respiratory Distress Syndrome: A Mendelian Randomization Analysis

## BASIC • TRANSLATIONAL

## THEMATIC POSTER SESSION

**B36 REPAIR MY BROKEN LUNGS**

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

Moscone Center

Area E, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P519** Targeting Mitochondrial 8-Oxoguanine DNA Glycosylase (OGG1) Is a Promising Approach to Improve Lung Function Following Exposure to Cl<sup>2</sup>
- P520** Immunopectidiomics Profiling in Idiopathic Pulmonary Fibrosis Provides a New Platform for Identifying Therapeutic Targets
- P521** Interleukin-17-mediated Regulation of PTEN Expression in Fibrotic Hypersensitivity Pneumonitis
- P522** Approaches to Elucidate Pathophysiological Mechanisms and Adaptive Immune Responses in Idiopathic Pulmonary Fibrosis and Fibrotic Hypersensitivity Pneumonitis
- P523** Pentadecanoic Acid Attenuates Pulmonary Fibrosis by Inhibiting Smad2/3 Signaling
- P524** Survival Is Not Influenced by Auto Antibody Status in Patients With Systemic Sclerosis Associated Interstitial Lung Disease
- P525** Baseline Serum KI-6 Levels Are Predictive of Mortality in SSc-ILD Patients With Nonanti-Topoisomerase Antibodies (ATA) and Not in Patients With Anti-Topoisomerase (ATA) Antibodies
- P526** Epithelial Signal Compared in Interstitial Lung Disease Associated With Systemic Sclerosis and Idiopathic Pulmonary Fibrosis: Pathogenetic Implications
- P527** Different Immune Infiltrate in Idiopathic Pulmonary Fibrosis Patients With Stable and Progressive Disease
- P528** Evaluating the Safety, Tolerability and Target Engagement Profile of CAL101, A Novel S100A4 Neutralizing Antibody, for Progression Into Idiopathic Pulmonary Fibrosis
- P529** Risk Factors Associated With Cardiac Sarcoidosis: Analysis of 499 Patients From the Multicentre Papland Study
- P530** Increased IFN- $\gamma$ -producing Capacity and Effector Status of High-T-bet-Expressing CD4<sup>+</sup> T Cells in Sarcoidosis
- P531** Immune Cell Dysfunction in IPF From Transcriptomic Studies of Bronchoalveolar Lavage Cells
- P532** A Deep Dive Into Outcomes of Diffuse Alveolar Hemorrhage in SLE and ANCA-Vasculitis
- P533** Trajectory of Pulmonary Function Tests in Patients With Systemic Sclerosis Associated Interstitial Lung Disease (SSc-ILD): Data From the German Network for Systemic Sclerosis
- P534** Clinical Relevance of Lipid-laden Macrophages in the Bronchoalveolar Lavage (BAL) Fluid of Patients With Interstitial Lung Disease (ILD)
- P535** Advantages of Micro-computed Tomography as a Powerful Non-invasive Tool in Preclinical Research of Lung Fibrosis
- P536** EFZO-FIT, Largest Placebo-controlled Trial in Pulmonary Sarcoidosis - Trial Design and Patient Characteristics
- P537** The UCSD Shortness of Breath Questionnaire Has Longitudinal Construct Validity in Fibrotic Hypersensitivity Pneumonitis
- P538** A Study on the Effects of HO-1/CO on Oxidative Stress and Inflammation in Human Bronchial Epithelia
- P539** Cytotoxic Effects of Bronchoalveolar Lavage (BAL) Fluid Obtained From COVID-19 ARDS ICU Patients on A549 Lung Epithelial Cells In Vitro
- P540** Computationally Harmonizing Patient Reported Outcome Measure Questionnaires for Sarcoidosis Studies
- P541** Bystander Activation in CD8<sup>+</sup> T Cells in Patients With Idiopathic Pulmonary Fibrosis
- P542** Comparative Analysis of Gene Expression Patterns in the Lung as a Remote Organ Following Sepsis or Ischemia -reperfusion in Mice
- P543** Nintedanib Alleviates Pulmonary Inflammation and Fibrosis in Mice With Silicosis



- P544** Myositis Specific Antibodies and Interstitial Lung Disease: A Single Center Retrospective Study
- P545** Change of Bronchoalveolar Lavage Proteome Following Segmental Lipopolysaccharide Challenge in Humans
- P546** Characterizing Eosinophilic Granulomatosis With Polyangiitis: A Comprehensive Descriptive Analysis
- P547** Design and Rationale for a Phase 3 Trial of Admilparant (BMS-986278), An Oral Lysophosphatidic Acid Receptor 1 Antagonist, in Patients With Idiopathic Pulmonary Fibrosis: ALOFT-IPF
- P548** Anti-Ro52 Associated Interstitial Lung Disease: A Retrospective Analysis
- P549** Diagnosis and Practice Patterns in Myositis-associated Interstitial Lung Disease in an Underserved Academic Center
- P550** IgG4-related Respiratory Disease and Its Mimickers
- P551** Frequency of Interstitial Lung Abnormalities on Historical CT Imaging in Patient With Idiopathic Pulmonary Fibrosis
- P552** Design and Rationale of a Phase 3 Trial for Admilparant (BMS-986278), an Oral Lysophosphatidic Acid Receptor 1 Antagonist, in Patients With Progressive Pulmonary Fibrosis: ALOFT-PPF
- P553** Employing a Collaborative Clinical Studies Network Approach to Ascertain Routine Cardiac Screening Practices for Sarcoidosis Patients Across Care Centers Internationally
- P554** A Prospective Cohort Study of Idiopathic Pleuroparenchymal Fibroelastosis in Japan
- P555** Investigation of the Usefulness of Lung Biopsy in the Diagnosis of ANCA-associated Vasculitis in Our Hospital
- P556** XTMA16 Study: A Phase 2, Randomized, Double-blind Clinical Trial Investigating the Safety and Efficacy of Intravenous XTMA16 Versus Placebo in Patients With Pulmonary Sarcoidosis
- P557** Lymphatic Erg Deficiency Attenuates Bleomycin-induced Pulmonary Fibrosis

**BASIC • TRANSLATIONAL****THEMATIC POSTER SESSION****B37 HEALING THE INFECTED LUNGS**

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

Moscone Center

Area E, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P558** Transient Receptor Potential Vanilloid 4 (TRPV4) Increases Burkholderia Cenocepacia Bacteria Clearance in Macrophages In Vitro and Lung Infection In Vivo Via Regulation of Autophagy
- P559** APL-10456; An Adjuvanted Rhinovirus Clinical Vaccine Candidate Which Generates Cross-species Humoral and Th1-polarized Cellular Immunity
- P560** Oncostatin M Modulates Signal Transducer and Activator of Transcription 3 (STAT3) and Extracellular Signal-regulated Kinase (ERK) Activation, Improving Pneumonia Outcome
- P561** Post-influenza Staphylococcus Aureus Superinfection Disrupts Coordinated Cellular Immunity in Lung
- P562** Multiple Molecular Pathways Discriminate Sarcoidosis From TB Granulomas
- P563** CD3 T Cell Marker Detected in Extracellular Vesicles From Bronchoalveolar Lavage Fluid of Aviremic HIV Patients
- P564** Effects of IL-13 on Bronchial Epithelial Cell Responses to Rhinovirus-C Infection
- P565** Acrolein Drives Neutrophilic Inflammation in Smokers With Streptococcal Pneumonia
- P566** Sympathetic Regulation of Humoral Immunity in Response to Streptococcus Pneumoniae
- P567** Investigating the Association Between Omega-3 Status and Pneumonia
- P568** Ptpro Activity Is Required for the Inflammatory Response in a Murine Model of Acute Lung Injury Induced by Sepsis
- P569** Toll Interacting Protein (TOLLIP) Serum Levels in Patients With Systemic Sclerosis Associated ILD (SSC-ILD): A New Biomarker?

- P570** E-cigarette Modulation of Leukocyte Activation in Lung and Airways and T Cell Numbers in Lung-draining Lymph Nodes in the Setting of Influenza Infection
- P571** CD40 Roles in Driving Lung Resident Memory B Cell Development After Pneumonia
- P572** Novel Approaches to Diagnosing Allergic Bronchopulmonary Aspergillosis: Insights From Serum Immunoglobulin and Cytokine Analysis
- P573** Leukemia Inhibitory Factor-Dependent Modulation of Lung Endothelial Cells During Pneumonia
- P574** Prevalence of *Aspergillus Fumigatus* Hypersensitivity in Patients With Chronic Respiratory Diseases in a Tertiary Care Hospital
- P575** Distinguishing Features of Chronic Cough Associated With Long COVID Identified Through Transcriptome Profiling
- P576** Characterization of Circulating T Helper Cells in Post-tuberculosis Pulmonary Sequelae
- P577** Distinctive Amyloid Beta Aggregation in COVID-19: An Early Signature of Disease Severity and Prolonged Inflammatory Response
- P578** Characterizing Lung and Systemic Immune Responses in COVID-19 Patients With Acute Respiratory Distress Syndrome (ARDS)
- P579** Perks of Inhibiting PKR- Like Endoplasmic Reticulum Kinase (PERK)- Regulation of Cytokine Storm During IAV Infection
- P580** Differential Mucociliary Clearance and Immune Response in House-Dust-Mite (HDM) Sensitized Mice Following SARS-CoV-2 and Sendai Virus Infections
- P581** H. Influenzae Type B Infection Stabilizes an Immune Suppressor Protein, FBXO24
- P582** Eight-Fold Increased Risk of COVID Pneumonia Among Patients Prescribed Dupilumab for Prurigo Nodularis
- P583** Carbonic Anhydrase IX Worsens Mortality and Lung Permeability but Does Not Affect the Immune Response During Bacterial Pneumonia

## CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

**B38 LUNG DISEASE IN ZEBRAS: RATE AND AUTOIMMUNE CASE REPORTS**

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

Moscone Center

Area K, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1205** Good Syndrome From Invasive Thymoma Leading to GL-ILD
- P1206** Cloudy Consequences: Exploring Vaping-Induced Pulmonary Alveolar Proteinosis
- P1207** A Rare Connection: Exploring Pulmonary Hyalinizing Granulomatosis in IgG4 Disease
- P1208** A Rare Case of Antisynthetase Syndrome and Rapidly Progressive Interstitial Lung Disease
- P1209** Solitary Pulmonary Amyloidosis: A Rare Diagnosis in a Case of Isolated Lung Involvement
- P1210** A Rare Dermatomyositis With Significant Lung Involvement
- P1211** Masquerading Malady: A Rare Presentation of a Recurrent Pituitary Mass
- P1212** Unmasking Isolated Pulmonary Involvement in Seronegative Anti-GBM Disease
- P1213** Idiopathic CD4 Lymphocytopenia: A Rare Immunodeficiency Disorder
- P1214** Two Cases of Eosinophilic Granulomatous With Polyangiitis Presenting With Pulmonary Fibrosis
- P1215** Interstitial Lung Disease in a Young Male With Common Variable Immunodeficiency: A Case Report
- P1216** Unusual Suspect: Chronic Cavitory Lung Lesion Caused by *Bordetella Bronchiseptica* in an HIV-positive Cancer Survivor
- P1217** Lung Involvement With Diffuse Bronchiolitis Pattern in a Patient With Defective FOXP3 Gene
- P1218** A Dual Diagnosis: Lung Adenocarcinoma With Coexisting IgG4-Related Disease Incidentally Discovered After Lobectomy

- P1219** ANCA-ring Diagnosis: Pulmonary Embolism Found to Be an Unusual Presentation of Granulomatosis With Polyangiitis
- P1220** Lupus Related Pulmonary-Renal Syndrome and the Use of Plasma Exchange as Salvage Therapy
- P1221** A 72-year-old Male With Dyspnea and Progressive Hypoxemic and Hypercapnic Respiratory Failure
- P1222** An Ominous Presentation of Antisynthetase Syndrome
- P1223** Clinical Presentation of Culture Negative Sepsis in a Young Male
- P1224** Concurrent Presentation of Disseminated Mycobacterium Avium Complex and Disseminated Kaposi Sarcoma in an HIV Positive Patient: Diagnostic and Therapeutic Challenges
- P1225** Balancing Infection and Inflammation Control: A Case of Burkholderia Multivorans Pneumonia in Chronic Granulomatous Disease
- P1226** Hydralazine-induced ANCA Vasculitis: A Case of Hypertensive Urgency, Alveolar Hemorrhage, and Renal Involvement
- P1227** Extraordinary Phenomenon of Cryptogenic Organizing Pneumonia as an Extra-Intestinal Manifestation of Crohn's Disease: A Case Study
- P1228** Anti-MDA-5 Associated Dermatomyositis With Interstitial Lung Disease: A Case Report
- P1229** When There Is a Hole in the Story of Whole Lung Lavage: Pulmonary Alveolar Proteinosis With Concern for Progression to Pulmonary Fibrosis
- P1230** A Tale of Two Coincidental Processes - ANCA Vasculitis and Pulmonary Aspergillus Infection Presenting as Diffuse Alveolar Haemorrhage
- P1231** Plasma Exchange in the Treatment of Severe C-ANCA-positive Vasculitis: A Case Report
- P1232** Emphysema: An Unusual Presentation of Microscopic Polyangiitis
- P1233** The Respiratory Revelation to a Systemic Disease: Unveiling IgG4-related Disease Through Pulmonary Symptoms
- P1234** GPA on the Brain
- P1235** Bronchiolitis Obliterans Secondary to Paraneoplastic Associated Pemphigus Vulgaris
- P1236** A Rare Case of Seronegative Anti Basement Membrane Disease Presenting as Hemoptysis
- P1237** Cystic Lung Disease Mimic: A Case Report of ANCA Associated Vasculitis
- P1238** Serum MPO-ANCA Positive Conversion in a Patient With Progressive Interstitial Lung Disease and Initial BALF MPO-ANCA
- P1239** A Rare Coincidence of HMG-CoA Reductase Deficiency and Sarcoidosis Converging in One Patient
- P1240** Splenic Calcification in a Patient With Systemic Lupus Erythematosus
- P1241** Transient Immunodeficiency in a Patient With Primary Ciliary Dyskinesia
- P1242** Mixed Respiratory Failure in the Setting of Necrotizing Autoimmune Myositis
- P1243** Iron Deficiency Anemia in a Patient With Chronic Diffuse Alveolar Hemorrhage Caused by ANCA Vasculitis
- P1244** Dual Destruction: Granulomatosis With Polyangiitis and Aspergillosis in Tandem
- P1245** Kaposi Sarcoma Inflammatory Cytokine Syndrome in a 29-year-old Man With AIDS
- P1246** Recurrent Diffuse Alveolar Hemorrhage in the Setting of Systemic Lupus Erythematosus
- P1247** When Asthma Isn't Just Asthma: Uncovering Bronchiectasis and Staph in APECED
- P1248** An Unusual Presentation of Granulomatosis With Polyangiitis
- P1249** Unraveling the Follicles: A Case Series on Follicular Bronchiolitis
- P1250** Microscopic Polyangiitis Complicated by Diffuse Alveolar Hemorrhage: Diagnostic Challenges and Treatment Considerations
- P1251** A Case of Lofgren Syndrome Associated With Lyme Disease
- P1252** From Coal Dust to Autoimmune Bust: A Microscopic Polyangiitis Mystery

**BEHAVIORAL • CLINICAL****THEMATIC POSTER SESSION****B40 HEALTH SYSTEMS, POPULATION HEALTH AND HEALTH DETERMINANTS**

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

Moscone Center

Area A, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P19 Donor Place-based Vulnerability and Recipient Lung Transplant Outcomes in a National Cohort
- P20 Association Between Social Determinants of Health and Sarcopenia Among Lung Transplant Candidates: A Cross-sectional Study
- P21 Improving Prognostic Communication and Symptom Management at a Respiratory LTACH: A Pilot in Palliative Care
- P22 Enhancing Quality in Patient Transfers: A Dashboard Approach to Track Interhospital Transfers
- P23 An Outpatient Interprofessional Care Coordination Pilot for Historically Disadvantaged People Living With Chronic Lung Disease
- P24 Modifying Eligibility Criteria: A Protocol Shift to Promote Inclusion for Female Participants in Pulmonary Research
- P25 Female-specific Associations Between Severe Sleep Apnea and All-cause Mortality in Veterans: A Retrospective Cohort Study
- P26 Global Definitions and Regulatory Classification of Biosimilar Medicines: A Scoping Review
- P27 Comparative Outcomes of Hospital Admissions for Respiratory Diagnoses on Admission When Analyzing the Effect of Teaching Versus Non-teaching Hospitals
- P28 Perspectives of Primary Care and Community Clinicians Regarding Chronic Breathlessness Management: A Qualitative Study

- P29 Addressing Barriers to Access to Spirometry in a Capital in Northeastern Brazil: A Successful University Experience Northeastern Brazil
- P30 Status of the Respiratory Therapy Profession in Guatemala: A Needs Assessment Study
- P31 Trends in Medicare Reimbursement for Chest Tube Insertion: A 10-year Analysis of Conversion Factors and Facility Ratestrends in Medicare Reimbursement for Chest Tube Insertion: A 10-year Analysis of Conversion Factors and Facility Ratestrends in Medicare
- P32 Awareness Among Brazilian Medical Specialists of the Long-term Implications of Premature Birth on Lifelong Pulmonary Health: Results of the Brazilian Pre-tell Survey
- P33 Utilization and Challenges of Point-of-Care Ultrasound in a Large Urban Hospital System
- P34 Identifying Unmet Needs for Patients Living With Neuromuscular Disease and Respiratory Muscle Weakness: A Qualitative Study
- P35 Beyond the Waves: Irrational Use of Electrocardiograms (EKG) in Emergency Department (ED)
- P36 An Audit of Pleural Services in a UK District General Hospital
- P37 An Exploration of Drivers of Sepsis Outcomes in Racial and Ethnic Minority Populations
- P38 Socioeconomic Status, Race, and Negative Health Behaviors During the Covid-19 Pandemic

**BEHAVIORAL • CLINICAL****THEMATIC POSTER SESSION****B41 AI, REMOTE MONITORING AND OTHER TECHNOLOGICAL ADVANCES IN PULMONARY AND SLEEP MEDICINE**

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

Moscone Center

Area D, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees



- P458** Artificial Intelligence-assisted Translation and Interpretation for Communication With Patients Who Have Language Barriers: A Systematic Review
- P459** A Pilot Study of Pulmonologists' Receptivity to Artificial Intelligence Use
- P460** Aero-acoustic Simulation of Patient-specific Breathing Sounds in Obstructive Sleep Apnea Versus Healthy Airways
- P461** Patient Adherence and Perceptions in a Pilot Home Spirometry Monitoring Program for Lung Transplant Recipients
- P462** Methods to Identify Cannabis Use With Natural Language Processing
- P463** Assessment of AI/ML Approaches for Qualitative Analysis in Obstructive Sleep Apnea
- P464** Remote Patient Monitoring Program Predicts Exacerbations in Chronic Respiratory Illness Patients
- P465** Effect of a Virtual Support Group on Quality of Life for Patients With Non-cystic Fibrosis Bronchiectasis
- P466** Comparison of Prediction Equations for Impulse Oscillometry: An AI-based Tool for Assisted Clinical Report
- P467** AI-driven Workforce Expansion: Enabling High-quality Spirometry by Healthcare Assistants in Primary Care
- P468** Sociodemographic Factors and Device Brand Predicts Sleep Tracking Behavior for Wearable Device Users
- P469** Analyzing AI Language Models on Pulmonary Nodule Patient Education: ChatGPT, Google Gemini, and OpenEvidence
- P470** Artificial Intelligence (AI)-aided Hypothesis Generating and Testing: A Pilot Study on Identifying Potential Risk Factors for Asthma
- P471** Developing a Machine Learning Model That Uses Actively Measured Acoustic Resonance to Quantitate Response to Bronchodilators
- P472** Diagnosing COPD With Sylvee, a Novel Wearable Device That Uses the Acoustic Resonance of the Lung
- P473** Bringing Exercise, Asthma Assessments, Teaching to Everyone (Breathe)

**BEHAVIORAL • CLINICAL****THEMATIC POSTER SESSION****B42 HOT TOPICS IN COPD, COUGH, SMOKING CESSATION AND VAPING**

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

Moscone Center

Area C, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P249** Activating Primary Care COPD Patients With Multimorbidity (APCOM) Trial - Baseline Findings
- P250** Chronic Airways Assessment Test (CAAT) in a Nationally Representative Adult Population With Asthma and/or COPD
- P251** Vaping Accentuates Risk of Acute Respiratory Distress Syndrome
- P252** "I Need Electricity to Live": An Analysis of GoFundMe Campaigns for Obstructive Lung Disease
- P253** Exploring Disparities in Guideline-Recommended Care Delivery for Women vs. Men With Chronic Obstructive Pulmonary Disease: A National U.S. Cohort
- P254** Impact of a Standardized Inhaler Education Protocol in Individuals With COPD and Asthma in a VA Pulmonary Clinic
- P255** Clinical Characteristics and Burden of Illness in People With COPD Experiencing Exacerbations While on Inhaled Triple Therapy, Stratified by Smoking Status
- P256** A Scoping Literature Review of Digital Endpoints for Chronic Cough Over the Past Five Years: Closing the Gap Between Clinical Trials and Real-World Clinical Practice
- P257** The Impact of Acute Worsening Events on Daily Lives and Healthcare Seeking Behaviour in Patients With COPD: An International Qualitative Study
- P258** Mortality Among Hispanics With Obstructive Lung Diseases
- P259** Sleep Apnea Among Individuals With Alpha-1 Antitrypsin Deficiency-associated Lung Disease

- P260** Tobacco Use Treatment Among People With HIV in an Underserved Community
- P261** Variability of Eosinophil Levels Over Time in Chronic Obstructive Pulmonary Disease Patients Within an Integrated Healthcare Delivery System
- P262** Disease Stability, Management and Treatment Goals in Chronic Obstructive Pulmonary Disease Among Newly Diagnosed vs Long-term Diagnosed Patients: A Patient Survey
- P263** Leveraging Social Media as a Community Engagement Tool to Disseminate Study Updates in a Mixed Methods Smoking Cessation Study Including American Indian and Alaska Native Populations
- P264** Predicting Anxiety in a COPD Population, a Machine Learning Approach
- P265** Measuring Weekly Average Cough Frequency Reduces Impact of Day-to-Day Fluctuations
- P266** Are Adult Preterm-born Individuals Living With Chronic Respiratory Diseases Aware of the Higher Risk of Respiratory Morbidity Associated With Preterm Birth? Results From the Empower Survey
- P267** The Content Validity of the St. George's Respiratory Questionnaire - COPD (SGRQ-C) in Patients With Alpha-1 Antitrypsin Deficiency
- P268** Understanding How Is the Behavioral Regulation for Exercise After Exacerbation of COPD Requiring Hospitalization: A Multicenter Cross - Sectional Study
- P269** Evaluation of Medical Student Confidence in Delivering Anti-vaping Messaging to High School Students in a Real-world Environment
- P270** Continuing Medical Education Microlearning Intervention Improves Mastery in Chronic Obstructive Pulmonary Disease Management Across the Care Team
- P271** Microlearning Intervention Improves Clinicians' Mastery and Supports Practice Change Related to Endobronchial Valve Treatment for Patients With Advanced Chronic Obstructive Pulmonary Disease
- P272** Interoceptive Abnormalities as Predictors of Anxiety and Exacerbation Risk in COPD Patients

- P273** Adverse Pregnancy Outcomes and Future Maternal Risk of Developing COPD: An Analysis of the Women's Health Initiative

### BASIC • CLINICAL • TRANSLATIONAL

### THEMATIC POSTER SESSION

#### **B43** SEPSIS AND CRITICAL ILLNESS: INNOVATIONS IN BIOMARKERS, DIAGNOSIS, AND MANAGEMENT

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

Moscone Center

Area H, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P960** Impact of Exposure to Air Pollution on Individuals With Sepsis
- P961** Tough Nut to Crack: Baseline White Blood Cell Count Modifies the Effect of Piperacillin-Tazobactam vs Cefepime on Mortality in the ACORN Trial
- P962** Impact of Timeliness of Appropriateness of Initial Antimicrobials on Mortality in Neutropenic Septic Shock
- P963** Prevalence of Resistant Organisms and Association of Antibiotic Coverage With Hospital Mortality Among Hospitalized Adults With Culture-positive Infection
- P964** Invasive Ventilation and Risk of Pneumothorax in Pneumocystis Jirovecii Pneumonia: A Nationwide Analysis
- P965** Does Sepsis Bundle Compliance Reduce Mortality in ICU Acquired Sepsis?: A Cohort Study
- P966** Identifying Novel Subphenotypes With SOFA Score Trajectories in Patients Hospitalized With Infection
- P967** The Effect of the Optional Lactate Criterion for Organ Dysfunction on CDC Adult Sepsis Event Incidence and Mortality
- P968** Novel Deep Learning Predictability Models Examine Impact of Antibiotic Administration Per Surviving Sepsis Campaign Guidelines

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| <p><b>P969</b> Using Machine Learning and Centrifugal Microfluidics at the Point-of-Need to Predict Clinical Deterioration of Patients With Suspected Sepsis Within the First 24 H</p> <p><b>P970</b> Subclinical Hypercoagulable Viscoelastic Characteristics Associate With Post-Acute Sequelae of SARS-CoV-2 Physical Symptoms in COVID Acute Lung Injury/Acute Respiratory Distress Syndrome Survivors</p> <p><b>P971</b> Studying the Effectiveness of a System Wide Procalcitonin Order Panel on Antimicrobial Stewardship in Sepsis: An Implementation and Quality Improvement Project</p> <p><b>P972</b> Safety of Intravascular Administration of Umbilical-cord Derived Mesenchymal Stromal Cells: An Updated Systematic Review and Meta-analysis</p> <p><b>P973</b> Sensitivity and Specificity of Procalcitonin for Bacterial Culture Positivity in Mechanically Ventilated Patients With COVID-19</p> <p><b>P974</b> Effectiveness of Hydrocortisone in Severe Community-acquired Pneumonia: A Meta-analysis of Mortality, Mechanical Ventilation Needs, and Inflammatory Outcomes</p> <p><b>P975</b> Association of Sepsis Bundle Compliance With Change in Sofa Score in Critically Ill Patients With Sepsis</p> <p><b>P976</b> Identifying a Unique Signature of Sepsis in Patients With Pre-existing Cirrhosis</p> <p><b>P977</b> The Impact of Time to Appropriate Antibiotic Therapy in Pneumonia Septic Shock</p> <p><b>P978</b> Screening for Sepsis: Novel Application of a Clinical Glycosaminoglycan Assay Distinguishes Septic From Control Patients</p> <p><b>P979</b> In Experimental Sepsis, Microbiome-derived Acetate Mobilizes From the Gut to the Blood and Correlates With Disease Severity and Hyperinflammatory Cytokines</p> <p><b>P980</b> The Method of Normalization of Somascan Proteomic Data in Intensive Care Unit Patients Can Significantly Influence Results</p> <p><b>P981</b> Association of Sonographic Findings With Severity of Dengue Fever: A Systematic Review and Meta-analysis</p> | <p><b>P982</b> Implementation of a Stroke Volume-Guided Fluid Protocol in the ICU: Experience at a Tertiary Care Center</p> <p><b>P983</b> Plasma Endocan Levels Are Associated With Organ Dysfunction, Fluid Accumulation and Poor Outcome in Sepsis Patients With Acute Respiratory Failure</p> <p><b>P984</b> Impact of Timing of Empiric Antibiotic Therapy and Surgical Intervention on Septic Shock Associated Necrotizing Fasciitis</p> <p><b>P985</b> Evaluating if the Development of New Late-Onset Organ Failures Is Associated With Exposure to Early Anaerobic Antibiotics Among the Persistently Critically Ill</p> <p><b>P986</b> Assessment of Lung Inflammation in a Mouse Model of Pre-renal Azotemia</p> <p><b>P987</b> Serum Procalcitonin Level Predicts Acute Kidney Injury in Severe Sepsis</p> <p><b>P988</b> Depletion of Salvage NAD<sup>+</sup> Biosynthesis Exerts Tissue-specific Roles in Systemic Inflammation</p> <p><b>P989</b> Culture Negative Sepsis Is Associated With Increased 30-day Mortality Despite Lower Severity of Illness and Plasma Levels of Inflammatory Markers</p> <p><b>P990</b> Delay From the Onset of Hypotension to Appropriate Antifungal Therapy Initiation Is the Critical Determinant of Outcome in Candida-associated Septic Shock</p> <p><b>P991</b> Inhibition of Candida Auris Phosphoglucomutase - A Novel Therapeutic Target</p> <p><b>P992</b> Extracellular Mitochondrial RNA Is Elevated in Sepsis and Triggers Inflammation</p> <p><b>P993</b> Accuracy of Monocyte Distribution Width (MDW) in the Diagnosis of Sepsis Among Critically Ill Adult Patients at the Intensive Care Unit at St. Lukes Medical Center: A Cross Sectional Analytical Study</p> <p><b>P994</b> Comparison of Clinical Characteristics and Viral Shedding Duration Among SARS-CoV-2 Variants in COVID-19 Patients With ARDS: A Retrospective Cohort Study</p> <p><b>P995</b> Short-course Versus Long-course Antibiotic Treatment for Ventilator-associated Pneumonia: A Systematic Review and Meta-analysis of Randomized Controlled Trials</p> |
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- P996 Prevalence and Impact of Fungal Infections on ICU Mortality in Interstitial Lung Disease Patients in a Tertiary Care Hospital in North India
- P997 Follow Up Blood Cultures for Gram Negative Bacteremia in Critically Ill Patients
- P998 Survival Rate of Adult Patients With Sepsis Following the Clinical Practice Guidelines for Initial Management of Sepsis in a Tertiary Hospital in Iloilo - A Retrospective Cohort Study
- P999 Fluid Resuscitation Compliance and Vasopressor Outcomes in Septic Shock: A Study of BPA-driven Management
- P1000 MicroRNA-21: A Promising Biomarker and Therapeutic Target for Sepsis-induced Acute Kidney Injury
- P1001 MicroRNAs as Diagnostic and Therapeutic Biomarkers in Septic Shock: A Comprehensive Systematic Review
- P1002 Tyramide-Based Beadless Digital Immunoassay: An Immunosensor Platform for Near-Patient Monitoring of Immune Trajectories
- P1003 Re-weighing the Obesity Paradox: Equivalent Mortalities for Emergency Department Patients With Sepsis and Septic Shock
- P1004 Correlation Between Procalcitonin Levels and Sepsis Severity in Patients Triggering Sepsis Alerts: A Retrospective Analysis
- P1005 Lactate as a Predictor in Sepsis Outcomes
- P1006 An Analysis of Lactate Measurement Patterns in Critical Care-Evidence or Intuition?
- P1007 Culture Negative Sepsis in Neonate With Invasive Devices in a Level III NICU of a Community Hospital in Brooklyn New York
- P1008 Clinical Differences Between Survivors and Non-survivors of Ventilator-Associated Pneumonia in a Tertiary Hospital in Japan
- P1009 Corynebacteria Diphtheriae Bacteremia: A Rare Cause of Rapid Clinical Decompensation
- P1010 A Case of Purulent Pericarditis Due to Actinomyces From an Odontogenic Focus
- P1011 Effects of SGLT-2 Inhibitor Use in Outpatient on Sepsis and Septic Shock Outcomes

## CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

## B44 ADVANCING CARDIOVASCULAR AND ECMO MANAGEMENT: INSIGHTS INTO OUTCOMES, INNOVATIONS, AND CHALLENGES

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

Moscone Center

Area J, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1079 In-hospital Outcomes of Cardiogenic Shock Patients: A Propensity Score-matched Nationwide Comparative Analysis Between Intra-aortic Balloon Pump and Percutaneous Ventricular Assist Devices
- P1080 Epidemiology and Outcomes of Veno-arterial ECMO in Acute Pulmonary Embolism: A Retrospective Cohort Study Using Nationwide EHR Data
- P1081 Three-Point Congestion Score vs. Venous Excess Ultrasound (VExUS) Score in Predicting Right Atrial Pressure (RAP)
- P1082 Levosimendan Against Conventional Vasoactive Agents for Acute Heart Failure: A Cost-Effectiveness Analysis in a Lower-Middle Income Country
- P1083 Risk Factors for Delayed Extubation, Long Hospital Stay and Mortality in Cardiovascular Surgical Patients
- P1084 Multistate Modeling of Right Ventricular Function Trajectories on Veno-Venous Extracorporeal Membrane Oxygenation in Acute Respiratory Distress Syndrome
- P1085 Impact of Body Mass Index (BMI) on Outcomes in Veno-Arterial Extracorporeal Membrane Oxygenation
- P1086 A Multi-centered Retrospective Cohort Study Evaluating Complications of Post-procedure Anticoagulation After Percutaneous Coronary Intervention in Patients With Acute Myocardial Infarction
- P1087 Use of IV Bicarbonate in Cardiac Arrest: A Rural Community Hospital's Experience



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| <p><b>P1088</b> Audibility Matters: Investigating Nurse Location, Audibility of Code Events and the Impact on Code Documentation</p> <p><b>P1089</b> Bridge to Nowhere: Experiences With Mortality on Extracorporeal Membrane Oxygenation</p> <p><b>P1090</b> Implementing a Designated Rapid Response Team to Improve Outcomes of In-hospital Cardiac Arrest</p> <p><b>P1091</b> Dobutamine in Septic Shock, When and Why?</p> <p><b>P1092</b> Assessing the Development of Myocarditis in COVID-19 Patients With Mitral Valve Disease as an Inciting Factor</p> <p><b>P1093</b> Evaluation of a Deep Learning-driven Incidental Detection of Coronary Artery Calcium on Non-gated CT Scans</p> <p><b>P1094</b> Mechanical Ventilation Parameters During Extracorporeal Membrane Oxygenation for Acute Hypoxemic Respiratory Failure: A Systematic Review</p> <p><b>P1095</b> Opportunistic Chest CT Scans Elucidate Patients' Cardiovascular Risks Even When Reviewed by Non-Radiologists</p> <p><b>P1096</b> Role of Modified HEART Score and HEART Pathway as Predictor of Major Adverse Events in Patients Presenting With Non ST Elevation Acute Coronary Syndrome</p> <p><b>P1097</b> In-hospital Cardiac Arrest: The Effects of Isolation Precautions</p> <p><b>P1098</b> Overuse of Computed Tomography Pulmonary Angiography-Goldilocks With a Broken Scale</p> <p><b>P1099</b> Clinical Characteristics and Outcomes of Septic Shock Triggered Takotsubo Cardiomyopathy</p> <p><b>P1100</b> Building an Adult Extracorporeal Membrane Oxygenation Program During the COVID-19 Pandemic: An Experience From Hawaii</p> <p><b>P1101</b> Clinical Outcomes of COVID-19-associated Takotsubo Cardiomyopathy</p> <p><b>P1102</b> Survival Outcomes and Effects of Cannulation Strategy in Extracorporeal Membrane Oxygenation for COVID-19 Acute Respiratory Distress Syndrome</p> <p><b>P1103</b> Characterizing Rapid Response Team Activations at a Community Hospital</p> | <p><b>P1104</b> Transpulmonary Gradient Titrated Positive End Expiratory Pressure in Venovenous Extracorporeal Membrane Oxygenation - A Systematic Review</p> <p><b>P1105</b> Outcomes of Pulmonary Embolism Management by a Multidisciplinary Pulmonary Embolism Response Team</p> <p><b>P1106</b> MicroRNAs as Predictive Biomarkers and Therapeutic Targets for Neurological Outcomes in Cardiac Arrest: A Systematic Review</p> <p><b>P1107</b> Temporal Trends of Myocarditis and Pericarditis in the Pre- and Post- COVID Era at a Tertiary Care Hospital of Arkansas</p> <p><b>P1108</b> Demographic Factors as Predictors of Postoperative Clinical Outcomes in Patients Undergoing Cardiovascular Surgery</p> <p><b>P1109</b> Cardiovascular Surgery: An Analysis on Morbidity and Mortality in Patients Undergoing Cardiovascular Surgery</p> <p><b>P1110</b> Clinical Characteristics and Outcomes in Critically Ill Patients With Severe Pneumonia Receiving Extracorporeal Membrane Oxygenation as a Rescue Therapy</p> <p><b>P1111</b> Going Against Nature: Diurnal Blood Pressure Variation in Critically Ill Adults</p> <p><b>P1112</b> Cyanosis Identification Is Associated With Differences in Provision of Treatment in Hospital Settings</p> <p><b>P1113</b> Evaluating Dynamic Arterial Elastance for Predicting Mean Arterial Pressure Reduction During Vasopressor Weaning in Acute Brain Injury Patients</p> <p><b>P1114</b> Initial Photoplethysmography Waveform Analysis in Predicting the Need for Life-saving Intervention in Adult Trauma Patients</p> <p><b>P1115</b> Sequential Organ Failure Assessment (SOFA) Scores During the First Seven Days of Hospitalization Predicts 30-Day Mortality Amongst a Multi-Center Cohort of Trauma Patients in the Western Cape of South Africa</p> <p><b>P1116</b> Evaluation of a Novel Oxygen Carrier for Resuscitation in Hemorrhagic Shock Model Using a Target Mutation of Recombinant Heme Protein</p> <p><b>P1117</b> Dynamic Arterial Elastance as a Predictor of Mean Arterial Pressure Reduction Following Vasopressor Withdrawal in Spontaneously Breathing Critically Septic Patients</p> |
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## CLINICAL

## THEMATIC POSTER SESSION

**B45 ICU HEAD TO TOE: NON-PULMONARY CRITICAL CARE DILEMMAS**

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

Moscone Center

Area H, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1012** Exploring the Association Between Epigenetic Age and Intensive Care Unit Delirium
- P1014** The Effect of Increasing Number of Centrally Acting Medications Among Intubated on Delirium, Length of Stay, and Mortality
- P1015** Music Therapy in Addition to Music Listening for the Prevention of Delirium in Mechanically Ventilated Patients
- P1016** Comparison of Plasma Levels of Amyloid Beta, Total Tau, and Vascular Endothelial Growth Factor Biomarkers in Patients With Intensive Care Unit Delirium Versus Subsyndromal Delirium?
- P1017** Effect of Circadian Biology on Subarachnoid Hemorrhage Onset, Intervention, and Outcome in ICU: A Narrative Review
- P1018** Characterization and Functional Outcome of Patients With Diffuse Axonal Injury Treated in a Neurological Intensive Care Unit in Colombia
- P1019** Continuous EEG Patterns and Reactivity Correlate With In-hospital Mortality Among Patients With Acute Brain Injury
- P1020** Paroxysmal Sympathetic Hyperactivity Syndrome (PSHS). Management Strategies
- P1021** Critical Care Insights: The Impact of Gastrointestinal Disorders on Stroke Recurrence
- P1022** A Retrospective Analysis of Hospital Outcomes in Patients With Septic Encephalopathy and Acute Kidney Injury: A Comprehensive Review
- P1023** Acute Kidney Injury in Hypertensive Emergencies: A National Inpatient Sample Analysis of Clinical Outcomes and Implications
- P1024** Factors Impacting Early Mobilization of Patients Undergoing Thoracic Surgery
- P1025** Factors Associated With Delays in Timing of Mobilization in Non-mechanically Ventilated Patients
- P1026** Rapid Brain Attack Response: CTA Contrast and Its Effect on Stroke Outcomes
- P1027** Effect of Resuscitation With Normal Saline Versus Lactate Ringer on Major Kidney Events in Patients Presenting With Sepsis: A Systematic Review and Meta-Analysis
- P1028** Incident Hypocalcemia Predicts Severity of Organ Dysfunction, ICU Length of Stay, and Need for Blood Product Resuscitation Amongst a Multicenter Cohort of Trauma Patients in the Western Cape of South Africa
- P1029** The Effects of Hyperchloremia on the Duration of Mechanical Ventilation in Critically Ill Patients
- P1030** Contrast Induced Nephropathy After CT Pulmonary Angiography; A Retrospective Cohort Study
- P1031** Efficacy and Safety of Desmopressin in Severe or Symptomatic Hyponatremia: A Systematic Review and Meta-analysis
- P1032** Associations Between Alkalemia, Lactate Levels, and Mortality in the All of Us Cohort
- P1033** Spontaneous Hypoglycemia and Risk of Death in Critically Ill Patients
- P1034** Critical Illness Related Corticosteroid Insufficiency (CIRCI): Trends in Mortality From 1999-2020
- P1035** Heparins Enhance C1 Esterase Inhibitor Activity: A Promising Remedy for Acute Hereditary Angioedema
- P1036** Impact of Perioperative Bleeding and Anemia on ICU Stay and Perioperative Complications in Pituitary Tumor Resection Patients
- P1037** Retrospective Review of the Impact of Glucagon-like Peptide 1 Agonists on Gastrointestinal Motility and Outcomes in the Medical ICU
- P1038** Hypoglycemia in Critically Ill Patients With Hypoxic Hepatitis Is Associated With Increased Mortality
- P1039** Machine Learning Predicts Critical Illness in Cirrhosis: The Role of Laboratory Assay at the Time of Admission

- P1040** Use of Andexanet Alpha Versus Standard of Care Among Patients Hospitalized With Upper and Lower Gastrointestinal Bleeding: A Retrospective, Multicenter, Comparative Effectiveness Study
- P1041** Thromboelastography-guided Blood Product Administration in Patients With Cirrhosis and Gastrointestinal Bleeding - A Before and After Analysis
- P1042** Spontaneous Echo Contrast Detection in Lower Extremity Ultrasound Is Associated With Increased Thromboembolism Events in Patients Hospitalized for COVID-19
- P1043** Effectiveness of Early Versus Late Hemoglobin-triggered Blood Transfusion in Patients With Critical Illness
- P1044** Characteristics and Predictors of Critical Care Related Outcomes in Transplant Associated Hemophagocytic Lymphohistiocytosis
- P1045** Medical Intensive Care Unit Utilization After Outpatient Chimeric Antigen Receptor T-cell Therapy: A Single Center Analysis
- P1046** Immune-related Myasthenia-Myocarditis-Myositis (Triple-M) Syndrome: ICU Cohort Study
- P1047** Outcomes and Characteristics of Patients With Solid and Hematological Malignancies Admitted to ICU: A 4-year Single-center Analysis
- P1048** Predictors of Death Among Mechanically Ventilated Young Adults Following Admissions for Alcohol-induced Acute Pancreatitis
- P1049** Association Between Pre-Hospital Alcohol Misuse and the Presence of Neuromyopathy and Weakness Is Critically Ill Patients
- P1050** Navigating Alcohol Withdrawal Management: A Retrospective Analysis of Various Medication Regimens at a 700-bed Tertiary Referral Center
- P1051** Phenobarbital vs Lorazepam in the Treatment of Alcohol Withdrawal in the ICU
- P1052** Xylazine Increases Fentanyl Toxicity Via Hypoxemia-induced Cardiac Dysfunction
- P1053** A Meta-Analysis of Liberal vs. Restrictive Blood Transfusion Strategies in Patients With Subarachnoid Hemorrhage and Anemia: Impact on Neurologic Functional Outcome

- P1054** Leveraging Plasma Concentration Levels to Optimize Extracorporeal Treatment in Acute Diquat Poisoning: A Multi-center Retrospective Cohort Study
- P1055** Severity Indices of Diquat Poisoning (SIDPs) for Triage and Prognosis in Acute Diquat Poisoning: A Multi-Center Prospective Cohort Study
- P1056** Leukocytosis, Thrombocytosis, and Spurious Hypoxemia at a Major Hospital Center

## CLINICAL

## THEMATIC POSTER SESSION

### **B46** MEDICATIONS AND TOXINS GO AWRY: MANAGING DRUGS, TOXINS AND SUBSTANCE-INDUCED EMERGENCIES

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

Moscone Center

Area J, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1119** Salty and Blue: A Case of Cyanosis With Severe Hyponatremia and Hypovolemia
- P1120** When Two Complications Collide: Navigating Wooden Chest Syndrome and Propofol Infusion Syndrome in the ICU
- P1121** GLP1s: Hidden Menace! Novel Chronic Medication Regimen Leads to Pancreatopleural Fistula and Tube Feed Effusion
- P1122** Methemoglobinemia Due to Isosorbide Mononitrate
- P1123** Navigating the Red Tape: Challenges in Treating Fulminant Liver Failure Due to Amanita Mushroom Toxicity
- P1124** Not the Good Stuff: Hemodynamic Havoc From a New Illicit Substance in Street Drugs
- P1125** A Rare Case of Hydrogen Sulfide Toxicity From a Malfunctioning Car Battery
- P1126** "Wait, It's Not Methemoglobinemia?" A Rare Case of Sulfhemoglobinemia

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| <p><b>P1127</b> Beneath the Surface: The Fatal Spiral of Kratom Toxicity</p> <p><b>P1128</b> Be Aware of Ethylene Glycol</p> <p><b>P1129</b> 2,4-Dinitrophenol Overdose: To Treat or Not to Treat? An Ethical Conundrum</p> <p><b>P1130</b> Injection of Diquat - A Fatal Case of Suicide</p> <p><b>P1131</b> Enzymatic Enigma: Serotonin Syndrome Shenanigans Complicating Calcium Channel Blocker Overdose Due to Common Metabolism Pathway</p> <p><b>P1132</b> A Case of Complete Heart Block Secondary to Pyridostigmine</p> <p><b>P1133</b> A Case Report of Cocaine-Induced Acute Liver Failure Improvement With N-Acetylcysteine</p> <p><b>P1134</b> Spare Me This Pain While in Spain: Case of Statin Induced Immune Mediated Necrotizing Myositis</p> <p><b>P1135</b> Heart Failure and Suicide: A Complex Polysubstance Overdose</p> <p><b>P1136</b> Serotonin Syndrome Induced Takotsubo Cardiomyopathy - A Rare Clinical Presentation</p> <p><b>P1137</b> Poor Man's Methadone: Loperamide Abuse Resulting in Severe Arrhythmia and Cardiotoxicity</p> <p><b>P1138</b> The Hidden Dangers of Loperamide: Cardiac Complications From Opioid Overuse</p> <p><b>P1139</b> Brugada-like ECG Changes in the Setting of TCA Overdose: Case Report of Brugada Phenocopy</p> <p><b>P1140</b> Kounis Syndrome: The Link Between an Iron Infusion and Chest Pain</p> <p><b>P1141</b> Real-time Assessment of Cardiac Function in the Management of Calcium Channel Blocker Toxicity</p> <p><b>P1142</b> Orophacial Angioedema Following Tenecteplase Administration in an Acute Ischemic Stroke: A Case Report</p> <p><b>P1143</b> Amantadine-Induced Hypoglycemia in a Patient Without a History of Diabetes Mellitus</p> <p><b>P1144</b> Complex Critical Care Management of Vasoplegic Shock and Serotonin Syndrome Following Polysubstance Overdose: A Case Report</p> <p><b>P1145</b> From Cleaning Product to Clinical Emergency: Overdose of Gamma-Hydroxy-Butyrate (GHB) in a Commercial Cleaning Product</p> | <p><b>P1146</b> Not Without Risk, a Case of Severe Life-Threatening Naloxone Induced Noncardiogenic Pulmonary Edema</p> <p><b>P1147</b> Hydralazine Strikes Again- Anti-Neutrophil Cytoplasmic Antibody Positive Vasculitis With Hemorrhagic Bullae</p> <p><b>P1148</b> Hidden in Plain Sight: The Diagnostic Quest of Zeive Syndrome</p> <p><b>P1149</b> Rescuing a Life: ECMO in Severe Drug-induced Shock</p> <p><b>P1150</b> Dexmedetomidine and Unexpected Polyuria: Raising Awareness for a Rare ICU Challenge</p> <p><b>P1151</b> Warm and Hyper: A Case of Serotonin Syndrome</p> <p><b>P1152</b> A Diagnostic Challenge in the ICU: Serotonin Syndrome Masquerading as Alcohol Withdrawal in a Safety-net Hospital</p> <p><b>P1153</b> Valacyclovir Toxicity in ESRD Unmasked by Thorough History in Intubated Patient</p> <p><b>P1154</b> Acute Liver Failure After Amiodarone Initiation</p> <p><b>P1155</b> A Case of Hydroxychloroquine Associated Catatonia in SLE</p> <p><b>P1156</b> A Stressful Case of Fever Caused by Stress Ulcer Prophylaxis: A Case of Famotidine Induced Drug Fever</p> <p><b>P1157</b> Alcohol and Its Effect on Hypothermia-induced Rhabdomyolysis</p> <p><b>P1158</b> A Fatal Case of Bupropion Overdose</p> <p><b>P1159</b> Rare Fatal Malignant Hyperthermia Induced by Cisatracurium: Case Report</p> <p><b>P1160</b> Unusual Case of Catatonia After Sedation With Propofol</p> <p><b>P1161</b> Severe Biventricular Failure, ARDS, and DIC Linked to Fadogia Agrestis, Trimethylglycine, and Anastrozole: A Case Report on Unregulated Supplement and AAS Use</p> <p><b>P1162</b> Severe Acidemia Secondary to Starvation and Alcoholic Ketosis in a 34 Year Old Woman</p> <p><b>P1163</b> Acute Hearing Loss Following Simultaneous Cocaine and Heroin Overdose in a 39-year-old Man</p> <p><b>P1164</b> When the Heart Defies the Poison: Normocardia Following Propranolol Overdose</p> |
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- P1165 The Presence of an Absence: Withdrawal of Dopaminergic Medications Leading to Neuroleptic Malignant Syndrome
- P1166 The Invisible Danger: Carbon Monoxide Poisoning Following a Power Outage
- P1167 ¡Muy MALA! A Case of Metformin Associated Lactic Acidosis
- P1168 Worsening Hypercapnic Respiratory Failure in Heart Failure Exacerbation Attributed to Mirtazapine
- P1169 Metformin Associated Lactic Acidosis - A Critical Diagnostic Priority
- P1170 A Rare Case of Bilateral Lower Extremity Compartment Syndrome Due to Cocaine-induced Rhabdomyolysis
- P1171 Amiodarone-Induced Acute Liver Failure: A Case Series
- P1172 Successful Use of Veno-venous ECMO in Severe Calcium Channel Blocker Overdose: A Case Report
- P1178 A Difficult-to-Wean Patient With Critical Illness Polyneuropathy
- P1179 Posterior Reversible Leukoencephalopathy Syndrome in a Woman With Eclampsia: Pressing the Need for Delivery
- P1180 Cerebral Edema Due to Hyperammonemia: A Case of Suspected Urea Cycle Disorder in Adult Patient
- P1181 A Case of a Bee Sting Resulting in Anoxic Brain Injury
- P1182 Diagnostic Dilemma: A Case of Acute Respiratory Failure From Anterior Spinal Artery Infarct Presenting as Guillain-Barré Syndrome
- P1183 A Unique Case of Ureaplasma Parvum Causing Disseminated Infection and Hyperammonemia in an Immunocompetent Patient
- P1184 A Case of Neurosarcoidosis Manifesting as Acute Psychosis and Evolving Mental Illness
- P1185 Fulminant Cerebral Edema From Hyperammonemia in Alpha-1-antitrypsin Deficiency Related Cirrhosis and Adynamic Ileus After Gastrointestinal Bleeding

## CLINICAL

## THEMATIC POSTER SESSION

### **B48 BRAIN ON THE BRINK: UNRAVELING RARE NEUROLOGICAL CATASTROPHES IN CRITICAL CARE**

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

Moscone Center

Area J, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1174 Rare Case of Quadriparesis Due to Septic Emboli and Cervical Myelitis in an Intravenous Drug User
- P1175 From Dialysis to Diagnosis: An Unusual Case of an Intracranial Mycotic Aneurysm Presenting With New-onset Seizures
- P1176 A Case of Fatal Ureaplasma-Induced Hyperammonemia in a Patient With Activated PI3Kdelta (APDS) Syndrome
- P1177 Clozapine Withdrawal Catatonia in the Intensive Care Unit: A Rare Differential
- P1186 Urinary Diversion Causing Hyperammonemia With Normal Liver Function
- P1187 Unfinished Business: Myasthenic Crisis in a Patient With Residual Thymic Tissue After Thymectomy
- P1188 Neuromyelitis Optica Presentation as Area Postrema Syndrome
- P1189 A Case of Creutzfeldt-Jakob Disease, a Rare Differential for Memory Loss and Neurological Deficit
- P1190 Vigilance of Rare Diseases: A Case of Neuroleptic Malignant Syndrome
- P1191 Propofol Perils: A Case of Myoclonus in Critical Care
- P1192 Propofol Frenzy: A Case of Propofol-induced Status Epilepticus
- P1193 Blinded by the Bug: Recognizing Wernicke's Encephalopathy Behind a Mask of Septic Shock
- P1194 Hyperammonemia Secondary to E. Coli Bacteremia
- P1195 Status Epilepticus in Melas; Will There Ever Be a Solution?
- P1196 Guillain Barre Syndrome in an Elderly: A Disease of a Different Breed

- P1197 A Case of Takotsubo Cardiomyopathy Brought on by Alcohol-withdrawal Seizures
- P1198 Refractory Hydrocephalus Treated With Ventriculo-Cholecystic Shunt in an Adult
- P1199 A Fascinating Case of Acute Inflammatory Demyelinating Polyneuropathy Associated With COVID-19 Infection
- P1200 A Curious Case of Encephalopathy
- P1201 Delay Diagnosis in Life-Threatening Myasthenia Gravis
- P1202 Is It GBS?
- P1203 Clonidine in the Treatment of Refractory Delirium Tremens

### CLINICAL

### THEMATIC POSTER SESSION

#### **B49 IDING ID: IDENTIFYING RARE INFECTIOUS DISEASES AND RESOLVING CRITICAL MANIFESTATIONS OF INFECTIONS**

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

Area K, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1254 A Case of Streptococcus Intermedius Necrotizing Pneumonia Complicated by Hemopneumothorax With Obstructive and Hemorrhagic Shock
- P1255 Mucous Plug Unmasking Pulmonary Mucormycosis in Liver Transplant Recipient
- P1256 Rhinovirus: A Rare Trigger for Cerebral Venous and Arterial Thrombosis
- P1257 Varicella-Zoster Virus (VZV) Pneumonia: A Cannot Miss Diagnosis in an Immunocompromised Patient Presenting With a Diffuse Vesicular Rash
- P1258 Legionella's Triad: A Rare Case of Legionnaires' Disease With Severe Rhabdomyolysis and Acute Renal Failure
- P1259 A Tropical Disease in the Snow: Leptospirosis in a Healthy New Englander
- P1260 One Bad Clam: Quahogging Gone Wrong With Vibrio Vulnificus
- P1261 Vascular Compromise in Toxic Shock Syndrome: A Case of Purpura Fulminans
- P1262 Invasive Aspergillosis in Immunocompetent Host Mimicking Hemophagocytic Lymphohistiocytosis
- P1263 Varicella Zoster Virus Infection Leading to Concomitant Pneumonia and Myocarditis in a Young Immunocompromised Patient
- P1264 From Routine to Ruin: An Astonishing CT Scan Exposes Catastrophic Ludwig's Angina and Necrotizing Mediastinitis Post Simple Dental Procedure
- P1265 A Rare Case of Necrotizing Soft Tissue Infection Involving the Neck and Mediastinum Due to Hypervirulent Klebsiella Pneumoniae
- P1266 Concurrent Candidemia and Gram-negative Bacteremia Resulting in Eustachian Valve Vegetation: A Case Report
- P1267 The Stealthy Fungi: A Diagnostic Conundrum of Candida Glabrata Septicemia
- P1268 A Fatal Case of Necrotizing Fasciitis Secondary to Pseudomonas Aeruginosa: Limitations of the Laboratory Risk Indicator for Necrotizing Fasciitis (LRINEC) Scoring System in Early Detection
- P1269 Diagnostic Challenge: Unmasking a Dual Lung Infection
- P1270 A Complex Case of Disseminated Leptospirosis in the Absence of Typical Exposure
- P1271 When Rare Meets Deadly: Fulminant Streptococcal Toxic Shock in a Young Patient With Kaposiform Lymphangiomatosis
- P1272 A Curious Case of Portal Vein Thrombosis and Epstein Barr Virus
- P1273 Disseminated Coccidioidomycosis in an 83-year-old Man Post COVID-19 Pneumonia
- P1274 Infectious Complications: The Challenge of Mycotic Aortic Aneurysms
- P1275 Atypical Presentation of Murine Typhus Complicated by Myocarditis and Septic Shock
- P1276 Mucormycosis Endocarditis: A Rare Case of Native Valve Involvement

- P1277** A Rare Manifestation of Human Immunodeficiency Virus Masquerading as Refractory Cardiogenic Shock
- P1278** Clot Over Chaos: A Unique Case of Fungal Endocarditis and Superior Vena Cava Thrombosis
- P1279** When Fungus Strikes the Heart: An Exceptionally Rare Case of *Lodderomyces Elongisporus* Endocarditis
- P1280** Streptococcal Toxic Shock Syndrome - A Deadly and Rapidly Progressive Critical Illness
- P1281** Beyond Bacteria: Recognizing and Treating HSV Pneumonitis in Critically Ill Patients
- P1282** An Atypical Presentation of Disseminated Histoplasmosis
- P1283** Disseminated HHV-6 Reactivation Resulting in Pneumonitis and Encephalitis in a Stem Cell Transplant Recipient
- P1284** Navigating Uncharted Territory: Steroid Intervention in Histoplasmosis-associated Iris
- P1285** When Fever Doesn't Break: The Challenge of Salmonella Sepsis in Sickle Cell Disease
- P1286** From Lungs to Limbs: A Rare Case of Disseminated Histoplasmosis
- P1287** Lemierre Disease: The Unexpected Thromboembolic Complication of a Sore Throat
- P1288** *Serratia Marcescens* Mitral Valve Endocarditis, Presenting as Subarachnoid Hemorrhage
- P1289** Peering Through the Diagnostic Fog of Lyme Encephalitis
- P1290** Septic Arthritis and Purulent Pericardial Effusion in Rheumatoid Arthritis With Janus Kinase Inhibitor Use
- P1291** From Cardiogenic Shock to Septic Surprise: A Case of *Listeria* Peritonitis
- P1292** Concurrent Myocardial Infarction and Ischemic Stroke With Underlying Endocarditis
- P1293** Infected Coronary Psuedoaneurysm Causing MRSA Pericarditis
- P1294** Healthcare Mishaps and a Fatal Case of Cerebral Malaria (*Plasmodium Falciparum* and *Ovale*)
- P1295** Unveiling the Silent Threat of Aspiration Pneumonia After Anterior Cervical Discectomy and Fusion (ACDF): A Journey From Recovery to Compromise
- P1296** Behind the Sore Throat: A Rare Case of Adult Epiglottitis
- P1297** Severe *Legionella* Pneumonia: Response to Steroid Monotherapy
- P1298** Unmasking HIV: Bilateral Spontaneous Pneumothorax Following COVID-19 Pneumonia in an Immunocompromised Patient
- P1299** Detecting the Rare With Limited Resources: A Case of Suspected Disseminated Histoplasmosis
- P1300** A Rare Case of Fatal Necrotizing Fasciitis and Bacteremia From *Myroides Odoratum*
- P1301** HIV-associated Lymphoma Causing Severe Lactic Acidosis and Hyperinflammation Masquerading as Sepsis
- P1302** Unveiling the Uncommon: A Case of Spontaneous Fungal Peritonitis in Autoimmune Hepatitis
- P1303** Thrombotic Thrombocytopenic Purpura Associated With *Plasmodium Falciparum*: A Case Report Highlighting Diagnostic Dilemmas

**CLINICAL****THEMATIC POSTER SESSION****B50 THE TIPPING POINT: IMMUNE DYSREGULATION AND ONCOLOGIC EMERGENCIES IN CRITICAL CARE**

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

Moscone Center

Area H, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

**P1057** Refractory Status Epilepticus Resulting From Immune Effector Cell-associated Neurotoxicity Syndrome**P1058** Choriocarcinoma Syndrome. A 1% Tumor With Severe Consequences**P1059** When Two and Two Don't Equal Four, Check the Smear for Something More

- P1060** Kaposi Sarcoma Inflammatory Cytokine Syndrome (KICS) and CMV Reactivation With Pulmonary Involvement in a Renal Transplant Patient With Well-Controlled HIV
- P1061** Crisis of Lysis: A Case of Cholangiocarcinoma
- P1062** Spontaneous Tumor Lysis Syndrome in a Patient With Serous Endometrial Carcinoma
- P1063** Tumor Lysis Syndrome in Metastatic Prostate Cancer
- P1064** Triple M Concerns in the Critical Care Setting
- P1065** When Rasburicase Is Unavailable: Successful Management of Spontaneous Tumor Lysis Syndrome With Urgent Chemotherapy and Febuxostat
- P1066** An Interesting Case of Spontaneous Tumor Lysis Syndrome in Gynecological Malignancy
- P1067** Pembrolizumab-induced Encephalitis: A Rare Complication in Melanoma
- P1068** Silent Breakdown: Spontaneous Tumor Lysis Syndrome in Diffuse Large B Cell Lymphoma
- P1069** Interesting Case of Anaplastic Thyroid Carcinoma in a Middle-aged Female
- P1070** Immune Checkpoint Inhibition Related Status Epilepticus in a Patient With Metastatic Hepatocellular Cancer
- P1071** A Case of Fatal Diffuse Large B-cell Lymphoma in a Patient With Newly Diagnosed HIV
- P1072** Tragic Transformations and Differentiation Syndrome
- P1073** Pembrolizumab-induced Myocarditis, Myositis, and Myasthenia Gravis in a Patient With Recurrent Cervical Cancer
- P1074** Rapidly Progressive Multisystem Amyloidosis: A Rare Management Challenge
- P1075** Necrosis Versus Inflammation? A Case of Immune Checkpoint Inhibitor Induced Myocarditis Initially Managed as Acute Coronary Syndrome
- P1076** Overlapping the Overlap: Unraveling West Nile Virus Infection in Immune Checkpoint Inhibitor Overlap Syndrome
- P1077** Catecholamine-induced Cardiomyopathy in Pheochromocytoma

## CLINICAL

## THEMATIC POSTER SESSION

## **B51 BREATHLESS IN SAN FRANCISCO: AIRWAY COMPROMISE, PNEUMONIA, AND UNUSUAL LUNG DISEASE**

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

Moscone Center

Area K, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1305** Tracheal Laceration, A Rare but Fatal Complication of Traumatic Intubation
- P1306** Vocal Cord Paralysis as an Insidious Onset of Cardiogenic Shock
- P1307** A Case of Vocal Cord Paralysis in Multiple Myeloma
- P1308** Invasive Aspergillosis Laryngitis Causing a Difficult Intubation
- P1309** When Eating Turns Dangerous: Acute Supraglottitis in a 74-year-old
- P1310** Navigating Bloodless ECMO: A Case of Tracheal Injury Repair in a Jehovah's Witness Patient
- P1311** Early Detection and Ventilator Adjustment in Managing Post-intubation Tracheal Injury in an ARDS Patient: A Case Report
- P1312** The Case of the Vanishing Retropharyngeal Mass
- P1313** Like Pulling Teeth: Multiple Peri-Intubation Tooth Aspirations in a Critically-Ill Patient
- P1314** A Rare Case of Allan Herndon Dudley Syndrome Associated With Severe Tracheobronchomalacia and Endobronchial Polyposis
- P1315** Acute Systemic Lupus Erythematosus Manifesting as Airway Threatening Edema
- P1316** Unraveling a Complex Case of Airways and Esophageal Symptoms: A Delayed Diagnosis of High-grade Spindle Cell Carcinoma of the Vocal Cords Led to Poor Prognosis
- P1317** Sugammadex Induced Laryngeal and Upper Airway Edema
- P1318** Recurrent Hydropneumothorax as a Rare Complication of Legionnaires' Disease



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| <p><b>P1319</b> Life-threatening ACE Inhibitor Induced Angioedema Requiring Endotracheal Intubation</p> <p><b>P1320</b> A Rare Case of Dysautonomia in the Setting of Chronic Tracheostomy</p> <p><b>P1321</b> Airway Compromise in a Unique Exposure Setting</p> <p><b>P1322</b> A Delicate Connection: A Case of Tracheal Bleeding Uncovered</p> <p><b>P1323</b> Complex Management of Airway Obstruction in Acquired Hemophilia A: A Case Report</p> <p><b>P1324</b> Fate Almost Sealed With a Clot: A Rare Case of “Airway Embolism”</p> <p><b>P1325</b> A Curious Case of a Tidalizing G-Tube and Missing Volumes</p> <p><b>P1326</b> Rapid Respiratory Compromise Secondary to Atypical Bacterial Pneumonia Leading to Multiorgan Failure and Profound Refractory Shock</p> <p><b>P1327</b> Challenges Faced by Patients With Refractory Mycobacterium Avium Complex Pulmonary Disease and the Support Required for Long-term Continuation of Amikacin Liposome Inhalation Suspension Therapy: A Case Series Based on Patient Interviews</p> <p><b>P1328</b> Legionnaires’ Disease Complicated by Acute Renal Failure: Beyond the Urine Antigen Test</p> <p><b>P1329</b> IRIS After PCP: The Inflammation Nobody Wants</p> <p><b>P1330</b> The Importance of a Correct Timing in Management Pulmonary Echinococcosis</p> <p><b>P1331</b> Treatment Effect of Vilobelimab in a Complex Patient With MRSA Pneumonia, Legionella, and Severe COVID-19</p> <p><b>P1332</b> Rare Respiratory Isolation of Hafnia Paralvei in a Postoperative Cardiac Surgery Patient</p> <p><b>P1333</b> Refractory Status Asthmaticus Successfully Treated With ECMO</p> <p><b>P1334</b> A Double Blow: Bilateral Spontaneous Pneumothorax Due to Melioidosis in a Patient With Usual Interstitial Pneumonia-patterned Interstitial Lung Disease and Alcoholic Liver Disease</p> <p><b>P1335</b> When Breath Goes Retro: Pneumo-retroperitoneum After Cardiopulmonary Resuscitation (CPR) in Asthma Patients</p> <p><b>P1336</b> Spontaneous Pneumothorax in a Patient With Pulmonary Sarcoidosis</p> | <p><b>P1337</b> Fluid, Failure, and a Final Twist: An Unexpected Pleural Culture Result</p> <p><b>P1338</b> Successful Conservative Management of Bilateral Apical Pneumothorax in a Ventilated Patient</p> <p><b>P1339</b> Location, Location, Location: Chest Tube Complications in Critically Ill Patients - A Case Series</p> <p><b>P1340</b> Explosive Pleuritis and Parapneumonic Effusion: A Group A Streptococcus-induced Pneumonia Crisis</p> <p><b>P1341</b> Snap, Crackle, Pop: Ventilator Associated Barotrauma and the Development of Pneumomediastinum Due to COVID and Atypical Hemolytic Uremic Syndrome</p> <p><b>P1342</b> A Complicated Case of Acinetobacter Empyema in a Patient With Metastatic Lung Adenocarcinoma</p> <p><b>P1343</b> Atypical Presentations of Birt-Hogg-Dubé Syndrome: Insights From Cases With Intraocular Melanoma and Pulmonary-renal Findings</p> <p><b>P1344</b> Not All Wheezing Is Asthma</p> <p><b>P1345</b> The Dangers of the Comfort Provided by Volume Control Ventilation</p> <p><b>P1346</b> The Use of Airway Pressure Release Ventilation in a Patient With Severe Respiratory Alkalosis Following Intubation</p> <p><b>P1347</b> Managing Potential Surgical Emergencies in Lung Transplant Candidates: The Challenges of Balancing Candidacy and Care</p> <p><b>P1348</b> Diagnostic Dilemma, Inclusion Body Myositis Progressing to Respiratory Failure in a Patient With Recent Influenza Vaccination</p> <p><b>P1349</b> Buffalo Chest Syndrome: A Rare Pathological Presentation in Humans</p> <p><b>P1350</b> Fulminant, Undiagnosed Lung Adenocarcinoma as a Cause of Acute on Chronic Respiratory Failure</p> <p><b>P1351</b> From Rash to Ruin: The Unexpected Progression of Churg-strauss Syndrome</p> <p><b>P1352</b> A Hidden Danger: The Mysterious Case of a Syringe Cap Lodged in the Lung of an Intra-Venous (IV) Drug User</p> <p><b>P1353</b> Abating Airway Collapse in Mega Esophagus</p> <p><b>P1354</b> The Story of the Unremitting Arrhythmia in a Lung Transplant Recipient</p> |
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## CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

**B52 HOT TOPICS IN COPD**

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

Moscone Center

Area C, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P275** Ensifentrine Monotherapy Improved Lung Function and Reduced Exacerbation Rate and Risk in Symptomatic Patients With Moderate-to-Severe COPD
- P276** Effect of Tezepelumab on Exacerbations in Patients With Moderate to Very Severe Chronic Obstructive Pulmonary Disease Based on Inclusion or Exclusion of Antibiotic Use in the Definition of Moderate Exacerbations: Data From the Phase 2a COURSE Study
- P277** Efficacy of Ensifentrine in Chronic Obstructive Pulmonary Disease (COPD): A Meta-analysis of Randomized Controlled Trials
- P278** Effect of Tezepelumab on Lung Function in Patients With Moderate to Very Severe Chronic Obstructive Pulmonary Disease Grouped by Baseline Blood Eosinophil Count: Results From the Phase 2a COURSE Study
- P279** Ensifentrine as a Novel Treatment for Chronic Obstructive Pulmonary Disease: A Meta-Analysis
- P280** Impact of Heterogenous vs Homogenous Emphysema on Changes in FEV1 Post Bronchoscopic Lung Volume Reduction
- P281** Improvements in St George's Respiratory Questionnaire Domain Scores With Tezepelumab Versus Placebo in Patients With Moderate to Very Severe Chronic Obstructive Pulmonary Disease: Results From the Phase 2a COURSE Study
- P282** Finding the Best Fit: A Head-To-Head Comparison of Triple Therapy Regimens in COPD
- P283** Ensifentrine Improved Lung Function and Reduced Exacerbation Rate in Patients With COPD and Concomitant Type 2 Diabetes
- P284** Ensifentrine Improved Lung Function and Reduced Exacerbations in Patients With COPD and Concomitant Cardiac Disorders
- P285** Ensifentrine Monotherapy Reduced Dyspnea and Improved Quality of Life in Patients With Symptomatic, Moderate-to-Severe COPD
- P286** Systemic Exposure of Budesonide/Glycopyrrolate/Formoterol Fumarate With Hydrofluoroolefin-1234ze Versus Hydrofluoroalkane-134a Propellants Administered Via Metered-Dose Inhaler With a Spacer in Healthy Adults
- P287** Ensifentrine Reduced Exacerbation Rate Regardless of FEV1 Improvement: A Post-hoc Pooled Analysis
- P288** Reducing COPD 30-Day Readmissions: Focusing on Education, Early Follow-Up, and Action Plan
- P289** Improving Chronic Obstructive Pulmonary Disease (COPD) Care by Implementing Standardized Powerplans With the Participation of Respiratory Therapists
- P290** Real-life Impact of Anti-IL5 Therapy on Exacerbation Types in Patients With Obstructive Lung Disease
- P291** Reduction of Systemic Glucocorticoid Utilization in COPD Patients After Initiation of Biologics in a Real-world Population
- P292** My Lung Health Coach Companion App: Development and Co-design of an Electronic Patient Record-integrated Companion App for a Virtual Chronic Obstructive Pulmonary Disease Education and Self-management Support Program
- P293** Adherence to GOLD Reports: Clinical Impact of Updates Recommendations on Inhalation Therapy in the 2023 Report
- P294** Adjunctive Effect of Nebulized Furosemide in the Treatment of Acute Exacerbation of Chronic Obstructive Pulmonary Disease: A Meta-analysis
- P295** The Financial Burden of Prescription Medications in Chronic Obstructive Pulmonary Disease
- P296** A Performance Comparison of Three Nebulizers Delivering a Combination of Ipratropium/Albuterol Inhalation Solution

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| <p><b>P297</b> Establishing Outcomes of Once-daily Triple Therapy Plus as Needed Albuterol in Hospitalized Patients With COPD Exacerbations: The SUNDIAL-COPD Study</p> <p><b>P298</b> Clinical Phenotypes of Acute Exacerbations Among People With Chronic Obstructive Pulmonary Disorder in Uganda</p> <p><b>P299</b> Digital Remote Coached Spirometry in a South Carolina Population</p> <p><b>P300</b> Safety and Tolerability of a Novel Inhaled Thiol-Saccharide Mucolytic (Fexlamose, MUC-031) in Healthy Volunteers</p> <p><b>P301</b> Assessing the Day-to-Day Variability in Ventilator Parameters Over the First Six Months of Home NIV Treatment: A Prerequisite to Telemonitoring Alert Settings</p> <p><b>P302</b> Addressing Methodological Gaps: A Stratified Meta-analysis of Beetroot Juice and Exercise Capacity in COPD Patients</p> <p><b>P303</b> Evaluation of Longitudinal Lung Function Decline Through Spirometry, CT Imaging and Oscillometry in MZ Alpha-1 Antitrypsin Deficiency Individuals, With Respect to Smoking Status, Reason for Referral, Age, and Gender</p> <p><b>P304</b> Analysis of Cardiovascular and Relevant Co-morbid Conditions in Hospitalized COPD Patients With Vitamin B12 Deficiency: A Nationwide Retrospective Study</p> <p><b>P305</b> Blood Eosinophil Counts and Immunoglobulin E (IgE) Levels in Patients With COPD, Asthma, or Asthma/COPD Overlap Over 1 Year of Follow-Up</p> <p><b>P306</b> Review of the Clinical Characteristics Associated With Prophylactic Azithromycin Use in Severe Acute Exacerbations of Chronic Obstructive Pulmonary Disease</p> <p><b>P307</b> The Development of Pulmonary Tuberculosis in COPD: A Nationwide Population-Based Study</p> <p><b>P308</b> Improving Outpatient COPD Management: A Quality Improvement Initiative Using the New GOLD Classification System</p> <p><b>P309</b> Frequency of Exacerbations According to Lancet Commission COPD Classification to COPD Cohort Population in South Korea</p> | <p><b>P310</b> Predictors of Chronic Obstructive Pulmonary Disease (COPD) Readmissions Within 30 Days of Discharge: A Single Center Retrospective Analysis</p> <p><b>P311</b> Reduction of Chronic Obstructive Pulmonary Disease Readmission Through System Wide Education and Pathway Implementation in a Rural Setting</p> <p><b>P312</b> Transforming Chronic Obstructive Pulmonary Disease Care: A Multidisciplinary Quality Improvement Initiative to Standardize COPD Management in the Hospital</p> <p><b>P313</b> Exploring the Impact of Exacerbations in Severe Alpha-1 Antitrypsin Deficiency</p> <p><b>P314</b> Genetic Discrimination in Alpha-1 Antitrypsin Deficiency - An Emerging Barrier to Global Detection Efforts</p> <p><b>P315</b> Pharmacodynamic Effects of Benralizumab on Eosinophil-related Biomarkers in COPD: A Biomarker Analysis of the GALATHEA Study</p> <p><b>P316</b> Predictors of In-Hospital Mortality Following Acute Severe Exacerbation of Chronic Obstructive Pulmonary Disease</p> <p><b>P317</b> Real-world Effectiveness of Single-inhaler Long-acting Dual Bronchodilators in Chinese Patients With Chronic Obstructive Pulmonary Disease</p> <p><b>P318</b> Study of Clinical Utility of Oxygen Delivery Through High Flow Nasal Cannula in Patients Presenting With Chronic Obstructive Pulmonary Disease With Acute Hypercapnic Respiratory Failure in Nepal</p> <p><b>P319</b> The Frequency of Spirometry Use and Confirmed Airflow Obstruction Amongst Patients Hospitalised With Exacerbations of COPD</p> <p><b>P320</b> Optimal Maximal Forced Inspiratory Flow for Dry Powder Inhalers in Reducing Exacerbations in Chronic Obstructive Pulmonary Disease</p> <p><b>P321</b> Analysis of Difference in Lung Function Decline According to Airway Obstruction Severity: From the KOCOSS Cohort</p> <p><b>P322</b> Breath of Change: Evaluating Inhaler Use and Compliance in Hospital Transitions</p> <p><b>P323</b> Prevalence of Cognitive Impairment in Clinical Dimensions of Chronic Obstructive Pulmonary Disease</p> |
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**P324** Correlation Between Emphysema and Incidence of Pulmonary Embolism - A Retrospective Case Control Study

## CLINICAL

## THEMATIC POSTER SESSION

### **B53 ADVANCES IN INTERVENTIONAL PULMONARY AND PLEURAL DISEASE**

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

Moscone Center

Area E, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

**P585** Endobronchial Blocker Placement: A High-Fidelity Simulation Curriculum

**P586** Impact of Pleural Effusion on 30-days Outcomes Following Coronary Artery Bypass Grafting

**P587** The Impact of Cryotherapy on Airway Stenosis: In Vivo, Ex Vivo, and In Vitro Study

**P588** Activated Partial Thromboplastin Time Is a Potential Risk Factor for Prolonged Chest Drain Placement Following Surgery for Primary Spontaneous Pneumothorax

**P589** Promising Role of the Ambulatory Management of Pneumothorax: A Systematic Review and Meta-analysis

**P590** Cryobiopsy Guided by Radial Endobronchial Ultrasound for Peripheral Lung Lesions, Using Bronchial Branch Tracing as a Navigation Tool, Without Guide Sheath or Fluoroscopy

**P591** Efficacy and Safety of Medical Thoracoscopy (MT) Combined With Argon Plasma Coagulation (APC) in the Treatment of Intractable Pneumothorax

**P592** The Efficacy of Repeat Talc Pleurodesis After Initial Failure

**P593** The Incidence of Post-procedure Pneumothorax Between Spiration Versus Zephyr Endobronchial Valves; A Single-institution Retrospective Study

**P594** Successful Right Upper Lobe Endobronchial Valve Treatment in Emphysema Patients With an Incomplete Right Upper Lobe Fissure

**P595** One- and Two-timepoint Sparse Sampling Is Highly Predictive of Average Plasma Concentration of CFTR Modulators

**P596** Percentage of Patients Requiring Revision of BLVR: When and Why

**P597** Percentage of Patients With Fissure Integrity 80% by HRCT Referred to BLVR With Evidence of Collateral Ventilation

**P598** Evaluating Emergency Department and Hospitalization Burden in Patients With Rapidly Recurrent Malignant Pleural Effusion

**P599** Bronchoscopy in the Management of Uncontrolled Asthma: Identifying Phenotypes, Endotypes, and Alternative Diagnoses

**P600** Characterizing Adverse Events Related to the Use of the Zephyr Endobronchial Valve as Reported by the Food and Drug Administration

**P601** Ebus Guided Transbronchial Mediastinal Cryobiopsy: Brazil's First Cohort

**P602** Association of Bronchoscopy With Mortality in Immunocompromised Patients Hospitalized With Pneumonia: A Nationwide Inpatient Sample Analysis

**P603** CT-guided Lung Biopsy: Evaluating the Diagnostic Yield and Complications in One Tertiary Center Over a Period of Six Months

**P604** Inter-rater Reliability of Delphi Visual Criteria for Laryngoscopic Diagnosis of Inducible Laryngeal Obstruction

**P605** Safety of Transbronchial Lung Cryobiopsy in High-risk Patient Population: A Tertiary Center Experience

**P606** Pneumothorax From Neck Vein Access Attempts in Patients Who Use Intravenous Drugs

**P607** Performance of Closed Pleural Biopsy and Predictors of Positive Yield in Tuberculosis Endemic Country

**P608** Comparison of Microconvex vs. Phased Array Ultrasound Transducer for Visualization of Introducer Needle and Guidewire During Percutaneous Pleural Catheter Insertion

**P609** Foreign Body Aspiration. Really?



- P610** It's All in the Timing: Preliminary Data on an Alternative Tissue Plasminogen Activator (TPA) and Dornase Alfa (DNase) Dosing Schedule
- P611** Radiation Exposure in Primary Spontaneous Pneumothorax Patients

**CLINICAL****THEMATIC POSTER SESSION****B54 CASE REPORTS IN BRONCHIECTASIS AND CF**

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

Moscone Center

Area E, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P612** A Novel Pathogenic Genetic Variant in Primary Ciliary Dyskinesia
- P613** History Matters: An Atypical Presentation of Primary Ciliary Dyskinesia in an Adult With Prior Pulmonary Tuberculosis
- P614** Recurrent Bronchiectasis Exacerbation With Aspergillus Sensitivity in a Patient Common Variable Immunodeficiency and Obstructive Lung Disease - A Delicate Balance Between Anti - Infective and Immunotherapy
- P615** Perplexing Case of Severe Unilateral Cystic Bronchiectasis
- P616** A Rare Case of Kartagener's Syndrome Presenting With WHO Group III Pulmonary Hypertension
- P617** Navigating Complexities: New Bronchiectasis Diagnosis in the Context of Autoimmune Pancreatitis and Emerging Inflammatory Bowel Disease
- P618** Kartagener Syndrome Variation in Bronchial Anatomy: A Case Report
- P619** Beyond the Mirror: A Case of Kartagener's Syndrome With Situs Inversus and Chronic Respiratory Complications in an Adult Patient
- P620** Hidden in the Airways: A Rare Case of Tracheobronchopathia Osteochondroplastica
- P621** Mounier-Kuhn Syndrome in an Elderly Male With Recurrent Pulmonary Infections
- P622** Elevated Carcinoembryonic Antigen and Eosinophilia: An Unclear Relationship in a Patient With Allergic Bronchopulmonary Aspergillosis
- P623** Catastrophic Right Ventricular Failure in Bronchiectasis Exacerbation: A Terrible Occurrence
- P624** Kartagener Syndrome: Defective Cilia and Its Association With Chronic Respiratory Infections - A Case Report
- P625** Tissue Is the Issue: Unmasking a Lymphoma Presenting as Cavitary Lung Lesions
- P626** Unraveling Kartagener's: The Triad of Mystery in Cilia Dysfunction
- P627** A Rare Case of Kartagener Syndrome and Cystic Fibrosis Diagnosed Together
- P628** Case of Exogenous Lipoid Pneumonia After Partial Glossectomy and Adjuvant Radiation
- P629** Spontaneous Lung Herniation From a Stubborn Cough
- P630** Never Just a Cough: Spontaneous Lung Herniation and Its Concomitant Complications
- P631** DIPNECH: The Neuroendocrine Enigma Behind Persistent Respiratory Symptoms
- P632** Lipoid Pneumonia Presenting With Persistent Infiltrates
- P633** A Case of a Biopsy Confirming Pulmonary Hyalinizing Granuloma in a Mediastinal Lymph Node, Suggestive of Metastatic Potential
- P634** Two Cases of Syncopal Episode During Vigorous Bout of Coughing
- P635** Breaking the Mold: A Case of Cystic Fibrosis Beyond Sweat Chloride
- P636** Successful Management of ETI-Induced-Urticaria
- P637** Recurrent Bronchiectasis Exacerbations in Single Phe508del Mutation Carriers: Time to Treat as Adult Cystic Fibrosis?
- P638** Unveiling the Unexpected: Late-onset Cystic Fibrosis in a 76-year-old Woman

- P639** Detective Work in Polypharmacy: Using the Naranjo Algorithm to Pinpoint Adverse Drug Reactions in Cystic Fibrosis
- P640** Late Blooming CF: Unveiling Cystic Fibrosis in Adulthood
- P641** Never Stop Looking - Making a Genetic Diagnosis of Cystic Fibrosis in an Adult Patient With Bronchiectasis
- P642** Cystic-Fibrosis Transmembrane Conductance Regulator Related Metabolic Syndrome (CFTR) Develops Severe Cystic Fibrosis (CF) Bronchiectasis
- P643** Pregnancy in an Adult Patient With Cystic Fibrosis Treated With CFTR Modulators
- P644** A Curious Case of Bronchiectasis in a Heterozygous Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Variant Gene Carrier
- P1592** Loeys Dietz Syndrome and Epithelioid Hemangioendothelioma
- P1593** Sulfhemoglobinopathy and Hemolytic Anemia Resulting in Acute Hypoxic Respiratory Failure Secondary to Isobutyl Nitrite Inhalation
- P1594** Markedly Elevated DLCO in a Body Building Enthusiast
- P1595** A Geriatric Approach to Unexplained Dyspnea: Lurasidone-induced Extrapyrimalidal Symptoms in a Patient With COPD
- P1596** Two Arches, One Airway, Zero Room to Breathe: A Case of Laryngeal Cancer and Double Aortic Arch
- P1597** Pulmonary Embolism as a Complication of Vertebral Balloon Kyphoplasty
- P1598** The Chest Full of Urine: A Rare Complication of Kidney Surgery
- P1599** Common Sources of Error: A Case of False Refractory Peripheral Hypoxemia

## CLINICAL

## THEMATIC POSTER SESSION

**B55 CASE REPORTS IN DYSPNEA**

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

Moscone Center

Area M, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1586** A Case of Idiopathic Chronic Eosinophilic Pneumonia
- P1587** Atypical Presentation of Hematopoietic Stem Cell Transplantation Associated Thrombotic Microangiopathy
- P1588** Renal Medullary Cancer and Dyspnea: A Rare Presentation
- P1589** Costa Rica Conundrum
- P1590** Pleuroperitoneal Fistula: A Rare Cause of Recurrent Hydrothorax in a Patient Undergoing Peritoneal Dialysis
- P1591** Floating in Fluid?
- P1600** Out of Breath and Out of Place: A Case of Spontaneous Intrathoracic Lung Herniation
- P1601** Expect the Unexpected: A Classic Presentation of an Uncommon Disorder: A Case of Tracheobronchopathia Osteochondroplastica
- P1602** Persistent Hypercapnia and Heart Failure Resulting From an Elusive Myasthenic Crisis
- P1603** Pancreaticopleural Fistula Secondary to Acute Pancreatitis
- P1604** A Rare Case of Organizing Pneumonia in an Immunocompromised Host After Recurrent SARS-CoV-2 Infection
- P1605** Don't Be Tricked, It Is the Valve: An Atypical Presentation of Infective Endocarditis
- P1606** Rare Case of Nut Allergy After Lung Transplant
- P1607** Low-Grade Cryptococcal Infection of Ventriculopleural Shunt Causing a Pleural Cerebrospinal Fluid Pseudocyst
- P1608** A Curious Case of Vocal Cord Dysfunction Triggered by a Trigeminal Neuralgia Flare
- P1609** Chronic Dyspnea Leading to the Diagnosis of LRP4-positive Myasthenia Gravis

- P1610** Azygous Vein Thrombosis: A Rare Cause of Dyspnea
- P1611** From Pain Relief to Respiratory Distress: Symptomatic Hemidiaphragm Paralysis Following a Scalene Nerve Block
- P1612** Hobby Turned Hypoxic Respiratory Failure: A Case of Mushroom Grower's Disease
- P1613** From Shelf to Cyanosis: A Rare Case of Sulfhemoglobinemia Triggered by Over-the-Counter Drugs
- P1614** Cranial Nerve III Palsy: An Initial Manifestation of Hyperleukocytosis Leading to Type II MI, AHRF, and Cerebral Hematomas?
- P1615** Why Does This Patient Have Clubbing: A Rare Case of Idiopathic Primary Hypertrophic Osteoarthropathy
- P1616** Metastatic Pancreatic Adenocarcinoma With All Signs Pointing at an Active Tuberculosis Infection
- P1617** Minimally Invasive Transabdominal Repair of a Massive Incarcerated Adult Bochdalek Hernia
- P1618** Cyanosis in the Pre-op Area
- P1619** A Breath of Trouble: Klebsiella-induced Tension Pneumatocele in an Immunocompromised Host
- P1620** Unveiling Silent Culprit: Methemoglobinemia Causing Acute Hypoxic Respiratory Failure From Long-term Dapsone Use
- P1621** Pleuroperitoneal Leak: A Rare Cause of Pleural Effusion in a Peritoneal Dialysis Patient
- P1622** Coexistence of Laryngotracheal Amyloidosis, Bronchial Asthma, and COVID-19 Infection: A Complex Diagnosis of Airway Obstruction
- P1623** Masquerading as Malignancy: Laryngospasm Causing Stridor in Advanced Parkinson's Disease
- P1624** Vanishing Lung Syndrome Mimicking Pneumothorax: A Diagnostic Challenge
- P1626** Inadvertent Intrusion: A Case Report of Foreign Body Aspiration After Surgical Procedure
- P1627** Semaglutide-induced Silent Aspiration: An Unrecognized Cause of Organizing Pneumonia in a 27-year-old With Obstructive Sleep Apnea on CPAP Therapy - A Case Report

- P1628** Refractory Dyspnoea in Palliative Care: Implementing High Flow Oxygen Therapy AIRVO<sup>2</sup> Into Palliative Care and End of Life Care in the Community
- P1629** A Rare Case of Esophageal Perforation Leading to Tension Pyopneumothorax: Diagnostic and Therapeutic Challenges
- P1630** Pleural Effusion After Peritoneal Dialysis
- P1631** Giant Diaphragmatic Hiatal Hernia Presenting With Respiratory Symptoms
- P1632** Hypoxia in the Setting of a Large Hiatal Hernia in a Multimorbid Patient
- P1633** A Breathtaking Pregnancy
- P1634** A Rare Case of Pericardial Inflammatory Myofibroblastic Tumor Presenting With Dyspnea
- P1635** Shocking Degree of Degeneration: A Case of Torrential Acute Mitral Regurgitation Successfully Treated With Mitral Transcatheter Edge-to-Edge Repair (M-TEER)

## CLINICAL

## THEMATIC POSTER SESSION

### **B56** CLINICAL CONUNDRUMS: CASE REPORTS IN PLEURAL DISEASE

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

Moscone Center

Area C, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P344** Silent but Serious: A Large Loculated Pneumothorax From Pulmonary Septic Emboli - A Case Report
- P345** Persistent Complicated Pleural Effusion From "Occult" Boerhaave's Syndrome
- P346** A Rare Case of Pleural and Mediastinal Lipomatosis Contributing to Multifactorial Respiratory Failure
- P347** Recurrent Isolated Pneumothorax Unveiling a Familial Multicystic Lung Disease in a 34-Year-Old Filipino Male
- P348** A Complex Case of a Pancreaticopleural Fistula

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| <p><b>P349</b> Spontaneous Hemothorax as a Complication of Apixaban Treatment</p> <p><b>P350</b> Acute Pancreatitis Induced Hepatic Hydrothorax With Progression to Complicated Parapneumonic Effusion</p> <p><b>P351</b> Dual Fungal Empyema With Septic Shock in an Immunocompetent Patient With COPD: A Case of Candida and Aspergillus Co-infection</p> <p><b>P352</b> Traumatic Pleural Effusion: An Unexpected Cause of White Lung</p> <p><b>P353</b> Endometriosis-Associated Pleural Effusion: A Diagnostic Challenge</p> <p><b>P354</b> Using a Pigtail Catheter as an 'Empyema-tube' in the Day and Age of Intrapleural Fibrinolytic Therapy (IPFT) and Video-assisted Thoracoscopic Surgery (VATS)</p> <p><b>P355</b> Recurrent Complex Pleural Effusion and Trapped Lung in a Patient With Heart Failure and End-stage Renal Disease</p> <p><b>P356</b> Not Every Pleural Effusion Is an Empyema: A Case of Rheumatoid Arthritis Pleurisy</p> <p><b>P357</b> Cracking the Lungs. A Rare Cause of Bilateral Pleural Effusions</p> <p><b>P358</b> A Diagnostic Challenge of Recurring Unexplained Pneumothoraces</p> | <p><b>P41</b> Application of an Artificial Intelligence Model to Detect Alpha-1 Antitrypsin Deficiency: Model Performance</p> <p><b>P42</b> Enhancing Early Diagnosis of Alpha 1 Antitrypsin Deficiency Through Genetic Testing: The AlphaD at Home Service</p> <p><b>P43</b> Bridging the Gap in RSV Detection: Nursing Home Respiratory Pathogen Detection and Reporting With Enhanced Surveillance</p> <p><b>P44</b> Reports of Telemedicine Treatment Methodologies for Smoking Cessation - Experience in Service With 350 Patients During 3 Years, in Brazil</p> <p><b>P45</b> Identifying Barriers to Appropriate Identification and Treatment of Smoking</p> <p><b>P46</b> Knowledge, Attitude and Practice of Smoking Vape Among Medical Students in Karachi, Pakistan</p> <p><b>P47</b> A New Approach to Analyzing Occupational Health Outcomes Using Multiple Imputation</p> <p><b>P48</b> Interprofessional Discussion for Knowledge Transfer in a Digital 'Community of Practice' for Managing Pneumoconiosis: A Mixed Methods Study</p> <p><b>P49</b> Genai Facilitated Precision Communication for Occupational Lung Disease</p> <p><b>P50</b> Under-diagnosis of Silicosis by Pathologists in Current Global Epidemic of Accelerated Silicosis in Engineered Stone Workers</p> <p><b>P51</b> Assessing Occupational Health Hazards Among Solid Waste Workers in a Developing Country: A Cross-sectional Mixed-methods Study From a Metropolitan City in India</p> <p><b>P52</b> Predictive Modeling of Lung Function Using Error Controlled Variable Selection</p> <p><b>P53</b> E/e' Ratio as a Marker of Left Ventricular Diastolic Dysfunction in Chronic Obstructive Pulmonary Disease: A Meta-analysis</p> <p><b>P54</b> Study of QT Prolongation in Electrocardiogram in Type 2 Diabetes Mellitus Patients and Its Correlation to Hemoglobin A1C Levels</p> <p><b>P55</b> Role of Forced Vital Capacity in Inhalation Provocation Tests for Diagnosing Chronic Hypersensitivity Pneumonitis</p> |
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### CLINICAL • TRANSLATIONAL

### THEMATIC POSTER SESSION

## **B57 EXPLORING NOVEL DIAGNOSTICS AND INTERVENTIONS TO IMPROVE LUNG HEALTH**

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

Moscone Center

Area A, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P40** Application of an Artificial Intelligence Model to Detect Alpha-1 Antitrypsin Deficiency: Characterizing the Study Population



- P56** Investigating Associations Between Pulmonary Function Tests (PFTS) and Dyspnea Index Scores Among Patients With Lung Symptoms in India
- P57** The Effect of Long-Term Home Oxygen Therapy for Patients With Pneumoconiosis Complicated by Moderate to Severe Hypoxemia
- P58** Interim Study Analysis Supports Experimental Use of Exhaled Breath Analysis for ILD Diagnosis
- P59** Artificial Intelligence (AI) and Asthma
- P60** Lung Function After Randomization to Metformin, Lifestyle Intervention or Placebo in the Diabetes Prevention Program Outcome Study (DPPOS)

### TRANSLATIONAL

### THEMATIC POSTER SESSION

## **B58** EPIDEMIOLOGICAL INSIGHTS INTO LUNG HEALTH AND DISEASE RISK

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

Moscone Center

Area A, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P62** Incidence of Adult-diagnosed Asthma in Relation to Obesity and Weight Change: An 8-year Longitudinal Study
- P63** Asthma Outcomes in a Safety Net Hospital System: A Comparative Study With a National Database
- P64** One Year Risk Prediction Model for Cardiovascular Disease for Adults With Asthma in England
- P65** Inhaled Corticosteroid Associations With Pneumonia and Exacerbations in Patients With COPD and Asthma
- P66** Hysterectomy Influences Asthma Risk and Severity in Menopausal Women
- P67** Menopause Is Not Associated With Asthma or Severe Asthma
- P68** Association Between Early Menopause and Asthma/COPD Status: An Analysis of NHANES Data From 2017-2020

- P69** Use of Fertility Treatment in Women With Asthma and Atopic Dermatitis
- P70** Asthma Among African Adolescents: Findings From the Chronic Respiratory Disease Observatory for Africa (CHEST-Africa)
- P71** Characteristics of T2-low and T2-high Childhood Asthma in a Population-based Study
- P72** Estimated Annual Agricultural Chlorpyrifos Use in County of Residence During Birth Year Predicts Exercise-induced Wheeze at Ages 3-12
- P73** IgE-mediated Sensitization and Indoor Allergen and Endotoxin Exposures in Relation to Asthma and Wheeze
- P74** Allergic Sensitization and Respiratory Health in Children With Asthma in the Eastern Mediterranean
- P75** Asthma in All Walks of Life: A Socioeconomic Perspective
- P76** More Than Just Lungs: The Cardiovascular Impact of COPD
- P77** Reduced Work Productivity (presenteeism) Among Japanese Workers With Asthma or Respiratory Symptoms: The Japanese Red Cross Kumamoto Study
- P78** Comparison of Systemic Corticosteroid Use (SCS) for Asthma in Family Medicine Versus Internal Medicine Specialty Care: A Real-world Study Using Immunolab, a Rwe-generation Platform
- P79** Tobacco Smoke Exposure Decreases Longitudinal Efficacy of Elexacaftor/Tezacaftor/Ivacaftor in Cystic Fibrosis
- P80** What Is the Current Clinical and Economic Burden of Difficult to Treat or Severe Asthma and Severe COPD in the US?
- P81** A Geospatial Analysis Identifying Hot Spots of Asthma Emergency Department Visits in the Denver Metro Area
- P82** Ambient Fine Particulate Matter Exposures, Platelet Activation and Respiratory Morbidity in COPD: The SPIROMICS Air Study
- P83** COPD and Secondary Pulmonary Hypertension: Shifting Mortality Trends, Geographic Disparities, and Racial/Ethnic Variations in the U.S.

- P84** Impact of Age, BMI, and Lung Function on Osteoporosis Risk in COPD Patients: A Comparative Cohort Analysis
- P85** Lower Indoor Humidity Associated With Greater Limitations in Activity for People With COPD
- P86** Association of Secondhand Smoke Exposure and Respiratory Health Outcomes in Never-Smoking Adults: The NHLBI Pooled Cohorts Study
- P87** The Epidemiological Study and Influencing Factors of Chronic Cough in Adults in the Chengdu-Chongqing Region
- P88** Prevalence and Risk Factors of Dry Cough in the General Adult Population: A Cross-sectional Study in Finland
- P89** A Study of the Association Between Diabetic Complications and Diagnosis of Pulmonary Fibrosis
- P90** Analysis of the Relationship Between Prism, Diastolic Dysfunction, and Obesity
- P91** Real-World Prevalence and Characteristics of Patients With Obesity Hypoventilation Syndrome: A Retrospective Cohort Analysis of Medicare Fee-For-Service Claims Data
- P92** Trends and Disparities in Obstructive Sleep Apnea Related to the Atrial Fibrillation in the United States From 1999 to 2020
- P93** Incidence, Prevalence, and Mortality of Bronchiectasis in England From 2015 to 2019 Using Routine Electronic Healthcare Data
- P94** Maternal Acculturation and Child Asthma Trajectories Throughout Adolescence in the CHAMACOS Study
- P95** Analyzing COPD Mortality Clusters in North Carolina, 2018-2022: A Space-Time Poisson Approach
- P96** Understanding Asthma Heritability: A Systematic Review and Meta-analysis of Genome-wide Association Study Findings Across Ancestries and Ethnicities

## BASIC • CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

## **B59 SILENT ASSAULTS: LUNG DISEASE AND INFLAMMATION FROM DUST, FIRES, BLASTS, MILITARY DEPLOYMENT, AND THE WTC COLLAPSE**

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

Moscone Center

Area A, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P97** Inhaled Halogen-induced Oxidative Renal Damage and Dysfunction
- P98** An Acute Porcine Phosgene Pulmonary Injury Model: Potential Biomarkers and Drug Targets
- P99** Altered Transcriptional and Proteomic Profiles in a Mouse Model of Nitrogen Mustard-induced Lung Injury
- P100** Civilian Occupational Exposures and Current Respiratory Symptoms in Veterans Previously Deployed to Southwest Asia and Afghanistan
- P101** Alterations in Mechanosensitive Ion Channels, Piezo-1 and Piezo-2, in Lungs Following Low-level Repeated Blast Exposure
- P102** Blast Exposure and Associations With Respiratory Symptoms Among Deployed Military Veterans to Southwest Asia and Afghanistan
- P103** Severity of Blast Exposure Is Associated With Self-reported Dyspnea But Not Pulmonary Function Test Measures in US Veterans
- P104** Evaluation of a Structured Deployment Exposure Questionnaire Designed for Epidemiological Study in a Veteran Cohort Undergoing Clinical Evaluation
- P105** Mitochondrial Dysfunction in Peripheral Blood Mononuclear Cells Is a Pathologic Feature of Deployment-related Respiratory Disease

- P106** Dyspnea Severity and Its Association With Respiratory Oscillometry Measures Among Veterans With Preserved Pulmonary Function Tests in a National Clinical Cohort From the Post-Deployment Cardiopulmonary Evaluation Network
- P107** Associations Between the Lung Clearance Index With Pulmonary Function and Symptoms in Post-deployment US Veterans
- P108** Quantitative Chest CT-defined Structure and Diffusion Capacity in Post-deployment US Veterans
- P109** Chest Computed Tomography and Ultrasound in Veterans and Military Contractors Exposed to Burn Pits in Iraq and Afghanistan
- P110** Radiologic Emphysema Scores in Ever vs. Never Smokers With COPD From the World Trade Center (WTC) General Responders' Cohort
- P111** The Utility of Entropy as a Measure Respiratory Adaptability During Exercise in Blast-exposed Veterans
- P112** Exercise-Induced Pulmonary Vascular Hemodynamic Abnormalities in Previously Deployed Veterans With Low Echocardiographic Probability at Rest May Contribute to Exertional Symptoms
- P113** Asthma Endotypes in Southwest Asia Deployment-related Asthma
- P114** Visit-To-Visit FEV<sub>1</sub> Variability and Mortality in FDNY Rescue and Recovery Workers and the General Population-Based Rotterdam Study
- P115** The Aging Lung: Evolution of Biomarkers of World Trade Center Lung Injury
- P116** Antioxidant Activity Is Associated With Neurocognitive Protection After World Trade Center Particulate Matter Exposure
- P117** Total Antioxidant Capacity (TAC)-ing Away to Better Cardiovascular Health: Antioxidant Phenotype of WTC-exposed Firefighters
- P118** Go With Your Gut! Microbiome Changes of the Firehouse Dietary Intervention for Health
- P119** Residential Fires: HOME SWEET HOME, Not So Sweet!

- P120** A Phosphodiesterase-4b Inhibitor, Nerandomilast Ameliorates Silica-induced Lung Inflammation and Fibrosis in Mice by Inhibiting NLRP3 Inflammasome Activation and the TGF- $\beta$ /SMAD Pathway
- P121** Surfactant Lipid Compositional Is Affected by Exposure to Welding Fumes and Associated With Inflammatory Activity and Resistance in Small Airways
- P122** Airborne Hazards and Open Burn Pit Registry: Profile of the Legacy Research Cohort
- P123** Role of Persistent Neutrophilic Inflammation in Toxin Exposure Mediated Constrictive Bronchiolitis

### BEHAVIORAL • CLINICAL • TRANSLATIONAL

### THEMATIC POSTER SESSION

## **B60 ADVANCING PATIENT CARE: THE INTERCONNECTION OF TRAINING, PERSPECTIVES, AND CLINICAL RESULTS IN RESPIRATORY HEALTH**

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

Moscone Center

Area B, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P152** Effect of Targeted Education for Nursing Staff on Nursing Understanding of Incentive Spirometry and Successful Patient Incentive Spirometer Use
- P153** Healthcare Professionals' Perception of Palliative Extubation in a Neurological Intensive Care Unit in Colombia
- P154** Associations of Psychological and Respiratory Symptoms With Clinical Outcomes Among Patient With Chronic Obstructive Pulmonary Disease
- P155** Time to Blood Product Transfusion in Acute Chest Syndrome: A Retrospective Study
- P156** How Nurses and Families Perceive Their Roles in the Intensive Care Unit (ICU) and Associated Challenges
- P157** Impact of Cognitive Impairment on End-Of-Life Care in Patients With Respiratory Cancers

**P158** Barriers to Participation in Virtual Oxygen Saturation Monitoring and the Impact of a “No-smartphone” Solution

### BASIC • TRANSLATIONAL

### THEMATIC POSTER SESSION

## **B61 YERBA BUENA: AI-DRIVEN DIAGNOSTICS AND PROGNOSTIC MODELS AND OUTCOMES IN PULMONARY EMBOLISM AND PULMONARY HYPERTENSION**

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

Moscone Center

Area F, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

**P655** Association Between Predicted Cardiac Age and Right Ventricular Dysfunction Based on Electrocardiogram Artificial Intelligence in Acute Pulmonary Embolism

**P656** Use of Machine Learning to Identify Patients With Chronic Thromboembolic Disease From Narrative Reports of Contrast-enhanced Computed Tomography Scans

**P657** Analysis of Patients With COPD and Pulmonary Hypertension (COPD-PH) Phenotypes Using Artificial Intelligence (AI) Based Software of CT Chest Imaging

**P658** Diagnostic Accuracy of an Artificial Intelligence (AI) Based Quantitative CT Scan Software in Differentiating Various Phenotypes of COPD-PH

**P659** Outcomes of Patients With Intermediate-Low Risk Acute Pulmonary Embolism Managed in the Intensive Care Unit Versus Medicine Floors: A Propensity Score-Matched Analysis

**P660** Evaluating the Predictive Value of Clinical Risk Scores for Intensive Care Unit Admission in Low- and Intermediate-risk Acute Pulmonary Embolism: A Retrospective Analysis From a Multicenter Health System

**P661** Assessing the Role of the Composite Pulmonary Embolism Shock Score in Outcome Prediction of Intermediate-risk Pulmonary Embolism

**P662** Clinical Outcomes After Sonographic Assessment of Pulmonary Vascular Pressures in the Critically Ill

**P663** 30- and 90-day Rehospitalization Rates for Patients With Pulmonary Embolism Complicated by Pulmonary Infarction

**P664** Inspiris RESILIA Valve in Pulmonary Position: Outcomes, Concerns, Controversies

**P665** Determinants of Hemodynamic Response and Complication Rates in Pulmonary Embolism Patients Undergoing Percutaneous Mechanical Embolectomy: Insights From a Large Single-center Retrospective Study

**P666** Periprocedural Clinical Deterioration during Interventional Reperfusion Therapy for Severe Pulmonary Embolism - A Retrospective Analysis of a Rural Tertiary Center Experience

**P667** Impact of Renin-Angiotensin-Aldosterone System Inhibitor Use on Mortality in Group III Pulmonary Hypertension

**P668** Validation Pipeline for Unstructured Data Extraction Using Artificial Intelligence

**P669** On Behalf of Temple Lung PVD Program: Comparing the Use of Modified Early Warning Score and National Early Warning Score to Predict Intervention in Patients With Intermediate High-risk Pulmonary Embolisms

**P670** Exploring Risk Stratification in Patients With Pulmonary Embolism Detected by Artificial Intelligence

**P671** Association Between BMI and Incidence of Pulmonary Embolism - A Retrospective Case Control Study

**P672** Socioeconomic Determinants and Incidence of Pulmonary Embolism - A Retrospective Case Control Study

**P673** Pregnancy and Pulmonary Hypertension - A Survival Analysis From Southern Brazil

**P674** Heart Failure-induced Changes in Lungs: Insights From AI-augmented Quantitative Analysis of Photon-counting Computer Tomography

**P675** Predictors of Quality of Life in Patients With Portopulmonary Hypertension (POPH): The Pulmonary Hypertension Association Registry



**P676 Association of Borderline Pulmonary Artery Wedge Pressure With Adverse Clinical Outcomes in Patients With Advanced Chronic Kidney Disease**

### BASIC • TRANSLATIONAL

### THEMATIC POSTER SESSION

## **B62 NORTH BEACH: ADVANCES IN PULMONARY HYPERTENSION DIAGNOSTICS AND HEMODYNAMICS**

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

Moscone Center

Area F, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

**P678 Skeletal Muscle Oxidative Capacity Is Impaired in Middle-Aged Adults With Pulmonary Arterial Hypertension: A Pilot Study**

**P679 Quantification of Lung Water by Thoracic CT in Heart Failure Patients**

**P680 Novel Three-Dimensional Electrical Impedance Tomography for Noninvasive Detection of Lung Perfusion**

**P681 Serum C-Reactive Protein Levels Is Associated With Poor Response to Treatment and Increased Mortality Risk in Pulmonary Arterial Hypertension Patients**

**P682 Pulmonary Hypertension - A Risk Factor for Bacterial Pneumonia**

**P683 Effects on Inhaled Nitric Oxide With and Without Lung Recruitment on Right Ventricular Function After Cardiac Surgery**

**P684 Longitudinal Echocardiographic Outcomes in Methamphetamine Associated Pulmonary Arterial Hypertension**

**P685 PHIND Program: The Development of an Automated Referral System Through the Evaluation of Routinely Obtained Echocardiograms to Screen for the Presence of Precapillary Pulmonary Hypertension**

**P686 Venous Excess Ultrasound Score (VExUS) Component Analysis**

**P687 Serum C-Reactive Protein Levels in Pulmonary Hypertension Due to Left Heart Disease: Influence on Disease Severity and Outcomes**

**P688 Use of Right Heart Catheterization and Echocardiogram in Patients With Pulmonary Arterial Hypertension and Decompensated Congestive Heart Failure in the Intensive Care Unit**

**P689 Frequency of Sarcopenia, Frailty and Muscular Performance in Patients With Pulmonary Arterial Hypertension and Chronic Thromboembolic Pulmonary Hypertension**

**P690 Biventricular Volumes and Cardiac Hemodynamics During Exercise in Prematurely Born Adults**

**P691 Adherence of Echocardiography to European Society of Cardiology Guidelines in the Evaluation of Pulmonary Embolism: Opportunities to Enhance Diagnostic Efficacy**

**P692 Consultation and Echocardiography Timing for Duke Health Patients With Pulmonary Embolism Diagnosed Via Computed Tomography**

**P693 A Bridge to Somewhere: VA-ECMO as a Bridge to Recovery in Pulmonary Arterial Hypertension**

**P694 Re-evaluation of D-dimer Thresholds in the Diagnosis of Pulmonary Embolism: Advancing Towards Enhanced Safety and Cost-efficiency**

**P695 Evaluation of the D-dimer as a Probable Factor Contributing to the Overutilization of Computed Tomography Pulmonary Angiogram for Suspected Pulmonary Embolism**

**P696 Pulmonary Arterial Pulsatility Index in Portopulmonary Hypertension**

**P697 Phenotypic Analysis of Pulmonary Hypertension Associated With Low Diffusion Capacity and Preserved Lung Function**

**P698 Association of Pulmonary Vascular Metrics on CT With Hemodynamic Alterations in Pulmonary Hypertension**

**P699 Prognostic Value of Follow-up Mean Pulmonary Arterial Pressure and Pulmonary Vascular Resistance in Patients With Pulmonary Arterial Hypertension Reaching a Low-Risk Profile**

**P700 Paracardial Adipose Tissue and Right Ventricular Dysfunction in Pulmonary Arterial Hypertension**

**BASIC • TRANSLATIONAL****THEMATIC POSTER SESSION****B63 NOB HILL: VASCULAR CELL DYSFUNCTION, IMMUNE AND INFLAMMATORY SIGNALING IN PULMONARY VASCULAR DISEASES**

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

Moscone Center

Area F, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P702 Circulating EC-SOD Attenuates Inflammation and Hemodynamic Changes in Pulmonary Hypertension
- P703 Hypoxia-Induced NLRP3 Inflammasome Activation in a Cellular Model for Pulmonary Arterial Hypertension
- P704 The Proportion of Transmembrane Lysyl-tRNA Synthetase 1 Positive Circulating Monocytes Is Increased in Patients With Pulmonary Arterial Hypertension (PAH)
- P705 Increased Circulating CD16+/56+ NK Cells in Sarcoidosis-associated Pulmonary Hypertension
- P706 Enterocyte Scd1 Promotes Western Diet Mediated Systemic Inflammation, Dysbiosis and Pulmonary Hypertension
- P707 Immune Profile of Peripheral Blood Mononuclear Cells in Patients With Schistosoma-induced Pulmonary Hypertension
- P708 Hypoxia Inducible Factor-1 in Fractalkine Receptor (CX3CR1)-expressing Cells Is Dispensable to Schistosomiasis-induced Pulmonary Hypertension
- P709 Plasma TGF- $\beta$ 1 in Patients at Risk for Schistosomiasis-associated Pulmonary Hypertension
- P710 Mas1 Receptor Activation Is Necessary and Sufficient to Transduce ACE2 Effect in PAH, but Ang(1-7) Is Not the Ligand
- P711 Higher Levels of Oxidized LDL and Soluble LOX-1 Are Associated With Vascular Dysfunction and Changes in Inflammatory Markers in Sepsis

- P712 Endothelial Actin Fence Protects Against Lung Injury Due to Gram-negative Bacteremia
- P713 Effect of Incretin-based Therapy on Lung Ischemia-reperfusion Injury in High-Fat Diet-induced Obese Mice
- P714 Role of Conventional Dendritic Cells Type 2 in Schistosoma-induced Pulmonary Hypertension

**BASIC • CLINICAL • TRANSLATIONAL****THEMATIC POSTER SESSION****B64 GHIRARDELLI SQUARE: RIGHT VENTRICULAR DYSFUNCTION IN PULMONARY HYPERTENSION: MECHANISMS, MARKERS AND INTERVENTIONS**

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

Moscone Center

Area E, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P645 Noninvasive Dead Space Using Transcutaneous Carbon Dioxide Pressure Outperforms Ventilation to Carbon Dioxide Ratio in Cardiopulmonary Exercise Testing
- P646 Sexual Dimorphisms and Effect of High Intensity Exercise Intervention on Metabolomics in Rat Sugen Hypoxia Pulmonary Hypertension
- P647 Cardiac Electrical Remodeling in a Rat Model of Severe Pulmonary Arterial Hypertension and Right Heart Failure
- P648 The Ciboterecept Analog RKER-012 Did Not Inhibit BMP/ALK1-dependent Retinal Neovascularization
- P649 Impaired Mitochondrial Bioenergetics Is a Distinct Characteristic in Right Ventricle in Pulmonary Hypertension
- P650 Prophylactic Enzastaurin Treatment Reduced Right Ventricular Fibrosis and Alleviated Right Ventricular Dysfunction in a Mouse Model of Pressure-overloaded RV Failure

**P651** Role of Stem Cell Antigen-1 Expressing Cells in Right Ventricular Remodelling in Chronic Hypoxia-induced Pulmonary Hypertension

**P652** Investigating the Diversity of Right Ventricular (RV) Macrophages and Their Relationship With the Incidence of Circulating Inflammatory Monocytes and RV Dysfunction: A Longitudinal Study in Rats With Monocrotaline Induced Pulmonary Hypertension

### BASIC • TRANSLATIONAL

### THEMATIC POSTER SESSION

## **B65** LOST IN MARKET STREET: CLOTS, HEARTS, AND PRESSURE: NAVIGATING THE MAZE OF PE, PH AND RV DYSFUNCTION CASE REPORTS

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

Moscone Center

Area F, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

**P716** Catastrophic Carbon Dioxide Pulmonary Embolism

**P717** Triple Cannulation Extracorporeal Membrane Oxygenation in Pulmonary Embolism Associated Pulmonary Hemorrhage Syndrome

**P718** A Fatal Case of Pulmonary Tumor Thrombotic Microangiopathy as the First Manifestation of Breast Cancer Recurrence

**P719** B-Cell Lymphoma Presenting as Ovarian and Cardiac Masses With Diffuse Venous Thromboembolism and the Role of Multidisciplinary Discussion

**P720** Beyond Blood Clots: A Case of Postpartum Non-Thrombotic Pulmonary Embolism

**P721** Case Series of Cocaine-induced Pulmonary Embolism: An Unexpected Association or Emerging Trend?

**P722** Navigating the Double-edged Sword: Managing Massive Pulmonary Embolism Complicated by Hemothorax and Pulmonary Infarction

**P723** Paradoxical Embolism in a Patient With Massive Pulmonary Emboli and Patent Foramen Ovale Masquerading as Shock

**P724** A Clean Sweep: Vacuum-assisted Thrombectomy of Right Atrial Thrombus in a Critically Ill Patient

**P725** Pulmonary Tumor Thrombotic Microangiopathy as First Manifestation of Malignancy

**P726** Rescue Therapy With Tenecteplase for Massive Pulmonary Embolism: A Case Report

**P727** Pulmonary Embolism Presenting as Tachycardia in Acute Psychosis: An Unusual Side Effect of Clozapine Therapy

**P728** When the Defense Against Embolism Embolizes: Recurrent Pericarditis Caused by IVC Filter Strut Fracture and Migration

**P729** Clot Chronicles: Documenting Cases of Thrombi in Transit

**P730** Successful Recovery Despite 130 Minutes of Prolonged and Recurrent Pulseless Electrical Activity Caused by Massive Pulmonary Embolism Due to Popliteal Venous Aneurysm

**P731** A Rare Case of Ventricular Tachycardia as the Initial Manifestation of Pulmonary Embolism

**P732** Severe Peripartum Cardiomyopathy With Concurrent Pulmonary Embolism: A Rare Presentation

**P733** Misleading ST-Segment Elevation: A Fatal Case of Pulmonary Embolism Presenting as Acute Coronary Syndrome

**P734** Uncommon but Real: Pulmonary Embolism in a Young CrossFit® Athlete - A Case Report Highlighting the Risks of Supplements and Missed Diagnoses

**P735** Intermediate-High Risk Pulmonary Embolism Presenting With Profound Hypoxemia

**P736** Rock and a Hard Place: Weighing: The Pros and Cons of Anticoagulation in a Patient With Moderate Hemoptysis With Prior Pulmonary Emboli From Homozygous Factor V Leiden

**P737** One Shunt of a Kind: A Case of Systemic Paradoxical Emboli Through an Intrapulmonary Shunt

- P738 **Bloody Awful: Acute Hemoptysis in Possible Substance-Induced Pulmonary Vein Thrombosis**
- P739 **Decompression of Near Occlusive Pulmonary Embolism Via Patent Foramen Ovale: A Case of Platypnea-Orthodeoxia**
- P740 **Concrete Evidence: A Case of Pulmonary Cement Emboli Following Thoracolumbar Kyphoplasty**
- P741 **Unveiling Silent Fatality: A Case Presentation of Chronic Pulmonary Vein Thrombosis**
- P742 **Thrombolysis for Pulmonary Embolism - Patience Is a Virtue**
- P743 **Unlikely Diagnosis of Pulmonary Embolism in Setting of Coumadin Failure**
- P744 **Whispers of the Heart: Diagnosing Pulmonary Embolism Behind Abdominal Pain and Subtle ECG Clues in a Postoperative Patient**
- P745 **Silent Strain: Unmasking Massive Pulmonary Embolism in a Stable Cancer Patient**
- P746 **An Unusual Case of Pulmonary Venous Thrombosis in a 74-Year-Old Woman After Breast Mastopexy**
- P747 **Bilateral Pulmonary Embolism Without Hypoxia: A Case Report**
- P748 **A Rare Case of Fibrosing Mediastinitis Complicated by Pulmonary Venous Occlusion and Pulmonary Artery Thrombosis**
- P749 **A Rare Case of Pulmonary Tumor Thrombotic Microangiopathy From Metastatic Breast Cancer**
- P750 **Saddle Pulmonary Embolism Secondary to Nitrous Oxide Use: A Case Report**
- P751 **When Clots and Bleeding Collide: A Case of Bilateral Pulmonary Embolism With Hemoptysis and Pleural Effusion**
- P752 **A Lethal Case of Post-operative RV Failure Following Excision of a Clot-in-Transit Through a Patent Foramen Ovale**
- P753 **Reversal Of Acute Cor Pulmonale With Mechanical Thrombectomy In The Community Setting**
- P754 **A Clot of Steal: The Clot Thickens**
- P755 **Stuck Between a Rock and a Hard Space - A Case of PE in the Setting of a Largely Patent PFO**
- P756 **Pulmonary Artery Thrombosis and Ulcerative Colitis**

- P757 **Management of Recurrent Right Ventricular Thrombi With Concomitant Idiopathic Thrombocytopenia**
- P758 **A Patient With Post Pulmonary Embolism Syndrome Due to Chronic Thromboembolic Disease**
- P759 **Intermediate-high Risk Acute Pulmonary Embolism With Data of High Probability of Pulmonaryhypertension in the Late Puerperium: Case Presentation**
- P760 **Silent Subsegmental Pulmonary Embolism in COVID 19**
- P761 **Against All Odds: Surviving Bloods Clots**

### BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

### THEMATIC POSTER SESSION

## B66 BRONCHOPULMONARY DYSPLASIA AND CONGENITAL CARDIORESPIRATORY DISEASES

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

Moscone Center

Area B, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P160 **Diuretic Prescriptions During Postnatal Maturation in Extremely Preterm Infants Admitted to United States Children's Hospitals**
- P161 **Can Recorded Home Oximetry Predict Respiratory Adverse Events in Preterm Infants Requiring Home Oxygen Therapy**
- P162 **Predictors of Extended Duration of Home Oxygen Therapy (HOT) in Infants Born Preterm and Diagnosed With Bronchopulmonary Dysplasia**
- P163 **Prognosticating Breathlessness in Early Life: Explorative Study of Clinical Spectrum and Outcomes in Newborn With Respiratory Disorders Admitted in NICU**
- P164 **Improvement in Short-term Outcomes for Infants With Bronchopulmonary Dysplasia (BPD) in a Level 4 NICU Following Implementation of a Multidisciplinary BPD Program**



- P165** Neurocranial and Maxillofacial Changes in Children With Bronchopulmonary Dysplasia (BPD) - Clinical and Radiological Insights From a Single Center Study
- P166** Predictors of the Duration of Invasive Home Mechanical Ventilation in Infants With Moderate-Severe Bronchopulmonary Dysplasia ( BPD)
- P167** Risk Factors for Severe Respiratory Morbidity at 2 Years of Life in Children Born Extremely Preterm With Bronchopulmonary Dysplasia
- P168** Research Participant-centered Outcomes From the Extended Continuous Positive Airway Pressure (eCPAP) Randomized Controlled Trial
- P169** Trends of Congenital Pulmonary Airway Malformation (CPAMs) in Haidian District, Beijing, 2013-2023
- P170** Heterogeneity of Congenital Laryngomalacia Phenotype: Cluster Analysis
- P171** Impact of Posterior Tracheopexy on Morbidity and Survival in Children With Severe Tracheomalacia
- P172** Relationship Between End Systolic Eccentricity Index and Pulmonary Hypertension in Neonates With Congenital Diaphragmatic Hernia
- P173** Inpatient Characteristics and Clinical Outcomes for Children With Congenital Diaphragmatic Hernia Treated Pulmonary Hypertension
- P174** Pulmonary Comorbidities in Children and Young Adults With Single Ventricle Congenital Heart Disease Status Post Fontan Surgery
- P175** A Case of Severe Unresolving Pneumonia in a Two-year-old Boy: A Diagnostic Challenge and Thoracic CT Revealing Underlying Congenital Pulmonary Airway Malformation
- P176** Severe Multi-Lobar Fibrotic Emphysema in a Full-term Infant
- P177** The Lobe Less Traveled: An Adult's Unexpected Journey With Congenital Lobar Emphysema
- P178** A Familial Occurrence of Congenital Subglottic Stenosis
- P179** When Stridor Persists: A Case of Pulmonary Artery Sling Masquerading as Viral Croup
- P180** Survival of an Infant With PTPRQ Deletion With Congenital Absence of the Anterior Chest Wall

- P181** Diaphragmatic Dysfunction and Management in PBX1 Mediated Neonatal Respiratory Failure
- P182** Failure to Thrive in Infancy: A Case of Innominate Artery Compression Syndrome
- P183** Altered Lung-Gut Microbiome in Premature Infants With Bronchopulmonary Dysplasia
- P184** Volatile Organic Compounds in Incubator Air to Predict Bronchopulmonary Dysplasia
- P185** Assessing The Relationship Between Markers Of And Potential Risk Factors For Metabolic Bone Disease In Extremely Low Gestational Age Newborns

## BEHAVIORAL • CLINICAL • TRANSLATIONAL

### THEMATIC POSTER SESSION

#### **B67** PEDIATRIC SLEEP, NEUROMUSCULAR, AND CONTROL OF BREATHING DISORDERS

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

Moscone Center

Area B, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P187** Impact of Cognitive Load on Respiratory Physiology in Pediatric and Young Adults With Congenital Central Hypoventilation Syndrome (CCHS): A Comparative Analysis of Respiratory Supported and Spontaneous Breathing Cohorts
- P188** Heart Rate Variability Measurement Through a Smart Wearable Device in Congenital Central Hypoventilation Syndrome (CCHS): Influence of PHOX2B Genotype
- P189** Sleep Disordered Breathing and Its Predictors in Pediatric Muscular Dystrophies
- P190** Combined Pulmonary and Neurology Clinic - One Center's Experience With Spinal Muscular Atrophy
- P191** Cardiometabolic Measures in Children Born to Mothers With Gestational Sleep-disordered Breathing: A Pilot Study
- P192** Dexamethasone as a Novel Treatment for Obstructive Sleep Apnea in Children

- P193 Characterizing Inflammation of Nasal Epithelial Cells in Children With Obstructive Sleep Apnea
- P194 Sleeve Surgery Outcomes in Trisomy 21 Patients With Obesity and Severe Obstructive Sleep Apnea
- P195 Long Term Outcomes of Lingual Tonsillectomy on Children With Obstructive Sleep Apnea (OSA)
- P196 Evaluation of a New Threshold for Positive Airway Pressure Therapy Adherence in Paediatric Populations
- P197 Extreme Pediatric Obstructive Sleep Apnea: Clinical Features, Surgical Management, and Long-term Outcomes
- P198 Home Polygraphy in Children With Autism Spectrum Disorder: A Feasibility Study
- P199 Correlation Between Body Mass Index and Obstructive Sleep Apnea Severity in Pediatric Sick Cell Patients
- P200 Obstructive Sleep Apnea (OSA) in Children and Residual OSA Post-adenoidectomy and/or Tonsillectomy at High Altitude
- P201 Prevalence and Risk Factors of Sleep Disordered Breathing in School-aged Children With Bronchopulmonary Dysplasia
- P202 Positional Therapy for the Treatment of Obstructive Sleep Apnea in Children: A Qualitative Study
- P203 Does Conservative Management Reduce Adenoidectomy Needs in Children With Obstructive Sleep Apnea?
- P204 Clinical and Polysomnographic Features Associated With Duration of Home Oxygen Therapy in Neonates
- P205 Screening for Obstructive Sleep Apnea in the Resource-limited Setting of the COVID-19 Pandemic (SPARE Study)
- P206 Congenital Central Hypoventilation Syndrome: Late Onset Diagnosis and Successful Treatment With Non- Invasive Mechanical Ventilation
- P207 Severe Complex Sleep Apnea in an Infant With Sotos Syndrome
- P208 Congenital Central Hypoventilation Syndrome: The Severe Extreme
- P209 Paradoxical Vocal Cord Movement in a 7 Year-Old Boy with Obstructive Sleep Apnea

- P210 Charcot-Marie-Tooth Type 1: Highlighting the Importance of Respiratory Outcomes and Physical Therapy Interventions
- P211 Febrile Infection-related Epilepsy Syndrome (FIRES) Impact on Metabolism During Pediatric Mechanical Ventilation; Predictive Energy Intake Versus Indirect Calorimetry
- P212 Liberation From Long-term Invasive Mechanical Ventilation in Pediatric Patients at Long-term Care Facilities Without Polysomnography: A Case Series
- P213 Non-invasive Ventilation and GLP-1 Agonist to Treat Obesity Hypoventilation Syndrome in a Child With Prader Willi Syndrome and Parasomnias
- P214 Racial/Ethnic Disparities in Polysomnographic Obstructive Sleep Apnea Severity Among School-Aged Children in Southern California

## CLINICAL

## THEMATIC POSTER SESSION

### B68 PEDIATRIC INFECTIOUS DISEASES IMPACTING THE LUNGS

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

Moscone Center

Area B, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P216 HSV1 Pneumonia With Airway Hemorrhage in a Pediatric Patient With GRIN2D Mutation
- P217 A Single Pulmonary Cyst in a Child: Keep Echinococcosis Hydatid Disease in Mind as a Differential Diagnosis
- P218 On Full Blast: A 16-Year-Old With Pulmonary Blastomycosis
- P219 Oh My...cotic Aneurysm and Pulmonary Cavitary Lesions From Infective Endocarditis in a 6-Year-Old
- P220 Bilateral Post Infectious Pneumatocoles in Premature Neonate Which Is Resolved by Conservative Management
- P221 An Unexpected Presentation of MRSA Pneumonia

- P222 **Mycotic Mystery: Multiple Pulmonary Nodules In A Previously Healthy Adolescent**
- P223 **Challenging Case of Recurrent Pneumonia in a Pediatric Patient**
- P224 **When Breathing Becomes Botched: Infant Botulism Leading to Respiratory Failure**
- P225 **An Unexpected Start: Decoding the Mystery of a Newborn's Severe Respiratory Failure**
- P226 **A Case of Recurrent Necrotizing Pneumonia and Associated OAS1 Variant in a Pediatric Patient**
- P227 **Esophagopleural Fistula: An Elusive Etiology of Fever in a Child Post-pneumonectomy**
- P228 **Two Cases of Bronchiolitis Obliterans With Late-onset Left Lung Collapse Following Mucocutaneous Disease Associated With Mycoplasma Pneumoniae Infection**
- P229 **Readability and Quality of Pediatric RSV Patient Education Resources**
- P230 **Pediatric Empyema: A Quality Improvement Journey**
- P231 **Respiratory-infection Related Hospital Admissions in Children and Young Adults With Down Syndrome**
- P232 **Long-term Pediatric Healthcare Utilization After Hospitalization for Acute RSV Infection: A Nationwide Retrospective Study**
- P233 **Description of Clinical and Paraclinical Characteristics, Phenotypes, Management, and Outcomes of Pediatric Patients Between One and Twenty-four Months of Age Diagnosed With Bronchiolitis at the Hospital Universitario San Ignacio in Bogotá, Colombia, From**
- P234 **Description of Common Practices in the Diagnosis and Management of Bronchiolitis Obliterans by Pediatric Pulmonologists in Latin America**
- P235 **User-centered Design of a Digital Clinical Decision Support Tool to Aid in the Diagnosis and Management of Outpatient Pediatric Respiratory Illnesses in Uganda**
- P236 **Characterizing Admissions Due to Status Asthmaticus and All Other Causes of Respiratory Failure/Distress Secondary to Rhinovirus Infection at a Children's Hospital From January 2024-June 2024**

**CLINICAL****THEMATIC POSTER SESSION**

**B69 CASE REPORTS IN PEDIATRIC BRONCHOSCOPY, INTERVENTIONAL PULMONOLOGY, AND COMPLEX AIRWAY DISEASE**

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

Moscone Center

Area B, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P125 **Case Series Describing Use of Transbronchial Lung Cryobiopsy in Children**
- P126 **Bronchoscopic Lung Volume Reduction With Endobronchial Valves for Congenital Lobar Emphysema**
- P127 **Bronchoscopic Debulking and Cryobiopsy of Endobronchial Histoplasmosis**
- P128 **Silicone Airway Stent Placement in an Immunocompromised Pediatric Heart Transplant Patient With Bronchomalacia and Co-morbid Mycobacterium Abscessus**
- P129 **Cryo Extraction With Flexible Bronchoscopy for Plastic Bronchitis in a Neonate on Extracorporeal Membrane Oxygenation**
- P130 **Two-pigtail Technique for Intrapleural Fibrinolytic Therapy (tPA) Administration in Pediatric Bronchopleural Fistulas: A Safe Approach to Avoiding Tension Pneumothorax**
- P131 **Outpatient Management of Pediatric Bronchopulmonary Fistula: A Case Report**
- P132 **Transbronchial Cryobiopsy for Diffuse Lung Disease: A Case Series From a Single Pediatric Center**
- P133 **Robotic Bronchoscopy for Transbronchial Biopsies in a 17 Kg 6-year-old**
- P134 **A 9-Year-Old Female With a Spontaneous Tension Pneumothorax Leading to Cardiac Arrest Complicated by Recurrent Bronchopleural Fistulas Requiring Endobronchial Valves**

- P135 Eosinophilic Plastic Bronchitis in an Atopic Child Managed With Interventional Bronchoscopy and Cyroprobe Extraction
- P136 A Protracted Foreign Body in Distal Airways: A Bronchoscopic Challenge
- P137 Minimally Invasive Diagnosis of a Lung Mass in an Adolescent With a History of Wilms Tumor
- P138 Anatomical Knowledge Can Still Hit the Target: Transbronchial Needle Aspiration in an Immunosuppressed Adolescent
- P139 Is That Still Supposed to Be in There? A Case of Plastic Bronchitis After Heart Transplant
- P140 Pediatric Pyogenic Granuloma in the Bronchus: Multidisciplinary Approach to a Rare Case
- P141 Xenon Gas Magnetic Resonance Imaging to Characterize Viable Regions of Ventilation and Perfusion Prior to Removal of Endobronchial Valves
- P142 Nebulized Ciprofloxacin-Dexamethasone for Tissue Hyperplasia to Facilitate Endobronchial Valve Removal in a Pediatric Patient
- P143 Navigating the Uncharted: First Reported Use of Electromagnetic Navigational Robotic Bronchoscopy in Pediatrics
- P144 Severe Bronchomalacia Secondary to Vascular Compression in a Pediatric Patient: Treatment With Endobronchial Stents
- P145 Multidisciplinary Management of ARDS, Pulmonary Emboli, and Bronchopleural Fistula Following Multidrug Ingestion
- P146 Carinal Reconstruction - More Than a Challenge
- P147 Extended Partial Cricotracheal Resection (E-PCTR) for Simultaneous Treatment of Laryngotracheal Cleft, Congenital Tracheoesophageal Fistula, and Severe Subglottic Stenosis: A Case Report
- P148 A Complicated Case of Biloptysis by Bronchobiliary Fistula
- P149 Acquired Tracheoesophageal Fistula, Airway Malacia, and Eosinophilia Following Caustic Battery Ingestion
- P150 Two Right Lungs? Two Cases of Heterotaxy and Abnormal Airway Anatomy

## CLINICAL

## THEMATIC POSTER SESSION

### B70 DEFINING RISK AND RESPONSE: TRANSLATIONAL AND CLINICAL SCIENCE IN PNEUMONIA

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

Moscone Center

Area D, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P370 The Minimum Inhibitory Concentration, Antibiotic Resistance of Common Bacteria and Short Outcomes in the Hospital Acquired and Ventilation Acquired Pneumoniae
- P371 Leveraging HIV Research Infrastructure for Lung Disease Screening by Spirometry in Tanzania
- P372 A Retrospective Analysis of Five Years of Culture Positive Pleural Fluid Isolates in a Tertiary Referral Centre
- P373 Production and Characterization of Double-membrane Echogenic Liposomal Carrier-loaded Alteplase for Thrombolytic Treatment of Empyema
- P374 Triggering Receptor Expressed in Myeloid Cell-1 (TREM-1) Contributes to Pleural Inflammation in a Rabbit Model of Empyema
- P375 Relationship Between Abscess Cavity and Lesions in Lung Abscess: A Single-center, Retrospective Cohort Study
- P376 Prognostic Factors of Lung Abscess: A Single-center Retrospective Cohort Study
- P377 Assessing the Correlation Between Neutropenia and Complications Post Bronchoscopy in Hematologic Stem Cell Transplant Recipients
- P378 Comparative Analysis of Bacterial and Fungal Sepsis in Hospitalized Lung Cancer Patients
- P379 Senescent and Exhausted CD8+ T-cells Do Not Predict Worse Pulmonary Function at Baseline in People With Human Immunodeficiency Virus (HIV)

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- P380** Factors in the Decision-Making of Do-Not-Resuscitate Orders in Hospitalized Patients With Community Acquired Pneumonia and Its Clinical Outcome
- P381** Cytotoxicity and Virulence Attributes of *Pseudomonas Aeruginosa* Isolates From Patients With Necrotizing Pneumonia
- P382** Alveolar Fibrin Deposition During Bacterial Pneumonia in Humans and Mice
- P383** Aspiration Pneumonia and the Role of Anaerobes: A Historical Perspective
- P384** An Open-Source Large Language Model (LLM) Demonstrates Potential for Labeling Features From Radiology Reports
- P385** Risk Factors for Prolonged Length of Stay in Hospitalized Patients With Community Acquired Pneumonia - Moderate Risk (CAP-MR) in a Tertiary Hospital in Makati, Philippines
- P386** Improving Antimicrobial Stewardship in Management of Inpatient Uncomplicated Pneumonia at a Teaching Community Hospital
- P387** Exploring the Relationship Between Comorbidities and Outcomes in Non-resolving Pneumonia: Clinically Useful Perspective From Developing Country
- P391** Clinical Characteristics and Predictors of Treatment Outcomes of Chronic Pulmonary Aspergillosis in Patients With Post-Tubercular Lung Disease
- P392** Chronic Pulmonary Aspergillosis Prevalence Among Clinical Pulmonary Tuberculosis in Northern Vietnam
- P393** A 15-year Retrospective Analysis of Tuberculosis Patients at a Public-private Matrix TB DOTS Center in Pasig City, Philippines
- P394** Correlation of Antitubercular Treatment Related Hyperuricemia With Anthropometric and Demographic Parameters and Documenting Its Manifestations in Adult Population of South India: A Multi-centric Observational Study
- P395** Pulmonary Function Impairment and Its Associated Factors Among Patients Treated for Pulmonary Tuberculosis at Tibebe Ghion Specialized Hospital, Bahir Dar, Ethiopia
- P396** High Tuberculosis Identification Among Suspected Lung Cancer Patients Using Bronchial Washing: Comparing New Rapid Molecular Test With Xpert MTB/RIF
- P397** Tuberculosis HIV Co-infection: Epidemiological, Clinical, Therapeutic and Evolutionary Profile of Patients Hospitalized in the Befelatanana Infectious Diseases Department
- P398** Nutrition Status and Comorbidities Are Important Factors Associated With Mortality During Anti-tuberculosis Treatment
- P399** Prevalence of Latent Tuberculosis Infection Among Patients With a History of COVID-19
- P400** Nontuberculous Mycobacterial Pulmonary Infections in a Northeast Mexico Referral Hospital: Trends and Radiological Findings
- P401** Risk Factors and Treatment Outcomes Associated With Sputum Smear Conversion in Newly Diagnosed Bacteriologically Confirmed Pulmonary Tuberculosis Patients at Tuberculosis-Directly Observed Therapy Short Course - The Medical City Ortigas: A Retrospective C
- P402** Exploring Tuberculosis in Cancer Patients Undergoing Bronchoscopy
- P403** Isolation of Genetically Distinct Strains Within the Same Species During Treatment of *Mycobacterium Avium* Complex (MAC) Pulmonary Disease

## CLINICAL

## THEMATIC POSTER SESSION

### **B71** INTEGRATING BASIC, CLINICAL, AND TRANSLATIONAL APPROACHES TO TB, NTM, AND BRONCHIECTASIS

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

Moscone Center

Area D, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P389** Tuberculosis Immune Reconstitution Inflammatory Syndrome in an Immunocompetent Patient
- P390** Early Divergent Immune Activation of Human Alveolar Macrophages by BCG

- P404** The Substitution of C-reactive Protein for Erythrocyte Sedimentation Rate in the BACES Score
- P405** Evaluation of the Efficacy of Multidrug Therapy in Patients With Mycobacterium Avium Complex Pulmonary Disease Diagnosed by Bronchoscopy
- P406** Predicting Value of Decreasing Gut Prevotella Species for Getting Nontuberculous and Its Severity: A Pilot Study
- P407** Changes in Health-Related Quality of Life According to Treatment Course in Patients With Nontuberculous Mycobacterial Pulmonary Disease
- P408** Changes in Treatment Patterns and Outcomes of Mycobacterium Avium Complex Pulmonary Disease
- P409** Shallow Bacterial Elimination Rate Slope (BERS) Obtained Early During Therapy Predict Long-term Outcomes in Pulmonary Mycobacterium Avium Complex (P-MAC)disease
- P410** Comparison of Pulmonary Diseases Caused by Mycobacterium Abscessus and Mycobacterium Massiliense: An Updated Analysis
- P411** Influence of Antipseudomonal Antibiotics in Patients With Bronchiectasis Who Experienced Exacerbation: A Nationwide Study in Japan
- P412** Can Artificial Intelligence (AI) Identify Emerging Trends in Bronchiectasis Clinical Care and Research?
- P413** Determining the Impact of Bronchiectasis on the Severity of COVID-19 Infection: 2020-2021 Nationwide Analysis
- P414** Chest X-ray Findings in 130 Patients Diagnosed With Bronchiectasis
- P415** Quantitative Evaluation of Lung Volume in Supine and Upright Computed Tomography for Patients With Non-cystic Fibrosis Bronchiectasis and Nontuberculous Mycobacterial Pulmonary Disease
- P416** Eosinophilic Bronchiectasis Exacerbations Are Associated With Higher Rates of Admissions and Increased Length of Stay
- P417** Deciphering the Lung Microbiome During Pulmonary Exacerbations and Clinical Stability in Bronchiectasis

- P418** Association of Otitis and/or Rhinosinusitis and Pseudomonas Aeruginosa in Sputum of Patients With Non-cystic Fibrosis Bronchiectasis
- P419** Fungi in the Airways: Associations With Bacterial and Mycobacterial Co-isolation in Patients With Bronchiectasis
- P420** Utility of Bacterial Swab Cultures in Adults With Cystic Fibrosis
- P421** Personalized Bacteriophage Therapy Reduces Pseudomonas Aeruginosa Biofilm Formation and Elicits an Anti-inflammatory Effect in Cystic Fibrosis

## CLINICAL

## THEMATIC POSTER SESSION

### **B72 FIGHTING THE INVISIBLE THREATS: PULMONARY INFECTIONS IN TRANSPLANT AND IMMUNOSUPPRESSED PATIENTS**

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

Moscone Center

Area D, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P423** Pulmonary Nocardiosis: A Rare But Significant Respiratory Infection
- P424** Nocardiosis in a Patient With Aids
- P425** Nocardia Lung Abscess: A Rare Opportunistic Infection in an Immunocompromised Patient
- P426** Nocardia Veterana Lung Cavitory Lesion Masquerading as Pneumocystis Pneumonia Cavitation
- P427** Silent Intruder- Severe Pulmonary Nocardiosis in an Immunocompromised Patient
- P428** An Elusive Enemy: Diagnostic Challenges of Pulmonary Nocardiosis in an Immunocompromised Elderly Male
- P429** Invasive Nocardiosis in a Severe Asthma Patient Leading to a Diagnosis of Pulmonary Alveolar Proteinosis

- P430** Disseminated Nocardiosis After Lung Transplantation
- P431** Nocardia Infection in Lung Transplant Recipients: A Single-Center Case Series of Four Patients
- P432** Small Cell, Big Challenges: Navigating Disseminated Nocardiosis Across Organs
- P433** A Tale of Two HIV Patients: Two Different Outcomes of Pneumocystis Carinii and Cytomegalovirus (CMV) Co-infection Pneumonia and the Impact of Chronic Comorbidities
- P434** A Case of Rapid Onset of Pneumocystis Jirovecii Pneumonia in a Newly Diagnosed HIV Patient
- P435** A Case of Smear-negative, PCR-positive Pneumocystis Jirovecii Pneumonia in a Patient With Crohn's Disease
- P436** Battling Bilateral Pneumothorax: PJP Complication in AIDS Requiring Chest Tube Discharge
- P437** Cavitory Pneumonia in Immunocompromised Patient Caused by Pneumocystis Carinii Lead to Pneumothorax: A Review of Literature
- P438** When Immunotherapy Meets Infection: A Case of Ocrelizumab-induced Pneumocystis Jirovecii Pneumonia
- P439** Pneumocystis Jirovecii Pneumonia Following COVID-19: A Case Series of Six Patients With Varied Comorbidities and Outcomes
- P440** An Unusual Presentation of Pneumocystis Pneumonia in a Patient With Severe Chronic Obstructive Pulmonary Disease (COPD)
- P441** AH! PJP: Pneumocystis Pneumonia in an HIV-negative Patient With Alcoholic Hepatitis
- P442** Breaking the Ground Glass: An Evolving Spectrum of Pneumocystis Pneumonia in a Patient With Undiagnosed AIDS
- P443** Advancing Pneumocystis Jirovecii Pneumonia Diagnosis: The Role of Fluorodeoxyglucose Positron Emission Tomography
- P444** A Conundrum Around Steroids for Diffuse Alveolar Hemorrhage in the Peri-engraftment Period
- P445** The Diverse Manifestations of Cytomegalovirus in an Orthotopic Heart Transplant Recipient - A Case Report
- P446** No Transplant, Still a Problem: Cytomegalovirus Pneumonia Associated With Combined Immunodeficiency
- P447** Severe Cytomegalovirus Pneumonitis in a Kidney Transplant Recipient: A Case Report
- P448** Bk Virus May Be an Under-recognized Cause of Chronic Kidney Disease After Lung Transplantation: A Case Series
- P449** A Rare Case of BK Virus Pneumonia
- P450** Atypical Pleural Salmonellosis in the Patient of End Stage Renal Disease of Potentially Live Related Renal Transplant
- P451** A Clear Problem - Achromobacter Infection Presenting as Obstructing Bronchial Lesions in a Patient After Bilateral Lung Transplant
- P452** Eravacycline as a Rescue Therapy for Carbapenem-resistant Gram-negative Bacterial Pneumonia in the Early Post-lung Transplantation Period
- P453** Caught in the Cavity: Life-threatening Infections in a Steroid-compromised Patient
- P454** An Unusual Case of Lactobacillus Rhamnosus-induced Pleural Empyema in an Immunocompromised Patient: Diagnostic Challenges and Therapeutic Insights
- P455** Through the Window: Addressing Complex Empyema in a Transplant Patient
- P456** Multifocal Pneumonia in the Setting of HTLV-1 Associated Myelopathy: A Case Report

**BASIC • CLINICAL • TRANSLATIONAL****THEMATIC POSTER SESSION****B73 EXPLORING LATE BREAKING MECHANISMS AND BIOMARKERS IN PULMONARY DISEASE PATHOGENESIS**

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

Moscone Center

Area L, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1359** Hyperoxia Induces a Unique Transcriptional Response in Venous Endothelial Cells of the Developing Lung
- P1360** Nerandomilast Paves the Way for Novel Strategies in IPF Drug Discovery
- P1361** Spatial Transcriptomics Resolve Surfactant and Ciliary Deficits in Bronchopulmonary Dysplasia
- P1362** AI and Spatial Transcriptomic Integration Reveal Unique Immune Patterns in Emphysema Progression
- P1363** Comprehensive Epigenetic Profiling of Circulating DNA in Plasma of Former Smokers With/without COPD
- P1364** Coagulation Protease-elicited Extracellular Vesicles Promote Mesothelial Transition in Pleural Fibrosis: A Novel Role of MiRNA-10a
- P1365** Pufin lncRNA Targeting Modulates Genes Implicated in IPF Pathogenesis and Disease Severity
- P1366** Characterizing the Epigenomic Signatures of Human PSC-derived Alveolar Transitional Cell State
- P1367** Unveiling Sex-Specific Lipid Mediator Profiles in the Airways in a Comparative Study of Patients With Asthma and Bronchopulmonary Dysplasia Survivors
- P1368** Bronchial Epithelial Gene Expression in Early Adulthood in Preterm Born With a History of Bronchopulmonary Dysplasia (BPD)
- P1369** Characterization of the HLA-DR Immunopeptidome of Bronchoalveolar Lavage Cells in Patients With Newly Diagnosed Rheumatoid Arthritis and Healthy Current-smoker Controls
- P1370** Cyclic AMP Signaling Within Lung Fibroblasts Promotes the Clearance of Pathologic Epithelial and Macrophage Subtypes During Spontaneous Fibrosis Resolution
- P1371** Investigating the Role of Venous Endothelial Cells in Lung Injury and Fibrosis
- P1372** Vascular Cell Type-specific Origins of Oxidative/Nitrosative Stress Drive the Development of Distinct COPD Phenotypes
- P1373** CEACAM6 in Epithelial Cells Increases Oxidative Stress, Inflammatory Signaling and Pulmonary Vascular Alterations During COPD Pathogenesis
- P1374** A Lipidomic Approach to Assess the Impact of One-lung Ventilation on Lipid-mediated Inflammation During Lung Surgery in a Porcine Model
- P1375** Chemokine-Like Receptor 1 Targeted Positron Emission Tomography as a Tool for Tracking Dynamics of Monocyte-Derived Macrophages in an Experimental Model of Progressive Pulmonary Fibrosis
- P1376** Obesity-induced Dysregulation of Airway Ciliary Function During Influenza A Virus Infection
- P1377** Identifying COPD Exacerbation Endotypes Using a Network Approach
- P1378** Bronchoalveolar Lavage Fluid Cell Gene Expression Signatures Are Suggestive of Prolonged Innate Immune Activation in Patients With Persistent Post-covid-19 ILD
- P1379** Disruption of H3k27me3 Demethylation in Congenital Diaphragmatic Hernia Is Associated With Differentiation Defects of Lung Basal Stem Cells
- P1380** Mitochondrial DNA Copy Number as a Biomarker for COPD Progression
- P1381** Single Cell Sequencing Analyses of Bronchial Organoids Reveal a Significant Impact of Allergic Airway Inflammation on Processes of Bronchial Epithelial Cell Differentiation
- P1382** Proteomic Signatures During Lung Injury Identify Shared Inflammatory and Matrix Candidates Within the Alveolar and Interstitial Lung Microenvironment
- P1383** ATG-4B Deficiency and Impaired Autophagy Protects Mice From Experimental Hypersensitivity Pneumonitis Induced by Saccharopolyspora Rectivirgula Exposure
- P1384** ARPC2, A Novel Target for Idiopathic Pulmonary Fibrosis (IPF), Modulates MRTF-A Mediated Fibrotic Response
- P1385** Pyruvate Carboxylase Deficiency Induces Pulmonary Fibrosis via Mitochondrial Damage Though Slc25a4/AMPK/Nrf2 Pathway
- P1386** Succinate-mediated Activation of the GPR91/MALT1/NF- $\kappa$ B/CCL2 Pathway in Macrophages Contributes to Pulmonary Fibrosis



- P1387** Tankyrase Inhibition Demonstrates Anti-fibrotic Effects in Preclinical Pulmonary Fibrosis Models
- P1388** Chronic Alcohol Drinking Induced Activation of Endocannabinoid/cb1r System in Rodent and Non-human Primate Lungs
- P1389** Comparing Effects of Edible or Vaping Cannabinoid Exposure to Lungs Inducing Proinflammatory Lung Microenvironment
- P1390** Circulating Endocannabinoid Levels Increased in Acute Covid-19 Pneumonia With Respiratory Failure
- P1391** Pilot Application of Spatial Transcriptomics for Profiling Eosinophils in Chronic Obstructive Pulmonary Disease Lung Tissues
- P1392** Genome-wide Crispr-cas9 Screen Identifies Regulators of Gasdermin B-mediated Pyroptosis
- P1393** Circulatory Protein Markers and Clinical Variables for Early Prediction of Rapid Lung Function Decliners in Smokers
- P1394** Comparison of Biomarker Signatures Between Upper and Lower Airways and Serum in Patients With COPD
- P1395** A Spatial Transcriptomic Atlas of Fibrosing Interstitial Lung Diseases
- P1396** WWOX Knockdown Synergizes With LPS to Increase ROS-Dependent Mitochondrial Dysfunction in the Pulmonary Endothelium
- P1397** Lung Endothelial MiR-205-5P Induces a Pro-fibrotic Endothelial Secretory State and Promotes Lung Fibroblast Activation
- P1398** Discovery of Divergent Oncostatin M Receptor-driven Pathways Across Fibrotic and Inflammatory Conditions
- P1399** Transcriptomic Profiling of Hur Expression in the Lung in COPD
- P1400** Single Cell Transcriptomic Profiling of Cytochrome P450 Expression in the Lung in COPD
- P1401** Increased Cyclin D1 and IMP3 Levels in the Airway Epithelium in Chronic Obstructive Pulmonary Disease
- P1402** Ex-vivo Efficacy of Tanimilast in Human COPD-derived Precision Cut Lung Slices (PCLS)
- P1403** HSP70 Is a Chaperone for IL-33 Secretion and Function in Chronic Airway Disease

- P1404** CMLD-2 Attenuates Fibroblast- and Macrophage-Myofibroblast Transition in Pulmonary Fibrosis Through Antagonizing Hur-mediated Osteopontin mRNA Stabilization
- P1405** CC16 Confers Protection Against Influenza A Virus Infection in Human Airway Epithelium
- P1406** IGSF3 Requirement for Repair of Human Lung Endothelial Cell Injury
- P1408** Synergistic and Antagonistic Effects of Metformin-caffeine and Metformin-dichloroacetate Combinations on Cell Viability of Lung Adenocarcinoma Under Hypoxia
- P1409** Inhaled PDE4 Inhibitor F2008 Alleviates Bleomycin-Induced Pulmonary Fibrosis

### BASIC • CLINICAL • TRANSLATIONAL

### THEMATIC POSTER SESSION

## **B74 ADVANCED MODELS AND MOLECULAR SIGNATURES FOR UNDERSTANDING AND TREATING PULMONARY FIBROSIS**

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

Moscone Center

Area L, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1411** Defining the Aryl Hydrocarbon Receptor as a Driver of Pulmonary Fibrosis
- P1412** Macrophages Cocultured With Human Lung Fibroblasts Preferentially Polarize Towards an Alternatively Activated Macrophage
- P1413** Depletion of an RNA-binding Protein Causes Cellular Senescence and Excessive Collagen Production in Fibroblasts Located in Fibroblastic Foci in IPF Lungs
- P1414** Evaluating the Role of AMB-05X in Modulating Key Fibrotic Markers in Human Precision-cut Lung Slices
- P1415** Role of Dysregulated Cholesteryl Ester Metabolism in Lymphangioleiomyomatosis Development and Progression

- P1416** Exploratory Analysis of the IPF and fHP Proteome Using Data-independent Acquisition Methods
- P1417** Fibronectin Extra Domain A Degradation as an Antifibrotic Approach in Lung Fibrosis
- P1418** STAT6 Activation Aggravates Airway Epithelium Ferroptosis Through Hobbling PRKN-Mediated Mitophagy in Pulmonary Fibrosis
- P1419** Dysregulation of ALDH1A in Lung Epithelial Progenitor Cells in Idiopathic Pulmonary Fibrosis
- P1420** The Role of the Hexosamine Biosynthetic Pathway in the Development of Idiopathic Pulmonary Fibrosis
- P1421** Downstream Signaling Mediators of CXCL6-driven Synthesis of Collagen in Human Fibroblasts
- P1422** Pre-clinical Proof-of-Concept of Anti-fibrotic Activity of Caveolin-1 Scaffolding Domain Peptide LTI-03 in Ex Vivo Precision Cut Lung Slices From Patients With Idiopathic Pulmonary Fibrosis
- P1423** Alternative Splicing of the Mitochondrial Fission Regulator Drp1 in Pulmonary Fibrosis
- P1424** Targeting Mesothelin to Alleviate Mesothelial-to-Mesenchymal Transition in Bleomycin-induced Pulmonary Fibrosis
- P1425** Lamin A $\Delta$ 10 Regulates Pulmonary Fibrosis Through Altering TGF- $\beta$  Signaling and ECM Components
- P1426** Inhibitory Effects of B1110 on Pulmonary Fibrosis by Modulating the TGF- $\beta$ /Akt Signaling
- P1427** mTOR Signalling in Dipnech - A Therapeutic Target?
- P1428** Lactate Promotes Myofibroblast Differentiation Through GPR-81-mediated Suppression of Cyclic AMP Under Hypoxia
- P1429** ZEB1 Serves as a Key Regulator of Pro-fibrotic Signaling in Lung Fibrosis by Modulating miR-96-Dependent Regulation of FoxO3a
- P1430** Analysis of Local Distribution and Residence Time of Nerandomilast in Lung Tissue Using Mass Spectrometry Imaging
- P1431** Ex-vivo Lung Tissue Culture Exhibits Spontaneous Generation and Maintenance of Fibrosis
- P1432** Raman Spectroscopy Detects Differences Between Idiopathic Pulmonary Fibrosis and Other Interstitial Lung Disease Biopsies
- P1433** The Potential Role of miR205 and miR205HG in Pulmonary Fibrosis
- P1434** Idiopathic Pulmonary Fibrosis Risk Loci in East Asian Populations Mirror Those of European Populations
- P1435** Therapeutic Effects of Intravenous Administration of Dedifferentiated Fat Cells in Pulmonary Fibrosis Mouse Model
- P1436** GSF-016 Attenuates the Lung Fibrosis and Adhesion Response by Regulating of miR-5787/SRF in Primary Fibroblast Cells From IPF Patients
- P1437** Histopathologic Honeycombing Is Associated With Worse Mortality in Pulmonary Fibrosis
- P1438** Lung Epithelial-derived Fibrotic Extracellular Matrix Reduces the Proliferation of Lung Cancer Cells
- P1439** Peroxisomal Biogenesis and Histone Methylation Is Regulated by TGF- $\beta$ 1 Inducible NNMT Activity in Human Lung Fibroblasts
- P1440** Role of TET2 in DNA Methylation, Fibroblast Phenotype, and Contribution to Pulmonary Fibrosis
- P1441** Senescence of Alveolar Type II Cells Drives Progressive Pulmonary Fibrosis
- P1442** Cellular Senescence Markers and Matrix Metalloproteinase-7 Are Co-expressed in Fibrosing Interstitial Lung Diseases
- P1443** A 'Do It Yourself' Pipeline to Generate a Cell Atlas Companion Website
- P1444** SMTP-44D, a Novel Soluble Epoxide Hydrolase Inhibitor, Ameliorates Bleomycin-induced Pulmonary Fibrosis in Mice
- P1445** Experimental Modeling of Pulmonary Fibrosis and Combined Emphysema in Mice With Repeated Bleomycin and Cigarette Smoke Extract
- P1446** Aldehyde Dehydrogenase 2-Mediated Inhibition of 4-Hydroxynonenal Reduces Lung Epithelial Cell Senescence and Fibrosis
- P1447** Cadherin-26 Deficiency in Macrophages Attenuates Bleomycin-induced Pulmonary Fibrosis in Mice

- P1448** Alveolar Macrophage Conditioned Medium Promotes Myofibroblast Dedifferentiation Via Prostanoid/Gas/Adenylyl Cyclase Signaling
- P1449** Short Telomere Syndromes and the Co-occurrence of Myelodysplastic Syndromes and Idiopathic Pulmonary Fibrosis
- P1450** Fibroblast Mechano-sensing by Piezo2 Alters Stiffness-induced Metabolic Reprogramming
- P1451** Matrix Stiffness-derived Mechanosignaling Regulates Macrophage Metabolism and Inflammaging
- P1452** Fibronectin-targeting Peptide PET Probe Uptake in Fibrogenesis Correlates With Lung Function Decline During the Established Fibrosis Phase in Murine Pulmonary Fibrosis
- P1453** Extracellular Matrix Proteins and Signaling in Lymphangioleiomyomatosis
- P1454** Aging-related Epigenetic Mechanisms Activate Line-1 Retrotransposon in Idiopathic Pulmonary Fibrosis
- P1455** Cancerous Inhibitor of Protein Phosphatase 2A Regulates P21 and COL1A1 Expression in Lung Fibroblasts
- P1459** GenSciP117, a Lung-targeted siRNA Directed to MM7 mRNA, for the Treatment of Idiopathic Pulmonary Fibrosis
- P1460** Viability and Epithelial Cell Dynamics in Human Precision-cut Lung Slices During Prolonged Ex Vivo Incubation
- P1461** Development and Applications of Fibrotic Decellularized Tissue Hydrogels in Hybrid-suspension Human Fluorescent Lung Organoids to Study Idiopathic Pulmonary Fibrosis
- P1462** Antisense Oligonucleotide Silencing of Fused in Sarcoma (FUS): A Novel Therapeutic Intervention for Idiopathic Pulmonary Fibrosis
- P1463** Evaluating Alveolar Regenerative Properties of Caveolin Scaffolding Peptides (CSD) in Three Dimensional (3D) Alveolospheres From IPF and Normal Donor Lung Samples
- P1464** Identification of Biomarkers of Disease and Drug Targets in Pulmonary Hypertension With Single Cell RNA Sequencing
- P1465** Distinctions in Survival Despite Same Collagen Content Suggests Alternative Immune Mediators Impact Lung Severity Among Bleomycin-treated Mice

## BASIC • CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

### **B75** TARGETING CELLULAR SENESENCE, IMMUNE DYSREGULATION, AND METABOLISM IN LUNG INJURY AND FIBROSIS

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

Moscone Center

Area L, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1457** Oleuropein Ameliorates Pulmonary Fibrosis by Inhibiting the NLRP3 Inflammasome and the Epithelial-Mesenchymal Transition
- P1458** Circulating miRNA in Idiopathic Pulmonary Fibrosis: A Pilot Study

- P1466** Role of Granulocyte-macrophage Colony Stimulating Factor Inhibition on Granuloma Formation in Mouse Model of Sarcoidosis
- P1467** Defining Antifibrotic Mechanisms of Treprostinil
- P1468** Buloxibutid Potently Inhibits Fibrosis Biomarkers in the Scar-in-a-Jar Primary Human Lung Fibroblast Assay
- P1469** Metabolic Changes Induced by Gut Dysbiosis in Mice Housed in Germ-free, Animal Biosafety Level 1 and Animal Biosafety Level 2
- P1470** Therapeutic Potential of Flavopiridol in the Suppression of Lung Fibrosis Via CDK9 Inhibition
- P1471** Functional Genomic Modules in Idiopathic Pulmonary Fibrosis Mesenchymal Progenitor Cells Identified by Weighted Gene Co-expression Network Analysis
- P1472** Mitochondrial Lineage Tracing Allows Identification of Clonal Epithelial Cell Populations in Idiopathic Pulmonary Fibrosis

- P1473** Protective Effects of KVX-053, A PTP4A3 Inhibitor, on Pulmonary Vascular Endothelial Damage Induced by Alcohol and Metabolites
- P1474** Inducible Epithelial Resistance Against Influenza A Pneumonia Requires STAT3-dependent Signaling
- P1475** Loss of FOXF1 Increases the Severity of Pulmonary Fibrosis
- P1476** Transcriptomic Profiling Reveals Pathways Underlying Age Dependent Efficacy of Favipiravir in COVID-19
- P1477** Primary Human Distal and Proximal Airway Models for Higher-throughput Drug Screening of Anti-SARS-CoV-2 Compounds
- P1478** Revealing the Potential of Exosomal MicroRNA-885 in Lung Adenocarcinoma
- P1479** Dichotomous Effects of TLR9 on Early Inflammation and Viral Clearance Dictates Recovery From Influenza Infection
- P1480** Molecular Hallmarks of Lung Cellular Senescence in the Repetitive Bleomycin-induced and Spirometry-confirmed Mouse Model of IPF
- P1481** Distinct Peripheral Blood Gene Expression Biomarkers for RSV and HMPV in Adult LRTI
- P1482** Elastokines, A Potential Biomarker in Idiopathic Pulmonary Fibrosis
- P1483** Protein-L-Isoaspartate (D-Aspartate) O-Methyltransferase (PIMT) Deficiency Protects Against Pulmonary Fibrosis
- P1484** HIV Protein GP120 Upregulates Autotaxin and LPA Receptors in Lung Fibroblasts
- P1485** Impact of Obesity on Pulmonary Innate Immune Cells in the Setting of Viral Infection
- P1486** An Anti-GOLM1 Antibody Ameliorates Bleomycin-Induced Pulmonary Fibrosis in Mice
- P1487** Nintedanib Intervention Treatment Does Not Ameliorate Pulmonary Dysfunction and Lung Fibrosis in the Single Bleomycin-Induced and Spirometry-Confirmed Mouse Model of IPF
- P1488** Carbohydrate-responsive Element-binding Protein (ChREBP) Accentuates Mitochondrial Dysfunction via Modulation of Long Non-coding RNA Taurine Upregulated 1 (TUG1) in HIV-1-infected Macrophages
- P1489** Microtubule Acetylation Contributes to Myofibroblast Activation in Lung Fibrosis
- P1490** Latent Transforming Growth Factor Beta Binding Protein-2 (LTBP2), an IPF Biomarker Associated With Clinical Decline, Promotes TGF-beta Signaling and Lung Fibrosis in Mice
- P1491** Cholesterol Metabolism Plays a Role in Lung Fibrosis Development in Humans
- P1492** Overexpression of GREM1 Is Associated With Fibroblast Proliferation and Lung Fibrogenesis in Idiopathic Pulmonary Fibrosis
- P1493** Unraveling Fibroblast and Lung Cell Heterogeneity in Fibrotic Lesions Through Single-nucleus RNA Sequencing
- P1494** PIEZO2 Signal Transduction Mechanism and Potential Therapeutic Strategies for Idiopathic Pulmonary Fibrosis
- P1495** The Antifibrotic Effects of  $\alpha 9$  Integrin-targeted Therapy Through Inhibition of Fibrocyte and Fibroblast Activity
- P1496** LC3B Interactome in Alveolar Epithelial Cells: Novel Insights of Autophagy Regulation in Lung Fibrosis
- P1497** Automated AI-Assisted Ashcroft Scoring of Lung Fibrosis in Spirometry-Confirmed and Bleomycin-Induced Mouse Model of IPF
- P1498** Cystatin C Mediates Pulmonary Fibrosis Through Senescence
- P1499** Potent Antifibrotic Efficacy of Yinfenidone In Vitro and In Vivo Pulmonary Fibrosis Model

## BASIC • CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

**B76 CLINICAL REPORTS II: UNUSUAL SUSPECTS**

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

Moscone Center

Area C, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees



- P326** Acute Bronchial Obstruction by Fibrin Plugs in a Patient With Re-expansion Pulmonary Edema: A Case Study
- P327** A Rock Solid Diagnosis: A Case of Dendriform Pulmonary Ossification
- P328** A Case of Interstitial Lung Disease (ILD) Caused by Surfactant Protein C Gene (SFTPC) Mutation
- P329** Diffuse Idiopathic Pulmonary Neuroendocrine Hyperplasia: A Case Series of Seven Patients With Varied Treatments and Long-Term Follow-up
- P330** Diffuse Pulmonary Meningotheliomatosis Diagnosed Concurrently With Pulmonary Adenocarcinoma
- P331** Treatment Response of Rituximab in Fibrosing Mediastinitis
- P332** Rare Lung Manifestations of Tuberous Sclerosis Complex
- P333** From Asymptomatic Nodules to Diagnosis: A Case of Primary Isolated Pulmonary Amyloidosis Unveiled
- P334** Diffuse Alveolar Hemorrhage in a Patient With Newly Diagnosed Granulomatosis With Polyangiitis and Acute Renal Failure Associated With  $\alpha$ 1-Antitrypsin Deficiency
- P335** Anti-glomerular Basement Membrane Nephritis With Diffuse Alveolar Hemorrhage in a Rural Community Hospital
- P336** A Case of COVID-19 and Community-acquired Pneumonia in Alpha-1 Antitrypsin Deficiency
- P337** A Rare Presentation of Unilateral Pulmonary Sarcoidosis Without Lymphadenopathy Mimicking Neoplastic Process: A Case Report

**BASIC • CLINICAL • TRANSLATIONAL****THEMATIC POSTER SESSION****B77 COMPLICATIONS IN LUNG TRANSPLANTATION**9:15 a.m. - 4:15 p.m. **Moscone Center**

Area C, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P339** Automated Detection of Edema Post Lung Transplant From Chest X-rays
- P340** Sirolimus as a Therapeutic Strategy to Mitigate Recurrent Bronchoscopic Interventions in Lung Transplant Recipients With Airway Stenosis
- P341** Hyperpolarized  $^{129}\text{Xe}$  MRI Captures Elevated Regional Ventilation Heterogeneity in Patients With Bronchiolitis Obliterans Syndrome Following Hematopoietic Stem-cell Transplantation in Children
- P342** Airway Reconstruction Induces Surgery-induced Stress and Accumulation of CTHRC1+ Activated Fibroblasts

**CLINICAL • TRANSLATIONAL****THEMATIC POSTER SESSION****B78 MACHINE MINDS AND SLEEPING FINDS: AI, IMAGING, AND DIAGNOSTIC BREAKTHROUGHS IN SLEEP APNEA**9:15 a.m. - 4:15 p.m. **Moscone Center**

Area D, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P474** Continuous Deep Learning Approach for Accelerated MR Imaging Annotations for Subcutaneous and Visceral Adipose Tissue Quantification in Sleep Apnea Patients
- P475** Novel Type IV Monitoring Device With Advanced Oximetry Indicators Offers Accurate Diagnosis of Obstructive Sleep Apnea in Adults
- P476** Prediction of Obstructive Sleep Apnea With AI-based Facial Photograph Analysis
- P477** Agreement Between Sleep and Respiratory Measures From a Wearable Oximetry Ring and Simultaneous Complete Polysomnography
- P478** Early Diagnosis of OSAS From Cranial Features: Based on an Facial Recognition AI Model

- P479** Effect of Race on Facial and Soft Tissue Structures in Obstructive Sleep Apnea: A Systematic Review of Imaging Studies
- P480** Effect of Obesity on Upper Airway Area During Vowel Articulation: An MRI-based Study
- P481** Development of a Body Mass Index-Independent (SWET) Score to Predict Moderate or Severe Obstructive Sleep Apnea in Indian Population
- P482** Cross-dataset Validation of a Novel, High-accuracy Algorithm for Detecting Respiratory Phases
- P483** Physiology Guided Machine Learning Approach for Predicting Excessive Daytime Sleepiness in Sleep Apnea
- P484** Using Generative AI to Reliably Retrieve and Summarize Symptoms From Electronic Health Records in Sleep Apnea
- P485** Personalization of AI-enabled PAP Therapy (CMAP®) Algorithm Shows Improvement in Prediction of Respiratory Events and Preliminary Success in Further Reduction of Therapy Pressure
- P486** Correlation Between Changes in Upper Airway Anatomy and Apnea-Hypopnea Index in Patients Undergoing Bariatric Surgery
- P487** Improving the Rates of Sleep Apnea Screening in a High-risk Underserved Population
- P488** A Buccal Mucosal Reflectance Oximeter Accurately Measures Arterial Oxyhemoglobin Saturation and Pulse Rate
- P489** Applying Artificial Intelligence to Measure Abdominal Adipose Metrics in Obstructive Sleep Apnea Before and After CPAP Therapy
- P490** Tongue Base Thickness Measurements By Ultrasound Images For Patients With Obstructive Sleep Apnea

## CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

## **B79 SLEEP BY THE NUMBERS: TRACKING RISKS, OUTCOMES, AND REAL-WORLD IMPACT**

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

Moscone Center

Area D, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P491** A Retrospective Analysis of Patients With Obstructive Sleep Apnea, Asthma, and COPD by Home Sleep Testing Outcomes
- P492** A Cross Sectional Analysis of Home Sleep Apnea Testing in a New York City Ambulatory Population
- P493** Sleep-Disordered Breathing and Metabolic Syndrome Across Gender, Age, and Sleep Subtypes in East Asians: Guangdong Sleep Health Study
- P494** Beyond the Operating Room: Exploring OSAs Role in Post-op Complications for Elderly Veterans in Puerto Rico
- P495** Sex Differences in Sleep Architecture in Persons with Obstructive Sleep Apnea - Data from the Sleep Heart Health Study
- P496** Sleep-disordered Breathing Severity and Ventricular Repolarization: A Dose-response Analysis
- P497** Prevalence on the Risk of Obstructive Sleep Apnea Among Patients Who Underwent Coronary Angiogram in a Tertiary Hospital in Cebu City, Philippines From July 2023 to July 2024
- P498** Prevalence of Obstructive Sleep Apnea (OSA) in Critical Illness Survivors: A Pilot
- P499** Predictors of Perioperative Outcomes in Bariatric Surgery: The Impact of Obesity Severity, Obstructive Sleep Apnea, and Comorbidities on Hospital Length of Stay and Complication Risk
- P500** Impact of Habitual Alcohol Consumption on the Incidence of Obstructive Sleep Apnea: A Nationwide Population-Based Study
- P501** Analyzing the Protective Effects of Sleep Apnea in Patients With a New Respiratory Diagnosis

## BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

- P502** Impact of Obstructive Sleep Apnoea Syndrome and Its Severity on the Mechanisms of Aortic Valve Atherosclerosis
- P503** Factors Associated with Mild Cognitive Impairment and REM Sleep Rebound by CPAP Treatment in Patients with Severe Obstructive Sleep Apnea and Low %REM Sleep (under 12%) before Treatment
- P504** Association Between Type 2 Diabetes and Ventricular Repolarization in Obstructive Sleep Apnea
- P505** Obstructive Sleep Apnea Syndrome (OSAS), Gastroesophageal Reflux Disease (GERD) and Hyperuricemia: Uneasy Bedfellows or Natural Partners?
- P506** Associations Between Chronic Medication Class and Positive Airway Pressure Adherence
- P507** Residual Daytime Sleepiness in Patients With Obstructive Sleep Apnoea Syndrome: A Prospective Service Review in a Tertiary Sleep Centre
- P508** Definition of Real-world Responsiveness to PAP Using Home Monitoring in Children With Down Syndrome
- P509** Impact of Positive Airway Pressure (PAP) Therapy Initiation on Future Benzodiazepine Drug Use Among Chronic Benzodiazepine Users
- P510** Common Sleep Disorders Among the Elderly Attending Major Family Practice Clinics
- P511** Prevalence of Mental Health Conditions and Traumatic Brain Injury Among Veterans With Sleep Disorders
- P512** Identifying Predictors of Sleep Disturbance in Long COVID Patients at a Safety-Net Hospital: The Role of Pulmonary Comorbidities, Complications, and Medication Use
- P513** Effects of Hypertension and Diabetes on Sleep Architecture in Patients With COPD
- P514** Obstructive Sleep Apnoea Syndrome and Metabolic Syndrome in Adults With Heart Failure in Nigeria: Burden, Gender and Age-related Differences and Impact on Clinical Outcomes
- P515** Evaluation of Obstructive Sleep Apnea Comorbidities in Primary Care Settings: A Retrospective Study

### **B80-1 FROM BENCH TO BEDSIDE: INNOVATIVE BIOMARKERS, SCREENING APPROACHES, AND PERSONALIZED TREATMENTS IN LUNG CANCER**

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

Moscone Center

Area G, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P767** Clinical Outcomes of Stage IV Lung Invasive Mucinous Adenocarcinoma in the Era of Immunotherapy: A SEER Database Analysis
- P768** Designing a Decision Aid and Referral Tool for Veterans to Improve Equity in Lung Cancer Screening
- P769** Routine Spirometry Was Associated With a Reduction in Respiratory Deaths in the NLST: Could Spirometry Widen the Benefits of Lung Cancer Screening?
- P770** Implications of Nonspecific Necrosis on Peripheral Lung Lesion Biopsies
- P771** Semi-supervised Learning Using Latent Embedded Radiomic Features for Non-small Cell Lung Cancer Classification
- P772** Assessing Lung Cancer Risk in Breast Cancer Survivors
- P773** Circulating Tumor Cell Predicts Response to EGFR-TKI in Treatment-naïve Advanced Non-small Cell Lung Cancer Patients With Sensitive EGFR Mutations
- P774** Lung Cancer Screening Using Low Dose CT Scans in Veterans: Promise and Pitfalls
- P775** Clinical and Molecular Characteristics in Lung Cancer in Never Smokers in a High Environmental Risk Area

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| <p><b>P776</b> Assessing the Impact of Radiologic Emphysema Reporting on Follow-up Compliance for Incidental Lung Nodules: Implications for Malignancy Detection</p> <p><b>P777</b> Tumor Volume Doubling Times of Pulmonary Nodules Found During Lung Cancer Screening: Insights From a Large Cohort Study</p> <p><b>P778</b> Application of MRI in Lung Cancer Screening: An Initial Case Series Evaluation</p> <p><b>P779</b> CD146 as a Novel Biomarker for Distinguishing Benign and Malignant Lung Nodules: Enhanced Diagnostic Accuracy Through Multimodal Integration</p> <p><b>P780</b> Incidental Lung Nodule Program for Early Detection of Lung Cancer: Downstream Testing, Complications, and Proportion of Early-stage Cancers</p> <p><b>P781</b> Development of Cough Access to the Deep Lung for Somatic Mutagenesis Assessment</p> <p><b>P782</b> Genome-wide Tobacco Smoke Mutagenesis Modelled in Long Term HBEC Bronchial Basal Epithelial Cells In Vitro</p> <p><b>P783</b> Normal Bronchial Field Basal Cells Show Persistent Methylome-wide Impact of Tobacco Smoking, Including in Known Cancer Genes</p> <p><b>P784</b> Calculating the Unknown: Comparing the Mayo Clinic and the Brock University Calculators for Lung Nodules in Never and Minimal Smokers</p> <p><b>P785</b> Frequency and Time Course of Lung Cancer Diagnoses Following Lung-RADS 3 Studies</p> <p><b>P786</b> Comparative Analysis of Driver Mutations, Cancer Stage, and Metastatic Burden in Patients with Lung Adenocarcinoma with Prism Compared to COPD and Normal Lung Function</p> <p><b>P787</b> The Efficacy and Safety of Concurrent and Sequential Chemoradiotherapy in Elderly Patients With Limited Stage Small Cell Lung Cancer</p> <p><b>P788</b> Macro-vasculature Characteristics Are Predictive of Lung Cancer Response to Neoadjuvant Chemotherapy</p> <p><b>P789</b> Low-dose CT Screening Sensitivity in the National Lung Screening Trial Varies With Diagnostic Window Length</p> | <p><b>P790</b> Lung Nodule Characteristics in US Veterans Who Have Undergone Robot-assisted Bronchoscopy; Lung Cancer Screening Versus Incidental and Cancer Surveillance Detection</p> <p><b>P791</b> Utilization of Proteomic Testing in Pulmonary Nodule Risk Stratification at a Safety-Net Hospital: An Observational Study</p> <p><b>P792</b> The Impact of Frailty and Sarcopenia in Lung Cancer Patients</p> <p><b>P793</b> The Role Of histone Deacetylase 1 (HDAC1) in the Diagnostic and Prognostic of Non-small Cell Lung Cancer</p> <p><b>P794</b> Epidemiology and Clinical Outcomes of Hyponatremia in Lung Cancer Patients: Insights From the National Inpatient Sample</p> <p><b>P795</b> Lung Cancer Screening Metrics at the Baltimore Veterans Affairs Medical Center</p> <p><b>P796</b> Combinations of Grape Seed Procyanidin Extract and Milk Thistle Silymarin Extract Additively Decrease Lung Cancer Cell CCL2 Production and Increase Phagocytic Activities of THP-1 Derived M2 Macrophages</p> <p><b>P797</b> Evaluating Hydrogen Peroxide in Exhaled Breath Condensates for Lung Cancer Detection</p> <p><b>P798</b> Unequal Breaths: Addressing Health Disparities in Lung Nodule and Lung Cancer Management</p> <p><b>P799</b> Lung Cancer Screening in People With Obesity</p> <p><b>P800</b> Clinical Benefit of Extended Investigations for Sub-solid Pulmonary Nodules Beyond the Fleischner Society 2017 Guideline Recommendations</p> <p><b>P801</b> Programmed Death Ligand-1 (PDL-1) Expression and Its Determinants in Patients With Lung Cancer: A Tertiary Care Centre Experience in India</p> <p><b>P802</b> Spontaneous Upregulation of Cancer Markers in Mice With Targeted Deletion of the Vasoactive Intestinal Peptide (VIP) Gene: Detection via Imaging Mass Cytometry™ and Comparison With These Mice Exposed to World Trade Center Dust</p> <p><b>P803</b> The Impact of a Community-Based Multidisciplinary Lung Nodule Program on Health Disparities in Lung Cancer</p> |
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- P804** Age-Stratified Subanalysis of a Closed Loop, Fully Automated Lung Nodule Risk Assessment AI Software
- P805** Metabolomic, Microbiome and Transcriptomic Study of Crofelemer or Loperamide in Rat Model of Afatinib-induced Intestine Epithelial Damage and Diarrhea
- P806** Centralizing Lung Cancer Screening Programs: A Quality Improvement Project
- P807** Sequential Crack Formation Is the Dominant Drug Transport Mechanism During Intratumoral Delivery

**CLINICAL****THEMATIC POSTER SESSION**

## **B80-2 NAVIGATING THE AIRWAYS: ADVENTURES IN INTERVENTIONAL PULMONOLOGY**

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

Moscone Center

Area G, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P808** Airway Navigation: Beyond the Blockage
- P809** Minimally Invasive Approach to Station 5 & 6 Biopsies
- P810** A Rare Encounter in the Thorax
- P811** Bridging Specialties: Interventional Pulmonology's Role in Thyroid Cancer Management
- P812** Endobronchial Treatment of Bronchial Carcinoid Tumor
- P813** Multilobar Lung Biopsy: A Single-Procedure Approach for Multi Etiological Evaluation
- P814** Framing Bias and Life-changing Decisions: A Rare Airway Neoplasm Presenting as a One-way Ball Valve During Emergent Bronchoscopy
- P815** A Novel Use of EUS-B-FNA to Diagnose Pleural Metastasis
- P816** Pulmonary Kaposi Sarcoma: A Rare Presentation and Role of Robotic Bronchoscopy in Its Diagnosis

- P817** Single Anesthesia Robotic-Assisted Bronchoscopic Biopsy and Surgical Resection of Oligometastatic Meningioma to the Lung
- P818** Navigating Critical Airway Obstruction: ECMO-assisted Tumor Debulking in Metastatic Tracheal Cancer
- P819** Lymphatic Labyrinth: Tracing the Hemoptysis Trail
- P820** Endobronchial Management of an Inflammatory Myofibroblastic Tumor Obstructing the Left Main Bronchus
- P821** Y Not? Managing Malignant Stenosis With a Y-stent
- P822** Unusual Suspects: Chyloma Arising From Non-Traumatic Superior Vena Cava Obstruction
- P823** Remote Lung Cancer Recurrence in Surgical Staple Site Successfully Diagnosed With Endobronchial Ultrasound and Treated With Stereotactic Body Radiation Therapy Alone
- P824** Acute and Recurrent Growth of a Tracheal Obstructing Myeloid Sarcoma
- P825** Valve-ued Decisions: Bronchoscopic Lung Volume Reduction in a Patient With Squamous Cell Carcinoma
- P826** Jalapeño Mainstem: A Case of an Aspirated Jalapeño Caught on a Tumor
- P827** Tap, Tap, Tap In: A Tale of a Malignant Pleural Effusion That Was Initially Transudative
- P828** Two Tumors, One Chest: Unraveling Synchronous Lung Cancers
- P829** Incidental Pulmonary Embolism Diagnosed With Endobronchial Ultrasound
- P830** Recurrent Obstruction of Left Mainstem Bronchus by Endobronchial Carcinoid Tumor: Sometimes You Can Have a Hernia in the Airway
- P831** Tale of Two Nodules
- P832** Impact of Robotic-assisted Bronchoscopy on Diagnosis and Management Planning of Multiple Primary Lung Cancers
- P833** To Poke or Not to Poke? A Case Report of a Lung Nodule That Should Not Be Biopsied
- P834** Robotic-assisted Transbronchial Stump Hilar Lymph Node Biopsy

- P835** Double Trouble: Overcoming the Dual Challenge of Persistent Air Leak and Trapped Lung in a Complex Case of Lung Adenocarcinoma
- P836** When Airway Tells a Tale through the Bronchoscopic Lens Revealing Tracheobronchopathia Osteochondroplastica
- P837** Beyond Pulmonary Embolism: When the Clot Thickens
- P838** When Tuberculosis Isn't the Culprit: High-Grade Neuroendocrine Carcinoma as an Elusive Mimicker
- P839** A Tale of Two Tumors
- P840** Three-for-One: A Case of Triple Primary Lung Carcinoma
- P841** A Rare Presentation of Pulmonary Kaposi Sarcoma
- P842** Tracheal Chondrosarcoma Presenting as Variable Extrathoracic Airway Obstruction Surgically Resected on Veno-venous Extracorporeal Membrane Oxygenation
- P843** A Rare Case of Primary Pulmonary Rhabdomyosarcoma in an Elderly Man
- P844** Silent Intruder: Mucoepidermoid Carcinoma of the Lung Presenting With Recurrent Pneumonia
- P845** Stage IV Non-Small Cell Lung Cancer Complicated by Bronchoesophageal Fistula and Recurrent Hemoptysis
- P846** Case Study: Multimodal Management of Sequential Primary Lung Malignancies in a Patient With Chronic Pulmonary Disease and Ongoing Tobacco Use
- P847** The Great Imitator: Mucinous Adenocarcinoma Guised as Pneumonia
- P848** Significance of Recognizing Evolving Etiology Trends of Superior Vena Cava Syndrome
- P849** Into the Depths of Lymphoma: Ion Robotic Bronchoscopy in Lymphoma Diagnosis
- P850** Determining the Optimal Airway Clearance Technique for Managing Post-radiotherapy Tracheal Stricture in a Patient With Inoperable Primary Tracheal Cancer
- P851** Squamous Cell Carcinoma of the Lung Presenting as Pulmonary Arteriovenous Fistula Induced Hemoptysis
- P852** From Incidental Finding to Diagnosis: The Diagnostic Journey of Inflammatory Myofibroblastic Tumor Via Real-time R-EBUS
- P853** A Hidden Obstruction: The Endobronchial Schwannoma Behind Asthma-Like Symptoms
- P854** Metastatic Prostate Adenocarcinoma Diagnosed Via Endobronchial Ultrasound Guided Biopsy
- P855** Unusual Presentations of Metastatic Spindle Cell Melanoma
- P856** Uncommon Tumor, Common Symptom: Hemoptysis in Pulmonary Paraganglioma
- P857** Endobronchial Inflammatory Myofibroblastic Tumor Treated by Bronchotomy
- P858** 49 Year Old Man With Kappa Light-chain Multiple Myeloma Presenting With Hemoptysis
- P859** Beyond the Usual Suspects: A Presentation of Endobronchial B-cell Lymphoma in HIV
- P860** Small Cell Lung Cancer Presenting as Endobronchial Tumor
- P861** Sarcomatoid Carcinoma of the Lung With Cardiac Tamponade: A Rare Cancer With Uncommon Presentation
- P862** Initial Diagnosis of Metastatic Melanoma Confirmed on Endobronchial Ultrasound Biopsy

## CLINICAL

## THEMATIC POSTER SESSION

### B80-3 UNMASKING THE SHADOWS: RARE AND ATYPICAL PRESENTATIONS OF NON-SMALL CELL LUNG CANCER

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

Moscone Center

Area G, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

**P864** A Clinical Study of Invasive Mucinous Adenocarcinoma Detected as Small Nodules and Diagnosed Through Surgical Lung Biopsy

**P865** Pulmonary Pleomorphic Carcinoma: Rare Aggressive Lung Cancer

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| <p><b>P866</b> Drowning in Mucus: Recurrent Respiratory Failure From Mucinous Adenocarcinoma</p> <p><b>P867</b> Right Upper Lobe Lung Adenocarcinoma With Oligometastatic Left External Iliac Lymph Node Involvement</p> <p><b>P868</b> A Rare Presentation of a Rare Disease: Invasive Mucinous Adenocarcinoma Presenting as Multiple Cavitory Nodules</p> <p><b>P869</b> Double Trouble? Rare Case of Combined Small Cell and Lung Adenocarcinoma Presenting With Obstructive Shock Due to Malignant Cardiac Tamponade</p> <p><b>P870</b> A Challenging Case of Organizing Pneumonia and Hidden Lung Adenocarcinomas</p> <p><b>P871</b> Decoding the Shadows: Primary Lung Adenocarcinoma Manifesting as Bilateral Reticulonodular Infiltrates</p> <p><b>P872</b> Leptomeningeal Carcinomatosis in Lung Adenocarcinoma - A Case Report Highlighting Radiographic Findings</p> <p><b>P873</b> A Rare Spread: Case Report of Miliary Pattern in Primary Lung Adenocarcinoma With Simultaneous Cavitory Lesions</p> <p><b>P874</b> Beyond Risk Factors: A Young Non-smoker's Battle With Metastatic Lung Cancer</p> <p><b>P875</b> Mucinous Adenocarcinoma Masquerading as Cryptogenic Organizing Pneumonia in a Patient With Scleroderma</p> <p><b>P876</b> Unexpected Malignancy in a Chronic Obstructive Pulmonary Disease Patient: Incidental Squamous Cell Carcinoma Within a Bullae</p> <p><b>P877</b> Hidden in the Haze: Lepidic Adenocarcinoma Masquerading as Pneumocystis Pneumonia</p> <p><b>P878</b> A Rare Case of Metastatic Adenocarcinoma Arising From a Bronchogenic Cyst</p> <p><b>P879</b> Unmasking Combined Small Cell Lung Carcinoma: A Case of SCLC With Squamous Cell Carcinoma</p> <p><b>P880</b> Mucinous Adenocarcinoma of the Lung Diagnosed on Sputum Cytology Initially Mimicking as Pneumonia</p> <p><b>P881</b> A Case of Primary Lung Adenocarcinoma Causing Cardiac Tamponade With Palpable Pulsus Paradoxus</p> | <p><b>P882</b> Decoding the Uncommon: Papillary Lung Adenocarcinoma Presenting as Non-Resolving Pneumonia in a 36-Year-Old Male</p> <p><b>P883</b> Double Trouble: Two Metachronous Malignancies in the Same Surgical Resection</p> <p><b>P884</b> Diagnostic Challenge of Diffuse Pneumonic-type Lung Adenocarcinoma Mimicking Infectious Lung Disease</p> <p><b>P885</b> Long-term Survival in a Patient With Primary Lung Adenocarcinoma and CNS Oligometastatic Disease: A Case Report</p> <p><b>P886</b> Acinar Predominant Invasive BRAF V600E Adenocarcinoma of the Lung Presenting as Pneumonia: A Case Series</p> <p><b>P887</b> Occult Primary Non-small Cell Carcinoma of the Lung: A Diagnostic Challenge</p> <p><b>P888</b> Cavity Search: Unmasking Lung Adenocarcinoma</p> <p><b>P889</b> An Atypical Bilateral Lepidic Adenocarcinoma of the Lungs</p> <p><b>P890</b> Molecular Profiling: Genomic Guided Therapy for Lung Adenocarcinoma</p> <p><b>P891</b> Papillary Adenocarcinoma, A Rare Type of Lung Cancer</p> <p><b>P892</b> Case Report of Acute Respiratory Failure and Cardiac Tamponade Unusual Initial Presentation of Lung Adenocarcinoma</p> <p><b>P893</b> Unmasking Malignancy in the Pleura: A Case of Dyspnea and Effusion Unveiling Adenocarcinoma</p> <p><b>P894</b> A Case of Hidden Threats: Metastatic Right Middle Lobe Adenocarcinoma With Lymphangitic Carcinomatosis Mimicking Musculoskeletal Pain</p> <p><b>P895</b> Metastatic Poorly Differentiated Carcinoma in a Patient With Crohn's Disease: A Case of Pulmonary-origin Cancer With Multisystem Involvement</p> <p><b>P896</b> Lung Adenocarcinoma Presenting a Miliary Pattern of Radiographic Infiltrates in a 51-year-old Filipino Female: A Case Report</p> <p><b>P897</b> A Case of Plexiform Neurofibroma Identified by MRI Following Chest X-ray Abnormality Detected by Health Checkup</p> |
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- P898** A Rare Case of Spontaneous Hemomediastinum Due to Internal Mammary Artery Pseudoaneurysm in a Patient With Neurofibromatosis Type 1
- P899** Neurofibromatosis-associated Diffuse Lung Disease With Concurrent Metastatic Adenocarcinoma: A Case Report

### CLINICAL

### THEMATIC POSTER SESSION

#### **B80-4** DIAGNOSTIC AND TREATMENT CHALLENGES IN THE LUNG: NEUROENDOCRINE LESIONS, MEDIASTINAL MASSES, AND SURGICAL INTERVENTION

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

Area G, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P900** Unveiling the Mask: DIPNECH Mimicking Obstructive Airway Symptoms - A Case Study
- P901** Small Cell Lung Cancer Presenting as a Shrinking Nodule - A Cautionary Tale
- P902** Not So Typical: Typical Carcinoid With Nodal Metastasis
- P903** Unmasking the Mimic: Small Cell Lung Cancer Presenting as Cytopenias Resembling Hematological Malignancy
- P904** Endocrine Crisis and Obstruction: ACTH-producing Small Cell Lung Cancer Presenting With Superior Vena Cava Syndrome
- P905** A Small Cell, Big Impact - Responsiveness of Small Cell Lung Cancer to Chemotherapy: A Case Report
- P906** A Rare Case of Large Cell Neuroendocrine Carcinoma of the Lungs in a Young Guy With Minimal Smoking History
- P907** Pulmonary Large Cell Neuroendocrine Carcinoma: A Case Report
- P908** Unseen and Unheard: A Rare Peripheral Bronchial Carcinoid Adenoma in an Asymptomatic Patient
- P909** Incidental Presentation of Carcinoid Tumor
- P910** A Case of Triple Diagnosis on Video-Assisted Thoracoscopic Surgery (VATS)
- P911** A Rare Case of Dual Malignancy: Recurrent Thymoma With Metastasis and Squamous Transformation
- P912** A Tough Diagnosis to Swallow: Dysphagia Leading to Diagnosis of Mediastinal Paraganglioma
- P913** Simultaneous Operations in Cardiac Surgery
- P914** Mass Confusion
- P915** Metastatic Medullary Thyroid Cancer With a Miliary Pattern of Pulmonary Amyloidosis
- P916** An Unusual and Aggressive Posterior Mediastinal Mass - Extramedullary Plasmacytoma With Multiple Myeloma
- P917** Melanoma Masquerades as a Mediastinal Mass
- P918** Diagnostic Challenges in Identifying a Large Heterogeneous Mediastinal Mass: A Case Report
- P919** Choking on the Clue: Massive Hemoptysis Leading to the Diagnosis of Superior Vena Cava Syndrome in Lung Cancer
- P920** Large Pericardial Effusion With Cardiac Tamponade: An Ill Omen?
- P921** Retroperitoneal Ganglioneuroma of the Thoracic and Lumbar Spine Discovered Postpartum
- P922** Resolution of Atrial Fibrillation Following Thymic Cyst Resection With Subsequent Onset of Myasthenia Gravis: A Case Report and Literature Review
- P923** Warning: Femoral Access Is Preferred Over Jugular or Subclavian Accesses for Central Line Placement in Sternotomies
- P924** Too Close for Comfort: Superior Vena Cava Syndrome Due to Mediastinal Mass
- P925** The Fifth Anterior Mediastinal Mass - Idiopathic Lymphangioma in an Adult Patient
- P926** Cardiac Tamponade as Presenting Symptom of Malignancy
- P927** Rare Case of Intrapulmonary Mature Teratoma in a Young Male: Diagnostic Challenges and Surgical Management
- P928** Unmasking Diffuse Idiopathic Pulmonary Neuroendocrine Cell Hyperplasia: Clinicopathologic Features of a Rare Pulmonary Disorder



## MEDICAL EDUCATION SEMINAR

**ME102 DUAL DUTIES: HEALTHCARE PROVIDERS AS CAREGIVERS**

 Pre-registration and additional fee required. Attendance is limited.

Assembly on Behavioral Science and Health Services Research

10:45 AM – 11:45 AM

Moscone Center

Room 23, Hall E (North Building, Exhibition Level)

**Objectives**

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

- identify and articulate the unique challenges faced by individuals balancing full-time employment with caregiving responsibilities
- learn effective strategies for managing time between work responsibilities and caregiving duties, and develop techniques to effectively communicate with employers, colleagues, and family members about caregiving responsibilities and work commitments
- identify workplace-based solutions that are both flexible and creative enough to mitigate the challenges of both caregiving and career advancement

**WOMEN'S FORUM**

11:45 a.m. - 1:15 p.m.

San Francisco Marriott Marquis

Yerba Buena Ballroom Salon 8 (Lower B2 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. The forum provides a valuable opportunity for women to find value in the inspirational messages and career insights the speakers share. This year's speaker is Yolanda Mageto, MD, MPH, ATS, a pulmonary critical care specialist with nationally recognized expertise in interstitial lung disease (ILD) and the Medical Director of Interstitial Lung Disease at Baylor University Medical Center in Dallas.

The **Elizabeth A. Rich, MD** Award, recognizing outstanding contributions to the advancement of women in pulmonary medicine, will be presented.

*ATS thanks*

*United Therapeutics, Sanofi | Regeneron and Genentech, Inc. for their generous support of the Women's Forum.*



# ATS 2025 International Conference

 **ATS 2025**

San Francisco, CA

Monday Mid-Day, May 19

## CLINICAL

## ADULT CLINICAL CORE CURRICULUM

**CC3 ADULT CRITICAL CARE CORE CURRICULUM**

SCALE: Core Curriculum Committee

11:30 a.m. - 1:00 P.M.

Moscone Center

Esplanade Ballroom (Upper Mezzanine, South Building)

**Target Audience**

Practicing physicians, trainees, students, Advanced Practice Providers

**Objectives**

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

- Integrate new critical care guidelines in to clinical practice.
- Identify knowledge gaps in the treatment of patients with critical illness.
- Better counsel patients on treatment options available for critical illness.

The goal of the core is to 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 key topics in the areas of Adult and Pediatric Pulmonary, Critical Care, and Sleep Medicine. The topics are aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to help clinicians stay up to date with important information relevant to

their medical practices, and to provide an opportunity for clinicians to evaluate their individual knowledge and skills while earning MOC Medical Knowledge points

- 11:30** **Life is a Highway: Advice on Seeking a Higher Level of Care**
- 11:55** **A Change Would Do You Good: LTAC Indications and Outcomes**
- 12:20** **We Are Family: Impact of Patient Transfers on Families**
- 12:45** **Q&A**

### **SPS4 ADDRESSING THE UNMET NEEDS OF REFRACTORY CHRONIC COUGH**

**12:15 PM – 1:15 PM** **Moscone Center**

Room 24, Hall E (North Building, Exhibition Level)

- 12:15** **Addressing the Unmet Needs of Refractory Chronic Cough**

### **SPS5 THE EVOLVING LANDSCAPE OF ILD: DIAGNOSIS, PROGNOSTIC INDICATORS, AND NEW TREATMENTS**

**12:15 PM – 12:45 PM** **Moscone Center**

Room 25, Hall E (North Building, Exhibition Level)

- 12:15** **Diagnosis, Defining and Differentiating the ILDs**
- 12:15** **Disease Progression and Emerging Therapies**

### **SPS6 CAREER IN TRANSITION: ACADEMIC MEDICINE TO INDUSTRY**

**12:15 PM – 1:15 PM** **Moscone Center**

Room 205-206 (South Building, Level 2)

Room 205-206 (South Building, Level 2)

- 12:15** **Brief Structured Panel Discussion**
- 12:35** **Question and Answer**
- 12:55** **Networking**

### **SPS7 SHARING STORIES OF ADVOCACY AND IMPACT IN CHALLENGING TIMES**

**12:15 p.m. - 1:15 p.m.** **Moscone Center**

Room 2001/2003 (West Building, Level 2)

- 12:15** **Introduction: How Do We Meet The Moment?**
- 12:19** **This Hits Home: Why I Have To Advocate For A Better Tomorrow!**
- 12:31** **Getting Ready To Resist: Meeting The Moment**
- 12:43** **Attack On Dei: How To Defend Dei In A Hostile World**
- 12:55** **Panel Discussion/Audience Q&A**

### **BEHAVIORAL • CLINICAL**

### **MID-DAY SYMPOSIUM**

### **MD15 ATS SCHOLAR: PEER REVIEW 101 FOR THE CLINICIAN EDUCATOR**

ATS Scholar

**12:00 P.M. - 1:00 P.M.** **Moscone Center**

Room 303 (South Building, Level 3)

#### **Target Audience**

Providers of lung health who are clinician educators at academic centers

#### **Objectives**

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

- implement an appropriate framework for writing a peer review of a scientific manuscript
- critically assess the methods, results, and conclusions of scientific manuscripts, identifying strengths, weaknesses, and potential biases in order to provide constructive feedback to authors
- improve skills in writing clear, concise, and actionable peer review reports that help authors improve their manuscripts and contribute to the advancement of scientific knowledge

This session led by the editors of ATS Scholar will walk through the basics of peer review for clinician educators who may want to contribute to ATS journals peer review process but lack experience or want helpful tips on how to be an effective reviewer. The session

will be interactive, walking through an example manuscript and decision, highlighting the important elements that an expert peer reviewer would consider and comment on when completing the review process.

- 12:00** Introduction to Peer Review for Clinician Educators
- 12:05** A Structured Approach to Reading and Reviewing a Paper
- 12:20** General Discussion
- 12:30** Practical Tips to Writing Peer Review Decisions
- 12:45** Editor's Perspective on Peer Review
- 12:55** General Discussion

### BASIC • TRANSLATIONAL

### MID-DAY SYMPOSIUM

## MD16 RED JOURNAL IN ACTION 2: AIRWAYS MEET NEUROSCIENCE PERSPECTIVES

American Journal of Respiratory Cell and Molecular Biology

**12:00 P.M. - 1:00 P.M.**

**Moscone Center**

Room 304 (South Building, Level 3)

### Target Audience

Basic and translational researchers interested in neurobiology and neuroimmunology in airway disorders and cough; individuals interested in understanding objectives for Am J Respir Cell Mol Biol collections of themed perspectives and reviews.

### Objectives

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

- describe new discoveries about the diversity of airway nerve structure and function, and neural dysregulation in the manifestation of airway diseases and cough
- understand emerging technologies and research models to investigate the role of airway nerves in lung disease origins, pathogenesis and pathophysiology
- appreciate the objectives of Collections at Am J Respir Cell Mol Biol and understand opportunities to suggest and co-develop future compilations with journal editors

The session features experts of Perspectives articles in an Am J Respir Cell Mol Biol collection "Wired for Action: Airways Meet Neuroscience". The presentations highlight emerging understanding of airway nerve dysregulation and neuroimmune interactions in asthma and chronic cough. The session will also

highlight the goals and opportunities future Collections in The Red Journal.

- 12:00** Introduction and Overview
- 12:05** Brainstem Dbh+ Neurons Control Chronic Allergen-Induced Airway Hyperreactivity
- 12:33** Airway Sensory Nerve Plasticity in Asthma and Chronic Cough
- 12:54** Q & A

### CLINICAL

### MID-DAY SYMPOSIUM

## MD17 PCORI-FUNDED PULMONARY & CRITICAL CARE TRIALS

Patient-Centered Outcomes Research Institute (PCORI)

**12:00 P.M. - 1:00 P.M.**

**Moscone Center**

Room 209-210 (South Building, Level 2)

### Target Audience

Clinicians and clinical researchers in pulmonary and critical care with an interest in clinical trials and patient-centered comparative clinical effectiveness research.

### Objectives

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

- better understand CER and how ongoing CER studies can help people make more informed healthcare decisions and improve healthcare delivery and outcomes
- better understand the importance and feasibility of patient engagement in pulmonary and critical care CER studies

This session will provide an overview of PCORI and its comparative clinical effectiveness research (CER) funding opportunities. Ongoing PCORI-funded pulmonary & critical care studies will be presented by investigators and patient partners, including discussion of how the studies are patient-centered and actively engage patients and other stakeholders.

- 12:00** Overview of PCORI
- 12:10** Overview of the RSI Study
- 12:20** Patient Engagement in the RSI Study
- 12:30** Overview of the EQUIP COPD Study
- 12:40** Patient Engagement in the EQUIP COPD Study
- 12:50** Panel Discussion

## BEHAVIORAL • CLINICAL

## MID-DAY SYMPOSIUM

**MD18 IMPROVING COPD CARE QUALITY USING IMPLEMENTATION SCIENCE METHODS**

Division of Lung Diseases, NHLBI, NIH

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 3006/3008 (West Building, Level 3)

**Target Audience**

Any clinician or researcher interested in improving COPD care quality using implementation science methods

**Objectives**

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

- provide overview of goals of implementation science versus human centered design
- discuss how integrating implementation science and human centered design approaches can be synergistic
- outline challenges in conducting implementation science randomized trials

Improving the quality and value of care for patients with COPD is complex and, in many instances, knowledge of effective interventions is known, yet are not implemented in practice. In this session, four speakers at different stages of their careers will address projects that use implementation science to study how to improve care quality in COPD, including transition of care to reduce readmissions, multi-modal intervention for improving health outcomes in wildfires, COPD self-management and reducing polypharmacy and fall risk for multi-morbid adults with COPD.

**12:00 Integrating Implementation Science and Human Centered Design Methods to Improve COPD Transitions of Care**

**12:10 Preventing Hospitalizations for COPD Exacerbations Due to Air Pollution**

**12:20 Optimizing COPD Self-Management Programs for Effectiveness and Implementation**

**12:30 Reducing Polypharmacy and Fall Risk for Multi-Morbid Adults with COPD**

**12:40 Improving Access to Pulmonary Rehabilitation in Low-Resourced Health Care Settings**

**12:50 Panel Discussion**

## TRANSLATIONAL

## MID-DAY SYMPOSIUM

**MD19 ONE BREATH, MANY SPECIES: TRANSLATIONAL APPLICATIONS OF LUNG DISEASES**

ATS Members and CTSA One Health Alliance

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 2010/2012 (West Building, Level 2)

**Target Audience**

Clinicians/clinician-scientists treating pulmonary disorders, seeking to learn from other disciplines. Scientists interested in cross-species respiratory disease models. Clinicians and researchers interested in cross-species collaborations.

**Objectives**

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

- improve awareness of large animal models (canine, feline, and equine) in pulmonary fibrosis, asthma, and exercise-disordered breathing useful in human pre-clinical trials
- understand respiratory dysbiosis associated with respiratory disease, particularly with respect to fibrosis and other remodeling changes and inflammation
- provide a platform for discussion allowing future interdisciplinary and cross-species collaboration for clinically important respiratory disorders

Despite many respiratory diseases benefitting from induced animal models, we explore spontaneous respiratory conditions in domestic animals. Given similarities to human physiology and immunology, domestic animals serve greater translatability as pre-clinical models. Pulmonary fibrosis manifests in multiple animals. Cats and horses develop allergic/eosinophilic and neutrophilic asthma, respectively. Complex genetics, shared environment, and airway dysbiosis increase their relevance for humans. Exercise-disordered breathing in horses could translate to dynamic airway changes in humans (exercise-induced laryngeal obstruction, dynamic airway collapse), under studied in humans.

**12:00 Session Chair Opening Statement**

**12:02 Fibrosis Across Species: Lessons Learned**

**12:12 Questions and Discussions: Pulmonary Fibrosis Across Species**



- 12:16** Airway Remodeling and Structure-Function Relationship in an Equine Asthma Model
- 12:26** Questions and Discussions: Asthma Across Species
- 12:30** Exercise-Disordered Breathing in Equine and Human Athletes
- 12:40** Questions and Discussions: Exercise-Disordered Breathing Across Species
- 12:44** The Respiratory Microbiome: Using Comparative Information from Animal Species
- 12:54** Questions and Discussions: Respiratory Microbiome Across Species
- 12:58** Session Chair Closing Statement

## BASIC • CLINICAL • TRANSLATIONAL

## MID-DAY SYMPOSIUM

## MD20 THE TRANSPIRE STUDY- LUNG INJURY WITH PEDIATRIC HEMATOPOEITIC STEM CELL TRANSPLANTATION

Division of Lung Diseases, NHLBI, NIH

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 3000/3002/3004 (West Building, Level 3)

**Target Audience**

Pediatric and adult pulmonologists, fellows, residents and medical students, basic science researchers in lung injury

**Objectives**

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

- understand current study findings of baseline lung function and potential impact post stem cell transplant
- understand different methods used as biomarkers for pulmonary disease post stem cell transplant
- a new understanding of imaging techniques to detect pulmonary complications post stem cell transplant

Hematopoietic stem cell transplantation (HSCT) poses a risk of short- and long-term toxicity. Pulmonary morbidity affects up to 25% of children receiving transplant. An NHLBI -supported R01-TRANSPIRE, is a large prospective uniformly screened cohort of children receiving HSCT to identify risk factors, mechanisms and optimal screening, diagnostic and therapeutic modalities. TRANSPIRE has enrolled over 400 allogeneic HSCT patients

across 7 sites. In this session, clinical data, and preliminary results of longitudinal pulmonary function testing, oscillometry, Multiple Breath Washout/Lung Clearance and Hyperpolarized Xenon MRI will be presented, to educate the audience on pulmonary complications after pediatric HSCT.

**12:00** Lung Injury in a Longitudinal Cohort of Pediatric Hematopoietic Stem Cell Transplant Patients

**12:12** TRANSPIRE- Baseline Pulmonary Findings Pre HSCT

**12:24** TRANSPIRE -Oscillometry and MBW Longitudinal Findings

**12:36** Potential Protein Biomarkers in HSCT Lung Injury -Updates from the TRANSPIRE Cohort

**12:48** Xe MRI Imaging Findings in the TRANSPIRE Cohort

## BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

## MID-DAY SYMPOSIUM

## MD21 50 YEARS OF SUPPORTING LUNG RESEARCH: THE PARKER B. FRANCIS FELLOWSHIP

Francis Family Foundation/ATS

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 3020 (West Building, Level 3)

**Target Audience**

Any and all lung researchers, junior faculty, and trainees

**Objectives**

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

- affirm the mission of the PBF "To exert a favorable and lasting influence on the field of pulmonary medicine by providing the means to support promising young physicians and scientists for a period of training in research"
- highlight the history and impact of the PBF Fellowship on advancing the understanding and treatment of lung diseases

In 2025, the Francis Family Foundation, via the Parker B. Francis Fellowship, will be celebrating its 50th year of supporting the development of junior faculty in lung research. These three-year mentored junior faculty awards have launched the careers of nearly 1,000 researchers in nearly every area of lung disease and lung biology. This session will highlight the impact the PBF Fellowship has had on lung research over the last 50 years and serve as a Q&A for those interested in applying.

- 12:00 History of the PBF  
 12:20 Impact of the PBF Fellowship  
 12:30 Impact of the PBF Fellowship  
 12:40 Impact of the PBF Fellowship  
 12:50 Purpose and Vision of the PBF

### BASIC • CLINICAL • TRANSLATIONAL

### MID-DAY SYMPOSIUM

## MD22 EVALUATING INTERSTITIAL LUNG ABNORMALITIES AS EARLY RISK FACTORS FOR PULMONARY FIBROSIS

Division of Lung Diseases, NHLBI, NIH

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 2018/2020 (West Building, Level 2)

### Target Audience

Fellow juniors and established professionals

### Objectives

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

- understand new technologies (transcriptomics and metagenomic analyses, lung function and imaging analyses) and evaluation of environmental risk factors to investigate pathogenic mechanisms and prediction of pulmonary fibrosis and genetic disorders
- understand the pathogenesis, genetic, and environmental risk factor of pulmonary fibrosis
- Clinical Phenotyping of Pulmonary fibrosis to understand, diagnose, predict and improve outcomes

Interstitial lung abnormalities (ILA) are incidental findings of computed tomography (CT) abnormalities with potential to reveal interstitial lung disease (ILD) in undiagnosed patients, to inform about subclinical pulmonary fibrosis (PF), and to anticipate disease progression. NHLBI-funded projects focused on cohort data to study the risk factors, the etiology, natural history, and phenotypic heterogeneity of ILA will be presented. Participants will discuss opportunities to prognosticate PF and to intervene during early, pre-symptomatic PF. The scientific information of this session will create awareness and interest in ILA as well as about their unique and overlapping features with PF.

### 12:00 Development and Progression of ILA in Persons At-Risk for Familial Pulmonary Fibrosis

- 12:12 ILA in First-Degree Relatives  
 12:24 Early Lung Fibrosis: an Opportunity to Intervene  
 12:36 ILAs Are Common Among Older Adults  
 12:48 Discussion

### TRANSLATIONAL

### MID-DAY SYMPOSIUM

## MD23 NEW INSIGHTS INTO THE PATHOPHYSIOLOGY OF SEVERE ASTHMA

NIAID

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 2014/2016 (West Building, Level 2)

### Target Audience

Clinicians, basic & clinical researchers

### Objectives

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

- describe 2 cell death and survival pathways impacting epithelial cell differentiation and function, & discuss how compartmentalized ferroptosis and its mitophagic response could lead to approaches to normalizing diseased epithelium in asthma
- describe innate immune responses to respiratory viral infection by bronchial epithelium, & how variability in inflammatory responses relates to asthma severity, exacerbations, clinical phenotypes, and type -2 (T2) & non-T2 endotypes
- review current data on the regulation of airway inflammation by incretin signaling pathways including the GLP-1 receptor, & discuss potential clinical implications of incretin mimetic therapeutics for the management of obesity-related asthma

This session will highlight emerging data generated by NIAID-funded investigators describing novel pathophysiologic mechanisms underlying asthma severity.

- 12:00 Metabolic and Mitochondrial Changes Drive Airway Epithelial Remodeling  
 12:20 Enhanced Inflammation and Viral Replication in Epithelium from Children with Severe Asthma Exacerbation  
 12:40 Targeting Incretin Pathways to Attenuate Obesity-Related Asthma

## CLINICAL • TRANSLATIONAL

## MID-DAY SYMPOSIUM

## MD25 INSIGHTS FROM THE SUBPOPULATIONS AND INTERMEDIATE OUTCOMES IN COPD STUDY (SPIROMICS) FAMILY OF STUDIES: EARLY DATA AND FUTURE PLANS

Division of Lung Diseases, NHLBI, NIH

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 211-212 (South Building, Level 2)

### Target Audience

Researchers, medical trainees, those interested in origins and subtypes of COPD

### Objectives

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

- understand “pre-COPD” as well as plans to investigate early COPD
- understand associations between COPD and cardiovascular phenotypes
- understanding how epigenetics are related to COPD phenotypes

The SubPopulations and InteRmediate Outcomes In COPD Study (SPIROMICS) is a clinical observational study intended to identify different subpopulations of individuals with COPD and ultimately define endotypes within this heterogeneous disease that are responsive to mechanism-specific interventions. SPIROMICS has launched and been included in a family of studies, including SOURCE, a cohort designed to investigate the origins of COPD and SPIROMICS Heart Failure, which collects cardiovascular measures in a subset of the SPIROMICS cohort. During this session, investigators will discuss plans for continuing the cohort, recent results from SPIROMICS as well the progress of other studies in the SPIROMICS family.

**12:00 “One Plus Two Equals Three”: Design and Timeline for SPIROMICS III**

**12:15 Early Results from SOURCE, a Study of the Origins of Early COPD**

**12:30 Cardiac Changes in Symptomatic Tobacco-Exposed Persons with Preserved Spirometry**

**12:45 Insights from Epigenetic Studies in SPIROMICS**

## CLINICAL • TRANSLATIONAL

## MID-DAY SYMPOSIUM

## MD27 UNDERSTANDING DISPARITIES IN CHILDHOOD ASTHMA USING NIH ENVIRONMENTAL INFLUENCES ON CHILD HEALTH OUTCOMES (ECHO) PROGRAM DATA: MULTICENTER APPROACHES

National Institutes of Health, Environmental Influences on Child Health Outcomes

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 2005/2007 (West Building, Level 2)

### Target Audience

Attendees interested in pediatric asthma research; health equity research and airways research leveraging the NIH Environmental influences on Child Health Outcomes (ECHO) Program.

### Objectives

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

- describe how geospatial sciences can be applied to understand root causes of asthma disparities
- incorporate new ATS guidelines on race-based lung function measurements into clinical practice
- be able to describe links between socioeconomic factors, early life wheezing episodes, and neurocognitive development

There are marked disparities in the incidence and disease activity of childhood asthma. Multicenter research efforts are helpful to address these disparities, their causes and their consequences. The information in the proposed session will identify associations between race, social context and the diagnosis and course of childhood asthma. These studies will help with interpretation of lung function test with respect to asthma and identify targets to improve neighborhood factors related to asthma.

**12:00 Social Determinants of Early Life Wheeze and Neurocognitive Outcomes in Children**

**12:15 Using Geospatial Science to Understand Childhood Asthma Disparities**

**12:30 Self-Reported Race Influences Associations Between Spirometry and Childhood Asthma Risk**

**12:45 Panel Discussion**

## BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

## MID-DAY SYMPOSIUM

**MD29 USE OF ARTIFICIAL INTELLIGENCE IN VHA'S LPOP IMPROVES SCREENING EFFICIENCY**

Office of Research and Development, Department of Veterans Affairs

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 3001/3003 (West Building, Level 3)

**Target Audience**

Those interested in lung cancer care and lung cancer screening; those with clinical, research, or administrative responsibilities within the VA; those interested in learning more about clinical applications of artificial intelligence.

**Objectives**

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

- manage and run lung cancer screening programs with a sense of the importance of beginning to incorporate the tools of artificial intelligence
- establish screening for those who have the greatest risk and avoid over-screening those with lower risk and to incorporate Sybil into accomplishing this process
- put a special emphasis on detecting ILA's and full-blown interstitial lung diseases in our screening LDCT scans

In 11/2020 VHA embarked on LPOP to improve lung cancer care among Veterans. One goal was increased access to early detection through screening. The program has grown. There are now 118 VA facilities across the country with screening programs within LPOP. This growth has led to a focus on inefficiencies in screening and a realization about the importance of improving them. A VA Hub called CoMPL (Computer Vision and Machine Learning in Precision Oncology) has made the use of artificial intelligence (AI) available to LPOP investigators. This session will describe how AI is being used to improve screening in LPOP.

- 12:00 Using Artificial Intelligence and Radiomics for Risk Stratification in LPOP Screening**
- 12:15 Timely Detection of Pulmonary Fibrosis: AI for Surveillance and Care Pathway Optimization**
- 12:30 AI for Personalized Cancer Screening**
- 12:45 Radiomics and Pathomics for Diagnosis, Prognosis and Predicting Treatment Response of Lung Pathologies**

## BASIC

## MID-DAY SYMPOSIUM

**MD30 MICRO AND NANOPLASTICS HEALTH EFFECTS: WHAT WE KNOW OR DON'T**

National Institute of Environmental Health Sciences

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 3005/3007 (West Building, Level 3)

**Target Audience**

Basic scientists, trainees and physicians

**Objectives**

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

- understand the concerns around the presence of micro/nanoplastic particles in the tissues including lungs and their potential impacts on exacerbation of pulmonary morbidity
- develop a comprehensive understanding on the physical and chemical properties of diverse micro/nanoplastics and how these properties may play a role in perturbing biological outcomes

An estimated 40 million metric tons of plastic waste is generated annually in the US, and about 70% of this ends up in landfills and the environment. Photooxidative, thermal, mechanical, and fragmentation of plastic waste generates plastic particles in the micro and nanometer ranges, termed micro/nanoplastics, or MNPs. MNPs enter the body through the food chain (by direct ingestion or trophic transfer) as well as through the air we breathe and are found in all human tissues. This session will provide an overview of U.S. Federal government agencies efforts to address this emergent public health issue as well as research supported by NIEHS to understand potential health effects of micro and nanoplastics.

**12:00 Introduction****12:05 Inter-Agency Collaborations to Address Knowledge Gaps for Micro and Nanoplastics****12:22 Synthesis and Toxicological Impact of Environmentally Relevant Micro- and Nanoplastics****12:39 Harnessing PET Imaging to Track the Pulmonary Clearance of Micro- and Nanoplastics in Mice****12:56 Moderated Discussion**



**CLINICAL****PEDIATRIC CLINICAL CORE CURRICULUM****PCC2 PEDIATRIC CLINICAL CORE CURRICULUM****SCALe: Core Curriculum Committee****12:00 P.M. - 1:00 P.M.****Moscone Center****Room 215-216 (South Building, Level 2)****Target Audience**

Clinicians, trainees, students, advanced practice providers

**Objectives**

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

- integrate new pediatric pulmonary and critical care guidelines into clinical practice
- identify knowledge gaps in the treatment of pediatric patients with pulmonary disease and critical illness
- better counsel pediatric patients and families on treatment options available for management of pulmonary diseases and critical illness

The goal of the core is to 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 key topics in the areas of Adult and Pediatric Pulmonary, Critical Care, and Sleep Medicine. The topics are aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to help clinicians stay up to date with important information relevant to their medical practices, and to provide an opportunity for clinicians to evaluate their individual knowledge and skills while earning MOC Medical Knowledge points.

**12:00 Capturing the Future: Modern Imaging Techniques****12:20 What's New in Diagnostic Flexible Bronchoscopy****12:40 Panel discussion****ATS 2025  
International  
Conference****ATS 2025****San Francisco, CA****Monday Afternoon, May 19****G5****RECOGNITION AWARDS FOR  
SCIENTIFIC ACCOMPLISHMENTS****2:15 p.m. - 3:45 p.m.****Moscone Convention****Center Room 304 (Level 3, South Building)**

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.

## CLINICAL

## ADULT CLINICAL CORE CURRICULUM

**CC4 ADULT PULMONARY CLINICAL CORE CURRICULUM**

SCALe: Core Curriculum Committee

2:15 P.M. - 3:45 P.M.

Moscone Center

Esplanade Ballroom (Upper Mezzanine, South Building)

**Target Audience**

Physicians practicing Pulmonary Medicine, trainees, and APPs

**Objectives**

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

- apply current guidelines to effectively screen for lung cancer
- identify knowledge gaps in the approach to diagnosis, staging, and treatment suspected lung cancer
- describe the current practice for the identification and management of malignant pleural effusions

The goal of the core is to 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 key topics in the areas of Adult and Pediatric Pulmonary, Critical Care, and Sleep Medicine. The topics are aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to help clinicians stay up to date with important information relevant to their medical practices, and to provide an opportunity for clinicians to evaluate their individual knowledge and skills while earning MOC Medical Knowledge points.

**2:15 Cuts Like a Knife: Determining Candidacy for Lung Cancer Resection**

**2:40 Let's Get Personal: What the General Pulmonologist Needs to Know about Molecular Targets in Lung Cancer**

**3:05 Like a Surgeon: Pleural Procedures for Diagnosis and Management of Malignant Pleural Disease**

**3:30 Panel Discussion**

*This session and the International Conference are supported by an independent medical educational grant from*

**Merck & Co., Inc.**

*All CME sessions have been planned and implemented in accordance with the Accreditation Criteria of the Accreditation Council for Continuing Medical Education (ACCME®) and are free of the control of ineligible companies (formerly commercial interests).*

## BEHAVIORAL • CLINICAL • TRANSLATIONAL

## CLINICAL TOPICS IN PULMONARY MEDICINE

**B81 NURSING YEAR IN REVIEW- THE COMPLEXITY OF SURVIVING ICU EXPERIENCE: PATIENTS, CAREGIVERS, AND COMMUNITY MEMBERS**

Assembly on Nursing

2:15 P.M. - 3:45 P.M.

Moscone Center

Room 3020 (West Building, Level 3)

**Target Audience**

Researchers, nurses, physicians, allied health professionals, junior physicians, patients &amp; family members

**Objectives**

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

- identify system-related barriers contributing to poor post-ICU symptoms experienced by ICU survivors
- identify factors leading to suboptimal psychological distress outcomes experienced by bereaved or post-ICU family members
- describe the available resources in the community that support ICU survivors and family members

This Nursing Year In Review Session will provide a forum to disseminate and discuss the complex dynamics and consequences of surviving ICU experiences from patients, caregivers, and post-ICU community providers. Descriptions of Post-ICU symptoms by patients (PICS) and family members (PICS-F) will be summarized along with current practice guidelines for Post-ICU care available within the community to support patients and their families. We will summarize the evidence-based strategies for the successful implementation of Post-ICU Community Support to improve PICS and PICS-F and health-related quality of life.

**2:15 Introduction to Session**

**2:20 Current State of ICU Care and Post-ICU Care**

**2:40 Post-ICU Symptoms: Patients Who Braved the Storm**

**3:00 I-See-You: Symptoms in Bereaved Survivors Who Lost a Loved One in the ICU**

**3:20 Strategies for Successful Implementation of Post-ICU Community Support**

**3:40 Summary of the Session**

## CLINICAL

## CRITICAL CARE TRACK

**B82 MECHANICAL VENTILATION OF THE FUTURE: NEW FOUNDATIONS FOR VENTILATOR STRATEGIES**

Assembly on Critical Care

2:15 P.M. - 3:45 P.M.

Moscone Center

Room 3014/3016/3018 (West Building, Level 3)

**Target Audience**

Practicing clinicians in critical care, clinical researchers

**Objectives**

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

- understand new parameters that can guide ventilator management, including driving pressure and measures of patient effort
- discuss new strategies that may define future ventilator management
- specify key features of future clinical trials to help address the remaining gaps in knowledge

Prior advances in mechanical ventilation have been limited to improving supportive care practices, preventing intubation with noninvasive strategies, and avoiding excessive tidal volumes. This symposium will provide a framework to reimagine the future of mechanical ventilation in which ventilator strategies are guided by optimizing driving pressure, patient effort, diaphragm protection, and dyssynchrony in all types of respiratory failure.

**2:15 A Patient's Perspective****2:25 We Should Worry About Patient Self-Inflicted Lung Injury (P-SILI) in Non-Intubated Patients****2:38 We Should Titrate to Driving Pressure****2:51 We Should Assess Patient Effort****3:04 We Should Protect the Diaphragm to Protect the Lung****3:17 We Should Study Ventilator Strategies in Patients Without ARDS****3:30 We Should Address Patient-Ventilator Dyssynchrony****3:43 What Does Mechanical Ventilation of the Future Look Like?**

## CLINICAL • TRANSLATIONAL

## CLINICAL TOPICS IN PULMONARY MEDICINE

**B83 PROGRESSIVE PULMONARY FIBROSIS: FIVE YEARS LATER**

Assembly on Clinical Problems

2:15 P.M. - 3:45 P.M.

Moscone Center

Room 3005/3007 (West Building, Level 3)

**Target Audience**

Clinicians, investigators and trainees involved in interstitial lung disease clinical care and research.

**Objectives**

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

- better diagnose PPF
- describe new findings about PPF, including new imaging and molecular biomarkers
- integrate/incorporate new guidelines into current practice

This proposal aims to contextualize the evolution of PPF paradigm starting with the 2019 publication of the INBUILD trial and then discuss current clinical measures of PPF, recently identified limitations of PPF criteria, emerging biomarkers of PPF and critical gaps in knowledge in PPF.

**2:15 The Road from PF-ILD to PPF: How Did We Get Here?****2:25 The Chosen One(s): What Constitutes a Good Measure of PPF?****2:40 Audience Discussion****2:45 Nuance or Nuisance: Does ILD Etiology Matter in PPF?****3:05 Biomarkers of PPF: Where Are We Today?****3:25 PPF: The Next Five Years****3:40 Audience Discussion**

*This session and the International Conference are supported by an independent medical educational grant from Boehringer Ingelheim Pharmaceuticals, Inc.*

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## CLINICAL

## CLINICAL TOPICS IN PULMONARY MEDICINE

**B84 DIAGNOSIS OF COPD: A PRO CON DEBATE**

Assembly on Clinical Problems

2:15 P.M. - 3:45 P.M.

Moscone Center

Room 2009/2011 (West Building, Level 2)

**Target Audience**

Physicians, nurse practitioners, physician assistants, respiratory therapists, researchers

**Objectives**

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

- learn about the impact of using the lower limit of normal versus the fixed 0.70 cutoff for FEV1/FVC, their strengths and limitations, and practical considerations for clinical practice
- appreciate the implications of restricting diagnosis of COPD to spirometric impairment versus expanding diagnosis beyond spirometry to include imaging and symptoms
- gain new knowledge of the definition of Pre-COPD, and its pros and cons

The diagnosis and detection of COPD is the first step in the management of this common disease. There have been a number of recommendations for diagnosis from multiple respiratory societies that are divergent and have created confusion in the field. In this session, key questions about whether to use the fixed FEV1/FVC ratio of 0.70 or the population-based lower limit of normal, whether the diagnosis should extend beyond spirometry, and whether earlier diagnosis should incorporate the concept of pre-COPD, will be debated using the most recent evidence.

**2:15 Pro: COPD Should Be Diagnosed Using the Lower Limit of Normal for Airflow Obstruction****2:29 Con: COPD Should Be Diagnosed Using the Fixed FEV1/FVC Ratio for Airflow Obstruction****2:43 Discussion****2:48 Pro: COPD Should Be Diagnosed on the Basis of Spirometric Airflow Obstruction****3:00 Con: The Diagnosis of COPD Should Extend Beyond Spirometric Airflow Obstruction****3:12 Discussion****3:17 Pro: Pre-COPD Is Real and Will Impact Clinical Practice****3:29 Con: Pre-COPD Is A Premature Concept****3:41 Discussion**

## BASIC • CLINICAL • TRANSLATIONAL

## SCIENTIFIC SYMPOSIUM

**B85 OBSTRUCTIVE AIRWAY AND LUNG DISEASE BEGINS IN THE WOMB**

Assemblies on Respiratory Structure and Function

2:15 P.M. - 3:45 P.M.

Moscone Center

Room 3000/3002/3004 (West Building, Level 3)

**Target Audience**

Pulmonary clinician scientists, population health scientists, environmental epidemiologists, basic and translational scientists.

**Objectives**

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

- increase awareness of the various prenatal influences that are associated with reduced lung function and increased risk of asthma and COPD in later life
- gain perspective of altered lung function trajectories demonstrating obstructive disease having a developmental origin
- learn new findings about the structure, function and inflammation alterations in offspring exposed to prenatal insults

Trajectories of airway remodelling and functional impairment in asthma are consistent with the notion that airway pathology precedes or coincides with the onset of asthma and COPD symptoms and may be present at birth. This symposium focuses on epidemiology, physiology, cellular, and molecular evidence that supports airway and lung pathophysiology as a consequence of a developmental origin that increases susceptibility to asthma and COPD.

**2:15 A Patient's Perspective****2:20 Evidence on the Early Origins of Obstructive Lung Disease****2:37 Intrauterine Growth Restriction on Respiratory Structure-Function****2:54 Maternal Allergen Sensitization Exacerbates Offspring Airway Function through Fetal Programming**



**3:11 The Impact of Early-Life Infections and Allergen Exposures on Airway Dysbiosis, Immunity and Adverse Outcomes**

**3:28 The Maternal Exposome and Child Risks for Chronic Lung Disease**

### CLINICAL • TRANSLATIONAL

### SCIENTIFIC SYMPOSIUM

## **B86 PULMONARY HYPERTENSION: UNRAVELING CELLULAR PHENOTYPE SHIFTS ACROSS THE TIMELINE OF DISEASE PROGRESSION**

**Assemblies on Pulmonary Circulation, Respiratory Cell and Molecular Biology**

**2:15 P.M. - 3:45 P.M.**

**Moscone Center**

**Room 303 (South Building, Level 3)**

### **Target Audience**

Basic scientists, clinical specialists, graduate students, postdocs, trainees, interns, junior faculty, and established faculty

### **Objectives**

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

- understand temporal phenotype shifts in PH: Explore cellular processes in endothelial, smooth muscle and pericytes. Investigate molecular changes in vascular remodeling and disease severity implications
- explore Emerging Therapeutic Strategies: Discuss recent advancements in therapeutic approaches targeting specific cellular pathways implicated in pulmonary hypertension
- foster collaboration: Facilitate interdisciplinary discussions between basic scientists and clinicians to enhance understanding of cellular dynamics in PH. Identify opportunities for developing personalized therapies

Pulmonary hypertension (PH) is a complex and multifactorial disease characterized by increased blood pressure in the pulmonary arteries, leading to right heart failure and death if untreated. The cellular mechanisms underlying PH involve significant phenotypic changes and plasticity among various cell types, including endothelial cells, smooth muscle cells, pericytes and fibroblasts. The factors leading to a cellular phenotype shift is still very obscure. This Session aims to bring together leading researchers and clinicians to discuss the latest advancements in understanding cell plasticity, de-differentiation, and phenotypic

shifts in the context of PH. The ultimate goal is to foster collaboration and spark innovative approaches for therapeutic intervention.

**2:15 Epigenetic Shapeshifters: How Genes Dance to the Tune of Pulmonary Hypertension**

**2:30 Vascular Dialogues: Endothelial-Pericyte Interactions in the Pathogenesis of PAH**

**2:45 Capillary Chameleons: Exploring Phenotypic Shifts in Capillary Endothelial Cells in Pulmonary Arterial Hypertension**

**3:00 Signaling Symphony: Extracellular Vesicles and the Molecular Ballet of Pulmonary Hypertension**

**3:15 Temporal Trajectories: Tracking Endothelial Cell Plasticity Across the Course of Pulmonary Hypertension**

**3:30 A Gut Feeling: The Role of the Microbiome in Pulmonary Arterial Hypertension Pathogenesis**

*This session and the International Conference are supported by an independent medical educational grant from  
**Merck & Co., Inc.***

*All CME sessions have been planned and implemented in accordance with the Accreditation Criteria of the Accreditation Council for Continuing Medical Education (ACCME®) and are free of the control of ineligible companies (formerly commercial interests).*

### CLINICAL • TRANSLATIONAL

### SCIENTIFIC SYMPOSIUM

## **B87 HOT TOPICS IN CHILDHOOD ASTHMA: RISK FACTORS, MANAGEMENT, AND REMISSION**

**Assemblies on Pediatrics, Allergy, Immunology and Inflammation, Clinical Problems**

**2:15 P.M. - 3:45 P.M.**

**Moscone Center**

**Room 205-206 (South Building, Level 2)**

### **Target Audience**

This session will appeal to pediatric pulmonologists, pediatric allergists, physicians-in-training, advanced practice providers, nurses, and respiratory therapists who care for children with asthma, as well as researchers in this field.

### **Objectives**

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

- describe the role of inhaled corticosteroids combined with short- or long-acting bronchodilators in the management of asthma in children
- discuss the pathophysiology and treatment strategies for children with type-2 low asthma phenotypes
- understand how to incorporate biologic therapy into the care of children with severe asthma and provide appropriate counseling on disease remission for severe childhood asthma

Asthma is the most common chronic lung disease in childhood. This condition contributes to significant morbidity and mortality in the pediatric population. Guided by a panel of recognized experts, we will examine current controversies in the field of childhood asthma, including the impact of RSV in the onset of this disease, the use of ICS/SABA vs. ICS/LABA as treatment strategies, and alternatives to manage type-2 low asthma phenotypes. Furthermore, we will discuss the discontinuation of controller therapies after initiation of a biologic and the possibility of achieving disease remission using biologics in children with severe asthma.

#### 2:15 Initial Remarks

#### 2:20 RSV Infection in Infancy and Asthma in Childhood: Is the Association Causal?

#### 2:37 When Albuterol Isn't Good Enough Anymore: ICS/SABA vs. ICS/LABA for the Management of Childhood Asthma

#### 2:54 Treatment Strategies for Type-2 Low Asthma Phenotypes in Children

#### 3:11 I Started a Biologic - Now Can I Stop Everything Else?

#### 3:28 Remission of Severe Childhood Asthma: Can It Be Achieved?

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

### B88 NOVEL MANAGEMENT STRATEGIES IN BRONCHIECTASIS

Assemblies on Pulmonary Infections and Tuberculosis, Clinical Problems

2:15 P.M. - 3:45 P.M.

Moscone Center

Room 24, Hall E (North Building, Exhibition Level)

#### Target Audience

Pulmonary attendings, fellows, nurse practitioners and physician assistants, medicine attendings and residents, respiratory therapists, nurses

#### Objectives

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

- describe new concepts in the management of bronchiectasis, including inflammation, exacerbations, endotyping, and the microbiome
- apply a comprehensive update in the management of bronchiectasis for 2025
- describe new findings from clinical trials and bronchiectasis registry databases that have recently been published

This interactive session will highlight new concepts in the management of bronchiectasis. The session will include an up to date summary of the management of bronchiectasis in 2025. This will also highlight the different clinical phenotype in the public hospital sector, and need to study this population further. Inflammation in bronchiectasis, novel concepts including endotypes and phenotypes, and the microbiome will be discussed. Finally, an update on recent and upcoming clinical trials in bronchiectasis will be presented.

#### 2:15 Bronchiectasis Management in 2025

#### 2:30 Inflammation and Exacerbations in Bronchiectasis

#### 2:45 Endotypes and Phenotypes

#### 3:00 Microbiome in Bronchiectasis

#### 3:15 Clinical Trials Update

#### 3:30 Panel Discussion

BEHAVIORAL • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

### B89 THERAPEUTIC INNOVATIONS FOR WEIGHT MANAGEMENT IN OSA: FROM METABOLIC MODULATION TO WEIGHT LOSS

Assembly on Sleep and Respiratory Neurobiology

2:15 P.M. - 3:45 P.M.

Moscone Center

Room 209-210 (South Building, Level 2)

#### Target Audience

Pulmonary and Sleep Medicine Health Care providers  
Pulmonary and Sleep Medicine Trainees/fellows Researchers

interested in the interactions between Sleep Apnea and Obesity Members of the Sleep and Clinical Problems and BSHSR Assemblies

### Objectives

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

- describe the complex interplay between obesity and body fat distribution patterns in OSA, as well as the sex and age-dependent impact of obesity on OSA pathogenesis
- understand the role of emerging obesity pharmacotherapies and recent trial results, as well as anatomic and metabolic changes induced by GLP-1 drugs and SGLT-2 inhibitors in the management of obesity in OSA
- improve healthcare delivery in patients with OSA and comorbid obesity with a better understanding of obesity management using emerging weight loss pharmacotherapy

The relationship between obesity and OSA is well-established, with obesity driving much of its pathogenesis and exacerbating cardiometabolic comorbidities in OSA. Yet, many sleep providers lack confidence in effectively tackling obesity among OSA patients. Advances in weight-loss medications such as GLP-1 drugs and SGLT-2 inhibitors offer promising avenues for addressing this challenge. Our session will delve into the latest research on pharmacotherapeutics for metabolic modulation and obesity management in OSA, reviewing the breadth of physiology linking these two conditions. Join us to explore how these novel therapeutics could revolutionize obesity management in OSA, offering insights into implications for patient care.

- 2:15 OSA, Obesity, and Body Fat Distribution: A Role for Emerging Pharmacotherapies**
- 2:25 Highlights from the Surmount OSA Trial**
- 2:40 Pharyngeal Changes Associated with Weight Loss from GLP-1 Agonists**
- 2:55 Treating Sleep Apnea with Metabolic Modulation Using Sodium Glucose 2 Transport Inhibitors**
- 3:10 How Does Obesity Contribute to OSA Pathogenesis? Age and Sex-Specific Considerations**
- 3:25 Should Obesity Be Considered a Chronic Disease with Life-Long Pharmacotherapy?**

## BASIC • CLINICAL • TRANSLATIONAL

### SCIENTIFIC SYMPOSIUM

## **B90 UNSEEN YET CRITICAL: SMALL AIRWAYS IN CHRONIC AIRWAY DISEASES**

**Assemblies on Respiratory Cell and Molecular Biology, Allergy, Immunology and Inflammation, Clinical Problems, Respiratory Structure and Function**

**2:15 P.M. - 3:45 P.M.**

**Moscone Center**

**Room 201-202 (South Building, Level 2)**

### Target Audience

Basic and translational scientists and clinicians

### Objectives

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

- provide an update on recent research emphasizing the growing importance of small airway diseases in patients with asthma and chronic obstructive pulmonary disease (COPD)
- understand how small airways have been assessed in clinical studies and how their changes relate to patients' outcomes
- understand what are the newest strategies to target small airways in chronic airway diseases

The small airway wall structure can be altered very early in life, and can indeed precede airway wall inflammation and thus may present as a primary event in asthmatic lungs. Understanding how early life, or even prenatal, risk factor exposures may be mechanistically linked to small airway structural and functional changes later in life will be both highly interesting from a scientific perspective as well as highly important for understanding how bronchial asthma evolves into fixed airflow limitation and early COPD.

- 2:15 Small Airways and Origins of Airway Disease: Pathobiological Considerations**
- 2:30 Repatterning of the Small Airways: A New Pathological Feature of Airway Diseases?**
- 2:45 Single Cell Atlas of the Small Airways in the Obstructed Patient: What Have We Learned So Far**
- 3:00 Small Airway Microbiome: Association with Airway Disease Progression**
- 3:15 Small Airways and Mucus Plugging: A New Biomarker of Airway Disease?**

3:30 Small Airway Across the Lifespan: How Asthma Morphes into COPD

### BEHAVIORAL • CLINICAL

#### PUBLIC ADVISORY ROUNDTABLE SYMPOSIUM

## B91 BREATH OF COLLABORATION: ACCELERATING DIVERSE PATIENT ACCRUAL IN RESPIRATORY TRIALS

ATS Public Advisory Roundtable

2:15 P.M. - 3:45 P.M.

Moscone Center

Room 2010/2012 (West Building, Level 2)

### Target Audience

Individuals involved in clinical, translational, and basic science research trials. All who are involved in patient recruitment and interested in increasing the success of the accrual of members from underrepresented communities in clinical trials.

### Objectives

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

- understand best practices for recruiting diverse populations in pulmonary and critical care clinical trials
- identify ways organizations can collaborate to improve representation and engagement with underrepresented communities in clinical research
- discuss and define metrics for measuring success in achieving greater diversity in clinical trials

This session will focus on the efforts of funding organizations and industry to increase diverse participation in clinical trials. It will discuss ways that collaboration can overcome the challenges of low enrollment and bring to light effective initiatives to increase the involvement of diverse populations and reduce barriers to participation. This symposium aims to explore ways these groups can leverage their collective resources, expertise, and influence and explore a collaborative approach that can lead to more efficient resource use, broader reach, and, ultimately, more representative and impactful clinical research.

2:15 Welcome Remarks

2:20 PAR Award Presentations

2:30 Patient Speaker

2:55 PCORI Experience in Ensuring Representativeness in Clinical Trials

3:10 Advancing Diverse and Inclusive Clinical Research: How Industry Sponsors Are Evolving Clinical Trials to Empower All People to Participate (OR)

3:25 Panel Discussion

### COMMITTEE-SPONSORED

## B92 AJRCCM, NEJM, JAMA DISCUSSIONS ON THE EDGE: REPORTS OF RECENTLY PUBLISHED CRITICAL CARE RESEARCH

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 25, Hall E (North Building, Exhibition Level)

This session will provide a forum for attendees to interact with the authors and editors about papers published in the American Journal of Respiratory and Critical Care Medicine (AJRCCM), the New England Journal of Medicine (NEJM), and the Journal of the American Medical Association (JAMA). 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.

*Presentations embargoed until May 18 and 19, 2025*

### BEHAVIORAL • CLINICAL

#### MINI SYMPOSIUM

## B93 COPD EPIDEMIOLOGY AND MANAGEMENT

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 215-216 (South Building, Level 2)

2:15 Preliminary Results from the Revisits Study: A Multi-Site Randomized Study of COPD Transitions of Care Programs

2:27 Proactive Motivational Text Messaging for Patients With COPD Who Smoke: A Randomized Pilot



- 2:39 Factors Associated with Guideline-Concordant Maintenance Inhaled Medication for COPD: A Population-Based, Longitudinal Cohort Study
- 2:51 Clinical Outcomes After Switching From Metered-Dose Inhaler Budesonide-Formoterol to Dry-Powder Inhaler Fluticasone-Salmeterol in a Nationwide Veteran Cohort
- 3:03 Association of Guideline Alignment and Medication Concordance With Clinical Outcomes in COPD
- 3:15 The Revisits Study: Rapid Qualitative Analysis of Multi-group Participant Data for COPD Transition of Care Bundle Implementation Planning Across 21 U.S. Hospitals
- 3:27 Effect of Adherence to Inhaled Pharmacologic Therapy on Chronic Obstructive Pulmonary Disease (COPD) Exacerbations and Death Among U.S. Veterans
- 3:39 The Effect of a Post-bronchodilator Forced Expiratory Volume in 1 Second to Forced Vital Capacity Ratio 0.7 on Chronic Obstructive Pulmonary Disease Diagnosis and Treatment: A Regression Discontinuity Design
- 3:51 Risks Factors for COPD Among Never Smokers in Ontario, Canada
- 4:03 A Single Center Retrospective Study of Remote Biometric Monitoring in the Management of Chronic Obstructive Pulmonary Disease

**BASIC • CLINICAL • TRANSLATIONAL****MINI SYMPOSIUM****B94 UNRAVELING THE CODE OF ENVIRONMENTAL EXPOSURE: RESPONSE WITH EPIGENETICS AND OMICS**

2:15 p.m. - 4:15 p.m. Moscone Center

Room 2001/2003 (West Building, Level 2)

- 2:15 Nasal Microbiome-wide Association Study of Environmental Exposures and Respiratory Health
- 2:27 Distinct Air Pollutant Exposures in Patients With Bronchiectasis Are Associated With Differences in Airway Microbiome

- 2:39 Proteome-wide Mendelian Randomisation Analyses to Identify Potential Therapeutic Targets for Lung Function and Respiratory Disease
- 2:51 Differences in Epithelial Gene Expression Profiles in Asthma Patients Living in Industrialized Cities With High PM<sub>2.5</sub> and SO<sub>2</sub> Exposures
- 3:03 Circulating Proteomic Signatures of Pulmonary Function: Multi-ancestry Meta-analysis
- 3:15 Impact of Short-term E-cigarette Cessation on the Nasal Microbiome in Young Adult Vapers
- 3:27 Untargeted Proteomics Analysis of Endotoxin-related Lung Function Decline in Textile Mill Workers
- 3:39 Integrated DNA-methylome and Transcriptome Signatures Identify Disrupted Developmental Pathways by Prenatal Smoke Exposure
- 3:51 Effects of Immunomodulatory Fatty Acids on Lung Function Are Mediated Through Smoking-related Differences in DNA Methylation

**BASIC • TRANSLATIONAL****MINI SYMPOSIUM****B95 OMICS CONTINUE TO IDENTIFY MECHANISMS UNDERLYING CHILDHOOD LUNG DISEASES**

2:15 p.m. - 4:15 p.m. Moscone Center

Room 2014/2016 (West Building, Level 2)

- 2:15 Placental Multi-omic Signatures and Asthma Development Among Children Born Extremely Preterm
- 2:27 Intraamniotic sFlt-1 Induces Transcriptomic Changes in the Neonatal Rat Lung in a Preeclampsia Model of Bronchopulmonary Dysplasia
- 2:39 Investigating Bronchopulmonary Dysplasia Through Extracellular Vesicles' Omics Approach
- 2:51 DNA Methylation in Airway Epithelial Cells Is Altered Following RV16 Infection and IL-13 Stimulation
- 3:03 A Genome-wide Study of Nasal Epithelial DNA Methylation and Asthma Endotypes

- 3:15 Upper and Lower Respiratory Microbiome-Transcriptome Concordance in Pediatric Hematopoietic Stem Cell Transplant Patients
- 3:27 GWAS of Protein Biomarkers in Pediatric ARDS
- 3:39 Ethnic Differences in the Respiratory Microbiome and Transcriptome in Children With CF and CRMS
- 3:51 Nasal Transcriptomics Associate With Sinonasal Disease Response to Trikafta
- 4:30 Featured Speaker

## CLINICAL • TRANSLATIONAL

## MINI SYMPOSIUM

### B96 CROSSING THE GOLDEN GATE BRIDGE: CLINICAL TRIALS, TARGETED THERAPIES AND NOVEL APPROACHES IN PULMONARY ARTERIAL HYPERTENSION

2:15 p.m. - 4:15 p.m. Moscone Center

Room 3001/3003 (West Building, Level 3)

- 2:15 Overall Survival of Patients on Sotatercept: An Analysis of STELLAR and SOTERIA Trials
- 2:27 Network Propagation Analysis to Uncover the Mechanisms of Antidiabetics as Therapeutic Candidates in Pulmonary Arterial Hypertension
- 2:39 Evaluating Antidiabetic Modulatory Effects on Drug-induced Pulmonary Arterial Hypertension Using Real-world Data
- 2:51 ATMOS, A Proof-of-Concept Trial of Inhaled Mosliciguat, A First-in-Class Soluble Guanylate Cyclase Activator - A Novel Approach to Address Unmet Needs in PH
- 3:03 Remote Monitoring of Physical Activity in Randomized Clinical Trial of Anastrozole in PAH - The PHANTOM Study
- 3:15 Ralinepag Treatment to Achieve and Maintain REVEAL Lite 2 Low Risk Status: Interim Results of ADVANCE EXTENSION
- 3:27 Long-Term Safety and Exposure-Adjusted Incidence Rates of Adverse Events From Pooled Sotatercept Studies (PULSAR, SPECTRA, STELLAR, and SOTERIA)

- 3:39 Long-term Treatment of Single-tablet Combination of Macitentan and Tadalafil in Pulmonary Arterial Hypertension (PAH): Final Results From the A DUE Open-label Extension
- 3:51 Moderated Discussion

## CLINICAL

## MINI SYMPOSIUM

### B97 IT'S A VIRUS PARTY! FLU, PARAINFLUENZA, RSV, COVID, AND A LITTLE HIV

2:15 p.m. - 4:15 p.m. Moscone Center

Room 3006/3008 (West Building, Level 3)

- 2:15 Myeloid Cell-specific Ablation of Caspase 8 Improves Outcomes in Influenza A-induced Acute Respiratory Distress Syndrome
- 2:27 Real-time Imaging Shows Innate Immune Cell Function Is Intact in Live Alveoli of Influenza-Infected Lungs
- 2:39 Inhaled Palmitoyl-conjugated Antiviral siRNA Reduces Human Parainfluenza Viral Infection In Vivo
- 2:51 The Estimated Impact of Respiratory Syncytial Virus Lower Respiratory Tract Disease and Prevention on Chronic Lung Disease in Children in the United States
- 3:03 SNS812, a Broad-Spectrum Antiviral siRNA, Demonstrates Safety and Clinical Efficacy in Treating COVID-19 in Phase I and II Trial
- 3:15 Host-bacterial Multi-omics Approach to Ventilator Associated Pneumonia in COVID-19 Patients
- 3:27 Post-acute Sequelae SARS-CoV-2 (PASC) Patients With Elevated Serum IL-1ra Experience Higher Odds of Fatigue, Muscle Aches, and Dyspnea on Exertion Within 1 Year of Acute COVID-19 Infection: A Cross Sectional-study
- 3:39 Outcomes in Persistent COVID-19 Pneumonia in Patients Receiving Anti-CD20 Therapy: A Potential Role for IVIG Therapy

- 3:51 SARS-CoV-2 Spike Protein, SARS-CoV-2 Nucleocapsid Protein, and HIV GP120 Protein From Human BAL Are Contained Within Extracellular Vesicles and as Free Protein
- 4:03 HIV and Chronic Lower Respiratory Diseases Mortality Trend From 1999 to 2020

**BEHAVIORAL • CLINICAL • TRANSLATIONAL****MINI SYMPOSIUM****B98 CELLULAR INTERACTIONS AND SIGNALING NETWORKS IN PULMONARY FIBROSIS**

2:15 p.m. - 4:15 p.m. Moscone Center

Room 2018/2020 (West Building, Level 2)

- 2:15 Matricellular mRNA Delivery to Promote Lung Repair
- 2:27 Characterizing the Antifibrotic Activity of Bexotegast on Distinct Fibroblast Populations in PCLS From Multiple ILD Subtypes
- 2:39 Injury-induced Inflammatory Fibroblasts Can Revert to Normal Alveolar Fibroblasts, but the Fibrotic Fibroblast State Is Irreversible
- 2:51 The Role of Fibroblast Proliferation in Two In Vivo Models of Lung Fibrosis and Precision-Cut Human Lung Slices
- 3:03 The Interplay of Epithelial Molecular Clock and Cellular Senescence in Lung Development
- 3:15 Coordination of Alanine Synthesis and Uptake Contributes to Myofibroblast Differentiation in Pulmonary Fibrosis
- 3:27 Releasing the Brakes in IPF: Inflammatory Fibroblasts Alter the Alveolar Niche to Promote Epithelial Expansion
- 3:39 The GADD34 Inhibitor Sephin1 Promotes Airway Repair and Prevents Chemical-induced Bronchiolitis Obliterans in Rats Through the Integrated Stress Response
- 3:51 Receptor-ligand Interactions Between Fibroblasts and Regulatory T Cells Drive Pulmonary Fibrosis
- 4:03 Going Sonic: Hedgehog Signaling Amplifies Fibroblast-Macrophage Dynamics in the IPF Lung

**BEHAVIORAL • CLINICAL • TRANSLATIONAL****MINI SYMPOSIUM****B99 IDENTIFYING SIGNATURES OF DYSFUNCTION IN COPD**

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 2005/2007 (West Building, Level 2)

- 2:15 Association of Small Airway Disease and Progression to COPD
- 2:27 Association of “Emptying Emphysema” With Clinical and Radiographic Features in People With Cigarette Smoking History
- 2:39 Small Airways or Big Lungs? Investigating the Structural Components of Dysanapsis and Their Associations With Obstructive Lung Physiology at Rest and During Exercise
- 2:51 Association of a Novel Index of Early-life Growth Conditions With Chronic Obstructive Pulmonary Disease Phenotype and Prognosis
- 3:03 Unsupervised Machine-learned Discovery of Quantitative Airway Tree Subtypes and Their Association With Chronic Obstructive Pulmonary Disease Endpoints: The Multi-Ethnic Study of Atherosclerosis Lung Study
- 3:15 Association of Contrast Enhanced Dual Energy CT-derived Pulmonary Arterial Tree-to-Lung Ratio (ArtLR) With COPD
- 3:27 Relative Contribution of Pulmonary Vascular Pruning and Emphysema to Phenotype and Clinical Course in Patients With COPD
- 3:39 Proteomics of CT Emphysema Subtypes in the General Population. The Multi-Ethnic Study of Atherosclerosis (MESA) Lung Study
- 3:51 Delivery of Hepatocyte Growth Factor Messenger RNA by Lipid Nanoparticles Promotes Lung Tissue Regeneration and Repair in Emphysema
- 4:03 Exploring the Impact of Inflammation on Gas Exchange Efficiency in Cannabis-smoking Individuals Using <sup>129</sup>XeMRI

## CLINICAL • TRANSLATIONAL

## MINI SYMPOSIUM

### B100 REVOLUTIONIZING NODULE MANAGEMENT AND LUNG CANCER DIAGNOSIS: FROM PREDICTIVE MODELS TO ADVANCED INTERVENTIONS

2:15 p.m. - 4:15 p.m. Moscone Center

Room 211-212 (South Building, Level 2)

- |      |  |
|------|--|
| 2:15 | Validation of Sybil Deep Learning Lung Cancer Risk Prediction Model in Asian High- and Low-risk Individuals  |
| 2:27 | Are Pulmonologists Better Than Validated Prediction Models for Pulmonary Nodules Referred for Biopsy: A Secondary Analysis of the Reliant Randomized Controlled Trial                    |
| 2:39 | Establishing Lung Cancer Risk and Optimizing Incidental Pulmonary Nodule Management  |
| 2:51 | Theoretical Clinical Utility of Advanced Practice Provider Use of an Artificial Intelligence Radiomics-Based Tool for Pulmonary Nodule Evaluation and Management                         |
| 3:03 | Cancer Outcomes in the Watch the Spot Trial: A Pragmatic Clinical Trial of Less Compared With More Intensive Strategies for Active Surveillance of Patients With Small Pulmonary Nodules |
| 3:15 | Long-read Sequencing of Cell-free DNA From Bronchoalveolar Lavage Fluid Reveals Its Fragmentation Pattern, Methylation Landscape, and Mutational Profile in Lung Cancer                  |
| 3:27 | Robotic Versus Electromagnetic Navigational Bronchoscopy for Pulmonary Lesion Assessment. Results From the RELIANT Randomized Trial  |
| 3:39 | Multimodal Integration to Identify the Invasive Status of Lung Adenocarcinoma Intraoperatively   |
| 3:51 | Bronchoscopic Microwave Ablation of Peripheral Lung Cancer: Initial Experience of a Treat and Resect Study   |
| 4:03 | Ultrasonic Elastography-Guided Versus Traditional Thoracic Ultrasound-Guided Pleural Biopsy for the Diagnosis of Pleural Effusion: A Multicentre Randomized Trial                        |

## CLINICAL • TRANSLATIONAL

## POSTER DISCUSSION SESSION

### B101 FIXING BARRIERS: UNLOCKING TREATMENT MODALITIES IN INFLAMMATORY LUNG DISEASES

2:15 p.m. - 4:15 p.m. Moscone Center

Room 3022/3024 (West Building, Level 3)

- |                |   |
|----------------|---|
| Poster Viewing | 2:15-3:00   |
| Discussion     | 3:00-4:15   |
| 1001           | Performance of the Pediatric Asthma Impairment and Risk Questionnaire (Peds-AIRQ) in Assessing Control Relative to the Pediatric Quality of Life Inventory (PedsQL) and Patient Impression of Control                 |
| 1002           | Efficacy of As-needed Albuterol-Budesonide Versus Albuterol on Systemic Corticosteroid Exposure in Participants With Mild Asthma: BATURA Prespecified Analysis  |
| 1003           | Improvements in Asthma Exacerbations, Lung Function, Asthma Control and Health-related Quality of Life After Tezepelumab Initiation in Patients With Severe Asthma: Interim Results From the US Phase 4 PASSAGE Study |
| 1004           | Management of Vasculitis-associated Alveolar Hemorrhage: A Bayesian Reanalysis of PEXIVAS   |
| 1005           | Allergic Sensitization in Asthma and/or COPD in the NOVELTY Study   |
| 1006           | Longitudinal Disease Trajectories in Remission and Refractory Asthma From REGAIN, A Real-world Multi-center Study   |
| 1007           | Sustained Efficacy of Depemokimab Over Time in Type 2 Asthma Characterized by Blood Eosinophils: Pooled Data From the Phase III SWIFT-1/2 Studies   |
| 1008           | Two-year Efficacy and Safety of Benralizumab in the Treatment of Eosinophilic Granulomatosis With Polyangiitis  |
| 1009           | Outcomes of Biologics Discontinuation in Severe Asthma  |



- 1010 Impact of Fluticasone Furoate/Umeclidinium/Vilanterol Inhaled Therapy on a Clinical Remission Endpoint in Asthma for Patients with Type 2 Inflammation: CAPTAIN Post Hoc Analysis
- 1011 Impact of Simultaneous Step-Up to High-Dose Fluticasone Furoate and Addition of Umeclidinium on a Clinical Remission Endpoint in Asthma: CAPTAIN Post Hoc Analysis
- 1012 Mepolizumab in patients with COPD: Results from the MATINEE Phase III Randomized Controlled Trial
- 1013 Type-2 Inflammation and Lung Function Changes in the Placebo Arms of Asthma Clinical Trials: Findings From the ORACLE2 Meta-analysis
- 1015 Complementary Role of Fractional Exhaled Nitric Oxide and Blood Eosinophil Counts in Asthma Prevalence and Diagnosis: Sex-specific Evidence From NHANES
- 1015 Investigation of the Relationship Between Blood Eosinophil Count and Small Airway Dysfunction Identifies Potential Asthma Endotypes in the ATLANTIS Study
- 1016 Biologics Disrupt the Association Between Cytokines and Clinical/Lifestyle Factors in Severe Asthma Patients
- 1017 Mepolizumab Is Efficacious in Patients With Chronic Obstructive Pulmonary Disease Regardless of Airflow Obstruction Level: Post Hoc Analysis of the MATINEE Phase III Randomized Controlled Trial
- 1018 Dupilumab Efficacy on Chronic Obstructive Pulmonary Disease (COPD) Exacerbations and Lung Function by Cough and Sputum Score: Pooled Results From Phase 3 BOREAS and NOTUS
- 1019 Clinical Phenotyping of Asthma in the ATLANTIS Cohort: The Role of Sputum Eosinophils in Patients With Low Blood Eosinophils
- 1020 Rapid Improvement in Lung Function Observed With Rademikibart in Patients With Moderate-to-Severe Uncontrolled Asthma
- 1021 Association of a Novel Index of Early-life Growth Conditions With Later-life Asthma Diagnosis
- 1022 Asthma, Age at Asthma Diagnosis, and Onset of Non-respiratory Comorbidities

- 1023 Reduction In Copd Exacerbations Following Initiation Of Benralizumab Among Patients With Asthma And Concomitant Copd: Results From The Zephyr-5 Study
- 1024 Impact of Dupilumab on Type 2 Inflammatory Biomarkers in Asthma by Clinical Remission Status

## BEHAVIORAL • CLINICAL

### RAPID POSTER DISCUSSION SESSIONS

#### B102 MEDICAL EDUCATION IN PULMONARY AND CRITICAL CARE MEDICINE

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 2022/2024 (West Building, Level 2)

Viewing/Abstract Summaries 2:15-3:00

Discussion 3:00-4:15

- 801 Same Struggles, Different Stages? A Descriptive Look at Domains Needing Remediation for Residents and Fellows
- 802 Addressing the Gap: Establishing A Career Development Program for Women at an Academic Medical Center
- 803 Trends in Gender Representation Among Internal Medicine and Pulmonary-Critical Care Fellowships: A Decade of Progress and Persistent Gaps
- 804 Examining Gender Disparities in Pulmonary and Critical Care Medicine Fellowships: A Study From 2012-2013 to 2022-2023
- 805 From Exposure to Expertise: A Tailored Deployment-Related Respiratory Disease Curriculum for Primary Care Providers
- 806 Trends in Racial and Ethnic Diversity of Pulmonary and Critical Medicine Fellows Before and After COVID-19 Pandemic in the U.S.
- 807 Fellow Perspectives on Interprofessional Teaching in the ICU: A Multicenter Qualitative Study
- 808 Navigating the Difficult Airway: A Multispecialty Training for Pulmonary and Critical Care Fellows
- 809 The Potential of Interprofessional Team Coaching to Promote Human-Centered ICU Environments

- 810 A Quality Improvement Project: The Impact of an Educational Intervention on the Prescription of Target Oxygen Saturations in Glasgow Royal Infirmary Respiratory Wards
- 811 Association of Interventional Pulmonology Fellowship Exposure on Procedural Training for Pulmonary and Critical Care Fellows and Post-graduate Procedural Practice
- 812 Bridging the Health Literacy Gap: The Systematic Development of Patient-centered Materials to Improve Engagement in Pulmonary Function Testing
- 813 Comparable Performance on Waveform Analysis Assessment Between Critical Care Physician Trainees and Advanced Practice Provider (APP) Trainees After a Mechanical Ventilation Educational Initiative
- 814 Enhancing Resident Empathy and Communication Skills Through Patient-Centered Conferences: An Innovative Approach to Medical Education
- 905 Adenovirus Induced Cerebral Edema in an Immunocompetent Adult
- 906 CASPR-mediated Encephalitis in the ICU
- 907 Lecanemab Associated Status Epilepticus and Psychosis With Serious ARIA-E (Amyloid Related Imaging Abnormalities - Edema): Case Report
- 908 Mitochondrial Encephalomyopathy, Lactic Acidosis, and Stroke-Like Episodes Syndrome Complicated by Catabolic Crisis
- 909 Pupillary Hippus as a Manifestation of Refractory Nonconvulsive Status Epilepticus (NCSE): A Case Report
- 910 The Intoxicated Patient Who Cried Wolf: A Concealed Case of Obstructive Hydrocephalus From Cryptococcal Meningoencephalitis in Alcoholic Cirrhosis
- 911 Hypoglycemic Coma: How Long to Wait Before Considering the Withdrawal of Care
- 912 Immune Checkpoint Inhibitor-Induced Encephalitis: Hu Done It?

## CLINICAL

## POSTER DISCUSSION SESSION

### B103 DISCUSSING NEUROLOGIC AND ENCEPHALITIS CASES IN THE ICU

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 3009/3011 (West Building, Level 3)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 901 Acute Encephalopathy: A Tricky Case of Small Cell Lung Cancer Induced Paraneoplastic Limbic Encephalitis
- 902 The Mysterious Ring: Diagnostic Challenges of an Unresolved Ring-enhancing Lesion
- 903 Ischemic Stroke, Infection, or Autoimmune? A Case Report Highlighting the Challenges to Diagnose Mogad "Myelin Oligodendrocyte Glycoprotein Antibody-associated Disease"
- 904 Integrating Technologies: Multimodal Monitoring With NIRS and Electroencephalography for Optimization of Perioperative Management of Intracranial Hemorrhage
- 913 How Atypical! Relapse of Atypical HUS Presented With Altered Mental Status
- 914 Acute Encephalitis and Myocarditis Due to Immune Checkpoint Inhibitor Toxicity
- 915 Brain Death Diagnosis by Central Retinal Vessels Doppler - A Case Report and Method Definition
- 916 Subacute Progressive Ascending Myelopathy: A Rare Case in a Patient With Ankylosing Spondylitis
- 917 From Generalized Anxiety Disorder (GAD) to Gad Antibody Encephalitis: A Rare Case of Refractory Status Epilepticus
- 918 Atraumatic Non-aneurysmal Spinal Subarachnoid Hemorrhage in the Setting of Systemic Lupus Erythematosus
- 919 A Case of Severe Malaria With Cerebral Involvement Manifesting as Encephalopathy and Multiorgan Dysfunction
- 920 A Rare but Devastating Fungal Infection: Meningoencephalitis Secondary to Candida Glabrata
- 921 Swiss Cheese Model: Brain Abscesses Associated With *Listeria Monocytogenes*

- 922 Fulminant Myocarditis and Encephalitis Associated With Human Metapneumovirus in an Immunocompetent Adult: A Case Report
- 923 Using “The Blue” to Treat “The Blues”: Ifosfamide-Induced Encephalopathy Effectively Treated With Methylene Blue
- 924 Medium-chain Acyl-coenzyme A Dehydrogenase Deficiency Manifesting in a Neonate Following Cardiac Arrest
- 925 Intoxicated: Acetone Overdose in the Mysteriously Acidotic Patient

**BASIC • TRANSLATIONAL****POSTER DISCUSSION SESSION**

### **B104 UNMASKING MECHANISMS OF EXPOSURE-RELATED INFLAMMATION AND LUNG DISEASE**

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 3010/3012 (West Building, Level 3)

Poster Viewing

2:15-3:00

Discussion

3:00-4:15

- 501 MerTK Is Cleaved From Alveolar Macrophages Following Exposure to Ozone
- 502 Thymic Stromal Lymphopoietin Contributes to Ozone-Induced Airway Responses via Conventional Type 1 Dendritic Cells
- 503 Assessment of Ozone Induced Ferroptosis in Lung Injury and Inflammation
- 504 The Transcriptomic Response to Ozone Exposure in Primary Human Bronchial Epithelial Cells In Vitro Depends Heavily on Cell Culture Media Choice
- 505 Enhanced Susceptibility to Ultrafine Particles and Ozone Inhalation-induced Pulmonary Inflammation in Obese Mice Is Mediated Through Xanthine Oxidase
- 506 Anti-IL5 Antibody Depletes Eosinophils, Promotes Alveolar Type 2 Cell Proliferation, and Attenuates Krt8+ Transitional Epithelial Cells and Fibrosis in Ozone-Exposed Diabetic Mice
- 507 Secreted Phosphoprotein 1 (SPP1) Drives Lipid Dysregulation in Silicosis

- 508 The Role of Particle Size in Engineered Stone Induced Lung Cell Responses
- 509 Applying Single-Cell Spatial Profiling to Assess Niches in Human Fibrotic Silica Lung
- 510 (Secretin Receptor) SCTR Acts as a Target of Silicosis
- 511 Lung Infection Is Enhanced by Co-exposure to Organic Dust and Alcohol
- 512 METTL3-mediated m6A RNA Methylation Is a Driver of Particulate Matter-mediated Cellular Glycolysis
- 513 Inhalation Risks of Respirable Indoor Dust Exposure From Textiles Ageing
- 514 Real-world Dust With Adsorbed Heavy Metals Induces a Pro-fibrotic Inflammatory Response
- 515 BRD4 Inhibitor Attenuates Chronic Lung Injuries in Cutaneous Lewisite Exposure Mice
- 516 Effective Prevention and Treatment of Peribronchiolar Fibrosis in a Murine Model of Deployment-related Constrictive Bronchiolitis Using Azithromycin
- 517 Effect of Repeated Jet Fuel Exposure on Human Bronchial Epithelial Cells as Measured by VOCs
- 518 Respiratory Health Implications of Thermal Runaway Emission Exposures: An In Vitro Analysis
- 519 Environmental Oxidative Stress Impairs Splenocyte Metabolism in Rats Exposed to Traffic Related Air Pollution
- 520 Sex-Specific Temporal Changes in Systemic and Pulmonary Immune Responses to Traffic-Related Air Pollution Components in a Transgenic Rat Model of Alzheimer's Disease
- 521 Impact of Diesel Exhaust Exposure on Plasma and Bronchial Alveolar Lavage Exposome in Human Participants
- 522 Transcriptomic Response of Airway Epithelium to Diesel Exhaust and Woodsmoke
- 523 Repeated Cadmium Exposure Enhances Lung Injury in Mice
- 524 IL-33 Polarizes CD56bright Natural Killer Cells
- 525 ALI Benzene Exposure Induces Oxidative Stress in the Bronchial Epithelium and Promotes Immune Cell Chemotaxis In Vitro

## CLINICAL • TRANSLATIONAL

## POSTER DISCUSSION SESSION

**B105 PULMONARY FUNCTION TESTING, IMAGING, AND DIAGNOSTIC TOOLS FOR PEDIATRIC PULMONARY DISEASES**

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 213-214 (South Building, Level 2)

Poster Viewing

2:15-3:00

Discussion

3:00-4:15

- 301 A Longitudinal Assessment of Lung Function in a Clinical Cohort of Pediatric Patients With Severe Asthma
- 302 Nitrogen Multiple Breath Washout (N2MBW) as a Marker of Exacerbations and Eosinophilic Inflammation in Children With Asthma
- 303 Feasibility of Performing X-ray Velocimetry Imaging in Children
- 304 Lung Dysfunction After Cardiopulmonary Bypass in Children: An Electrical Impedance Tomography Evaluation
- 305 Lung Function in Pediatric Non-cystic Fibrosis Bronchiectasis Patients Compared to Cystic Fibrosis Patients: A 20-year Retrospective Cohort Study
- 306 Dynamic Airway Computer Tomography Is Diagnostic for Tracheomalacia in Children
- 307 Airway Reactivity in Children: Does Oscillometry Offer an Advantage Over Spirometry?
- 308 Optical Coherence Tomography (OCT) Provides Detailed Information About the Abnormal Pediatric Airway and Improves Airway Assessment - The OCT Air Study
- 309 Intrabreath Oscillometry (IBO) vs. Spectral Oscillometry (SO) in Detecting Respiratory Disease in Patients Undergoing Hematopoietic Stem Cell Transplantation (HSCT)
- 310 Computational Fluid Dynamics Analysis of Tracheal Pressure Difference in Neonates With Tracheoesophageal Fistulas Before and After Surgical Repair

- 311 Quantifying Small Airway Pathology Using Photon Counting Detector Chest Computed Tomography: Initial Observations
- 312 Lung Function Assessment in Very Preterm Children at 5 and 10 Years: A Longitudinal Study Using Interruption Technique, Forced Oscillatory Technique, and Spirometry
- 313 Abnormal Oscillometry in a Multicenter Study of Subjects Following Hematopoietic Stem Cell Transplantation (HSCT) Identified as "Normal" at Enrollment
- 314 Primary Ciliary Dyskinesia Diagnosis Using an Innovative Approach of Transmission Electron Microscopy for Conclusive Confirmation
- 315 Post-operative Monitoring Using Optical Coherence Tomography After Tracheal Surgery for Complete Tracheal Rings - The OCT Air Study
- 316 Comparisons Between Multiple Breath Washout and Standard-of-Care Spirometry in Children Undergoing Allogeneic Hematopoietic Stem Cell Transplant: A Transpire Study
- 317 Longitudinal Analysis of Lung Clearance Index in Children Undergoing Hematopoietic Stem Cell Transplant: A Transpire Study
- 318 Magnetic Resonance-assessed Dysanapsis and Airflow Obstruction in Late Adolescence
- 319 Clearance of Mucus Plugs Drives Functional Improvement in Pediatric CF After Highly-effective CFTR Therapy
- 320 Pulmonary, Airway, and Sleep Features in Myhre Syndrome: A Cohort Study
- 321 Molecular Methods Versus Culture to Detect and Quantify Fungal Communities in Airway Specimens
- 322 From Randomized Clinical Trial to Real World Standard of Care: A Mixed-methods Evaluation of the Implementation of the Recorded Home Oximetry (RHO) Program
- 323 Findings in Chest Images of Children With Systemic Lupus Erythematosus
- 324 Analyzing Respiratory Effort by Diaphragm and Abdominal Muscle Ultrasound and Functional Residual Capacity by Electrical Impedance Tomography to Determine High Flow Nasal Cannula Flow Rate in Infants With Bronchiolitis



325 Exploring the Impact of Dysanapsis in Cystic Fibrosis

## POSTER DISCUSSION SESSION

### B106 PNEUMONIA ACROSS THE SPECTRUM: CLINICAL AND TRANSLATIONAL ADVANCES

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 207-208 (South Building, Level 2)

Poster Viewing

2:15-3:00

Discussion

3:00-4:15

- 201 Establishing a Murine Model of Bronchiolitis Obliterans Following Mycoplasma Pneumoniae Infection and Elucidating Its Underlying Mechanisms
- 202 Pervasive Presence of Detectable Pathogens in the Lung Lower Airway Microbiome Correlates With Ventilator-associated Pneumonia Microbiologic Diagnosis for Species-specific Pathogens
- 203 Machine Learning Identifies Seven Pneumonia Subphenotypes Based on Pulmonary Histopathology
- 204 Clinical Profiles and Outcomes of Empyema in a Tertiary Care Hospital in Mexico Addressing Gaps in Empyema Research From Middle Income Regions
- 205 Comparative Gene Expression Analysis in Influenza Associated Invasive Pulmonary Aspergillosis and Post-influenza Staphylococcal Aureus Pneumonia
- 206 Efficacy of Pneumonia Biofire With Conventional Culture as Gold Standard for Community-acquired Pneumonia in Tertiary Care Centre
- 207 Diagnostic Performance of Coccidioidomycosis PCR Testing in Lung Nodules: A Retrospective Study in Central California
- 208 The Airway Metabolome in Pediatric Patients With Tracheostomies Can Be Used to Distinguish Colonization From Active Infection - A Pilot Study

- 209 Friends or Foes? Meropenem Interactions With Pseudomonas Aeruginosa Phages In Vitro and Ex Vivo Models
- 210 Comparison of a Direct-from-Blood Multiplex PCR to Blood Cultures in Critically Ill Patients: A Prospective Observational Cohort Study
- 211 ECURB on the Road: Validation of a Weighted Linear Regression Pneumonia Risk Stratification Model in a Novel Setting
- 212 Leveraging Large Language Models for Creating Clinical Decision Support for Pneumonia Severity Triage
- 213 Gender, Racial, and Regional Disparities in the Incidence and Mortality of Lung Abscesses
- 214 Nanoparticle-Based Detection of Myeloperoxidase Adhered to Facemasks for the Non-invasive Assessment of Airway Neutrophilic Inflammation in COPD Patients
- 215 Phenotype Analysis of Chronic Bronchial Infection Patients on Nebulized Antibiotic Therapy: A Multicenter Retrospective Cohort Study in Spain (INBREATHING Study)
- 216 Caspase-1 as a Central Regulator of Amyloid Beta Aggregation and Proteostasis Control
- 217 Immunometabolite Itaconate Modifies Pseudomonas Aeruginosa Transcription Factor RpoN Promoting Persistent Infection
- 218 Win Ratio Analysis of Pseudomonas Aeruginosa Hospital-acquired/Ventilator-associated Pneumonia Outcomes Comparing Initial Beta-Lactam Therapies
- 219 Host Pathogen Dynamics in Tracheal Aspirates During Chronic Critical Illness
- 220 Penetration of Antibiotics in Bronchoalveolar Lavage (ABBA): Final Analysis
- 221 Comparison of Outcomes in Patients With Hemodialysis-Associated Pneumonia to Patients With Non-hemodialysis Community-Onset Pneumonia
- 222 To Give or Not to Give Inhaled Antibiotics: Heterogenous Effects of Inhaled Antibiotics in Ventilated Patients in the Intensive Care Unit
- 223 Incidence Trends, Comorbidities, and Predictors of Mortality in Adult Hospitalizations With Lung Abscess in the United States

- 224 Utility of *Pseudomonas Aeruginosa*, Extended-Spectrum Beta-Lactamase Enterobacteriaceae, Methicillin-Resistant *Staphylococcus Aureus* (PES) Score in Predicting Multidrug-Resistant Community-Acquired Pneumonia

**BASIC • CLINICAL • TRANSLATIONAL**

**RAPID POSTER DISCUSSION SESSIONS**

### **B107 WHAT'S NEW IN PULMONARY REHABILITATION ASSESSMENT STRATEGIES?**

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 301-302 (South Building, Level 3)

Viewing/Abstract Summaries 2:15-3:00

Discussion 3:00-4:15

- 401 One-minute Sit-to-Stand Test in Fibrotic Interstitial Lung Disease: Longitudinal Correlation With Six-minute Walk Test and PFT
- 402 Responsiveness of the Short Physical Performance Battery to Pulmonary Rehabilitation in People Living With COPD and Frailty: Secondary Analysis of a Single-centre Cohort Study
- 403 Remote vs. In-person Physical Function Assessment in Chronic Obstructive Pulmonary Disease (COPD)
- 404 The Six Minute Walk Test Is Not a Submaximal Test in Pulmonary Hypertension?
- 405 Deriving an Equation to Predict Peak Power Output From the Six-minute Walk Distance for Pulmonary Hypertension Patients
- 406 Cardiopulmonary Exercise Testing in the Indian Population, A Comparison of the Novel Incremental Ramp Treadmill Protocol With Incremental Ramp Bicycle Ergometry
- 407 Respiratory Muscle Structure and Function and Association With Patient Reported Outcome Measures and Physical Function Post-transplant
- 408 The COPD Exacerbation Recognition Tool (CERT) Can Predict Acute Exacerbations One Day Before Diagnosis - Results From the Pace Study

- 409 Evaluation of Dyspnea With Exercise in Hypermobile Ehlers Danlos Syndrome and Generalized Hypermobility Spectrum Disorder
- 410 Impulse Oscillometry as an Advantageous Alternative to Traditional Spirometry in Monitoring Respiratory Mechanics in Patients with Neuromuscular Disease
- 411 "Help Humans Make the Right Decisions." Patient Perspectives on Artificial Intelligence (AI) Supporting Clinicians in the Interpretation of Spirometry: A Qualitative Study

**BASIC • CLINICAL • TRANSLATIONAL**

**POSTER DISCUSSION SESSION**

### **B108 INNOVATIVE INSIGHTS INTO LUNG INJURY: FROM INFLAMMATION TO BARRIER RESTORATION**

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 2006/2008 (West Building, Level 2)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 701 Granulocyte-macrophage Colony-stimulating Factor Drives Lung Repair After Severe Influenza Virus Pneumonia by Reprogramming Alveolar Epithelial Progenitor Cell States
- 702 Role of Tumor Necrosis Factor Superfamily Member 10 (TNFSF10) in SARS-CoV2-infection-associated Lung Damage
- 703 Biologically Aged Females Present a Distinct Symptom and DNA Methylation Asthma Profile
- 704 Unique Airway Immune Responses and Epithelial Pathobiology Underlie Viral Wheezing Illnesses in Young Children
- 705 S1PR2 Modulates MRSA-driven Lung Injury and Barrier Dysfunction
- 706 The Receptor for Advanced Glycation Endproducts (RAGE) Mediates Bacterial Second Messenger-skewed Allergen and IL-33 Driven Neutrophilic Airway Inflammation in Mice
- 707 TREK-1 Potassium Channels Protect Against Bacterial Pneumonia

- 708 Th17 Priming of Human Bronchial Epithelial Cells Enhances Viral Replication and Interferon Signaling
- 709 Extracellular-vesicles From Bone Marrow Mesenchymal (MSC-EVs) and Adipose (ASC-EVs) Stem-cells Improve Barrier Integrity and Restore Redox Balance in a Lung Epithelial-Endothelial Model
- 710 Sulfenylation of BiP Enhances IRE1 Signaling in Asthma
- 711 Mechanisms of Anti-IL5RaTherapy Restoring Nasal Epithelial Cell Barrier Function in Severe Eosinophilic Asthma
- 712 CARMIL1 Expression Alters Endothelial Cell Shape and Barrier Function
- 713 Spatially Resolved Transcriptomics Identifies Age-related Pathological Niches During Recovery From Viral Pneumonia
- 714 Hic-5 as a Master Regulator of Mechanoresponses in Bronchial Epithelial Cells in Asthma
- 715 Redox Regulation of Platelet-Neutrophil Interactions in Acute Lung Injury From Staphylococcus Aureus Pneumonia
- 716 HIF-1a in Recruited Macrophages Drives Type II Pneumocyte Proliferation After Acute Lung Injury
- 717 Gut Bacterial Lactic Acid Stimulates Lung Epithelial Mitochondria and Exacerbates Acute Lung Injury
- 718 Alveolar Epithelial Derived miR-147b Provides Lung Protection During Lung Injury Through Repression of TICAM2
- 719 Fibroblast Growth Factor 10 (FGF10) Facilitate Alveolar Regeneration by Guiding Hierarchical Differentiation of Alveolar Type 2 (AT2) Cells in a Hypoxia Inducible Factor 1a (HIF1a) Mediated-Switching to Glycolysis Manner
- 720 Clustering Acute Respiratory Distress Syndrome by Sex
- 721 Targeted Deletion of Macrophage Ferritin Heavy Chain Protects From Macrophage Ferroptosis in Acute Respiratory Distress Syndrome
- 722 Endothelial Large Conductance K<sup>+</sup> (BK) Channels Are New Pharmacological Targets Against Bacterial Pneumonia
- 723 Proliferative Monocytes Participated in Acute Lung Injury Induced by Sepsis

- 724 Targeting CLDN1 in IPF: A Pathogenic Driver in Aberrant Epithelium and a Potential Therapeutic Avenue

## CLINICAL • TRANSLATIONAL

## POSTER DISCUSSION SESSION

### B109 THE SLEEPING HEART: OSA-DRIVEN HETEROGENEITY IN BP CONTROL, MACE RISK PREDICTION, AND ACUTE MI MANAGEMENT

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 203-204 (South Building, Level 2)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 101 Characterizing High-risk Respiratory Events for Predicting Cardiovascular Disease and All-cause Mortality in Obstructive Sleep Apnea
- 102 Predicting Fatal Cardiovascular Outcomes: The Role of Sleep Related Variables
- 103 Machine-Learning Derived Relationships Between Sleep Variables and Mortality in Patients With Heart Failure and Cheyne-Stokes Respiration
- 104 Obstructive Sleep Apnea Is Associated With an Increased Risk of Long-Term Cardiovascular Event in Resistant Hypertension: Sarah, a Real-World Data Study
- 105 Nocturnal Hypoxemic Burden Predicts Major Adverse Cardiovascular Events in Patients With Type 2 Diabetes
- 106 Unraveling Heterogeneity of Subclinical Cardiovascular Disease in OSA: Assessment of Vascular Inflammation Before and After CPAP Using Hybrid PET/MRI
- 107 Association of High-risk OSA, Defined by Hypoxic Burden and Heart Rate Acceleration, With Non-dipping Blood Pressure
- 108 Trajectories of Home Blood Pressure Monitoring During the First 6 Months of Continuous Positive Airway Pressure Therapy in Patients With Obstructive Sleep Apnea

- 109 Effects of Treatment With Adaptive Servo-ventilation Early After Acute Myocardial Infarction on Nocturnal Hypoxemic Burden
- 110 Effect of Adaptive Servo-Ventilation on Circulating Biomarkers in Patients With Sleep Apnoea After Myocardial Infarction
- 111 Association of Habitual Sleep Duration With Ventricular Repolarization Lability
- 112 Estrogen Replacement Therapy and Ventricular Repolarization Lability in Post-menopausal Women Across the Spectrum of Obstructive Sleep Apnea Severity
- 113 Nocturnal Premature Ventricular Complexes Are Associated With Increased Risk of Cardio- and Cerebrovascular Events in the Hypnolaus Cohort
- 114 Measures Related to Obstructive Sleep Apnea After Tirzepatide Treatment by Baseline OSA Severity: Post-hoc Analyses of SURMOUNT-OSA

## CLINICAL

## POSTER DISCUSSION SESSION

### B110 THE ROAD TO EARLY DETECTION: ADVANCING LUNG CANCER SCREENING THROUGH AI, RISK MODELS, AND REAL-WORLD DATA

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 2002/2004 (West Building, Level 2)

Poster Viewing

2:15-3:00

Discussion

3:00-4:15

- 601 Smoking History and Lung Cancer Screening Eligibility
- 602 COPD Characteristics and Outcomes Among Individuals Receiving Lung Cancer Screening
- 603 Evaluating %LAA-950 Thresholds for Optimizing Lung Cancer Screening Frequency in Emphysema Patients: Limitations and Considerations
- 604 Poor Lung Cancer Screening Outcomes in GOLD 0 Is Associated With Diabetes Mellitus, Obesity, and Chronic Bronchitis

- 605 Personalized Risk Models Based on Lung Cancer Screening History: Post Hoc Analysis of the National Lung Screening Trial
- 606 USPSTF vs PLCom2012 Lung Cancer Screening Eligibility Criteria: A Cross-sectional Study
- 607 Call to Action: Addressing Low Rates of Lung Cancer Screening (LCS) in Asian Americans
- 608 Experience With Lung Cancer Screening in the Czech Republic: Half-time of the National Pilot Programme
- 609 Lung Cancer Screening Eligibility, Uptake, and Adherence in Puerto Rico, 2022
- 610 What Difference a Year Makes: A Comparative Study of Pre- and Post-implementation of an Incidental Lung Nodule Program
- 611 Centralizing Community Care Referrals at a VA Lung Cancer Screening Program
- 612 Using Quantified Coronary Artery Calcification Scores on CT Lung Screening to Identify Populations for Early Intervention and Risk Reduction
- 613 Incidentals Upon Incidentals: Characterizing and Quantifying Significant Radiologic Findings Within a Centralized Incidental Lung Nodule Program
- 614 Lung Cancer Screening Knowledge and Its Association With Adherence to Annual LDCT Follow-up
- 615 A Retrospective Matched Cohort Study of Lung Cancer Screening Shows Higher Lung-RADS Categorizations in Veterans with HIV
- 616 AI-assisted Lung Cancer Screening: Results From REALITY, A Pivotal Validation Study of an AI/ML-based Algorithm
- 617 Towards Improved Lung Cancer Screening: Evaluating Nodule Misclassification Trends of a Radiomics-based Prediction Model
- 618 Use of Large Language Models for the Detection and Management of Incidental Lung Nodules
- 619 Closed Loop, Full Automation of Suspicious Lung Nodule Risk Assessment With AI in Screening Cases



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- 620    **Management of Lung Nodules: A Two-year  
Follow-up Study of an Innovative Lung Nodule  
Program**
  - 621    **Evaluating the Non-malignancy Rate in the National  
Lung Screening Trial: Addressing Surgical  
Misclassification**
  - 622    **The Poorer Prognosis of Incidental Asymptomatic  
T1 Stage Lung Cancer Detected By Opportunistic  
Screening**



**ATS 2025**  
International  
Conference

 **ATS 2025** San Francisco, CA

**Tuesday Morning, May 20**

### MEET THE EXPERT SEMINARS

 Pre-registration and additional fees required. Attendance is limited.

\$100 Member/Non-Members

\$70 LMIC Member/LMIC Non-Members

**10:45 a.m. - 11:45 a.m.**

**Moscone Center**

**MTE23 DON'T MISS IT: IDENTIFYING AND MANAGING EXPOSURES LINKED TO SARCOIDOSIS**

Room 313 (South Building, Level 3)

**MTE25 IMMUNOLOGIC UNDERPINNINGS OF COPD**

Room 314 (South Building, Level 3)

**MTE26 THE ABC'S OF VENTILATOR WAVEFORMS**

Room 22, Hall E (North Building, Exhibition Level)

**MTE27 BRONCHIECTASIS: FOLLOWING THE UPDATED GUIDELINES AND ASSESSING NEW THERAPEUTICS**

Room 20, Hall E (North Building, Exhibition Level)

**MTE29 ARTIFICIAL INTELLIGENCE AND THE FUTURE OF PULMONARY MEDICINE**

Room 308 (South Building, Level 3)

**MTE32 ADVANCED USE OF ASTHMA BIOLOGICS: A CASE-BASED MASTER CLASS**

Room 21, Hall E (North Building, Exhibition Level)

### KEYNOTE SERIES

**8:00 a.m. - 8:45 a.m.**

**Moscone Center**

Esplanade Ballroom (South Building, Upper Mezzanine)

**K3 IMPROVING AIR QUALITY AND HEALTH: CURRENT CHALLENGES AND OPPORTUNITIES**

Panelists will discuss and focus on environmental health, including reflections on air quality science, and improving necessary safeguards.

### CLINICAL

### YEAR IN REVIEW

### C1 CLINICAL YEAR IN REVIEW

**9:15 a.m. - 10:45 a.m.**

**Moscone Center**

Esplanade Ballroom (Upper Mezzanine, South Building)

#### Target Audience

Pulmonary, critical care, and sleep providers. The program will discuss topics of interest to a broad group of providers. The program is relevant to not only clinicians, but also to researchers and administrators.

#### Objectives

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

- be able to apply new clinical research knowledge to clinical practice
- learn new findings about key conditions in pulmonary, critical care and sleep
- have new strategies to manage the care of common conditions in pulmonary, critical care, and sleep

This program has been developed to include core topics in pulmonary, critical care, and sleep medicine. The goal of the session is to discuss critical state-of-the-art topics and evolving concepts. The learner will be exposed to a carefully curated review of the current literature by emerging leaders in the field. After the course, participants will better understand novel concepts in each specific domain that we hope will translate to improved patient care.

**9:15 Bronchiectasis (CF/Non-CF)**

- 9:37 Interstitial Lung Disease
- 10:00 Lung Transplant
- 10:22 Pneumonia and Pulmonary Infections

*This session and the International Conference are supported by an independent medical educational grant from Boehringer Ingelheim Pharmaceuticals, Inc.*

*All CME sessions have been planned and implemented in accordance with the Accreditation Criteria of the Accreditation Council for Continuing Medical Education (ACCME®) and are free of the control of ineligible companies (formerly commercial interests).*

## BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

### CLINICAL TOPICS IN PULMONARY MEDICINE

## C2 TYPE 2 INFLAMMATION IN COPD: A PRO AND CON DEBATE

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

9:15 a.m. - 10:45 a.m.

Moscone Center

Room 3005/3007 (West Building, Level 3)

### Target Audience

Clinicians, basic and translations scientists

### Objectives

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

- discuss the recent therapeutic trial results of biologicals that have targeted Th2 pathways in COPD
- explore the future of therapeutic development of type 2 immune modulators in COPD
- identify the important molecules and effector immune cells involved in type 2 airway inflammation in COPD

While it has been long-recognised that COPD is an inflammatory lung disease, dissimilar to asthma, type 2 inflammation was thought to play a minor role. However, recent studies suggest that in approximately one third of patients with COPD, type 2 inflammation may be an important driver of disease and a potential therapeutic target. Importantly, the immune cells and molecules involved in COPD-related type 2 immunity may be significantly different from those observed in severe asthma. Here, we discuss the recent therapeutic trial results of biologicals that have targeted these pathways and explore the future of therapeutic development of type 2 immune modulators in COPD.

- 9:15 Type 2 Inflammation in COPD: Is It Just Asthma? Pros
- 9:30 Type 2 Inflammation in COPD: Is It Just Asthma? Cons
- 9:45 Eosinophils as a Treatable Trait in COPD: Pros
- 10:00 Eosinophils as a Treatable Trait in COPD: Cons
- 10:15 Highly Targeted T2 Biologics Will Have Limited Usefulness in Clinical Practice. Pros
- 10:30 Highly Targeted T2 Biologics Will Have Limited Usefulness in Clinical Practice: Cons

## CLINICAL • TRANSLATIONAL

### CLINICAL TOPICS IN PULMONARY MEDICINE

## C3 PEDIATRIC CLINICAL CHEST ROUNDS

Assembly on Pediatrics

9:15 a.m. - 10:45 a.m.

Moscone Center

Room 25, Hall E (North Building, Exhibition Level)

### Target Audience

Clinicians, advanced practice providers, trainees

### Objectives

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

- will depend on the cases selected from those submitted at the time of abstract submission
- will depend on the cases selected from those submitted at the time of abstract submission
- will depend on the cases selected from those submitted at the time of abstract submission

Pediatric Clinical Chest Rounds is one of the most popular pediatric symposia focused on discussion of 4 challenging or clinically intriguing cases of pediatric lung disease. The cases are chosen from case reports submitted at time of abstract submission. The case presentation done by a trainee is followed by discussion of the case and its related literature and clinical pearls by expert discussants

- 9:15 The Cold Never Bothered Me Anyway
- 9:27 Discussant #1
- 9:37 Overcoming a pneu-monumental challenge
- 9:49 Discussant #2
- 9:59 Unmasking the Cause of Teenage Drama

- 10:11 Discussant #3  
 10:21 An Apple a day...  
 10:33 Discussant #4

### CLINICAL • TRANSLATIONAL

### CRITICAL CARE TRACK

## C4 DON'T BE "AVERAGE," BE AN INDIVIDUAL! BRINGING EVIDENCE-BASED PERSONALIZED MEDICINE TO CRITICAL CARE

Assemblies on Critical Care, Clinical Problems

9:15 a.m. - 10:45 a.m.

Moscone Center

Room 2018/2020 (West Building, Level 2)

### Target Audience

Pulmonary and critical care, emergency room, and hospitalist physicians and trainees; researchers and clinicians involved with the treatment of critically ill patients.

### Objectives

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

- describe limitations of current RCT results, which report average treatment effects, and explain how heterogeneity of treatment effect (HTE) is a powerful vehicle for personalizing medicine
- understand how modern analytic tools, including machine learning, have been used predict the effect of treatment on outcome for individual patients through real-world examples in critical care
- evaluate barriers to and potential solutions for applying these new approaches to guide clinical care

In critical care, evidence-based medicine relies on average treatment effects from RCTs (evidence-based but not personalized), and personalized medicine relies on clinician intuition and experience (personalized but not evidence-based). However, advances in machine learning have created the potential to use RCT data to estimate how treatment will impact individual patients. This session will prepare clinicians and researchers to understand and contribute to the coming era of evidence-based personalized medicine in critical care by discussing cutting-edge methods, how to optimize discovery through granular data collection, how to harness heterogeneity when designing clinical trials, and approaches to translating models to the bedside.

- 9:15 From One-Size-Fits-All to One-Size-Fits-One: Merging Evidence-Based Medicine with Personalized Medicine  
 9:30 Beyond Subgroups: How Machine Learning Can Predict Individualized Treatment Effects  
 9:45 Data and Knowledge Gathering in a New Era of Personalized Medicine  
 10:00 Designing RCTs to Leverage Heterogeneity to Generate Personalized Results  
 10:15 The AI Will See You Now: Translating Machine Learning Analyses into Personalized Clinical Care  
 10:30 Roundtable Discussion

### BASIC • CLINICAL • TRANSLATIONAL

### SCIENTIFIC SYMPOSIUM

## C5 TEMPORAL TRAJECTORIES OF INFLAMMATION AND RECOVERY IN CRITICAL ILLNESS

Assemblies on Critical Care, Allergy, Immunology and Inflammation, Pulmonary Rehabilitation

9:15 a.m. - 10:45 a.m.

Moscone Center

Room 24, Hall E (North Building, Exhibition Level)

### Target Audience

Clinicians, researchers, and trainees in critical care who wish to better understand the role of timing and disease course in therapy and research

### Objectives

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

- understand that heterogeneous outcomes in critical care may arise from dynamic factors in addition to durable features of patients
- discuss dynamics of inflammatory markers and their correlation with acute illness and recovery
- recognize role of past events in critical illness outcome

This session will focus on trajectories of immune and clinical events as important contributors to heterogeneous outcomes in critical care. Critical illness is a series of discrete states during acute illness and recovery. Speakers will discuss the likelihood that transitions between various states, and thus the effect of interventions, may be different at different times. Speakers will address the role that past events play in determining outcome



focusing on the examples of trained immunity, co-morbidities, and initial events such as pathogen load. Finally, speakers will discuss emerging data on the immunology of post-ICU recovery.

- 9:15 **Treatable Moments in Critical Care: Finding Meaning from ARDS Immunologic Dynamics**
- 9:30 **Dynamic Subphenotypes: What Matters and When?**
- 9:45 **Dynamics of the Innate Response to Lung Injury**
- 10:00 **Immune Health Recovery After ARDS and COVID-19**
- 10:15 **Trajectories Before and After Critical Illness**
- 10:30 **Learning from the Past: Trained Immunity and Lung Repair Trajectory**

### BASIC • CLINICAL • TRANSLATIONAL

### SCIENTIFIC SYMPOSIUM

## C6 TARGETING MYELOID IMMUNE RESPONSES IN THE LUNG TUMOR MICROENVIRONMENT FOR CANCER THERAPY

**Assemblies on Thoracic Oncology, Respiratory Cell and Molecular Biology**

9:15 a.m. - 10:45 a.m.

**Moscone Center**

Room 303 (South Building, Level 3)

### Target Audience

Researchers in basic, translational, and clinical fields interested in understanding the immune mechanisms involved in lung cancer pathogenesis and novel immunotherapeutic developments, including recent cancer vaccine clinical trials.

### Objectives

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

- better understand the composition and functions of the myeloid cells in the lung tumor microenvironment
- understand the dynamic interplay between the myeloid compartment and both the lymphoid and non-immune components of the tumor microenvironment
- understand novel therapeutic interventions that target myeloid cells in lung cancer

Immunotherapy with checkpoint inhibitors has revolutionized lung cancer treatment. Effective anti-tumor responses depend on intricate interactions between innate and adaptive immune components within the tumor microenvironment (TME). Myeloid cells, including macrophages, monocytes, neutrophils, and

dendritic cells, are pivotal in modulating these interactions, either promoting or inhibiting tumor progression. This session will examine how myeloid cells in non-small cell lung cancer (NSCLC) influence both innate and adaptive immunity, with a focus on therapeutic strategies targeting these cells to enhance anti-tumor responses. Key insights from recent clinical trials, including dendritic cell vaccination in advanced NSCLC, will be highlighted.

- 9:15 **Uncovering the Pathological Role of Innate Immune Regulators in Lung Inflammatory-related Conditions and Cancer**
- 9:33 **Heterogeneity and Plasticity of Tumor-Associated Macrophages in Lung Cancer: Toward Tailored Immunotherapies**
- 9:51 **In Situ Vaccination with Gene-modified Dendritic Cells in NSCLC**
- 10:09 **Targeting the CXCR1/2 Axis Inhibits Neutrophil Function in NSCLC**
- 10:27 **Leveraging Immune Archetypes and their Myeloid Biology for Novel Therapies for Cancers**

*This session and the International Conference are supported by an independent medical educational grant from Merck & Co., Inc.*

*All CME sessions have been planned and implemented in accordance with the Accreditation Criteria of the Accreditation Council for Continuing Medical Education (ACCME®) and are free of the control of ineligible companies (formerly commercial interests).*

### BEHAVIORAL • CLINICAL • TRANSLATIONAL

### SCIENTIFIC SYMPOSIUM

## C7 NEXT STEPS: ENHANCING RESEARCH TRIALS IN PULMONARY REHABILITATION TO IMPROVE REAL WORLD IMPLEMENTATION

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

9:15 a.m. - 10:45 a.m.

**Moscone Center**

Room 215-216 (South Building, Level 2)

### Target Audience

Clinicians and researchers in the field of Pulmonary Rehabilitation interested in developing skills which will extend

their abilities to include patients in PR trials. Trialists, methodologists, health economists, funders and commissioners.

Objectives

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

- understand how novel or complex trial designs could be successfully applied to PR research, including the use of big data/ routinely collected data
- describe how to evaluate PR trials from health economic and implementation science perspectives
- increase engagement in PR trials by learning how to include ‘seldom heard’ communities

This session will consider how the field of pulmonary rehabilitation (PR) can move forwards from the research gaps identified in the latest clinical practice guidelines (2023) and describe the challenges with the traditional randomized controlled trial (RCT). The aim is to consider how we enhance PR trials by describing novel trial design and other strategies to best address current research priorities that are directed toward reducing the global burden of chronic respiratory disease through enhancing access to and delivery of pulmonary rehabilitation. We will consider clinical and cost-effectiveness of trials. The session will be relevant for clinicians in the field to understand how best to implement research findings into real world settings and how to include seldom heard communities.

- 9:15 Session Introduction and Patient Video
- 9:25 Generating Actionable Evidence for Pulmonary Rehabilitation, A Complex Healthcare Intervention
- 9:45 Economic Evaluation of Pulmonary Rehabilitation Trials
- 10:05 Using Implementation Science Tools To Get Research into Practice
- 10:25 Hearing from the Seldom Heard Communities in PR Trials

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

C8 THE LIVER-LUNG AXIS IN PULMONARY VASCULAR DISEASE: BENCH TO BEDSIDE

Assembly on Pulmonary Circulation

9:15 a.m. - 10:45 a.m. Moscone Center  
Room 2010/2012 (West Building, Level 2)

Target Audience

Physician-scientists, basic scientists, pulmonary and critical care physicians, advanced practice practitioners, trainees and students who care for or study liver diseases or pulmonary vascular disease.

Objectives

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

- describe how hepatic metabolic reprogramming may play a role in mediating pulmonary vasculopathy and perivascular inflammation in pulmonary arterial hypertension and portopulmonary hypertension
- define new strategies to incorporate liver dysfunction as a marker of disease severity and/or prognosis in pulmonary arterial hypertension
- apply evidence-based practice toward the evaluation of patients with portopulmonary hypertension and hepatopulmonary syndrome and understand the role, considerations for and timing of liver transplantation

This session will comprehensively explore the relationship between the liver and the pulmonary circulation in pulmonary vascular diseases, encompassing topics from cellular biology to clinical outcomes. Speakers will present novel evidence in how dysfunctional metabolism in the liver is involved in the inflammatory response, novel endophenotypes of liver dysfunction in pulmonary hypertension, how single and spatial transcriptomic approaches are uncovering cell signaling pathways that are important to liver-lung crosstalk and temporal trends in liver transplant for portopulmonary hypertension and hepatopulmonary syndrome.

- 9:15 A Patient's Perspective
- 9:20 Metabolism and the Liver-Lung Axis
- 9:30 Questions/Discussion
- 9:34 Glycolytic Programming Is Controlled by Fatty-Acid Binding Proteins Across a Apectrum of PAH, PoPH and Hepatopulmonary Syndrome
- 9:44 Questions/Discussion
- 9:48 Bone Morphogenetic Protein and Hepatic Endothelial Dysfunction Link the Liver and Lungs in Pulmonary Hypertension
- 9:58 Questions/Discussion
- 10:02 Liver Stiffness Is Associated with Prognosis in Pulmonary Hypertension
- 10:12 Questions/Discussion

**10:16 Novel Endophenotypes of Subclinical Liver Disease in Pulmonary Hypertension****10:26 Questions/Discussion****10:30 Hepatopulmonary Syndrome and Portopulmonary Hypertension Outcomes and Liver Transplantation****10:40 Questions/Discussion**

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**BASIC****SCIENTIFIC SYMPOSIUM****C9 MANY FACES OF ALVEOLAR TYPE II CELLS- PLASTICITY IN HEALTH AND DISEASE**

**Assemblies on Respiratory Cell and Molecular Biology, Respiratory Structure and Function**

**9:15 a.m. - 10:45 a.m.**

**Moscone Center**

**Room 3020 (West Building, Level 3)**

**Target Audience**

Basic and clinical researchers, clinicians and trainees who are interested in understanding the functions and regulations of alveolar epithelial cells in homeostasis, aging and during disease progression

**Objectives**

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

- learn new experimental evidence showing that AT2s have multiple functions and such functions are well regulated and integrated during homeostasis and aging, and the disruption of such integration are related to various lung diseases
- learn novel molecular mechanisms that regulate the plasticity and integrative functions of AT2s, how dysregulations of these mechanisms lead to various diseases, and how this knowledge may lead to the discovery of novel therapeutic targets
- learn the state-of-the-art techniques to study various aspects of AT2s, e.g. novel animal models, single-cell RNA-sequencing, organoid cultures etc

Alveoli is the functional unit of the lung responsible for gas exchange. Alveolar epithelium is composed of two types of cells. Alveolar type I cells (AT1) mediate gas exchange whereas alveolar type II cells (AT2) produce surfactant. In addition, AT2s have other functions including modulating the alveolar barrier integrity and innate immunity. Furthermore, AT2s can also function as stem cells to repair the distal lung after injury. The goal of this session is to understand how AT2s integrate their distinct functions during homeostasis, aging and in response to injury, and how dysregulation of these integrative functions leads to lung diseases.

**9:15 A Patient's Perspective****9:20 Subpopulation of AT2s and Fibrosis****9:38 Lost After Translation: Lessons from Surfactant Biology for the Role Of Alveolar Epithelial Dysfunction in Parenchymal Lung Diseases****9:56 AT2 Epithelial Stem Cells and Integrated Stress Response****10:14 MicroRNA let-7 Maintains AT2 Cell Plasticity and Serves as a Molecular Brake to Oncogene Dysregulation in Pulmonary Fibrosis****10:32 Metabolic Shifts of AT2s in Response to Lung Injury**

**\*2025 Parker B. Francis Speaker**

**BEHAVIORAL • CLINICAL • TRANSLATIONAL****SCIENTIFIC SYMPOSIUM****C10 ENHANCING RECRUITMENT AND RETENTION OF MINORITY AND UNDERREPRESENTED POPULATIONS**

**Assemblies on Nursing, Behavioral Science and Health Services Research, Critical Care, Pulmonary Rehabilitation**

**9:15 a.m. - 10:45 a.m.**

**Moscone Center**

**Room 201-202 (South Building, Level 2)**

**Target Audience**

Researchers, Nurses, Physicians, Allied health professionals, Junior physicians, Patients & family members

**Objectives**

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

- describe at least two reasons why it is important to increase the recruitment and retention of minority and underrepresented participants in clinical research

- identify at least two strategies to increase the recruitment of diverse and underrepresented participants in clinical research
- describe at least two strategies to increase retention of diverse and underrepresented participants in clinical research

In this session we will discuss the importance of enhancing diversity in clinical research and building upon implementation strategies discussed in the official ATS research statement titled: Enhancing Recruitment and Retention of Minority Populations for Clinical Research in Pulmonary, Critical Care and Sleep Medicine (2021). We will present lessons learned across multiple institutions related to recruiting, retaining, and engaging minorities and underrepresented populations in research. We will discuss foundational strategies to increase community engagement among minority populations including collaborating with patient advocacy groups, community and faith-based organizations and interpersonal-level strategies such as returning individual research results to participants and infographics.

- 9:15 Introduction**
- 9:25 A Patient's Perspective**
- 9:30 Community-Based Participatory Research**
- 9:42 Institutional Level Strategies to Enhancing Recruitment and Retention of Minority and Underrepresented Populations**
- 9:54 What Research Teams Need to Know about Engaging with Research Participants**
- 10:06 Infographics and Benefits Among Low Health Literacy and Limited English Proficiency**
- 10:18 Institutional-Level Strategies to Increase Recruitment and Retention**
- 10:30 Conclusion**
- 10:35 Question and Answer**

*This session and the International Conference are supported by independent medical educational grants from*

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## CLINICAL • TRANSLATIONAL

### SCIENTIFIC SYMPOSIUM

#### C11 MICROPLASTICS AND THEIR IMPACT ON HEALTH

**Assemblies on Environmental, Occupational and Population Health, Clinical Problems, Respiratory Cell and Molecular Biology**

**9:15 a.m. - 10:45 a.m.**

**Moscone Center**

**Room 205-206 (South Building, Level 2)**

#### Target Audience

Scientists, clinicians (pulmonology, Occupational Medicine, Environmentalists, pediatrics, Geriatricians, public health/global health practitioners, trainees interested in respiratory diseases, biologists, and PhD students

#### Objectives

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

- enhance attendees' knowledge of the sources, exposure routes, and potential health impacts of microplastics
- equip healthcare professionals with evidence-based strategies for assessing and managing microplastic exposure in patients
- promote interdisciplinary collaboration among healthcare providers, researchers, and environmental health experts to develop and share best practices for addressing the health impacts of microplastics

Our symposium is designed to boost awareness and comprehension of the impact of microplastics on health among healthcare professionals, researchers, and the public. We aim to spark collaboration across various fields, promoting evidence-based practices, sharing recent research, and circulating clinical guidelines. As we drive advancements and novel approaches, we're fostering innovation and improving public health outcomes. By focusing on the health implications of microplastics, we aim to enhance our understanding of their effects, thus developing strategies to mitigate risks and promote well-being.

**9:15 The Invisible Threat: Microplastics in Our World**

**9:35 A Plastic Journey: How Microplastics Enter Our Bodies**

**9:55 A Cause for Concern? Potential Health Risks of Microplastics**

**10:15 Microplastic and Lung Health**

**10:30 Minimizing Our Microplastic Footprint: Solutions and Strategies**



## CLINICAL • TRANSLATIONAL

## SCIENTIFIC SYMPOSIUM

## C12 CHAIR'S SYMPOSIUM: CYSTIC FIBROSIS AND NON-CF BRONCHIECTASIS-TIME FOR THE TWAIN TO MEET IN CLINICAL TRIALS?

9:15 a.m. - 10:45 a.m.

Moscone Center

Room 209-210 (South Building, Level 2)

**Target Audience:**

All Attendees

**Objectives**

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

- understand the similarities and differences in the pathophysiology and manifestations of CF and NCFB
- describe the potential benefits of including participants with both CF and NCFB in the same clinical trials
- understand the potential barriers to including both participants with CF and NCFB in the same clinical trials

Although there is overlap between the treatment of bronchiectasis in people with CF and other causes of bronchiectasis, therapeutic trials in the CF and non-CF bronchiectasis (NCFB) populations have been intentionally separated with few exceptions. However, because both are orphan diseases (affecting less than <200,000 people in the U.S.), some experts have argued that it is time to reconsider broadening the inclusion criteria for trials of new therapies to treat bronchiectasis. In this session, attendees will understand the clinical overlap between CF and NCFB, the historical reasons the two disorders were separated in clinical trials, the numerous reasons experts in the field are reconsidering this approach and the pros and cons (including the potential barriers to including both groups in a single trial as well as the potential benefits of doing so).

**9:15 Session Introduction**

**9:20 CF and Non-CF Bronchiectasis**

**9:35 Pro: Clinical Trials of New Therapeutics Should Include CF and NCFB Participants**

**9:55 Con: Clinical Trials of New Therapeutics Should Include CF and NCFB Participants**

**10:15 Rebuttal Pro**

**10:20 Rebuttal Con**

**10:25 Panel Q&A**

## CLINICAL • TRANSLATIONAL

## SCIENTIFIC SYMPOSIUM

## C13 CHALLENGES IN TOBACCO CONTROL: NICOTINE CONCENTRATIONS, SYNTHETIC NICOTINE, AND FLAVORINGS

Assembly on Thoracic Oncology

9:15 AM – 10:45 AM

Moscone Center

Room 2014 (West Building, Level 2)

**Target Audience**

Providers of lung health; those caring for patients with tobacco dependence; tobacco scientists, implementation researchers, policy makers, those interested in advocacy, policy, and health disparities

**Objectives**

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

- understand the public health impact of high nicotine concentrations, synthetic nicotine, and flavorings, particularly among populations experiencing tobacco-related disparities
- understand the scope, limitations, and challenges of the FDA in regulating these products
- learn how to support and work with federal, state, and local authorities to advocate for strong tobacco control policies

This symposium will address three topics that pose threats to tobacco control efforts: products with high nicotine concentrations, nicotine analogs and synthetic nicotine, and flavorings, including menthol. Within each topic, speakers will discuss their impact on public health and FDA's role in regulation of these products. Speakers will showcase how coordinated efforts across federal, state, and local levels can safeguard public health. We will close by inviting our expert panel to discuss how ATS members can work with the FDA to support tobacco control policies and how to collaborate with state and local tobacco control policies to address regulatory gaps.

**9:15 Understanding the Role of the FDA in Tobacco Control**

**9:35 Nicotine Concentrations in Tobacco Products**

**9:50 Nicotine Analogs and Synthetic Nicotine**

**10:05 Flavorings, Especially Menthol, in Tobacco Products**

**10:25 Panel Discussion**

## CLINICAL

## MINI SYMPOSIUM

**C14 STRENGTHENING YOUR “-ABS”:  
CLINICAL THERAPEUTICS FOR  
INFLAMMATORY LUNG DISEASE**

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

Moscone Center

Room 211-212 (South Building, Level 2)

- 9:15 Dupilumab Improves Lung Function, Asthma Control and Exacerbation Frequency in Allergic Bronchopulmonary Aspergillosis - Results From the Phase 2 LIBERTY ABPA AIRED Study
- 9:27 Tezepelumab Reduces and Eliminates OCS Use in OCS-Dependent Patients With Severe Asthma: Primary Results From the Phase 3b WAYFINDER Study
- 9:39 Biologic Effectiveness Increases With Shorter Time From Severe Asthma Onset to Biologic Initiation: Results From the Chronicle Study
- 9:51 Treating Eosinophilic Exacerbations of Airways Disease With Benralizumab Reduces Cumulative Systemic Corticosteroid Exposure at 90 Days
- 10:03 Twice-yearly Depemokimab Reduces Exacerbations and Improves Quality of Life in Patients With Uncontrolled Asthma Symptoms at Baseline: Subgroup Analyses of the Phase III SWIFT-1/2 Studies
- 10:15 Early Phase Double-blind, Placebo-controlled Study of Medium Chain Triglycerides Additive in Adult Asthma
- 10:27 Axatilimab in Patients With Lung Chronic Graft-versus-Host Disease and Related Bronchiolitis Obliterans Syndrome: Results From the AGAVE-201 Study
- 10:39 Acumapimod Significantly Reduces Key Inflammatory Biomarkers in Severe COPD Exacerbations and Reduces the Rate of Re-Hospitalization
- 10:51 Mepolizumab in Patients with COPD: Results from the MATINEE Phase III Randomized Controlled Trial
- 11:03 Efficacy of Brensocatib in Patients With Eosinophilic Bronchiectasis: An Analysis of the ASPEN Trial

## BASIC • TRANSLATIONAL

## MINI SYMPOSIUM

**C15 ‘OMICS ODYSSEY ACROSS LUNG  
DISEASES**

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

Moscone Center

Room 2001 (West Building, Level 2)

- 9:15 Single-cell Proteome Profiling Reveals Distinct Immunological Patterns in the Lungs of Patients With Acute Respiratory Distress Syndrome
- 9:27 Effects of Mepolizumab and Systemic Corticosteroids on Airway Gene Expression Patterns Post-exacerbation in Urban Children With Asthma
- 9:39 Characterization of Airway Cell Composition at Birth and Changes Over Infancy and During Respiratory Illnesses
- 9:51 Gene Expression Dynamics of Lung Function Decline in COPD
- 10:03 Distinct Nasal Epithelial Transcriptomic Signature in Current Smokers From the COPD Gene Study
- 10:15 Epigenomic and Transcriptomic Regulation of the MUC5B/MUC5AC Locus in Bronchial Airway Epithelium and Association With Early Small Airways Disease in Spiromics
- 10:27 Lung Marginal Zone-like B Cells: A Novel Pathogenic Immune Cell Population in Chronic Obstructive Pulmonary Disease
- 10:39 Cross-systems Transcriptomics Uncovers Molecular Endotypes of Hypersensitivity Pneumonitis
- 10:51 Shared and Distinct Genetic Determinants of Pulmonary Fibrosis and Fibrosis in Other Organs
- 11:03 Distinct Proteomic Profiles in Anti-Jo-1 Versus Non-Jo-1 Idiopathic Inflammatory Myopathy Patients: Implications for Interstitial Lung Disease Risk

**BEHAVIORAL SCIENCE****MINI SYMPOSIUM****C16 ASTHMA TREATMENT, HEALTH SERVICES RESEARCH, AND DISPARITIES**

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

Moscone Center

Room 3005/3007 (West Building, Level 3)

- 9:15 Trends in Single Maintenance and Reliever Therapy-congruent Prescriptions for Asthma in the United States Before and After Updated GINA Recommendations
- 9:27 A Longitudinal Assessment of Acute Care Utilization in the Year Prior to Deaths in Canadian Patients With Asthma
- 9:39 Culturally and Contextually Tailored Asthma Self-Management for Urban, Latino Middle School Students: The Rhode Island-Puerto Rico Asmas Program
- 9:51 A Comparative Cost Analysis of Maintenance and Reliever Therapy (MART) Versus Traditional Inhaler Therapy for Patients With Moderate-to-Severe Asthma From a United States Healthcare Payor Perspective
- 10:03 Improving Asthma Management and Patient Outcomes in China Through a Quality Improvement Programme: A Multi-centre, Single-arm Study (CARE4ALL)
- 10:15 An Algorithm to Evaluate Prescribing Patterns of Guideline-Recommended Maintenance and Reliever Therapy (MART) in Asthma
- 10:27 Exacerbation Reduction in Patients With Asthma Following Initiation of Fluticasone Furoate/Umeclidinium/Vilanterol (FF/UMEC/VI) in the United States
- 10:39 The Relationship Between Individual-level Versus Neighborhood-level Social Determinants of Health Measures and Asthma-related Emergency Department Visits: The Penn Airways Disease EHR-based Study (PADES)
- 10:51 'Before Medically Advised' Discharges Following Hospitalization for Asthma Exacerbation: Disparities in Treatment and Outcomes
- 11:03 Asthma Biologics Utilization in Patients With Obesity

**BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL****MINI SYMPOSIUM****C17 DELIRIUM, DISPARITIES, AND DISABILITY: ADVANCING EQUITY IN CRITICAL ILLNESS OUTCOMES**

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

Moscone Center

Room 2018/2020 (West Building, Level 2)

- 9:15 Achieving Health Equity in Delirium Detection in Spanish-speaking Latinx ICU Patients
- 9:27 Characterizing Critical Illness Recovery Trajectories: Exploring Risk Factors for Post Intensive Care Syndrome
- 9:39 National Trends and Disparities in ARDS Mortality: An Analysis of CDC WONDER Data (1999-2020)
- 9:51 Association of Rural Residence With Disability and Cognitive Outcomes in Survivors of Critical Illness
- 10:03 Comparison of Delirium Subtypes During Critical Illness Derived From Clinical Versus Inflammatory Biomarker Data
- 10:15 The Association of Race, Ethnicity, and Geographic Resource Deprivation With Prolonged Emergency Department Boarding Among Adults With Sepsis: A Retrospective Cohort Study
- 10:27 Patient Preferred Language and Deep Sedation During Invasive Mechanical Ventilation: A Multicenter Retrospective Cohort Study
- 10:39 Health System Purchasing Professionals' Approaches to Considering Equity in Procurement
- 10:51 Characterizing Intersectional Relationships Among Rurality, Sex, and Race Among Critically Ill Patients After Drug Poisoning
- 11:03 The Association Between Delirium, Race, and English Proficiency in Adult Intensive Care Unit (ICU) Patients

## BASIC • CLINICAL • TRANSLATIONAL

## MINI SYMPOSIUM

**C18 SPATIAL AND SINGLE-CELL ANALYSIS OF LUNG DISEASE: BRIDGING EARLY MECHANISMS TO THERAPEUTIC GAPS**

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

Room 3006/3008 (West Building, Level 3)

- 9:15 Spatially Resolved Transcriptomics Identifies Age-Related Pathological Cellular Niches During Recovery From Viral Pneumonia
- 9:27 An Epigenetic Association Between Heightened Airway Hyperreactivity and Maternal Exposure to Particulate Air Pollution
- 9:39 Spatial Transcriptomic Analysis of Systemic Sclerosis-Associated Interstitial Lung Disease (SSc-ILD) Identifies Fibroblast LIF Receptor as an Amplifier of Lung and Skin Fibrosis
- 9:51 The PPFE Cell Atlas - The Discovery of the Usual Fibrotic Niche at the Edge of Pleuro-Parenchymal Fibroelastotic Remodeling Surprises as an Immune Cell Driven Phenomenon
- 10:03 Single Cell Transcriptomics in a Treatment Status Segregated Cohort Exposes a STAT3-Regulated Therapeutic Gap in Idiopathic Pulmonary Fibrosis
- 10:15 Spatial Transcriptomics Reveals a Significant Overlap Between Early-stage Familial Pulmonary Fibrosis and Idiopathic Pulmonary Fibrosis
- 10:27 Elucidating Cellular and Molecular Dynamics in Bronchopulmonary Dysplasia Through Advanced Spatial-Omics
- 10:39 The Mouse Single Cell Lung Disease Atlas
- 10:51 Klf4-EP300 Axis as Novel Epigenetic Modifier of ACTA2+ Fibroblasts Drives Lung Fibrosis Across Ages
- 11:03 Single-cell Analysis Reveals Somatic Mutation Accumulation, Loss of Differentiation, and Increased Transcriptional Entropy in Aged Human Lungs

## BASIC • CLINICAL • TRANSLATIONAL

## MINI SYMPOSIUM

**C19 UNCOVERING DEEP ROOTS: NEW MECHANISMS IN AIRWAY DISEASE**

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

Room 3000/3002/3004 (West Building, Level 3)

- 9:15 TGF- $\beta$  Receptor-dependent Concurrent Phase Transitions in Differentiating Airway Basal Stem Cells
- 9:27 Club Cell Protein 16 Promotes Lung Development Through  $\alpha 2\beta 1$  Integrin Receptor Binding
- 9:39 Early-life Respiratory Syncytial Virus Infection Impairs  $\beta 2$  Adrenergic Receptor-mediated Responses in Airway Smooth Muscle Via Promoting Receptor Desensitization by Epithelial CXCL11
- 9:51 Airway Mucin Muc5b Is Required for Parainfluenza Virus-induced Airway Hyperresponsiveness
- 10:03 AP1 Regulates the Expression of Aryl Hydrocarbon Receptor in Asthmatic Airway Smooth Muscle
- 10:15 Ligand-independent Regulation of Airway Smooth Muscle Contraction and Airway Hyperresponsiveness by the IL-31 Receptor Alpha
- 10:27 Targeted Multimodal Analyses for Mapping Lipid Mediator Spatial Heterogeneity in the Human Lung

## BEHAVIORAL • CLINICAL • TRANSLATIONAL

## MINI SYMPOSIUM

**C20 CROSSING THE GOLDEN GATE: INNOVATIVE OSA TREATMENT TRIALS AND CARDIOVASCULAR OUTCOMES**

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

Room 3001 (West Building, Level 3)

- 9:15 Differential Cardiovascular Benefit of Positive Airway Pressure in Obstructive Sleep Apnea: A Multi-trial Analysis
- 9:27 Changes in Cardiometabolic Risk Factors Based on Improvements in Apnea-Hypopnea Index in Participants From the SURMOUNT-OSA Clinical Studies



- 9:39 Change in Peripheral Apnea-Hypopnea Index (pAHI), and Body Weight in Participants With Moderate-to-Severe OSA With Obesity From Surmount-OSA
- 9:51 Proximal Hypoglossal Nerve Stimulation Improves Sleep-disordered Breathing in Moderate to Severe Obstructive Sleep Apnea: The Osprey Randomized, Controlled Trial
- 10:03 High Loop Gain Predicts Blood Pressure Response in Patients With Obstructive Sleep Apnea in the SNOOzzE Cohort
- 10:15 Apnea Pressure Spike Index: Identifying OSA Specific Effect on Nocturnal Blood Pressure
- 10:27 Adherence and Dose Response of Positive Airway Pressure (PAP) Therapy and Healthcare Resource Use Among Patients With Obstructive Sleep Apnea (OSA) and Coronary Artery Disease
- 10:39 Impact of Hypoglossal Nerve Stimulation vs. Positive Airway Pressure Therapy on Cardiovascular Health in OSA Patients
- 10:51 Effects of Obstructive Sleep Apnea Treatment on Cardiovascular and Sleep Health in Same-Bed Sleep Partners: The SLEEP PARTNERS Randomized Trial
- 11:03 Partner Involvement Associated With Baseline PAP Usage in Obstructive Sleep Apnea

**BEHAVIORAL • CLINICAL****MINI SYMPOSIUM**

**C21 SCREENING THE UNSEEN:  
ADVANCING LUNG CANCER  
DETECTION AND ACCESS ACROSS  
DIVERSE POPULATIONS**

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

Room 304 (South Building, Level 3)

- 9:15 Quality Assessment of Low-dose Computed Tomography Lung Cancer Screening at the Veterans Health Administration
- 9:27 Improving Access for a Very Vulnerable Population: The First Centralized Lung Cancer Screening Program for the Department of Corrections

- 9:39 Lung Cancer Discriminates: The Risk for Lung Cancer in Never Smoking Women
- 9:51 Identifying Risk Factors for Lung Cancer in Never-smokers: A Case-control Study
- 10:03 Lung Cancer Diagnoses Among Lung Cancer Screening Program Participants With Family History of Lung Cancer
- 10:15 Missed Opportunities for Tobacco Dependence Treatment Among Lung Cancer Screening Participants
- 10:27 Growth and Clinical Outcomes of Screen-detected Pulmonary Subsolid Nodules After 5 Years of Stability
- 10:39 Can an Artificial Intelligence-supported Incidental Nodule Program Outperform a Lung Cancer Screening Program?
- 10:51 Performance of a Blood-based Protein Biomarker Panel in Lung Cancer Screening
- 11:03 Lung Cancer Screening in Cancer Survivors

**BEHAVIORAL • CLINICAL****POSTER DISCUSSION SESSION**

**C22 BIG DATA AND TECHNOLOGY IN  
RESPIRATORY MEDICINE**

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

Room 2006/2008 (West Building, Level 2)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

- 701 A Breath of Relief: Analyzing Disease Burden Following Pharmacologic Management of Anxiety or Depression Among COPD Patients Using the TriNetX Network
- 702 An AI Physical Exam Can Predict Lung Function
- 703 A Machine Learning-based Approach for Predicting Pulmonary Function Testing Parameters Using Spectral Oscillometry
- 704 Temporal Trends and Variation in the Management of Secondary Spontaneous Pneumothorax in the United States

- 705 Patients Perspectives on Immediate Online Access to Bronchoscopy Biopsy Results Through an Online Patient Portal
- 706 User-Centered-Re-Design of an Established Clinical Decision Support System for Pneumonia
- 707 Area Level Characteristics of Waitlisted Lung Transplant Patients One Year Into the New Allocation Era
- 708 The Undertreatment of Chronic Obstructive Pulmonary Disease: Data From the National Health and Nutrition Examination Survey, 2007-2012
- 709 Comprehensive Evaluation of Biologic Therapies in Severe Asthma: A Meta-analysis on Exacerbation Reduction, Lung Function Improvement, and Quality of Life Enhancement
- 710 New Onset Atrial Fibrillation in Chronic Obstructive Pulmonary Disease, Obstructive Sleep Apnea, and Overlap Syndrome: A Retrospective Observational Study From the Trinetx Database
- 711 Evaluation of the Impact of a Digital Peak Flow Meter-linked Asthma App on Adherence to Peak Flow Measurement
- 712 Accrual of Hospital-free Days After Lung Transplant Before and After the 2017 Lung Allocation Policy Change
- 713 Impact of Donor Cause of Death on Lung Transplants Outcomes
- 714 Misadventures in Vaping Cessation: A Qualitative Study Demonstrating Social Media as a Highly Utilized Source of Health Advice and Misinformation
- 715 The Use of a Digital Inhalation Coach in a Clinical Trial to Ensure High Inhaled Medication Adherence and Improve Inhalation Technique
- 716 Could Positive Airway Pressure (PAP) Telemonitoring Data Predict High Treatment Quality?
- 717 Addition of a Vaccine Reminder in Note Template Improves Immunization Rates in a Pulmonary Clinic
- 718 Leveraging a Diversity, Equity, Inclusion Electronic Medical Record Dashboard to Identify Disparities in Pulmonary Telemedicine Care
- 719 Causes of Death in US Adults With a COPD Diagnosis, An Analysis of the US National Vital Statistics System

- 720 Treatments Patterns in US Patients Hospitalized for Viral Lower Respiratory Tract Disease: An Analysis of Linked Electronic Health Records and Claims Data (2015-2023)
- 721 From Codes to Words: Identifying ARDS Using Unstructured Data in the Veterans Health Administration
- 722 Unravelling Telemonitoring Data to Predict Good NIV Quality: The E-QualiNIV Study
- 723 Implementation and Impact of a Results-driven Protocol in the Pulmonary Function Laboratory
- 724 Evaluation of Asthma Status Classification Consistency in Electronic Health Records by Asthma Specialist Review Versus Rules-based Algorithms

## CLINICAL • TRANSLATIONAL

### POSTER DISCUSSION SESSION

#### C23 ON THE HORIZON: IMAGING AND MOLECULAR BIOMARKERS IN FIBROTIC ILD

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

Moscone Center

Room 2002/2004 (West Building, Level 2)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

- 601 Dose-Dependent Change of Inhaled Pirfenidone Seen in Lung Volume and Fibrosis Quantification in Patients With IPF: A Deep Learning Image-Based Analysis of Data From the ATLAS Phase 1b Trial
- 602 The Role of the rs35705950 MUC5B Promoter Variant in Connective Tissue Disease-associated Interstitial Lung Disease
- 603 Blood Transcriptome of Adults With Myositis and Interstitial Lung Disease
- 604 Common Genetic Risk Variants of Idiopathic Pulmonary Fibrosis (IPF) Are Associated With Changes in Disease Monitoring Clinical Variables - A Secondary Data Analysis of Rainier, A Randomized Phase 2 IPF Trial
- 605 Genomic Testing of Patients With Interstitial Lung Disease: Current International Practice

- 606 PRO-C3 and PRO-C6 Fibrogenesis Biomarkers in Connective Tissue Disease-associated Interstitial Lung Disease: Results From the Phase IIb RECITAL Trial
- 607 Combined Deep Learning Algorithms Demonstrate That Both Computed Tomography Phenotype and Anatomical Biomarkers Are Predictive of Prognosis and Progression in Idiopathic Pulmonary Fibrosis
- 608 Changes in Circulating ICAM1 and Disease Progression in Patients With Idiopathic Pulmonary Fibrosis
- 609 Deep Learning Quantitative Computed Tomography Analysis in the Australian Idiopathic Pulmonary Fibrosis Registry
- 610 Deep Learning-based Disease Severity Biomarkers on CT; Posthoc Analysis in a Phase 2a Placebo-controlled Study of ENV-101 in Subjects With Idiopathic Pulmonary Fibrosis
- 611 Telomere Length as a Prognostic Biomarker for Patients With Familial Pulmonary Fibrosis
- 612 Neighborhood Disadvantage Associations With Radiologic Features and Patterns in Fibrotic Interstitial Lung Disease
- 613 Elevated 15-lipoxygenase in Circulating Exosomes as a Prognostic Biomarker in Idiopathic Pulmonary Fibrosis Patients Stratified by Normal Lung Area and Tricuspid Regurgitation Velocity
- 614 Assessing Interstitial Lung Abnormalities With a DL-IQ-UIP Classifier and LTA Algorithms: Links to Mortality, Cancer, All-cause and Pneumonia Hospitalization
- 615 Features and Outcomes of Patients With a Typical Fibrotic Hypersensitivity Pneumonitis Pattern on Chest Computed Tomography
- 616 Hyperpolarized<sup>129</sup>Xe MRI Membrane Uptake Associates With 12-month Changes in Lung Function in Patients With Idiopathic Pulmonary Fibrosis Initiating Therapy
- 617 Association of Matrix Metalloproteinase-7 (MMP-7) With Clinical Outcomes in Different Stages of Systemic Sclerosis (SSc)
- 618 Serum Inflammatory Markers as Predictors of Therapeutic Response to Anti-inflammatory Therapy in Non-Idiopathic Pulmonary Fibrosis Interstitial Lung Disease

- 619 Single Timepoint Prediction Score on High-resolution CT: Association With Progression-free Survival in Interstitial Lung Disease
- 620 Assessing Sensitivity and Specificity of Ground Glass Opacity on HRCT to Predict Inflammation on Surgical Lung Biopsy in Fibrotic ILD
- 621 Diagnostic Accuracy of Endobronchial Optical Coherence Tomography, Transbronchial Lung Cryobiopsy and Envisia Genomic Classifier for Diagnosis in Low-confidence Interstitial Lung Disease
- 622 Blood Cell Indices and Survival Outcomes in Acute Exacerbation of Interstitial Lung Disease: A Multicenter Cohort Study
- 623 Using Extreme Phenotypes in Sarcoidosis to Develop Prognostic Gene Expression Markers in Whole Blood RNA
- 624 Quantitative in Vivo Microscopic Assessment and Computer Aided Diagnosis of Early Interstitial Lung Disease Using Artificial Intelligence Based Endobronchial Optical Coherence Tomography
- 625 Biomarker Analysis Reveals Antifibrotic and Anti-inflammatory Signatures in Idiopathic Pulmonary Fibrosis Patients Treated With INS018\_055, an AI-discovered TNIK Inhibitor, in a 12-week Phase 2a Study

## BEHAVIORAL • CLINICAL

### POSTER DISCUSSION SESSION

#### C24 PREDICTING ARDS OUTCOMES: MODELS, MARKERS, AND MECHANISMS

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

Moscone Center

Room 213-214 (South Building, Level 2)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

- 301 Association of Acute Respiratory Distress Syndrome (ARDS) Radiographic Findings Identified by Machine Learning and Outcomes of Patients Receiving Invasive Mechanical Ventilation

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| <p>302 Beyond the Shadows: Unpacking Chest X-ray Features to Refine Radiographic Assessment of Lung Edema (RALE) Scores in Acute Respiratory Failure</p> <p>303 Predicting Survival in Acute Respiratory Failure: Insights From Chest X-ray Features and RALE Scores</p> <p>304 Motion Tracking Evaluation of Pleural Sliding Using an Opencv Algorithm: A Proof-of-Concept Study on Lung Ultrasound Scans</p> <p>305 Generalisability and Inter-Model Variability of ARDS Biological Subphenotype Models: An International, Multi-Centre, Prospective Biomarker Study From China ARDS Biological Heterogeneity Study</p> <p>306 Rapidly Improving Acute Respiratory Distress Syndrome (ARDS) Is Common and Unique in Sepsis-related ARDS</p> <p>307 Mapping Berlin in the Global Definition of ARDS: Overlap and Progression Between Berlin and Global Definitions</p> <p>308 Association of Exhaled Breath Condensate Proteins With Outcomes in Patients With Acute Respiratory Failure</p> <p>309 Elevated Growth and Differentiation Factor 15 (GDF15) Levels in Subphenotypes of ARDS and Sepsis: A Marker of Mitochondrial Dysfunction and Mortality Risk</p> <p>310 3O Sulfated Heparan Sulfate Binds to Surfactant Protein D and Is Associated With Impaired Lung Mechanics in Acute Respiratory Distress Syndrome</p> <p>311 Olfactomedin-4 Elevation Associates With Mortality and Organ Injury in Infectious ARDS</p> <p>312 Fluid Balance Is Associated With Differential Effects Across the Spectrum of Acute Respiratory Failure in SARS-CoV-2</p> <p>313 Proteomic Analysis Identifies Novel Immune Mediators and Soluble Receptors That Are Robustly Associated With Mortality in COVID-19 Critical Illness</p> <p>314 CeSPIACE, A Novel Peptide SARS-CoV-2 Spike Inhibitor, Prevents and Treats COVID-ARDS: Findings From a Mouse ARDS Model</p> <p>315 Deep Learning Predictions of T Cell Receptor Epitope Affinity in COVID-19 Inform Repertoire Biases Associated With Disease Severity</p> | <p>316 Changes in the Pulmonary and Systemic Transcriptome in Critically Ill COVID-19 Patients Treated With V-V ECMO</p> <p>317 Lower Airway Dysbiosis Among Immunocompromised Critically Ill COVID-19 Patients</p> <p>318 Genetic Pathway Dysregulation Is Both Shared and Distinct in Sepsis-Associated and Trauma-Associated ARDS</p> <p>319 Proteomic and Metabolomic Characterization of Pediatric ARDS Inflammatory Subphenotypes</p> <p>320 Cell-free DNA Methylomics Identify Tissue Injury Patterns in Pediatric ARDS</p> <p>321 Increased Glycocalyx Degradation Products in Heat Moisture Exchanger Filter Fluid Are Associated With Worse Illness Severity and Clinical Outcomes in Acute Respiratory Distress Syndrome</p> <p>322 Amino Acid Metabolism Is Altered in Critically Ill Adults With Metabolic Dysfunction and the Hypoinflammatory Phenotype of ARDS and Sepsis</p> <p>323 Characterization of Pulmonary Neutrophils Following Segmental Lipopolysaccharide Administration in Healthy Subjects</p> <p>324 Soluble ST2 Secretion From Alveolar Epithelial Type 2 Cells May Play a Role in Acute Lung Injury</p> <p>325 Dopamine Signaling Dampens Macrophage-driven Acute Lung Injury via Modulating Mitochondrial Activity in a JAML/IL-10-dependent Manner</p> |
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- BEHAVIORAL • CLINICAL**
- POSTER DISCUSSION SESSION**
- C25 TOWARDS IMPROVING THE DIALOGUE, DECISIONS, AND DIGNITY IN THE ICU**

**9:15 a.m. - 11:15 a.m. Moscone Center**

Room 207-208 (South Building, Level 2)

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| Poster Viewing | 9:15-10:00  |
| Discussion     | 10:00-11:15 |

201 US Physicians' Perceived Impacts of Abortion Bans in Pulmonary and Critical Care Medicine



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| <p>202 Evaluation of the Association Between Surrogate-reported Goals of Care and Care Delivery for Critically Ill Patients in the Intensive Care Unit</p> <p>203 Implementation of a Novel Humanizing Initiative for Chronically Critically Ill ICU Patients at a Large Academic Medical Center: A Feasibility Pilot Study</p> <p>204 Ableism After Critical Illness: A Qualitative Translation of Key Concepts to the Post-ICU Context</p> <p>205 Large Language Models to Detect Stigmatizing Language in Critically Ill Patients With Substance Use Disorders</p> <p>206 Gastroenterology/Hepatology Consultation Is Associated With Reduced Mortality in Critically Ill Patients With Decompensated Cirrhosis: A Propensity Score Analysis</p> <p>207 Influence of Demographics and Comorbidities on Surrogate-reported Goals of Care for Critically Ill Patients</p> <p>208 Patient and Family Satisfaction: Targets for Improvements in Care and Communication in Critical Care Medicine</p> <p>209 Primed to Discuss: Improving the Frequency and Standardizing Goals of Care Documentation Amongst Critically Ill Patients</p> <p>210 Burnout and Communication in the ICU</p> <p>211 Which US States Support Unilateral Clinician Decisions to Decline Initiating or Maintaining Life-sustaining Treatment?</p> <p>212 The Influence of Hospital Policies on Clinicians' Approaches to Decisions to Withhold or Withdraw Life-sustaining Treatment in Ethically Controversial Scenarios</p> <p>213 Goals of Care Note Documentation for Patients With Delirium in the Intensive Care Unit</p> <p>214 How Clinicians Approach Withholding or Withdrawing Life-sustaining Treatment in Ethically Controversial Scenarios</p> <p>215 Early Versus Timely: Social Demographics of Patients Undergoing Withdrawal of Life-sustaining Therapy</p> <p>216 Palliative Care Engagement in Intensive Care Units: A Retrospective Analysis of Electronic Health Record Data</p> | <p>217 Themes Associated With Medical Futility in Intensive Care Unit Notes Within a Large Hospital System</p> <p>218 Forecasting Fate: Intensive Care Unit Clinicians Prognosticate Patients Requiring at Least 14 Days of Mechanical Ventilation</p> <p>219 Opioid Administration Practices Among Mechanically Ventilated Patients Who Transition to Comfort Focused Care</p> <p>220 Palliative Care Delivery in ICUs: A Closer Look at the Check-in Model</p> <p>221 Burnout Prevalence and Reduction in the Medical Intensive Care Unit: Baseline Data</p> <p>222 Patient and Family Communication in the Intensive Care Unit (ICU): Development and Usability Testing of the VoiceLove Mobile Phone App to Study Delirium Risk</p> <p>223 Implementation of Patient Blood Management System Reduces Unnecessary Red Blood Cell Transfusions and Reduces Healthcare Costs</p> |
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- BASIC • TRANSLATIONAL**
- RAPID POSTER DISCUSSION SESSIONS**
- C26 SMOKE, HEAT, AND HEALTH: LUNG DISEASE IN THE AGE OF CLIMATE CHANGE AND WILDFIRES**

**9:15 a.m. - 11:15 a.m. Moscone Center**

Room 301-302 (South Building, Level 3)

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| Viewing/Abstract Summaries | 9:15-10:00  |
| Discussion                 | 10:00-11:15 |

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| <p>401 Climate Change Contributions to US Wildfire Smoke PM<sub>2.5</sub> Mortality Between 2006-2020</p> <p>402 Wildfire Smoke-Driven PM<sub>2.5</sub> and Persistent Respiratory Symptoms Beyond the Acute Wildfire Period</p> <p>403 Comparing the Cardiopulmonary Health Implications of Wildfire vs. Non-wildfire PM<sub>2.5</sub> Particles in New York City</p> <p>404 Impact of Wildfire Smoke on COPD and Asthma Exacerbation Prevalence and Lung Function</p> |  |
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| <p>405 Wildfire Smoke Chemicals Accumulate in the Brain and Olfactory Bulb of Rats Following Intranasal Instillation</p> <p>406 Repeated Airway Exposure to the CO<sub>2</sub> Scrubbing Agent Monoethanolamine Causes Lung Injury</p> <p>407 Association Between Wildfire Smoke Exposure and Psychometric Health Measures: Findings From the Lovelace Smokers Cohort</p> <p>408 A Spatial Analysis of Wildfire Smoke, Air Pollution, and Asthma Disparities in San Francisco, California Using the Asthma Equity Explorer Tool</p> <p>409 Impact of Wildfire Smoke on Healthcare Utilization in a Single Quaternary Care Center in the Northeast United States</p> <p>410 The Impact of Time Scale on the Cost-Effectiveness of Air Cleaners for Reducing Exposure to Air Pollution From Wildfires</p> <p>411 Ambient Temperature Variability and Pulmonary Admissions</p> <p>412 Associations of Daily Air Temperature With Lung Function and Biomarkers of Inflammation and Oxidative Stress in Individuals With COPD</p> <p>413 Characteristics and Mortality of Patient With Non-Exertional Heat Related Illness in the United States</p> <p>414 Perinatal Exposure to Smoke From the 2018 Northern California Camp Fire Is Associated With Sex-dependent Weight Outcomes</p> | <p>102 Population-based Frequency and Functional Characterization of a Pathogenic ABCA3 Intronic Variant Associated With Lethal Neonatal RDS</p> <p>103 Spatial Transcriptomic Analysis of S-nitrosothiol Metabolic Genes in BPD and Tracheomalacia</p> <p>104 CFTR-IFIC Reclassification: When Cystic Fibrosis Transmembrane Conductance Regulator-related Metabolic Syndrome (CRMS) Gets a Makeover!</p> <p>105 Inflammation Is Associated With Poor Quality of Life in Pediatric Patients With Primary Ciliary Dyskinesia (PCD)</p> <p>106 Longitudinal Dynamics of Respiratory Microbiome Composition in Young Children Following New Tracheostomy Placement</p> <p>107 Childhood Asthma Biomarkers Derived From Plasma and Saliva Exosomal MiRNAs</p> <p>108 Spatial Transcriptomic Analysis of Lung Tissue From Infants With Neuroendocrine Cell Hyperplasia of Infancy</p> <p>109 Nasal Epithelial Expression of RNA Isoforms in Youth With T2-high and T2-low Asthma</p> <p>110 New Discoveries From the Evolving Inflammatory Childhood Interstitial Lung Disease (chILD) Cell Atlas</p> <p>111 The High Prevalence of Rare Pulmonary Diseases Among Patients With Severe Asthma</p> <p>112 White Blood Cell Transcriptomic Markers for T Helper 2 (T<sub>2</sub>)-high Asthma in Puerto Rican Youth</p> <p>113 Meta-transcriptomic Profiles in Nasal Epithelium and Asthma Endotypes in Youth</p> <p>114 Microbiome Signatures in Nasal Epithelium Linked to Lung Function Improvement in Cystic Fibrosis Patients on Trikafta</p> <p>115 Metabolomic Fingerprint of Bronchopulmonary Dysplasia in Extremely Premature Infants</p> <p>116 Validation of a Dried Blood Spot-based Assay for Detection of RSPH4A Founder Mutation in Primary Ciliary Dyskinesia: A Population-based Screening Tool for Puerto Rico</p> <p>117 International CCHS Secure Health-hub Advancing Research Efforts (SHARE) Registry: Analysis of Patient-Reported Symptoms by PHOX2B Genotype in Congenital Central Hypoventilation Syndrome (CCHS)</p> |
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### BASIC • TRANSLATIONAL

### POSTER DISCUSSION SESSION

## C27 GENETICS AND -OMICS TO PREDICT AND UNDERSTAND CHILDHOOD LUNG DISEASES

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

Moscone Center

Room 203-204 (South Building, Level 2)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

- 101 Functional Validation of Variants of Unknown Significance in COPA Syndrome

- 118 Overweight or Obesity and Endotypes of Asthma in Puerto Rican Youth
- 119 Comparative Transcriptome Analysis of BAL and Blood in Pediatric HCT Recipients
- 120 Role of Vitamin D Receptor Polymorphism in Acute Lower Respiratory Tract Infections in Children
- 121 Abrogation of VEGFR2 Signaling in Capillary-2 Endothelial Cells During Postnatal Development Impairs Cap2 Differentiation and Induces Lung Fibrosis
- 122 Inflammation-induced Epigenetic Imprinting in Neonatal Airway Basal Stem Cells and Its Relationship With RSV Susceptibility
- 123 Are Genetic Variants From the Asthma Gene ORMDL3 Associated With the Development of Bronchopulmonary Dysplasia in ELBW Infants?: A Pilot Study
- 124 MicroRNA-584-5p As a Key Modulator of Inhaled Corticosteroid Resistance in Asthma
- 804 Efficacy of Ethambutol Rechallenge in Patients With Prior Ethambutol-induced Optic Toxicity for the Treatment of Mycobacterium Avium Complex Pulmonary Disease
- 805 Is Watchful Waiting a Viable Strategy in Mycobacterium Avium Complex Pulmonary Disease? Insights From a Propensity-matched Cohort Study
- 806 Predictors of Prolonged Treatment in Patients With Drug-susceptible Pulmonary Tuberculosis in South Korea: A Multi-center Registry Analysis From Republic of Korea
- 807 Efficacy of Prolonged Treatment in Drug-susceptible Pulmonary Tuberculosis Patients With Cavities or Positive Sputum Culture at Two Months of Treatment: A Multi-center Registry Analysis From Republic of Korea
- 808 Neutrophil-to-Lymphocyte Ratio and Post-Tuberculosis Pulmonary Function: A Potential Marker for Reduced Function
- 809 Hepatotoxicity of Different Doses of Rifapentine in Patients Receiving 4-month Regimen for Drug-sensitive Tuberculosis: Findings From a Multicenter Randomized Controlled Study
- 810 Changes in Tuberculosis Blood RNA Signatures During the Short-course Treatment of Rifampicin-resistant Tuberculosis
- 811 A Systematic Review and Meta-analysis to Assess the Safety and Efficacy of Nebulised Colistin as an Adjunct for the Treatment of Ventilator Associated Pneumonia (VAP)
- 812 A Validated 4-gene Signature to Exclude Bacterial Etiology of Lower Respiratory Tract Infection
- 813 Conserved NF- $\kappa$ B and AP-1 Transcriptional Cooperation Within Mouse and Human Lung Epithelia Promotes Resistance Against Respiratory Pathogens
- 814 Pam2ODN Enhances RelA and cJun Binding at H3k27ac Accessible Sites in Lung Epithelium to Prevent Respiratory Infections
- 815 Association of the Q223R Leptin Receptor Polymorphism With Bacterial Pneumonia in the Michigan Genomics Initiative

## CLINICAL

## RAPID: ABSTRACT POSTER DISCUSSION

## C28 TB, NTM, AND PNEUMONIA: THE RESPIRATORY TRIO YOU DIDN'T INVITE TO THE PARTY

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

Moscone Center

Room 2022/2024 (West Building, Level 2)

Viewing/Abstract Summaries

9:15-10:00

Discussion

10:00-11:15

- 801 Aging and the Pathophysiology of Pulmonary Mycobacterium Avium Complex (MAC) Disease: The Role of SLPI
- 802 Programmed Cell Death-1 (PD-1) Pathway in Mycobacterium Abscessus Lung Disease: From Blood Biomarker Analysis to PD-1 Visualization in Lung Tissue and Infected Cell Treatment
- 803 Real-world Experience With Inhaled Liposomal Amikacin Suspension for Treatment of Nontuberculous Mycobacterial Pulmonary Disease

## BASIC • CLINICAL • TRANSLATIONAL

## POSTER DISCUSSION SESSION

**C29 READING BETWEEN THE LINES IN INTERSTITIAL LUNG DISEASE**

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

Moscone Center

Room 3009/3011 (West Building, Level 3)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

- 901 Characterization of Pulmonary Dysfunction in Children With Systemic Juvenile Idiopathic Arthritis Using Xe MRI
- 902 Deep Learning Identifies Patients at Risk of Rapid Radiologic Progression in Pulmonary Fibrosis
- 903 Functional Respiratory Imaging (FRI) Markers Correlate With Clinical Endpoints in a Phase 2 Study of Treprostinil Palmitil Inhalation Powder in Patients With Pulmonary Hypertension Associated With Interstitial Lung Disease (PH-ILD)
- 904 Quantitative Analysis of Computed Tomography Chest Predicts Phenotypes of Idiopathic Pulmonary Fibrosis and Pulmonary Hypertension
- 905 Association of Lung Computed Tomography High Attenuation Areas With Physiological Exercise Measures
- 906 Cathepsin K Aggravates Pulmonary Fibrosis Through Promoting Fibroblast Glutamine Metabolism and Collagen Synthesis
- 907 Assessing Reliability, Reproducibility, and Adherence of Home Spirometry in Patients With Idiopathic Pulmonary Fibrosis: A Korean Multicenter Prospective Study
- 908 ING-006 Modulation of GPR40 and GPR84: The Bright/Dark Side Targets in IPF Pathogenesis
- 909 Aged Murine Model of Repetitive Intratracheal Bleomycin Administration Mimics the Pathological Features of Usual Interstitial Pneumonia
- 910 Quantitative Characterization of Parenchymal CT Texture Patterns in Pulmonary Sarcoidosis

- 911 Prevalence and Functional Impact of Airway Disease in Patients With Systemic Sclerosis
- 912 Spatial Immunophenotyping of the Tumor Microenvironment in Pulmonary Lymphangioleiomyomatosis
- 913 Gender Disparities in ICU Outcomes Among Patients With Interstitial Lung Disease
- 914 DOCK2 Mediates Pleural Mesothelial Cell Migration Through Activating Rac1
- 915 Respiratory Stress That Recapitulates Cough Via Cinnamaldehyde Inhalation Worsens Bleomycin-induced IPF-like Injury in Ferrets
- 916 Race/Ethnicity Differences in Clinical Outcomes of Myositis-Associated Interstitial Lung Disease
- 917 Cardiopulmonary and Renal Effects in a Radiation-Induced Pulmonary Fibrosis Model: Insights Into Integrative Pathophysiology
- 918 Mechanodynamic Alveolar Epithelial-fibroblast Models Via the Flexcell to Study Mechanical-induced Inflammatory and Fibrotic Mechanisms in Lung Disease
- 919 Lung Volume Correction Increases Repeatability of  $^{129}\text{Xe}$  Gas Exchange MRI in IPF
- 920 Single-breath Fractional Ventilation Derived From  $^{129}\text{Xe}$  MRI: Repeatability in Idiopathic Pulmonary Fibrosis
- 921 Stiffness Measurements in Human Lung Slices Can Evaluate the Therapeutic and Preventive Potentials of Anti-fibrotic Drugs
- 922 Association Between Atherosclerosis and Post COVID-19 Lung Fibrosis
- 923 Fibroblasts Derived From Idiopathic Pulmonary Fibrosis (IPF) Patients Are Epigenetically Programmed to Induce Fibrogenic Responses in a Cell Autonomous Manner



**BASIC • CLINICAL • TRANSLATIONAL****POSTER DISCUSSION SESSION****C30 HYPOXIC HORIZONS: UNRAVELING EPIGENETICS, CARDIOMETABOLIC FINDINGS, AND MICROPLASTICS IN MURINE MODELS**

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

Moscone Center

Room 3022/3024 (West Building, Level 3)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

- 1001 Intermittent Hypoxia Induces Ovarian Dysfunction Via Epigenetic Changes in Senescence Pathways
- 1002 Intermittent Hypoxia Induces Epigenetic Changes and P16-mediated Senescence in Left Cardiac Ventricle and Aorta Which Are Associated With Vascular Dysfunction
- 1003 Metabolic Consequences of Chronic Exposure to Combined Intermittent Hypoxia and Sleep Fragmentation in Mice
- 1004 Cardiovascular Dysfunction Induced by Intermittent Hypoxia in Obstructive Sleep Apnea: Sexual Dimorphism and Influence of Diet
- 1005 Impact of Obesity and Intermittent Hypoxia on Metabolic and Behavioral Parameters in a Murine Diet-induced Obese OSA Model
- 1006 Mineralocorticoid Receptor Antagonism Improves Cardiovascular Outcomes in Diet-induced Obese Mice Exposed to Prolonged Intermittent Hypoxia Mimicking Sleep Apnea
- 1007 Acute Intermittent Hypoxia Worsens Microplastic Induced Dysglycemia
- 1008 Microplastic Exposure Worsens Glucose Intolerance Induced by Chronic Intermittent Hypoxia
- 1009 Brainstem Transcriptomic and Proteomic Networks Affected by Apolipoprotein A2 Expression in the Pause-Prone C57BL/6J Mouse

**BEHAVIORAL • CLINICAL • TRANSLATIONAL****POSTER DISCUSSION SESSION****C31 BREAKING THROUGH THE FOG: AI, IP, AND NOVEL INSIGHTS TO IMPROVE LUNG CANCER DIAGNOSIS AND MANAGEMENT**

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

Moscone Center

Room 3010/3012 (West Building, Level 3)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

- 501 Pilot Multireader Study of Next Generation Chest X-ray Tomosynthesis for the Detection of Lung Cancer
- 502 Role of Artificial Intelligence Enabled Chest X-ray Interpretation to Detect Lung Nodules in a Low-income Country
- 503 Utility of Artificial Intelligence in Detecting Incidental Lung Nodules
- 504 Safety and Efficacy of Bronchus-Blocked Ultrasound-Guided Percutaneous Transthoracic Needle Biopsy (BUS-PTNB) for Critically Ill Patients Under Invasive Mechanical Ventilation: A Prospective, Single-Arm Trial
- 505 Personalized Airway Stenting: Preliminary Outcomes of 3D Custom Y Stents for Malignant Central Airway Obstruction
- 506 High Diagnostic Yield From Digital Tomosynthesis-assisted Robotic Bronchoscopic Biopsy of Lung Nodules With Galaxy System™ TiLT+ Technology
- 507 Real-time Image Integration With Mobile 3D CBCT in Shape-sensing Robotic Bronchoscopy: Enhancing Diagnostic Yield and Procedural Precision
- 508 Comparative Analysis of Conventional Bronchoscopy and Robotic-assisted Bronchoscopy With Cryobiopsy for the Diagnosis of Pulmonary Lesions
- 509 Dynamic Cell Imaging as an Alternative to Rapid Onsite Evaluation in Robotic Bronchoscopy: A Comparative Study

- 510 Adequacy for Next Generation Sequencing in Endobronchial Ultrasound Guided Transbronchial Needle Aspiration (EBUS-BNA) Specimens vs. Liquid Biopsies in Patients With Non-small Cell Lung Cancer (NSCLC)
- 511 Next-Generation Sequencing With Liquid Biopsy Tests in Conjunction With Tissue Biopsy for Lung Cancer
- 512 Natural History of Atypical Histology in Pulmonary Biopsies Obtained Using Robotic-assisted Bronchoscopy
- 513 The Negative Predictive Value for Malignancy of Non-diagnostic Robotic Bronchoscopy Results in the Setting of Tool-in-Lesion Intraprocedural Cone Beam Imaging
- 514 Systemic Immune Response After Bronchoscopic Cryo-Immunotherapy
- 515 Modeling the Impact of Vascular Uptake on the Efficacy of Intratumoral Chemotherapeutic Gel Delivery Systems in Lung Cancer
- 516 Tumor Vessel Volume Ratio as a Predictive Marker for Bronchial Arterial Infusion Efficacy in Stage III Non-small Cell Lung Cancer
- 517 A New Method for Lung Cancer Thermal Ablation Using Iron-oxide Nanoparticles
- 518 Provider Bias in Decision Making About Treatment of Early-stage Lung Cancer With Stereotactic Body Radiation Therapy or Sub-lobar Resection
- 519 Racial Differences Among Smokers With Lung Cancer Undergoing Lobectomy Via Video-assisted Thoracoscopic Surgery in Urban Teaching Centers
- 520 Integrating Advanced Computational and Artificial Intelligence-based Methodologies for the Discovery of Ubiquitin Specific Protease 21 (USP21) Inhibitors as Lung Cancer Therapeutics: An FDA-approved and Investigational Drug Repurposing Study
- 521 Immunomodulator Use in Steroid Refractory Immune Checkpoint Inhibitor Pneumonitis
- 522 A Qualitative Analysis of Clinicians' Approaches to Pulmonary Nodule Evaluation and Management
- 523 Simulated Brachytherapy Treatments in Early-stage Lung Cancer Diagnosed With Robotic Bronchoscopy Compared to Clinical Stereotactic Body Radiation Therapy

- 524 Impact of Robotic-Assisted Bronchoscopy With Integrated Cone-Beam CT on Stage Shift in Peripheral Pulmonary Lesions at a Lung Cancer Centre

## CLINICAL

## THEMATIC POSTER SESSION

### C32 CASE REPORTS: ASTHMA/COPD TREATMENT AND DISEASE PROGRESSION

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

Moscone Center

Area K, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1205 Benralizumab for Life-threatening Exacerbations of Eosinophilic Asthma: A Case Series
- P1206 Utilization of Dupilumab for Management of Graft-versus-Host Disease Associated Bronchiolitis Obliterans Syndrome
- P1207 Systemic Granulomatous Disease in COVID With LRBA Deficiency: Long-term Management Strategies
- P1208 Mutations of the COPA Gene: A New Entity With an Expanding Phenotype
- P1209 Asthma Complicated by Mycoplasma Pneumoniae: A Challenging Clinical Intersection
- P1210 Nivolumab Induced Diabetic Ketoacidosis
- P1211 Severe Persistent COVID in Setting of Ocrelizumab-Induced Hypogammaglobulinemia
- P1212 The Utilization of Glucagon in Refractory Anaphylactic Shock in a Patient on  $\beta$ -blockers
- P1213 Novel Use of Home Spirometry for Steroid Tapering in Organizing Pneumonia: A Case Study
- P1214 Acute Hypersensitivity Pneumonitis as a Sequela of COVID-19 Pneumonia
- P1215 Spore Wars: Allergic Bronchopulmonary Aspergillosis Versus Biologics
- P1216 Multidisciplinary Diagnosis and Treatment of Loeys-Dietz Syndrome Type 3: A Case Report

- P1217** A Shocking Contrast: Anaphylaxis Following Lumason Injection
- P1218** Chronic Eosinophilic Pneumonia With Atypical Endobronchial Involvement in the Absence of Asthma: A Rare Case Report
- P1219** Unmasking of Eosinophilic Granulomatosis With Polyangiitis Following Mepolizumab Withdrawal
- P1220** When Eosinophilic Granulomatosis With Polyangiitis (EGPA) Goes Large: A Rare Presentation of EGPA With Isolated Aortitis
- P1221** When Eosinophilic Asthma Isn't the Answer: Uncovering Loeffler's Syndrome Across Diverse U.S. Populations
- P1222** Allergic Bronchopulmonary Aspergillosis and Solitary Cavitary Lesion: An Unusual Association
- P1223** Unmasking an Uncommon Complication of a Common Drug: A Case of Severe Angioedema Post tPA
- P1224** A Toothache Unveils The Unexpected: The Hidden EGPA Behind Severe Asthma
- P1225** The Culprit Was Under the Nose: A Refractory Case of Chronic Sinusitis With Polyposis Due to *P. Aeruginosa* Colonization
- P1226** An Invisible Flare: Isolated Gastrointestinal Symptoms in Type 1 Hereditary Angioedema
- P1227** Allergic Reaction to Diclofenac Inducing Takotsubo Cardiomyopathy: A Rare Trigger of Stress-induced Myocardial Dysfunction
- P1228** Insights From Case Series on Asthma-COPD Overlap (ACO) as an Independent Entity
- P1229** A Case Report of Allergic Bronchopulmonary Mycosis Caused by *Alternaria Alternata* in Colonization of *Aspergillus* With 5-year Follow Up
- P1230** The Dress Code Violation: A Cloak of Oxacillin's Complication and Unwitting Induction of the Dress Syndrome
- P1231** Non-asthmatic Eosinophilic Bronchitis
- P1232** Drug Reaction With Eosinophilia and Systemic Symptoms With Anti-tuberculosis Medication in a 44-year-old Filipino Woman With Recurrence on Reintroduction: A Case Report
- P1233** Steroid Is the Mysterious Drug
- P1234** Anaphylactic Shock Causing Myocarditis - A Rare Case

- P1235** Immune Thrombocytopenic Purpura: A Case of Risperidone-induced Immune Thrombocytopenia Purpura
- P1236** Clevidipine-induced Angioedema in a Patient With Air Embolism: A Case Report
- P1237** Complex ICU Management of Eosinophilic Granulomatosis With Polyangiitis

## CLINICAL

## THEMATIC POSTER SESSION

### C33 LATE BREAKING AND LUNG SHAKING ABSTRACTS

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

Moscone Center

Area F, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P655** COPD-HELP: A Randomised Controlled Trial of Mepolizumab Initiated Following Admission to Hospital for a Severe Exacerbation of Eosinophilic COPD
- P656** Efficacy of Tezepelumab on Upper and Lower Airway Outcomes in Adults With Severe, Uncontrolled Chronic Rhinosinusitis With Nasal Polyps in Patients With and Without Comorbid Asthma: Results From the Phase 3 Waypoint Study
- P657** Decarbonizing Respiratory Care: The Impact of a Low-carbon Salbutamol Metered-dose Inhaler
- P658** Efficacy of Tezepelumab in Adults With Severe, Uncontrolled Asthma Across Multiple Exacerbation Trigger Types: The Phase 3 Direction Study
- P659** Use of Systemic Corticosteroids and Antibiotics in Patients With Chronic Obstructive Pulmonary Disease (COPD) and Type 2 Inflammation Receiving Dupilumab
- P660** Stability of Blood Eosinophil Counts in Patients With Chronic Obstructive Pulmonary Disease (COPD) and Type 2 Inflammation in the BOREAS and NOTUS Trials

- P661** Impact of Biologic Initiation on New-onset of Corticosteroid-related Adverse Effects in Patients With Severe Asthma
- P662** Long-Term Protection by Mesenchymal Stromal Cell-Derived Extracellular Vesicles in a Double-Hit Model of Neonatal Hyperoxia and House Dust Mite-Allergen Challenges
- P663** Interactive Effects of Maternal Vitamin D Binding Protein, Total Vitamin D, and Free Vitamin D Levels on Childhood Asthma in the VDAART Trial
- P664** Development of a Novel Tool for the Evaluation of Asthma Endotypes
- P665** Association Between Baseline Fractional Exhaled Nitric Oxide and Mucus Response in Patients With Uncontrolled Moderate-To-Severe Asthma Treated With Dupilumab in the Vestige Study
- P666** High Exacerbators in Cystic Fibrosis Have Sex-Specific Neutrophil Transcriptomes
- P667** Comparative Effectiveness of Asthma Monoclonal Antibody Therapy in Adults: An EHR-based Propensity-Score-Matched Retrospective Cohort Study
- P668** Genetic Variants Underlying Protein Levels of Soluble Triggering Receptor on Myeloid Cells 1 in Children With Asthma
- P669** Mepolizumab in Patients with COPD: Results from the MATINEE Phase III Randomized Controlled Trial
- P670** Mechanistic Insights Into Human Immunodeficiency Virus (HIV)-Associated Pulmonary Hypertension: Influence of Time and HIV Nef Sequence Variations in Nitric Oxide Synthesis and Inflammatory Cytokine Production in Pulmonary Vascular Cells
- P671** Mepolizumab in patients with COPD: Results from the MATINEE Phase III Randomized Controlled Trial
- P672** A Cohort of Bronchiectasis and ANCA-associated Vasculitis (Suspected or Confirmed)
- P673** Tezepelumab: Real-life Experience in Specialized Severe Asthma Units in Northern Spain

**BEHAVIORAL • CLINICAL**
**THEMATIC POSTER SESSION**
**C34 ADVANCES IN LUNG CANCER SCREENING AND TREATMENT**
**9:15 a.m. - 4:15 p.m.**
**Moscone Center**
**Area B, Hall F (North Building, Exhibition Level)**
**Viewing: Posters will be on display for entire session**
**Discussion: 11:30-12:30** facilitators to foster group discussion with the authors and attendees

**12:30-1:15** authors to interact with the attendees

- P125** Evaluating Patient-level Determinants of Lung Cancer Screening Completion
- P126** The Use of Cardiopulmonary Exercise Testing in the Pre-operative Evaluation of Lobectomy Patients Within the Veterans Health Administration
- P127** Two-way Learning Approach to Increase Lung Cancer Screening Education in the Primary Care Setting
- P128** EMR Documentation Does Not Reflect Guideline Adherence in Lung Cancer Screening Cohort
- P129** Consideration of Risk Factors of Family History of Lung Cancer or Personal History of Other Cancers for Lung Cancer Screening in Those Who Have Never Smoked
- P130** Demographic and Clinical Characteristics of Patients Screened for Lung Cancer at Zuckerberg San Francisco General Hospital
- P131** Scanning for Success: Improving LDCT Utilization in Lung Cancer Screening in a Public Safety Net Hospital

**BEHAVIORAL • CLINICAL**
**THEMATIC POSTER SESSION**
**C35 PROGRESS IN CRITICAL CARE MEDICINE**
**9:15 a.m. - 4:15 p.m.**
**Moscone Center**
**Area E, Hall F (North Building, Exhibition Level)**
**Viewing: Posters will be on display for entire session**
**Discussion: 11:30-12:30** facilitators to foster group discussion with the authors and attendees

**12:30-1:15** authors to interact with the attendees



- P519** When Clinicians Insert Themselves Into the Patient Narrative: Factors Associated With Author Pronoun Use in Critically Ill Patient Notes
- P520** An Open-label Pilot Study of an Emotional Support Intervention for Families of Critically Ill Patients
- P521** “It’s Not Your White Gown That’s Important”: Acute Respiratory Failure Survivors’ Experience With Feeling Heard and Understood
- P522** Characteristics and Clinical Course of Hospitalized Patients Receiving Benzodiazepines, Phenobarbital, or Both Treatments for Alcohol Withdrawal Syndrome in a University Health System: A Retrospective Case Series and Qualitative Study
- P523** Month-to-Month Burden of EHR Alerts Fired for Critically Ill Patients
- P524** Evaluation of User Attitudes Affecting Adoption of a Machine Learning Decision Support Tool for Ventilator Weaning
- P525** Medical Students in the ICU: Is Two Weeks Enough?
- P526** Impact of the COVID-19 Pandemic on the Care of Patients With Do-Not-Resuscitate Orders
- P527** Mood and Psychotic Disorders as Prognostic Factors for Sepsis and Septic Shock Mortality: A Meta-Analysis
- P528** Facilitators and Barriers to Delivery of a Geriatrics Bundled Intervention in Older ICU Patients
- P529** Discordance and Similarities in Provider Experience and Delivered Care for Patients With Sepsis at a Hospital in Western Kenya
- P530** A Fellow-led Orientation to Mitigate Microaggressions in the Intensive Care Unit
- P531** Sex-based Disparities in Class III Antiarrhythmic Drug-induced QT Prolongation: A Pharmacovigilance Analysis of the FDA Adverse Event Reporting System
- P532** Current Approaches to Gastroesophageal Balloon Tamponade Education in Critical Care Fellowships: Findings From a National Survey
- P533** Optimizing Rapid Response Systems: A Quality Improvement Project to Reduce Repetitive Activations
- P534** Experiences of COVID-19 Intensive Care Unit Physicians and Hospital Administrators: Qualitative Findings From Focus Groups
- P535** Bridging Knowledge and Confidence Gaps in Non-invasive Ventilation: A Simulation-based Training Study for Internal Medicine Residents
- P536** Comparative Analysis Hospital Admissions for Cardiac Arrest: Teaching Versus Non-teaching Hospitals
- P537** Relationship Between NIV Telemonitoring Data and Patient-reported Outcomes (S<sup>3</sup>NIV) in the First Six Months of Treatment: The INOVAL-1 Study
- P538** Differences in Patient Characteristics According to a Patient-Reported Outcome Score (S<sup>3</sup>NIV) in the First Month Following Initiation of Non-invasive Home Ventilation: The Inoval-1 Study
- P539** CPAP/BiPAP Administration and Cardiac Arrest Events in Hospitalized OSA/OHS Patients
- P540** A Crisis Unresolved: Why Suicide Mortality Continues to Rise Despite Intervention
- P541** Proactive Patient Management: Evaluating the Role of Clinical Deterioration Index (CDI) in Deterioration Detection and Reduction of Rapid Response Team (RRT) Utilization
- P542** Disparity in Employment Opportunities for Critical Care Physicians From Non-pulmonary Training Backgrounds: A Cross-sectional Study
- P543** Novel Airway Curriculum Using Video Recorded Endotracheal Intubations

**BEHAVIORAL • CLINICAL • TRANSLATIONAL****THEMATIC POSTER SESSION****C36 ICU PRACTICE MAKES PERFECT: POLICIES, PHARMACOLOGY, AND EDUCATION**

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

Moscone Center

Area E, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

**P545 CEDAR General/Implementation**

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| <p><b>P546</b> Call the Sepsis Alert: A Retrospective Analysis of Rapid Responses</p> <p><b>P547</b> Formative Perceptions on a Structured Transfer Model for Inter-ICU Transfer in a Large Health System</p> <p><b>P548</b> ICU Transfer Through the COVID-19 Pandemic: Characterizing an Informal ICU Transfer Network From 2018 Through 2024</p> <p><b>P549</b> Association Between the Time to ICU Admission, Location, and Severity of Illness Scores With Mortality Among Critically-Ill Patients in a Tertiary Hospital in Manila, Philippines - A Retrospective Study</p> <p><b>P550</b> Seamless Shifts: Optimizing Patient Handoffs in a Mixed Medical-Surgical Intensive Care Unit at a Tertiary Care Hospital</p> <p><b>P551</b> Bridging the Gap: Improving the ICU to Ward Transfer Process</p> <p><b>P552</b> From Local to Global: The First International Implementation of the ICU-pause Structured ICU-to-Ward Transfer Tool in India</p> <p><b>P553</b> Unveiling the Critical Role of Respiratory Therapists: A Year-Long Study of Advanced ICU Procedures in Saudi Arabia</p> <p><b>P554</b> Wearable Electronic Devices in the Intensive Care Units</p> <p><b>P555</b> Burden of Polypharmacy in the ED: A Breakdown of the Numbers</p> <p><b>P556</b> Population-specific Risk of Intensive Care Patient Pharmacogenomics-related Inaccurate Drug Dosing</p> <p><b>P557</b> Safety of Peripheral Venous Vasopressor Administration - A Retrospective Study</p> <p><b>P558</b> Peripheral Vasopressor Administration: An Observational Study of One Month of Practice in a Tertiary Care Intensive Care Unit</p> <p><b>P559</b> Outcomes of Implementation of Peripheral Pressor Protocol in a Closed Medical Intensive Care Unit</p> <p><b>P560</b> Off Target: Characterizing Post-COVID Sedation Practices in Medical Intensive Care Units</p> <p><b>P561</b> Trends in Ketamine Use in Mechanically Ventilated Patients During the COVID-19 Pandemic</p> | <p><b>P562</b> Stress Ulcer Prophylaxis Using Proton Pump Inhibitors or Placebo in Mechanically Ventilated Patients: A Systematic Review and Meta-analysis</p> <p><b>P563</b> Association Between Lidocaine Infusion and Acute Renal Failure Requiring Dialysis: A Retrospective Propensity Score-matched Study</p> <p><b>P564</b> Airway Management Teachings in Latin America</p> <p><b>P565</b> An Airway Curriculum in Adult Pulmonary and Critical Care Fellowship Program: Fellows' Satisfaction Over Four Years</p> <p><b>P566</b> Evaluation of Patient-centered Outcomes With Ketamine Infusion in the ICU: A Quality Improvement Project</p> <p><b>P567</b> High Fidelity Simulation Bootcamp for Incoming Critical Care Medicine Fellows: Complex Airway Management With Bronchoscopy and Endobronchial Blocker</p> <p><b>P568</b> Persistence and Completion Rate of a Year-long Mechanical Ventilation Preceptorial Education Course Among Critical Care Fellows and Attending Intensivists (PIPE Study)</p> <p><b>P569</b> Impact of a Non-invasive Ventilation Session on Intern Knowledge and Clinical Application: A Multisite Assessment Within an Internal Medicine Residency Program</p> <p><b>P570</b> A Peer-Led Rapid Response Curriculum Improves Confidence and Clinical Decision Making Among Internal Medicine Residents</p> <p><b>P571</b> Trainee Involvement and Outcomes in Patients With Rapid Response Activations</p> <p><b>P572</b> Enhancing Intern Leadership of Inpatient Emergencies: Evaluating the Impact of a Seminar Addressing Team Dynamics</p> <p><b>P573</b> Boosting the Confidence of the Code Leaders of Tomorrow - A Quality Improvement Project</p> <p><b>P574</b> Building a Strong Start for New PCCM Fellows: A Curriculum for Success</p> <p><b>P575</b> Continuing Education During the Brazilian Smart ICU Project</p> <p><b>P576</b> Critical Exposure: The Role of Medical School Intensive Care Rotations</p> <p><b>P577</b> Strength in Numbers: Improving Trainee Feedback of Faculty</p> |
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**P578** Implementing Simulated Root Cause Analysis Training to Enhance Internal Medicine Specialists' Fellows' Confidence in Patient Safety Reporting

**P579** Critical Care, Critical Moments: Mortality Insights From the ICU

**P580** Reducing Length of Stay in Underserved Communities: Evaluating the Impact of Telemedicine Intensive Care Unit (Tele-ICU) in Safety-Net Hospitals

**P581** When Counting ICU Readmissions, Definitions Matter

**P582** Mapping Success: The Role of Geographic Location in the Effectiveness of Rapid Response Systems

**P583** Ultrasound-guided Peripheral IV Training to Reduce Central Line Use in the ICU

**P473** Comparison of Electrical Impedance Tomography With Transpulmonary Monitoring and a Pressure-volume Tool to Assess Optimal Positive Expiratory Pressure

**P474** The Impact of Early Intubation in Pediatric Acute Respiratory Distress Syndrome for Children With Malignancy

**P475** Novel Compounds Targeting the Mitogen-activated Protein Kinase (MAPK)-activated Protein Kinase-2 (MK2) Binding Site in P38alpha MAPK Exert Distinct Anti-inflammatory Effects on Gene Expression in TNFalpha-stimulated Endothelial Cells

**P476** Novel Compounds Targeting the Mitogen-activated Protein Kinase (MAPK)-activated Protein Kinase-2 (MK2) Binding Site in P38alpha MAPK Exhibit Distinct Biological Effect Profiles

**P477** Intensive Care Unit Level Variability in Prone Positioning for Acute Respiratory Distress Syndrome Within a Large Academic Health System

**P478** Baseline Ventilator Settings Predict CRRT Requirement and Mortality in ARDS

**P479** Neurotrauma Biomarkers in Patients With Acute Respiratory Distress Syndrome

**P480** Outcomes of Mechanical Ventilation in Patients With Lung Cancer and ARDS: A Nationwide Analysis

**P481** Sex Based Disparities in Mechanical Ventilation for ARDS Patients: A Focus on Lung Cancer Comorbidity

**P482** Soluble Receptor for Advanced Glycation End-Products as a Biomarker for Acute Respiratory Distress Syndrome in Intensive Care Units: A Meta-Analysis and Systematic Review

**P483** The Dimethyl-Methylene Blue Assay Rapidly Detects Circulating Sulfated Glycosaminoglycans in Children With Acute Respiratory Failure

**P484** Predictors Factors of Mortality Related to Prone Positioning Among Individuals With Moderate to Severe ARDS Due to COVID-19: A Multicenter Retrospective Study

**P485** Pulmonary Gangrene Among COVID-19 Patients: A National Analysis of a Rare, Yet Dangerous Complication

## BASIC • CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

### **C37** ADVANCING ARDS SCIENCE: FROM THE BENCH TO THE BEDSIDE

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

Moscone Center

Area D, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

**P469** Pharmacokinetics, Pharmacodynamics and Safety of GEN-1124, a Next-generation Non-catalytic p38α:mk2 Dual Signal Modulator in Phase 1 Study With Endothelial Stabilizing, Anti-inflammatory, and Lung-protective Activities for the Treatment of ARDS

**P470** Association of Obesity With Mortality Among Patients With Acute Respiratory Distress Syndrome (ARDS): A Systematic Review and Meta-analysis

**P471** Development of a Training Framework for Radiographic Assessment of Lung Edema (RALE) Scoring and Assessment of Inter-rater Reliability in Acute Respiratory Failure

**P472** Halfway to ARDS?: Progression and Outcomes of Unilateral Infiltrates in Acute Hypoxic Respiratory Failure

- P486** Acute Exacerbation of Interstitial Lung Disease Is Associated With Significantly Increased Mortality Compared to Acute Respiratory Distress Syndrome Despite Lower Systemic Inflammation
- P487** Differences in Radiographic Interpretation in Recognized and Unrecognized Acute Respiratory Distress Syndrome Identified Using Natural Language Processing
- P488** Determining the Impact of Human Immunodeficiency Virus (HIV) on the Severity of COVID-19 Infection: 2020-2021 Nationwide Analysis
- P489** Glycocalyx Shedding Product Sydecin-1 as a Predictor of Increased Lung Vascular Permeability and Outcome in Patients With Neurogenic Pulmonary Edema After Subarachnoid Hemorrhage
- P490** The Association of Type 2 Diabetes Mellitus (T2DM) and Hypertension (HTN) With Mortality Among Patients With Acute Respiratory Distress Syndrome (ARDS): A Systematic Review and Meta-analysis
- P491** Prognostic Factors and Mortality in Acute Respiratory Distress Syndrome Among Cancer Patients in Intensive Care: A Retrospective Analysis
- P492** A Substantial Portion of Patients With Acute Hypoxemic Respiratory Failure Experience Rapid Resolution of Hypoxemia
- P493** A Comparison of Fluid Resuscitation Strategies in Metabolic Syndrome: A Secondary Analysis of the Fluids and Catheters Treatment Trial (FACTT)
- P494** Alpha-1 Antitrypsin - A Prognostic Factor in Acute Respiratory Distress Syndrome
- P495** Identification of Longitudinal Subphenotypes in Acute Respiratory Distress Syndrome and Guiding Value for Prognostic Prediction and Clinical Intervention
- P496** Determining the Impact of Chronic Kidney Disease (CKD) on the Severity of COVID-19 Infection: 2020-2021 Nationwide Analysis
- P497** Clinical Characteristics of COVID-19 Patients Who Received Ventilator Management During the Omicron Variant Period in a Tertiary Hospital in Japan
- P498** Invasive Aspergillosis With COVID-19 in Intensive Care - A Retrospective Cohort Study
- P499** Obesity and Mortality in Patients With Acute Respiratory Distress Syndrome (ARDS)
- P500** Restoration of Surfactant Depletion and Dysfunction in a Murine Influenza Model of ARDS
- P501** Surfactant Supplementation With Synthetic Mixture of Phospholipids and Synthetic Surfactant Protein B Analog in Murine Influenza
- P502** Mechanical Power Distribution and Endothelial Injury in Mechanically Ventilated Large Animal Surfactant-depleted Lungs
- P503** A Novel and Clinically Relevant Model of Maternal ARDS to Understand Critical Maternal Fetal Interactions
- P504** MicroRNA-Based Therapy as a Potential Treatment for Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Induced Acute Respiratory Distress Syndrome (ARDS)
- P505** A Scoping Review of Experimental Acute Lung Injury in Preclinical Settings: A Call to Improve Methodologies for Enhanced Translatability
- P506** Unveiling the Role of Pulmonary Inflammatory Biofluids in Propagating Early Acute Lung Injury
- P507** Development of a Parsimonious Model to Classify Inflammatory Phenotypes in a Mouse Pneumonia Model
- P508** Differential Correlation Network Analysis Illustrates Novel Biomarker Interactions Underlying Hyperinflammation in Pediatric ARDS
- P509** The Association Between Trophic vs Full Enteral Feeding and Ventilatory Ratio in Patients With ARDS

## CLINICAL

## THEMATIC POSTER SESSION

### C38 ICU ARTIFICIAL INTELLIGENCE: LEARNING FROM MACHINES

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

Moscone Center

Area E, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees



- P585 Evaluating Large Language Models for Identifying Ranked Causes of Death in Critically Ill Adults
- P586 Infection Specific Versus General Early Warning Scores for Predicting Sepsis on a Medical-Surgical Ward: A Multicenter Analysis
- P587 Analyzing the Efficacy of Sepsis Alert Tools in Determining Postoperative Sepsis
- P588 Multiscale Complexity Analysis for Vasopressor Treatment Effect Among Sepsis Patients
- P589 Automated Screening of Electronic Medical Records to Detect the Next Pandemic
- P590 Sources of Bias in AI Models: Variation in Sepsis Monitoring: Lactate Measurement in the ICU
- P591 Machine Learning-Based Prediction of Clinical Improvement in COVID-19 Pneumonia Patients at Hospital Admission: A Secondary Analysis of a Randomized Clinical Trial
- P592 Utilizing Artificial Intelligence for Enhanced Interpretation of Endotracheal Tube Position in Chest Radiographs
- P593 Identifying Acute Respiratory Distress Syndrome With Structured Clinical Data Using Machine Learning
- P594 Robust Approaches for Deep Learning for Chest X-ray Assessment Using Synthetically Generated Illness
- P595 Lung Ultrasound-based Artificial Intelligence Prediction of Congestive Heart Failure Readmission
- P596 Brains vs Bytes: Who Predicts Mortality Better in Patients With Acute Kidney Injury on Continuous Renal Replacement Therapy - Clinicians or Artificial Intelligence?
- P597 Dynamic Changes in Renal Angina Index for Predicting Acute Kidney Injury in Septic Shock
- P598 Development and Nested Cross-Validation of Explainable Machine-Learning Models for Predicting the Risk of Propofol-Associated Hypertriglyceridemia in Critically-Ill, Mechanically-Ventilated Patients
- P599 A Temporal Deep Learning Algorithm for Predicting Extubation Failures in Critical Care Patients
- P600 Speaking Common Longitudinal ICU Data Format (CLIF): A Large Language Model for Critical Care Phenotyping

## CLINICAL

## THEMATIC POSTER SESSION

### C39 ENDO THE LINE: METABOLIC AND ENDOCRINE EMERGENCIES IN THE ICU

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

Moscone Center

Area D, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P369 Silent Slowdown: Unmasking Myxedema Coma in an Elderly Patient
- P370 When the Sugars Are High, Consider the ICI: A Case of Immune Checkpoint Inhibitor-induced Diabetic Ketoacidosis
- P371 A Deadly Diet: Prolonged Parenteral Nutrition Leading to Liver Failure
- P372 Management of Euglycemic Diabetic Ketoacidosis in the Intensive Care Unit: Risk Factors and New Consensus Guidelines
- P373 A Case of Mistaken Identity: Thyroid Storm Masquerading as Sepsis in a High-risk Patient
- P374 The Slow Unwind: The Critical Constipation
- P375 Haywire Hormones: A Case of Critical Ovarian Hyperstimulation Syndrome
- P376 Diagnostic Challenges of Secondary Hypopituitarism Post-Coronary Artery Bypass Grafting (CABG)
- P377 Hypokalemic Periodic Paralysis After Steroids Initiation
- P378 Starvation Ketoacidosis Post-Bariatric Surgery
- P379 Acute Respiratory Distress Syndrome Requiring VV ECMO - A Rare Complication of Severe Diabetic Ketoacidosis
- P380 The Role of Pre-anesthesia Testing in Identifying Risk for Delayed Gastric Emptying and Aspiration: A Case Report
- P381 Masked Myocardial Mystery: Pseudo-infarct Pattern in Diabetic Ketoacidosis

- P382** Unmasking Brash Syndrome: A Complex Case of Brash at the Intersection of End Stage Renal Disease and Cirrhosis
- P383** Hashimoto Heartbreak: The Silent Squeeze of Autoimmune Hypothyroidism
- P384** Unmasking the Risks: Severe Hyponatremia From Glucagon-Like Peptide-1 (GLP-1) Agonist Therapy
- P385** Clinical Challenge: Managing Euglycemic Diabetic Ketoacidosis in a Post-Whipple Procedure Patient on SGLT-2 Inhibitors and GLP-1 Agonist
- P386** The Hidden Consequence: Myxedema Coma Induced by Long-term Low-dose Amiodarone
- P387** Severe Hypoglycemia and High Anion Gap Metabolic Acidosis Due to Severe Type B Lactic Acidosis as a Metabolic Decompensation of Glycogen Storage Disease Type 1a (Von Gierke Disease)
- P388** Syndrome of Inappropriate ADH Secretion (SIADH) in the Setting of Varicella Zoster Infection Exacerbated by Acyclovir
- P389** A Rare Case of Catecholamine-induced Tetany and Novel Approach for Management
- P390** Unwitnessed Fall and Altered Mental Status in an Elderly Female: A Silent Descent Into Myxedema Coma With Fatal Cardiorespiratory Failure
- P391** The Salty Sodium Dilutional Dilemma: The Management of Severe Symptomatic Hyponatremia
- P392** A Case Series of Falsely Elevated Serum Lactate in Patients Receiving Ringer Lactate
- P393** Don't Get Salty, Baby! A Rare Case of Geller Syndrome
- P394** The Ripple Effect: How Severe Hypothyroidism Led to a Surgical Emergency
- P395** Unraveling the Cycle: Extreme Alkalosis Triggered by Cyclic Vomiting Syndrome
- P396** Unanticipated Metabolic Emergency as a Consequence of Akt Pathway Inhibition
- P397** When Normonatremia Isn't Safe: Late Onset Osmotic Demyelination Causing Locked-In Syndrome in Alcoholic Cirrhosis with Wernicke's
- P398** From Hyperthyroidism to Hypomobility: A Case of Thyrotoxic Periodic Paralysis
- P399** Severe Hyponatremia in Obstructive Uropathy With Post Obstructive Diuresis
- P400** A Cautionary Tale of Sodium Overcorrection: From Severe Hyponatremia to Neurological Complications
- P401** LABS DO LIE: The Case of the Missing Bicarbonate
- P402** Unmasking Lithium: The Thyroid Storm That Caught Us Off Guard
- P403** ICU Bread and Butter: A Case Report of DKA With Severe Hyperlipidemia
- P404** A Case of Metformin-Associated Lactic Acidosis Secondary to Obstructive Acute Kidney Injury
- P405** Central Diabetes Insipidus Precipitated by Vasopressin Withdrawal
- P406** Metformin-associated Lactic Acidosis: A Critical and Dangerous Form of Metformin Toxicity
- P407** Early Clinical Suspicion and Hemodialysis as Life-saving Interventions in Metformin-associated Lactic Acidosis: A Case Report
- P408** Myxedema Coma in the Setting of Respiratory Syncytial Virus Pneumonia
- P409** Brugada Pattern Induced by Acute Hyponatremia
- P410** Hyperthyroid Induced Pericarditis
- P411** Carboplatin Induced Grade 4 Hyponatremia Requiring Intubation
- P412** A Case Report: Challenges in Diagnosing Symptomatic Hypocalcemia in a Mechanically Ventilated Patient With History of Epilepsy and Chronic Obstructive Pulmonary Disease
- P413** A Chilling-Discovery: Uremia-Induced Hypothermia
- P414** Asymptomatic Severe Hypothyroidism Associated Large Pericardial Effusion: A Case Report
- P415** Recognizing Complex Post-operative Endocrinopathies in a Patient With Sellar Meningioma Surgery: A Case Report
- P416** A Suspected Case of Secondary Hyperaldosteronism Due to Volume Contraction
- P417** Breaking Down the Brash Cycle
- P418** Thyroid Storm Complicating COVID-19 Pneumonia With Rapidly Progressing Respiratory and Cardiovascular Failure: A Case Report

- P419 Who Took the Cookie From the Cookie Jar: Extreme Hyperglycemia and Insulin Resistance Heraldng Acute Decompensation in a Critically Ill Septic Diabetic Patient
- P420 Hashimoto's Thyrotoxicosis Induced Tachycardic Cardiomyopathy
- P421 Grief, Glucose, and a Heart That Said 'Nope!'

### CLINICAL

### THEMATIC POSTER SESSION

## C40 CURVES, CRISES, AND SURPRISES: A POTPOURRI OF PERPLEXING CASES

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

Moscone Center

Area E, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P602 Dead Space in the Liver - Recognizing and Treating Emphysematous Hepatitis
- P603 Massive Hepatic Necrosis in HELLP Syndrome
- P604 Chronic Ketamine Abuse Associated With Severe Pyelonephritis and Septic Shock Requiring Bilateral Nephrostomy Tubes: A Case Report
- P605 Spontaneous Clostridium Perfringens Myonecrosis: A Case Report
- P606 Plasmapheresis Saves the Day: A Therapeutic Approach in Severe Diffuse Alveolar Hemorrhage Associated With Granulomatosis With Polyangiitis
- P607 Catastrophe of Exercise: A Rare Complication of a Rarer Disease
- P608 The Abscess Doesn't Fall Too Far From Biliary Tree - A Unique Case Presentation
- P609 More Than Meets the Scan: An Unexpected Journey of a CT Lung Screen
- P610 When Dialysis Took a Viscous Turn to the Intensive Care Unit - A Case Report
- P611 Navigating the Gas Traps: Conservative Triumph in Gastric Pneumatosis and Pneumatosis Portalis
- P612 Navigating the Uncommon: Gastric Perforation as a Complication of Granulomatosis With Polyangiitis

- P613 Boerhaave Syndrome From Chronic Emesis and Chronic Substance Abuse
- P614 Double Trouble Heartbreak
- P615 Ruptured Realities: A Swallowing Saga Gone Awry
- P616 A Rare Cause of Abdominal Pain - Spontaneous Isolated Celiac Artery Dissection (SICAD)
- P617 Unexpected Consequences: Acute Aortic Dissection After Masturbation
- P618 Death Crystals: Sign of Impending Doom
- P619 Hemodynamic Collapse in Acute Pancreatitis: Diagnostic Workup Leading to Discovery of Pancreatic Adenocarcinoma and Splenic Rupture
- P620 To Drain or Not to Drain the Liquefactive Omentum
- P621 Acute Respiratory Failure Due to Spontaneous Cervical Spine Epidural Hematoma in the Setting of Decompensated Cirrhosis
- P622 Rectus Sheath Hematoma-Induced Abdominal Compartment Syndrome: A Case Report
- P623 Acute Fatty Liver of Pregnancy Leading to Recurrent Cardiac Arrests in 19 Year Old Primigavida
- P624 Acute Pancreatitis With Normal Lipase in a Critically Ill Patient With Hepatic Cirrhosis
- P625 Mirizzi Syndrome Presenting as Ascending Cholangitis: A Overview of a Gastrointestinal Emergency
- P626 Eosinophilic Systemic Drug Reaction With Multidrug Resistant Mycobacterium Therapy
- P627 Elevated Procalcitonin as a Marker for Acute Appendicitis in an Immunosuppressed Patient Waitlisted for Lung Transplant
- P628 Shock- No Cap
- P629 When Uti Worries Break The Heart
- P630 An Atypical Presentation of Systemic Lupus Erythematosus With Negative Biomarkers: A Diagnostic Challenge
- P631 A Knife, a Drug, Pneumonia and Acute Localized Lower Extremity Weakness
- P632 Leukocytes in Overdrive: When Adverse Reactions Prove Fatal

- P633** A Balancing Act of Appropriate Treatment: Methicillin-resistant *Staphylococcus Aureus* (MRSA) Bacteremia With Microscopic Polyangiitis (MPA) Vasculitis
- P634** Multiorgan Involvement of Systemic Lupus Erythematosus in a Patient With Negative Serology: A Lupus Criteria Dilemma
- P635** A Case of Acute Liver Failure Secondary to Profound Babesia in a Patient With No Known Liver Disease
- P636** Emphysematous Pancreatitis Resulting From Necrotizing Pancreatitis Complicated by Distributive Shock in a Transplant Patient
- P637** Fluid Accumulation Syndrome: The Dark Side of Sepsis Resuscitation Fluids
- P638** Salts and Vitamins: Resolution of Refractory Septic Shock With Methylene Blue and Hydroxocobalamin
- P639** The Silent Tear: Delayed Diagnosis of Esophageal Perforation and Mediastinitis Post-blunt Trauma
- P640** A Case of Acute Onset Minimal Change Disease in a 92 Year Old Male Mimicking Heart Failure
- P641** Medical Necessity: When Patients and Providers Disagree
- P642** From Liver to Lungs: A Rare Case of Hepatopulmonary Fistula Following Hepatic Abscess Rupture
- P643** Abdominal Pain in an Immunocompromised Lung Transplant Recipient Leading to Pneumaturia
- P644** Non-invasive Blood Pressure Monitoring to Wean Vasopressors in Setting of Anasarca From Nephrotic Syndrome in a Patient With Vasculopathy
- P645** Hydroxocobalamin in Septic Shock Management - Should It Be Introduced Sooner?
- P646** The Challenge of Vasoplegia: A Patient's Critical Battle
- P647** Postoperative Ileus Leading to Rapidly Progressing Septic Shock in a Fresh Kidney Recipient With Prior Lung Transplant
- P648** Lemierre's Syndrome Complicated by Venous Sinus Thrombosis Following Influenza A Infection
- P649** Turning the Tide: Rescuing Refractory Septic Shock With Methylene Blue

- P650** Rapid Progression of Tricuspid Valve Endocarditis: Insights From a Challenging Case
- P651** Challenges and Strategies in Performing Pericardiocentesis in Patients With Osteogenesis Imperfecta

## CLINICAL

## THEMATIC POSTER SESSION

### C41 BLEEDING, CLOTTING, AND AIR, OH MY! CASES OF OBSTRUCTIVE SHOCK AND VASCULAR MISADVENTURES

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

Moscone Center

Area D, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P423** Simultaneous Saddle Pulmonary Embolism and Paradoxical Coronary Embolism
- P424** Case of Lower Extremity Deep Vein Thrombosis with Negative D-Dimer in a Patient with High Well's Score
- P425** A Case of Extensive Pulmonary Emboli With Additional Thrombus Extending Into Left Atrium From a Patent Foramen Ovale
- P426** "I Can't (PE)e": Dual Etiologies of Obstructive Shock in a Single Patient
- P427** Preload-dependent Left Ventricular Collapse During Hemodialysis in a Patient With Cardiorenal Syndrome and Diastolic Dysfunction
- P428** Clot on the Way to LA!: Acute Bilateral Pulmonary Embolism With a Clot in Transit Through a Patent Foramen Ovale Case Report
- P429** Bladder Retention as a Prodrome of Spinal Cord Infarction: A Diagnostic Challenge in a Patient With Atrial Fibrillation
- P430** Arch Nemesis: Syncope From a Mobile Ascending Aortic Arch Thrombus
- P431** Takotsubo Cardiomyopathy Induced by Submassive Pulmonary Embolism



- P432** Racing Against Ischemia: A Case Report Where Point of Care Ultrasound Expedited Diagnosis and Intervention in an Acute Aortic Occlusion
- P433** Don't Forget About Right Ventricular Thrombus in Pulmonary Embolism
- P434** Thrombus or Vegetation: An Unknown Right Ventricle Density in the Setting of Cardiac Arrest
- P435** McConnell Sign in a Post-cardiac Arrest Patient Without Pulmonary Embolism
- P436** Caught Adrift Navigating the Incidental Discovery of a Floating Aortic Thrombus
- P437** Surreptitious Shock: An Uncommon Etiology of Obstructive Shock Following Out-of-Hospital Cardiac Arrest
- P438** Fixed, High-dose Bivalirudin - A Novel Solution to a Fatal Problem
- P439** Sepsis and Surgery: A Case of Heparin-induced Thrombocytopenia
- P440** A Double Jeopardy in Critical Care: Concurrent Hepatic Hemangioma Rupture and Massive Pulmonary Embolism
- P441** Ah, Ha, Ha, Ha, Stayin' Alive? A Case of CPR Induced Mediastinal Hematoma in the Setting of Pulmonary and Venous Thrombosis
- P442** Surprises in the Superior Vena Cava: Catheter Meets a Migrated Iliac Stent in a Patient With May Thurner Syndrome
- P443** Rare Non-malignant Case Of Recurrent SVC Syndrome Caused By Cardiac Pacer Wires And Vessel Fibrosis From ESRD
- P444** A Double-edged Sword: Iliofemoral Deep Vein Thrombosis Secondary to Long-term Inferior Vena Cava Filter
- P445** A Shunt That Will Leave You Feeling Blue
- P446** Persistent Hypoxia in Neurofibromatosis Type 1 With Posterior Mediastinal Mass: The Role of Intracardiac Shunt Detection Via Transcranial Doppler
- P447** Bubble Trouble - A Right Heart Air Embolus That Just Needed Some Fresh Air
- P448** Air Embolism and Ischemic Stroke Due to Cardiopulmonary Bypass Malfunction in Mitral Valvuloplasty: An Unexpected Challenge
- P449** Shock in Setting of Left Ventricle Compression and Tamponade From Large Volume Ascites
- P450** A Case of Cardiac Tamponade Following Catheter Ablation for Atrial Fibrillation While on Continuous Anticoagulation
- P451** Bubble Trouble: A Rare Case of Hepatic Air Embolism Mimicking Portal Venous Gas (PVG) in Patient With Septic Shock
- P452** Unexpected Complication: Fatal Air Embolism Following Robotic Bronchoscopy With Biopsy
- P453** A Case of Large Non-traumatic Air Embolism Without Complication
- P454** Spotting the Invisible: Enhancing Venous and Arterial Air Embolism Diagnosis With Point-of-Care Ultrasound
- P455** Iatrogenic Air Embolism Following CT-guided Lung Biopsy Leading to Myocardial Infarction and Cerebral Infarction: A Case Report
- P456** The Central Line Did Not Cross the Midline: Venous or Arterial? A Case Report of Partial Anomalous Pulmonary Venous Return
- P457** Catheter Catastrophe; A Rare but Fatal Consequence
- P458** Hemodialysis Catheter-induced Atrial Fibrillation
- P459** When the Vessel Doesn't Fit, You Must Acquit: Percutaneous Repair Following Inadvertent Dialysis Catheter Arteriotomy
- P460** When Tunneled Central Venous Catheters Go Wrong: An Unusual Cause of Tachy-Brady Syndrome
- P461** A Case of Coiled Central Venous Catheter After Hemodialysis Catheter Insertion
- P462** Clinical Perils of Persistent Left Superior Vena Cava (PLSVC) in a Patient With Previous Pacemaker Leads Placed Through PLSVC
- P463** A Traveling Pericardial Catheter With Continuous Drainage
- P464** Malignant Pericardial Effusion Leading to Cardiac Tamponade
- P465** A Fatal Complication After Prophylactic Anticoagulation for COVID-19 in a Lung Transplant Recipient

- P466** Multifocal Stroke Following Bronchial Artery Embolization for Hemoptysis
- P467** End-stage Renal Disease and Polycystic Kidney Disease Complicated by Vertebral Artery Aneurysm Rupture and Subarachnoid Hemorrhage Following a Routine Fistulogram
- P468** Massive Chest Wall Hematoma Following Pacemaker Placement: A Rare and Life-threatening Complication

**CLINICAL****THEMATIC POSTER SESSION**

## **C42 ARDS AND ARDS MIMICS: RECOGNITION, MANAGEMENT, AND ECMO**

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

Moscone Center

Area H, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P931** A Humbling Case of Survival in the Intensive Care Unit
- P932** Acute Respiratory Distress Syndrome: A Case of Early Diagnosis and Treatment With a Good Outcome
- P933** A Rare Culprit: Neisseria Meningitidis Pneumonia Leading to ARDS in Pregnancy
- P934** Acute Respiratory Compromise in Recurrent Miller Fisher Syndrome: A Triple Rarity
- P935** A Unique Case of Unilateral Transfusion-related Acute Lung Injury (TRALI) in a Lung Transplant Recipient
- P936** A Case Report of a Tiny Fighter: Neonatal COVID-19 Infection
- P937** Management of Status Epilepticus and Acute Respiratory Distress Syndrome (A.R.D.S) Via a Remote Tele-intensivist Program in a Safety-net Community Hospital
- P938** Severe Acute Respiratory Distress Syndrome (ARDS) in an Infant With Disseminated Herpes Simplex Virus Pneumonitis

- P939** Small Lungs, Big Questions: Ventilation of ARDS in Achondroplasia
- P940** Exploring Autoimmune Consequences of COVID-19 Infection
- P941** Severe Pulmonary Blastomycosis Masquerading as Histoplasmosis in an Immunosuppressed Patient
- P942** Early Prone in Legionella ARDS
- P943** Timing of Treatment Escalation in the Setting of Acute Respiratory Distress Syndrome With Interstitial Pneumonia Characteristics on Imaging
- P944** Uncommon Culprit: Legionella Pneumonia Triggering Diffuse Alveolar Hemorrhage and ARDS
- P945** A Case of Acute Respiratory Distress Syndrome After Hepatic Artery Embolization
- P946** Amiodarone Lung Toxicity Leading to Acute Respiratory Distress Syndrome in Patient With High-Risk Factors
- P947** Inhalational Injury From Stovetop Exposure: An Uncommon Presentation of Lipoid Pneumonia
- P948** Lung Reperfusion Injury After CABG Manifesting as Diffuse Alveolar Hemorrhage
- P949** A Case of Cocaine Induced Diffuse Alveolar Hemorrhage
- P950** Hidden Signals: The Puzzle of Cryptogenic Organizing Pneumonia
- P951** Immunosuppression, ARDS, and ECMO: A Case of Severe Respiratory Failure With Limited Treatment Options
- P952** Organizing Pneumonia Secondary to COVID-19 Pneumonia in an Immunocompromised Patient
- P953** Radiographic Riddle: Atypical Presentation of Acute Eosinophilic Pneumonia
- P954** Moderate Acute Respiratory Distress Syndrome in a United States Army Soldier With Acute Eosinophilic Pneumonia
- P955** Compounding Crises: A Life-threatening Case of Acute Respiratory Distress Syndrome Amid E-cigarette or Vaping-induced Lung Injury and Lipoid Pneumonia
- P956** Acute Hypoxic Respiratory Failure in a 25-year-old Female Due to Evali: A Case Report

- P957** A Devastating Demise: Acute Respiratory Distress Syndrome From Rapidly-Progressive Interstitial Lung Disease
- P958** Persistent Pulmonary Infiltrates Following Cardiopulmonary Bypass: Success With Ultrashort Steroid Rescue Duration
- P959** Crazy Paving Pattern in Setting of Massive Hemoptysis From Negative Pressure Pulmonary Edema
- P960** A Case of Unilateral Pulmonary Edema
- P961** Photo Negative Pulmonary Edema in a Submersion Injury
- P962** The Pulmonary Puzzle: Carfilzomib-induced Pneumonitis or CMV Pulmonary Alveolar Proteinosis
- P963** Using Bubble Contrast Transthoracic Echocardiogram to Individualize Peep Titration in a Patient With Acute Hypoxemic Respiratory Failure, Intracardiac Shunt
- P964** From Changing Windshield Washer Fluid to ECMO Support: A Hidden Hazard of the Immunocompromised
- P965** Effective Application of Non-invasive Positive Pressure Ventilation for Negative Pressure Pulmonary Edema After Ocean Water Inhalation
- P966** Turning the Tide: Life-Saving Extracorporeal Membrane Oxygenation (ECMO) for Severe Legionella Pneumonia in Adalimumab Use
- P967** Extracorporeal Membrane Oxygenation (ECMO) in Acute Chest Syndrome
- P968** Successful Use of Extracorporeal Membrane Oxygenation to Provide Emergent Chemotherapy for Diffuse Large B-cell Lymphoma
- P969** Veno-Venous Extracorporeal Membranous Oxygenation to Treat Severe Acute Respiratory Distress Syndrome Related to Gardnerella Vaginalis Ventilator Associated Pneumonia
- P970** Successful Autologous Hematopoietic Stem Cell Transplant While on Venovenous Extracorporeal Membrane Oxygenation Support
- P971** Mycoplasma Pneumoniae Infection Leading to Severe ARDS Requiring Venovenous ECMO in a Young Adult: A Case Report

- P972** Acute Respiratory Distress Syndrome, Tuberculosis, and Extracorporeal Membrane Oxygenation: A Case Report
- P973** 10-Year-Old Male With Acute Respiratory Distress Syndrome (ARDS) in the Setting of Unwitnessed Drowning Event, Complicated by an Acute Asthma Exacerbation

## CLINICAL

## THEMATIC POSTER SESSION

### **C43** CAUGHT IN THE CROSSFIRE: HLH, CYTOKINE STORMS, AND AUTOIMMUNE CHAOS

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

Moscone Center

Area G, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P818** Atypical Hemolytic Uremic Syndrome Presenting With Placental Abruption and Stress Cardiomyopathy
- P819** When Lupus Is Just the Beginning: Severe Early-onset SLE in a Young African American Female as a Manifestation of Primary Immunodeficiency
- P820** From Hidden to Critical: The Emergence of Acute Myeloid Leukemia in Blast Crisis
- P821** When Bleeding Lungs Meet Autoimmune Chaos: A Case of Diffuse Alveolar Hemorrhage in Adenovirus-induced Catastrophic Antiphospholipid Syndrome
- P822** Refractory Recurrent Venous Thrombosis Resistant to Anticoagulation in a Patient With Hepatic Dysfunction
- P823** B-cell Lymphoproliferative Disorder With Sudden Vision Loss as a Rare Neuro-oncologic Emergency
- P824** Correct Answer Was All The Above: A Case of Hemophagocytic Lymphohistiocytosis in the Intensive Care Unit
- P825** Acute Intermittent Porphyria: A Challenging Diagnosis

- P826** Malignancy-associated Thrombotic Thrombocytopenic Purpura: A Case of Diagnostic Challenges and Therapeutic Strategies
- P827** Fatal Synergy: The Coexistence of Systemic Lupus Erythematosus Hemophagocytic Lymphohistiocytosis
- P828** Walking Into the Diagnosis: Severe Mycoplasma Pneumonia Complicating Newly Diagnosed Chronic Lymphocytic Leukemia (CLL)
- P829** Clotting and Bleeding - A Rare Case of Catastrophic Trousseau Syndrome
- P830** Loss of Flow and Purple Hands: That's What I Call Fulminans
- P831** Plasma Exchange as Second Line Therapy to Red Blood Cell Exchange in Acute Chest Syndrome
- P832** Hemophagocytic Lymphohistiocytosis (HLH) Presenting as Abdominal Pain Secondary to T-cell Lymphoma
- P833** An Unusual Case of Hemophagocytic Lymphohistiocytosis Associated With Hashimoto's Thyroiditis
- P834** Hemophagocytic Lymphohistiocytosis (HLH) Triggered by a Tick Bite in a Patient With Undiagnosed T-cell Lymphoma
- P835** A Rare Case of Malignancy-associated Hemophagocytic Lymphohistiocytosis in the Setting of Undiagnosed Acute Myeloid Leukemia
- P836** Rapidly Fatal Hemophagocytic Lymphohistiocytosis Secondary to Influenza in a Young Adult With Sickle Cell Disease
- P837** Unprovoked Disseminated Intravascular Coagulation in Klippel-trenaunay Syndrome: A Case Report Highlighting Management Challenges
- P838** A Rare Complication of SLE: Hemophagocytic Lymphohististiocytosis
- P839** Playing the Blame Game, When aHUS Masquerades as TTP and HELLP
- P840** A Challenging Case of Secondary Human Phagocytic Lymphohistiocytosis From Human Immunodeficiency Virus-associated Lymphoma
- P841** When Too Much Anticoagulation Becomes Hazardous: A Case Report of Massive Apixaban Overdose
- P842** Catastrophic Antiphospholipid Syndrome Clinical Dilemma and Diagnostic Challenge
- P843** Massive Gastrointestinal Hemorrhage: A Deadly Presentation of Hemophagocytic Lymphohistiocytosis
- P844** Severe Disseminated Histoplasmosis With Secondary Hemophagocytic Lymphohistiocytosis in a Renal Transplant Patient
- P845** A Fatal Turn: Hemophagocytic Lymphohistiocytosis in a Liver Transplant Patient Triggering Refractory Multiorgan Failure
- P846** Management of STEMI and Cardiogenic Shock Secondary to Thrombotic Thrombocytopenic Purpura
- P847** Diagnostic Challenges Associated With Antibody-Negative, SRA-Positive Heparin-induced Thrombocytopenia: A Case Report
- P848** Cytomegalovirus Induced Hemophagocytic Lymphohistiocytosis in an Immunocompetent Adult Treated With Dexamethasone Monotherapy
- P849** A 23-year-old Woman With Sepsis and Ceftriaxone Induced Thrombocytopenia
- P850** Hemophagocytic Lymphohistiocytosis: The Ultimate Challenge
- P851** Persistent Thrombocytopenia as a Sign of Perioperative VTE in a Lung Transplant Recipient
- P852** Crystals and Crisis: A Rare Case of Cocaine-induced Thrombotic Thrombocytopenic Purpura
- P853** Rare and Devastating: Navigating a Case of Microscopic Polyangiitis Presenting as Hemorrhagic Shock, Acute Renal Failure, and Thrombosis
- P854** When a Kissing Disease Turns Deadly: EBV-Triggered HLH and ARDS in a 27-Year-Old
- P855** Steven Johnson Syndrome/Toxic Epidermal Necrolysis (SJS/TEN) Complicated by Extensive Subcutaneous Emphysema, Pneumomediastinum, and Acute Respiratory Distress Syndrome
- P856** A Rare Case of Secondary Hemophagocytic Lymphohistiocytosis Caused by Capnocytophaga Canimorsus Meningitis



- P857** Lupus Cerebritis in the Critical Care Setting: A Rare Neuropsychiatric Complication of Systemic Lupus Erythematosus
- P858** Acute Inflammatory Demyelinating Polyneuropathy and Acquired Angioedema: Rare Initial Presentations of Systemic Lupus Erythematosus
- P859** Iatrogenic Immunosuppression, Disseminated Histoplasmosis, and COVID-19 Leading to Hemophagocytic Lymphohistiocytosis
- P860** A Severe Case of Sweet Syndrome Requiring ICU Admission and Management
- P861** A Fatal Diagnosis: An Atypical Presentation of Hemophagocytic Lymphohistiocytosis Associated With Insulinoma
- P862** Cardiogenic Shock and Cardiac Arrest in ANCA-Associated Vasculitis: A Case Report With Extracorporeal Cardiopulmonary Resuscitation (ECPR) Intervention

**CLINICAL****THEMATIC POSTER SESSION****C44 CASE REPORTS IN AUTOIMMUNE LUNG DISEASE**

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

Moscone Center

Area G, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P767** Acute Respiratory Failure Secondary to Statin-induced Anti-HMG CoA Reductase Myopathy: A Rare Complication With Diagnostic Challenges
- P768** Connective Tissue Interstitial Lung Disease and Non-TB Mycobacterium: Immunosuppression in the Face of Infection
- P769** Oddities Galore: An Atypical Presentation of Eosinophilic Granulomatosis With Polyangiitis
- P770** A Malignant Long-term Outcome in Anti-synthetase Syndrome
- P771** The Tip of the Iceberg: Dry Cough as a Presentation of Diffuse Alveolar Hemorrhage in a Patient With Granulomatosis With Polyangiitis

- P772** Rheumatoid Arthritis Pleural Lung Disease Mimicking Empyema
- P773** Off the Beaten Algorithm - Treatment of Mepolizumab-Refractory, Non-severe Eosinophilic Granulomatosis With Polyangiitis
- P774** A Paradigm Shift in Acute Exacerbation Management of Interstitial Lung Disease: Plasmapheresis as Standard Therapy in Anti-synthetase Syndrome
- P775** A Case of Diffuse Alveolar Hemorrhage Secondary to Seronegative Goodpasture Syndrome
- P776** Novel Treatment Approach That Avoids High-dose Oral Steroids in a Patient With Relapsing Polycondritis
- P777** Severe Alveolar Hemorrhage in a Patient With Overlapping Systemic Lupus Erythematosus and Antineutrophil Cytoplasmic Antibodies-Associated Vasculitis
- P778** Previously Healthy: A Case of Antisynthetase Syndrome and Severe Acute Respiratory Distress Syndrome
- P779** Granulomatosis With Polyangiitis and Concomitant Infection: Addressing Diagnostic and Therapeutic Ambiguities
- P780** Recurrent Pleural Effusions as an Initial Indicator of Sjogren's Disease
- P781** A Case of Refractory, Forme Fruste Non-severe Eosinophilic Granulomatosis With Polyangiitis
- P782** A Case of Rapidly Progressive-ILD and Pneumomediastinum in Anti-MDS5+ Dermatomyositis
- P783** A Case of Granulomatosis With Polyangiitis Induced by Cocaine or Checkpoint Inhibitor Therapy?
- P784** Lung to Gut: A Rare Occurrence of Pulmonary Manifestation of Crohn's Disease
- P785** An Atypical Presentation of Diffuse Alveolar Hemorrhage in Granulomatosis With Polyangiitis
- P786** Is It Really MPA? An Atypical Presentation of P-ANCA Vasculitis
- P787** Lung Cancer in Patients With Scleroderma-associated ILD: Case Series and Implications for Screening

- P788** An Aggressive Case of Interstitial Lung Disease in Anti-MDA-5 Antibody Phenotype Dermatomyositis
- P789** Fever in a Geriatric Patient With Bronchiectasis Manifesting as Microscopic Polyangiitis in a Sea of Red Herrings
- P790** Honey! I Shrunk the Lungs!
- P791** ANCA-Associated Vasculitis in Usual Interstitial Pneumonia, a Review of the Literature
- P792** Lupus in Disguise: Unraveling Pseudo-pseudo Meig's Syndrome Amidst SLE
- P793** A Rare Case of Interstitial Lung Disease From Antisynthetase Syndrome With Concomitant Breast Cancer
- P794** Recurrent Pneumothorax in Vascular Ehlers Danlos Syndrome
- P795** Anti-Jo-1 and Anti-SSN-A 52 Associated With Rapidly Progressive Interstitial Lung Disease
- P796** Unraveling Bronchiolitis Obliterans in Rheumatoid Arthritis
- P797** Acute Severe Lupus Relapse With Myositis and Pulmonary Involvement
- P798** Recurrent Spontaneous Pneumothorax in Tocilizumab Treated Rheumatoid Arthritis
- P799** Snap, Crackle, and Pop! First Described Tracheal Diverticulum Causing Severe Pneumomediastinum in MDA5 Dermatomyositis
- P800** Pulmonary - Renal Predominance in Mixed Connective Tissue Disease: A Rare Presentation With Diagnostic Challenges
- P801** Dermatomyositis-associated Interstitial Lung Disease: No Derm and No Myositis
- P802** Rheumatoid Arthritis and Pneumothorax: A Rare Pulmonary Manifestation
- P803** When Muscles Meet Lungs: Rapidly Progressive Interstitial Lung Disease as a Fatal Manifestation of Dermatomyositis
- P804** Rashes to Recognition: A Case of Rapidly Progressive Interstitial Lung Disease (ILD) in Dermatomyositis
- P805** When Dryness Reveals Depth: Sjogren's Syndrome and Its Pulmonary Manifestations
- P806** Friendly Fire: A Case of Anti-melanoma Differentiation-associated Protein 5 Positive Dermatomyositis With Rapidly Progressive Interstitial Lung Disease
- P807** Lung Biopsy Drives Diagnosis of Sjogren's Disease in Case of Lymphocytic Interstitial Pneumonia
- P808** Dermatomyositis With Interstitial Lung Disease
- P809** Interstitial Lung Disease as an Extrapulmonary Manifestation of Autoimmune Liver Disease
- P810** Systemic Sclerosis With Multi-organ Involvement: Pulmonary Hypertension Exacerbated by Alveolitis and Serositis
- P811** Discussion on Role of Imatinib Therapy in Scleroderma with Suspected PVOD
- P812** Unmasking the Truth: Late Recognition of Scleroderma-Related ILD Initially Diagnosed as Pulmonary Hypertension
- P813** Lung-only Mystery: Unveiling Isolated Interstitial Lung Disease in Asymptomatic Rheumatoid Arthritis
- P814** Rheumatoid Arthritis Associated Interstitial Lung Disease and the Risk of Malignancy
- P815** Pulmonary Nodules and Granulomatous Lung Disease in a Case of Rheumatoid Arthritis: A Paradoxical Occurrence With TNF- $\alpha$  Inhibitor Use
- P816** Diagnostic Dilemma in Vasculitis: A Case of Coexisting Eosinophilic Granulomatosis With Polyangiitis and Granulomatosis With Polyangiitis With Literature Review

## CLINICAL

## THEMATIC POSTER SESSION

**C45** CASE REPORTS IN CYSTIC LUNG DISEASE AND LUNG TRANSPLANT

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

Moscone Center

Area J, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1079** Lymphangioleiomyomatosis (LAM) Recurrence After Lung Transplant
- P1080** Two in One: Bilateral Orthotopic Lung Transplant and Mitral Valve Replacement in a Case of Hermansky-Pudlak Syndrome
- P1081** A Rare Presentation of Cystic Lung Disease: Lymphoid Interstitial Pneumonia and Pulmonary Hypertension as Presenting Feature of Sjögren's Syndrome
- P1082** Targeted Therapy Against Recurrent Anti-synthetase Syndrome Associated Interstitial Lung Disease After Bilateral Lung Transplantation Guided by Single-cell RNA Sequencing and Spatial Transcriptome
- P1083** The Mystery of the Cyst and the Leak: Past History Saves the Day
- P1084** ECMO as a Bridge to Lung Transplant for Refractory Rapidly Progressive Interstitial Lung Disease
- P1085** Pneumothoraces and Paramediastinal Cysts - A Rare Case of Birt-Hogg-Dubé Syndrome
- P1086** Devastating Dermatomyositis: Developing Rapidly Progressive Interstitial Lung Disease Requiring Urgent Lung Transplantation
- P1087** New Treatment Dilemmas: Sirolimus-induced Cardiac Tamponade in a Post-menopausal Patient With Lymphangioleiomyomatosis
- P1088** A Case of Hypersensitivity Pneumonitis Necessitating Lung Transplant
- P1089** Skin Signs, Lung Surprises: Association of Fibrofolliculomas and Recurrent Pneumothoraces in Birt Hogg Dubé Syndrome
- P1090** An Unexpected Complication: MDA-5 Associated Interstitial Lung Disease Requiring Lung Transplantation Following Mepolizumab
- P1091** Transitional Support for Lung Transplant in Rapidly Advancing Interstitial Lung Disease
- P1092** Bound to Become Breathless: A Case Report on Lymphangioleiomyomatosis (LAM)
- P1093** False Positive Serum Vascular Endothelial Growth Factor-D or Co-existing Lymphangioleiomyomatosis and Birt-Hogg-Dubé Syndrome
- P1094** Breast Cancer to Lung Transplant: A Success Story
- P1095** Long-term Survival of a Lung Transplant Recipient With Acute Promyelocytic Leukemia and Anatomical Variance in the Donor
- P1096** A Complex Case of Birt-Hogg-Dubé Syndrome With Coexisting Granulomatous Lung Disease in a Young Male
- P1097** Life Given, Life Denied: The Paradox of Organ Donation and Transplant Access for Undocumented Donors
- P1098** Clinical Manifestations and Management of Birt-Hogg-Dubé Syndrome
- P1099** VEGF-D Assay National Shortage: Diagnostic Delay in the Diagnosis of Lymphangioleiomyomatosis in the United States
- P1100** A Case of Cutis Laxa With Emphysema: Implications in Lung Transplantation
- P1101** Unveiling the True Diagnosis: A Case Report on Misdiagnosed Lymphangioleiomyomatosis in TSC
- P1102** "HHV-8 Negative" Cutaneous Kaposi's Sarcoma Following Lung Transplantation
- P1103** Work-up of Diffuse Cystic Lung Diseases: A Case Series
- P1104** Recurrent Pulmonary Alveolar Proteinosis With Negative Pathology After Bilateral Lung Transplant
- P1105** When Lungs and Light Chains Collide: A Case Report on Cystic Lung Disease From AL Amyloidosis
- P1106** Low-Risk Myelodysplastic Syndrome in Lung Transplant Candidates: Pause at Candidate Selection?
- P1107** A Case of Lymphangeioleiomyomatosis Requiring Tissue Pathology for Confirmatory Diagnosis
- P1108** Incidental Finding of Metastatic Adenocarcinoma of Unknown Primary Origin in a Lung Transplant Candidate With Rapidly Progressive Interstitial Lung Disease
- P1109** Cysts And Ground Glass Opacities: Manifestations Of A Smoking-related Interstitial Lung Disease
- P1110** Stumped for the Cause: A Rare Case of EBV-negative PTSMT
- P1111** A Rare Case of End-stage Liver Disease From Hereditary Hemochromatosis Following Lung Transplant in a Cystic Fibrosis Patient

**P1112 Lung Transplant Referral for Central Airway Stenosis and Bronchiectasis Secondary to Lye Inhalation Injury**

### CLINICAL

### THEMATIC POSTER SESSION

## **C46 DIAGNOSTIC DILEMMAS: NEW CASE REPORTS IN DIFFUSE PARENCHYMAL LUNG DISEASE**

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

Moscone Center

Area J, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

**P1114 Say Cheese! A Radiological Clue in the Diagnosis of Hypersensitivity Pneumonitis**

**P1115 Chronic Cough and History of Cancer, a Masquerade for Exogenous Lipoid Pneumonia**

**P1116 If Birds Could Kill: A Case of Hypersensitivity Pneumonitis Secondary to Longstanding Cockatiel Exposure**

**P1117 Daptomycin Induced Eosinophilic Pneumonia and Pyoderma Gangrenosum**

**P1118 Burden Beyond the Bowel: An Insightful Case of Severe Pneumonia in a Patient with Ulcerative Colitis on Infliximab Therapy**

**P1119 Interstitial Lung Disease Secondary to a Rare Pulmonary Neuroendocrine Tumor Complicated by a Non-tuberculous Mycobacterium Infection**

**P1120 Steroid-refractory Organizing Pneumonia Secondary to Underlying Myelodysplastic Syndrome**

**P1121 Establishment of a National Interstitial Lung Disease Multidisciplinary Team Meeting in Sub Saharan Africa**

**P1122 A Wolf in Sheep's Clothing: Rapidly Progressive Interstitial Lung Disease Masquerading as Bacterial Pneumonia**

**P1123 ILD or Covid: A Case of Chameleons**

**P1124 A Disorganized Case of Eosinophilic Pneumonia**

**P1125 Intersecting Pathologies: A Unique Case of Usual Interstitial Pneumonia and Organizing Pneumonia in an HIV Patient**

**P1126 Rapidly Progressive Post-Covid Pulmonary Fibrosis: A Multidisciplinary Discussion**

**P1127 A Challenging Case of an Atypical Presentation of Eosinophilic Pneumonia**

**P1128 Beyond Biopsy: When Observation Is the Best Management in a Case of Atypical Lung Nodules**

**P1129 Endogenous Lipoid Pneumonia in a Patient With Adult-Onset Still's Disease: A Case Report**

**P1130 Acute Eosinophilic Pneumonia — Innocent Until Proven Triggered**

**P1131 Combined Pulmonary Fibrosis and Emphysema: A Hidden Syndrome in Smoking-related Lung Disease**

**P1132 How Bronchoscopy Helped Uncover Acute Eosinophilic Pneumonia Behind a Mask of Community-acquired Pneumonia**

**P1133 Hypoxemia Despite Maximal Medical Treatment**

**P1134 A Case of Chronic Occult Pulmonary Aspiration Presenting With Multiple Lung Nodules**

**P1135 Late Onset Severe Organizing Pneumonia After Mild COVID-19 Infection**

**P1136 Organizing the Unknown: A Case of Cryptogenic Organizing Pneumonia in a 37-year-old Female**

**P1137 Comorbidities Clouding the Picture: A Case of Late Diagnosed Cryptogenic Organizing Pneumonia**

**P1138 Novel Forms of Organizing Pneumonias**

**P1139 A Case of Organizing Pneumonia Developed After Using E-cigarette**

**P1140 From Mood Lifter to Breath Stealer: A Case of Venlafaxine-induced Eosinophilic Pneumonia**

**P1141 Risankizumab and Respiratory Symptoms: A Novel Case of Organizing Pneumonia**

**P1142 A Rare Condition With an Uncommon Trigger: Acute Eosinophilic Pneumonia Caused by Progesterone Administration**

**P1143 Acute Eosinophilic Pneumonia Associated With Cannabis Vaping**

**P1144 What Is the Culprit? The Quest to Determine the Cause of Daptomycin Associated Acute Eosinophilic Pneumonia**



- P1145 Unveiling the Culprit: Daptomycin Induced Acute Eosinophilic Pneumonia
- P1146 Daptomycin Induced Acute Eosinophilic Pneumonia
- P1147 Daptomycin-Induced Eosinophilic Pneumonia: A Case Report
- P1148 Rare Adverse Event: Ocrelizumab-induced Cryptogenic Organizing Pneumonia (COP) in a Patient With Multiple Sclerosis - A Case Analysis
- P1149 Infertility and Complications: Acute Eosinophilic Pneumonia Caused by IM Progesterone Treatment for In Vitro Fertilization
- P1150 Pembrolizumab Induced Cryptogenic Organizing Pneumonia and Diffuse Alveolar Hemorrhage
- P1151 Ocrelizumab-induced Cryptogenic Organizing Pneumonia in a Patient With Multiple Sclerosis
- P1152 Breathless From Treatment: A Rare Case of Mesalazine-induced Eosinophilic Pneumonia in Ulcerative Colitis
- P1153 Fluoxetine Induced Chronic Eosinophilic Pneumonia Leading to Usual Interstitial Pneumonia (UIP) Fibrosis
- P1154 Organizing Pneumonia Associated With Ocrelizumab; An Uncharted Entity of Lung Disease
- P1155 Rituximab Induced Organizing Pneumonia; A Signal of Immunosuppression Gone Too Far
- P1156 Reverse Halo Sign on Imaging - What Can It Be?
- P1160 Pulmonary Meningotheliomatosis - Rare or Underrecognized?
- P1161 Vexed by Vexas: A Rare Condition Leading to Chronic Inflammation and Multiple Pulmonary Complications
- P1162 A Rare Case of Pulmonary Alveolar Proteinosis Complicated With Pulmonary Tuberculosis Treated With Colorimetry Guided Whole Lung Lavage and Anti Tuberculosis Treatment
- P1163 Myelodysplastic Syndrome Presenting as Rapidly Progressive Pulmonary Fibrosis
- P1164 Adult Survival in Childhood-Onset Idiopathic Pulmonary Hemosiderosis With Down Syndrome: A Case Report
- P1165 Combined Treatment of Diffuse Panbronchiolitis Complicated With Thymoma: A Case Report
- P1166 Lymphoid Interstitial Pneumonia Secondary to Systemic Lupus Erythematosus and Sjogren's Syndrome Manifesting as Pulmonary Nodules Concerning for Malignancy
- P1167 Interstitial Lung Disease and Diffuse Bilateral Lung Nodules as Presentation of IgG4-related Lung Disease
- P1168 Pulmonary Amyloidosis - A Case Series
- P1169 Diffuse Panbronchiolitis With Secondary Amyloidosis in a Young Indian Woman: A Rare Case Report
- P1170 Granulomatous-Lymphocytic Interstitial Lung Disease Versus Post-COVID Fibrosis in Common Variable Immunodeficiency
- P1171 Recognizing the Uncommon: Diffuse Panbronchiolitis in a Western Clinic Setting - A Diagnostic Challenge
- P1172 Not All Roads Lead to COVID
- P1173 A Complex Case of Severe Asthma-COPD Overlap and Interstitial Lung Disease in a Patient With Suspected Hermansky-Pudlak Syndrome
- P1174 Granulomatous Interstitial Lung Disease: A Case Series in an Australian Tertiary Centre
- P1175 Diffuse Pulmonary Meningotheliomatosis: A Rare Case With Long-term Radiographic Stability
- P1176 A Rare Case of Muscular Dystrophy With Interstitial Lung Disease: A Case Report

## CLINICAL

## THEMATIC POSTER SESSION

**C47 CASE REPORTS IN RARE LUNG DISEASE**

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

Moscone Center

Area J, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1158 Systemic Amyloidosis Presenting as Miliary Pulmonary Nodules
- P1159 'Worsening Respiratory Failure in a Middle Aged Healthy Female'

- P1177** Where Rare Lung Conditions Meet: Idiopathic Pleuroparenchymal Fibroelastosis and Usual Interstitial Pneumonia
- P1178** Beyond The Heart: Rare Apical And Pulmonary Manifestations Of AL Amyloidosis
- P1179** A Hidden Threat: Pleuroparenchymal Fibroelastosis in a Non-Smoker With Mild Dyspnea and Minimal Risk Factors
- P1180** IgG4 Related Disease Presenting With an Inflammatory Pulmonary Mass
- P1181** Telomere Biology Disorder Presented With De Novo Pneumocystis Jirovecii Pneumonia
- P1182** Long-term Course of 30 Months in 15 Patients With Autoimmune Alveolar Protein Disease (aPAP) With a History of GM-CSF Inhalation
- P1183** A Case of Life-Threatening Hemoptysis Secondary to Smoking Related Interstitial Fibrosis Improved With Bronchial Artery Embolization
- P1184** Secondary Pneumothorax: An Approach for Definitive Management in a Case of a Rare Lung Disease
- P1185** A Case of Constrictive Bronchiolitis Secondary to Vaping in Active Duty Servicemember
- P1186** In the Genes: RTEL1 Mutation and Familial Pulmonary Fibrosis
- P1187** Pulmonary Alveolar Proteinosis With Associated Fibrosis: A Case Series From a National Referral Centre
- P1188** Unmasking the Uncommon: Slowly Progressive Focal Ground-glass Opacities as a Manifestation of Autoimmune Pulmonary Alveolar Proteinosis
- P1189** A Rare Case of Histiocytosis
- P1190** Pulmonary Langerhans Cell Histiocytosis Diagnosed by Trans-bronchial Cryobiopsy in a Former Smoker
- P1191** Neither Diffuse Nor Bilateral, Still Pulmonary Langerhans' Cell Histiocytosis
- P1192** Rethinking Diffuse Bilateral Pulmonary Nodules: A Rare Case of Pulmonary Langerhans Cell Histiocytosis
- P1193** A Challenging Case of IgG4-related Lung Disease: A Case Report

- P1194** As Many Diseases as They Please: A Case of Respiratory Failure Due to Overlap of Differentiation Syndrome and Staphylococcal Pneumonia
- P1195** Gasping for Air: A Dynamic Case of Chlorine Gas Exposure
- P1196** Nodular Pulmonary Amyloidosis: A Silent but Serious Issue
- P1197** Autoimmune Pulmonary Alveolar Proteinosis Treated With Whole Lung Lavage and Rituximab: A Case Report

## CLINICAL

## THEMATIC POSTER SESSION

### C48 CASE REPORTS IN SARCOIDOSIS

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

Moscone Center

Area K, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1239** Unusual Manifestation of Sarcoidosis: Hepatic Involvement With Budd-Chiari Syndrome
- P1240** Unmasking Sarcoidosis: A Case of Acute Respiratory Decline and Granulomatous Inflammation in an African American Woman
- P1241** A Presentation of Lofgren Syndrome During Tick Season
- P1242** A Rare Respiratory Duo: Coexisting Laryngeal and Diffuse Alveolar Hemorrhage in Sarcoidosis
- P1243** Pembrolizumab Associated Pulmonary and Cutaneous Sarcoidosis in a Patient With Malignant Melanoma
- P1244** Shadows in the Myocardium: Diagnostic Hurdles and Management Insights of Cardiac Sarcoidosis
- P1245** Unraveling the Neurological Masquerade: A Rare Case of Neurosarcoidosis
- P1246** The Slippery Search for Sarcoidosis in Concurrent Hodgkin Lymphoma
- P1247** Seeing Through the Swelling: Asymptomatic Papilledema and Sarcoidosis

- P1248 From Amaurosis to Granulomas: Unmasking Neurosarcoidosis
- P1249 Sarcoidosis Unmasked Upon Discontinuation of Infliximab Therapy for Ulcerative Colitis
- P1250 A Rare Case of Sarcoid-like Reaction Secondary to Metastatic Carcinoma of the Orbit
- P1251 Sarcoidosis Presenting as Ground Glass Nodules - An Atypical Presentation
- P1252 Vaping-Associated Sarcoidosis: A Case Report of Recovery Following Cessation
- P1253 An Exceedingly Rare Case of Necrotizing Sarcoid Granulomatosis Presenting With Bilateral Pleural Effusions
- P1254 Unraveling a Puzzle: A Case of Coexisting Sarcoidosis and Non-Small Cell Lung Cancer
- P1255 Unraveling Complexity: A Rare Case of Pulmonary Sarcoidosis Coinciding With Systemic Scleroderma
- P1256 Sarcoidosis Masquerading as Valley Fever: A Case Report on Chronic Cough and Diagnostic Challenges
- P1257 Treatment Response to Rituximab in Refractory Cardiac Sarcoidosis
- P1258 A Case of Persistent Hemoptysis in Pulmonary Sarcoidosis
- P1259 Steroids for Sarcoidosis: A Road to Type 1 Diabetes?
- P1260 A Needle in a Haystack: Diagnosing Sarcoidosis in a Patient With Silicosis
- P1261 Sarcoidosis Flare Disguised as T-cell Lymphoma
- P1262 Granulomas or Not? A Diagnostic Dilemma in Pulmonary Pathology
- P1263 Atypical Sarcoidosis Without Bilateral Hilar Lymphadenopathy: The Critical Role of Transbronchial Lung Biopsy
- P1264 The Great Masquerader: Cardiac Sarcoidosis Camouflaging as Asthma Exacerbation
- P1265 Malignancy or Not: A Case of Hypercalcemia Revealing Sarcoidosis
- P1266 Sarcoidosis: An Unexpected Discovery
- P1267 A Bone to Pick: Sarcoidosis as a Mimicker of Metastatic Disease
- P1268 Sarcoidosis as a Consequence of COVID-19: A Case Report
- P1269 Don't Anchor Early: A Case of Elderly Onset Sarcoidosis With Initial Anchoring Diagnosis of Lymphoma
- P1270 Diagnostic Challenge: Sarcoidosis in the Setting of Granuloma Annulare and Haemophilus Parahaemolyticus Contaminant
- P1271 Sarcoidosis - A Case of Consumption
- P1272 An Atypical Presentation of Sarcoidosis With Rapid Neurological Decline and Fatal Outcome
- P1273 Decoding the Heart: The Role of Cardiac Positron Emission Tomography (PET) in Cardiac Sarcoidosis: A Case Series
- P1274 Pulmonary Cavitary Sarcoidosis
- P1275 Endobronchial Ultrasound Sampling as a Diagnostic Modality for Alveolar Sarcoidosis
- P1276 A Case of Adalimumab-associated Sarcoidosis-like Reaction
- P1277 A Case of Sarcoidosis Associated With Anti-interleukin-17A Therapy
- P1278 Drug-induced Sarcoidosis in a Patient Receiving Adjuvant Immunotherapy for Melanoma
- P1279 Nivolumab-induced Sarcoid-like Granulomatous Reaction in a Renal Cell Carcinoma Patient
- P1280 Dupilumab Induced Sarcoid Like Reaction

## CLINICAL

## THEMATIC POSTER SESSION

**C49 WHAT'S NEW IN COPD PHENOTYPING AND MANAGEMENT**

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

Moscone Center

Area G, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

**P864 Gene-based Rare Variant Testing in Vascular Measures in COPD Gene**

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| <p><b>P865</b> Navigating Chronic Lung Disease: A Survey of Gender-specific Experiences and Perceptions</p> <p><b>P866</b> Severe Obesity Is Associated With Poor Health Outcomes in Alpha-1 Antitrypsin Deficiency-associated COPD</p> <p><b>P867</b> Initial Characterization of the Alpha-1 Biomarker Consortium</p> <p><b>P868</b> An Update From the National Alpha-1 Antitrypsin Deficiency Targeted Detection Programme</p> <p><b>P869</b> Metabolomic Insights Into Fibrotic Lung Disease Differentiation From Chronic Obstructive Pulmonary Disease</p> <p><b>P870</b> Etiologies of Respiratory Infections in Hospitalized Patients With COPD With vs Without Major Adverse Cardiac Events</p> <p><b>P871</b> Anticoagulation for Atrial Fibrillation Among Veterans Hospitalized for Acute Exacerbations of COPD</p> <p><b>P872</b> Paradigm Change in COPD Management: The Critical Role of Medical Education to Enhance Adoption of Biologic for COPD With Eosinophilic Phenotype</p> <p><b>P873</b> Expanding Diagnostic Screening for Alpha-1 Antitrypsin Deficiency: Evaluation of the AlphaID™ Test to Detect Rare SERPINA1 Variants</p> <p><b>P874</b> Association Between GLP-1 Agonists/co-agonists and Thromboembolic Events in COPD Patients: A Retrospective Cohort Study</p> <p><b>P875</b> COPD and MAFLD: Prevalence, Clinical Characteristics, and Impact on Frequent Exacerbations</p> <p><b>P876</b> COPD Detection in People 45 to 55 Years of Age Using a Modified CAPTURE Tool</p> <p><b>P877</b> COPD Exacerbations With-and Without Interstitial Lung Abnormalities: Assessment Through Risk Factors and Clinical Outcomes</p> <p><b>P878</b> Data-Driven Clustering Approach to Identify Novel Phenotypes in Acute Exacerbations of Chronic Obstructive Pulmonary Disease: A Retrospective, Multicentre Cohort Study</p> <p><b>P879</b> Electronic Health Record Prediction of COPD Exacerbation Among Patients With and Without Prior Exacerbation History</p> | <p><b>P880</b> Incidence of Pulmonary Embolism in Patients With Acute Exacerbations of COPD Versus Non-exacerbations</p> <p><b>P881</b> The Role of Frailty in COPD: Using the Electronic Frailty Index to Identify At-risk Patients</p> <p><b>P882</b> Optimizing Outpatient COPD Care Via E-consults in COPD Gold E Patients</p> <p><b>P883</b> Continuous Positive Airway Pressure Increases Inspiratory Load in Stable Chronic Obstructive Pulmonary Disease</p> <p><b>P884</b> Identification of Seven Clinical Factors Using Routinely Available Measurements to Create Phenotypes in Patients With Mild-Moderate COPD</p> <p><b>P885</b> Blood Eosinophil Counts in Patients With COPD, Asthma, and Asthma/COPD Overlap: Comparison of Counts During Exacerbations Versus Those in Stable Out-patients</p> <p><b>P886</b> Machine Learning Driven Prediction of Chronic Respiratory Failure in COPD Using Multiple Biomarkers: A Bioprognostic Index</p> <p><b>P887</b> Identifying Lung-related Factors to Improve Discrimination of Validated Atrial Fibrillation Risk Prediction Models in Tobacco-exposed Individuals</p> <p><b>P888</b> Key CT Imaging Features for Predicting Treatment Response in Endobronchial Valve Therapy for Emphysema</p> <p><b>P889</b> Physiologic Phenotyping of Patients at Risk for COPD Exacerbations</p> <p><b>P890</b> Clinical Phenotyping of Patients Reclassified by Updated Pulmonary Function Testing Guidelines</p> <p><b>P891</b> Prevalence of Pneumonia According to Age in Patients With COPD Treated With Inhaled Corticosteroids</p> <p><b>P892</b> Real World Evidence on Health Care Resources Utilization and Economic Burden of Arrhythmias in Patients With COPD Real World Evidence on Health Care Resources Utilization and Economic Burden of Arrhythmias in Patients With COPD</p> <p><b>P893</b> Integrated and Enhanced Community Care for Asthma and COPD in Ireland: A Roadmap to Continuous Improvement</p> <p><b>P894</b> Effects of Environmental Factors on Pulmonary Hypertension in Patients With COPD</p> |
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- P895** High Chronic Obstructive Pulmonary Disease Assessment Test Score Is a Good Predictor for Chronic Obstructive Pulmonary Disease Severity and Treatment Demand: Findings From Baseline Data of Quality Improvement Program
- P896** Prognostic Impact of Obesity Hypoventilation Syndrome in Patients With Chronic Obstructive Pulmonary Disease Exacerbation: A Nationwide Analysis, 2018-2020
- P897** Patterns of Clinically Important Deterioration in COPD Differ by Severity of Airflow Limitation
- P898** Impact of Clinical Guidelines on Inhaler Prescriptions for COPD Exacerbation Admissions
- P899** Real-World Experience of Dupilumab Treatment for Patients With COPD
- P900** Moderate Deficiency of Alpha-1 Antitrypsin - What's the Risk in SS Compared to MZ AATD?
- P901** Family Screening in Alpha-1 Antitrypsin Deficiency - Is It Enough?
- P902** Longitudinal Analysis of Alpha-1 Antitrypsin Patients on Augmentation Therapy
- P903** The ZZ Family Study: A Preliminary Proband Analysis
- P904** Food Desert Is Associated With All-cause and Cardiovascular Mortality in SPIROMICS
- P905** Tracheal Indices as a Screening Tool for Markers of Hyperinflation in At-risk Patients
- P906** Expanding a Mechanistic Model of Recurrent Respiratory Infections in At-risk Populations: From Children to COPD and Elderly
- P907** Differential Decline in FEV<sub>1</sub> and FVC Across COPD GOLD Grades and Non-Obstructed Chronic Bronchitis
- P908** Trends in Clinical Presentation and Outcome in Patients With Severe Acute Exacerbation of Chronic Obstructive Pulmonary Disease Admitted to Medical Intensive Care Unit During 2000-2024
- P909** A Cross-Sectional Study on the Prevalence of Spirometry-Confirmed COPD Diagnosis in a Hospital-Based Population
- P910** The Cause of Sarcopenia in Male Older Adults With and Without Chronic Obstructive Pulmonary Disease May Be Different

- P911** In-hospital Outcomes for Patients With and Without Hiatal Hernia Admitted for COPD Exacerbation
- P912** The Relationship Between Four Elements of COPD and Major Adverse Cardiovascular Events(MACE) Amongst People at Elevated Risk of MACE
- P913** Adverse Events Following Major Adverse Cardiovascular Events(MACE) in People With COPD: An Analysis of Exacerbations, MACE and Mortality

## CLINICAL

## THEMATIC POSTER SESSION

### C50 INTERVENTIONAL PULMONARY CASE REPORTS

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

Moscone Center

Area F, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P675** Complete Central Airway Occlusion as an Acute Complication of Relapsing Polychondritis
- P676** IBV Placement in a Patient Status Post Pneumonectomy
- P677** Seeing the Light: Reflections on an Uncertain Lung Cancer Diagnosis
- P678** Rare Case of Lingular Segment Torsion Following Trisegmentectomy: A Surgical Challenge and Successful Intervention
- P679** The Pulmonary Imposter: When Liver Masquerades as a Lung Mass
- P680** All That Wheezes Isn't Asthma
- P681** Time Didn't Heal All Wounds: Long-Ago Foreign Body Aspiration Addressed With Robotic Navigational Bronchoscopy
- P682** Metastasizing Leiomyoma Presenting With Pulmonary Arteriovenous Fistula, Neck Mass, and Shunting-related Complications
- P683** Tracheal Lipomas and Benign Tracheal Tumors
- P684** A Step Towards Zero Harm: Addressing the Unpredictable Variabilities of Intercostal Arteries

- P685** Foreign Body Granulomatous Reaction Disguising as a Recurrent Lymphocytic Exudative Pleural Effusion
- P686** Unplugging the Pipe: Troubleshooting an Accidental One-Way Valve
- P687** Diagnostic Challenge of Respiratory Failure in an Immunosuppressed Patient
- P688** Esophageal Carcinoma Diagnosed With EBUS Guided TBNA
- P689** A Hole Lot of Trouble: A Case of a Migrating Esophageal Stent
- P690** Silicone Y Tracheal Stent Used to Treat Iatrogenic Tracheal Injury With Veno Venous Extracorporeal Membrane Oxygenation (ECMO) Support
- P691** Unexpected Pathway: Bronchopleural Fistula Following Penetrating Knife Injury
- P692** What Is in That Airway
- P693** Endobronchial Mucoepidermoid Carcinoma: An Uncommon Cause of Post-obstructive Pneumonia
- P694** Stridor in the Shadows
- P695** Take the Cold Plunge: Cryobiopsy as a Diagnostic Tool for Lung Malignancy
- P696** From Tumor Fears to Nail Biting Reality: The Case That Turned a Malignancy Scare Into a Nail Mystery
- P697** Acute Hypoxia Due to Tracheobronchial Foreign Body Aspiration in an Adult: A Case of Ciprofloxacin Pill Lodging in the Left Main Bronchus
- P698** Unseen Hazards: Unraveling the Link Between Drywall Dust Exposure and Plastic Bronchitis Development
- P699** Successful Tracheal Stenting and Removal in Case of Tubercular Multi-Level Airway Stenosis
- P700** An Enigmatic Case of Dyspnea in a Long-term Tracheoesophageal Puncture (TEP) Patient
- P701** Robotic Assisted Bronchoscopy Management of an Intraparenchymal Emphysematous Bullae
- P702** Mitomycin C for Rapidly Progressive Subglottic Stenosis
- P703** Intentional Double Mainstem Bronchus Intubation: A Novel Approach to Conservative Management of Distal Tracheal Perforation

- P704** Drowning in Plastic: A Case Report
- P705** Bite the Bullet: An Unusual Case of Foreign Body Aspiration
- P706** Unmasking the Hidden Lung: A Case of Extralobar Bronchopulmonary Sequestration in an Adult
- P707** Treatment of Infectious Complication of Endobronchial Valves, an Unconventional Way
- P708** Asthma or Airway Obstruction? A Case of Substernal Goiter Presenting in Pregnancy
- P709** When the Immune System Builds a Fortress: Castleman's Disease and Its Diagnostic Challenge
- P710** Tracheal Stenosis Secondary to Benign Etiology: Successful Management With Stent Placement
- P711** Incidental Finding of Left Intra-atrial Tumor in Transit Seen on Endobronchial Ultrasound Bronchoscopy
- P712** Management of a Bronchoperitoneal Fistula Using an Endobronchial Valve: A Case Report
- P713** Worse Than Gallstones: Retrieval of a Dislodged ERCP Single-use Cap Via Rigid Bronchoscopy
- P714** Dude, Where's My Dentures? Aspiration of Partial Dentures Leading to Post-obstructive Pneumonia

## CLINICAL

## THEMATIC POSTER SESSION

### C51 CASE REPORTS IN PLEURAL DISEASE

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

Moscone Center

Area K, Hall F (North Building, Exhibition Level)

**Viewing:** Posters will be on display for entire session

**Discussion:** 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1282** Spontaneous Bacterial Empyema Due to Dialister Pneumointes: A Complex Case Requiring Chest Tube and TPA/Dornase Therapy
- P1283** When Every Second Counts: An Atypical Presentation and Diagnostic Approach to Malignant Mesothelioma
- P1284** Bronchoesophageal Fistula as a Complication of Megaesophagus

- P1285** A Novel Case of Spontaneous Candida Glabrata Empyema
- P1286** Spontaneous Bilateral Pneumothorax: A Challenging Case Of Suspected Buffalo Chest With Recurrent Pneumothorax Requiring Advanced Interventions
- P1287** Periodic Pleuroscopies: Timing Matters
- P1288** Unexpected Complications: A Case of Imatinib-induced Serositis Leading to Pericardial and Recurrent Bilateral Pleural Effusions
- P1289** One Too Many Puffs: Vape-Associated Recurrent Pneumothorax in a Healthy Young Adult
- P1290** A Case of Superinfected Urinothorax
- P1291** A Thoracic Twist: Refractory Chylothorax Complicates Chronic Lymphocytic Leukemia
- P1292** Management of Iatrogenic Hemothorax With Intrapleural Tranexamic Acid in a Coagulopathic Cirrhotic Patient With Empyema
- P1293** Catamenial Hemothorax: A Rare Presentation of Thoracic Endometriosis
- P1294** A Case of Non Traumatic Chylothorax From Malignancy
- P1295** Effective Resolution of Loculated Bilothonax With Intrapleural TPA Therapy: A Non-surgical Approach to Management
- P1296** Baby or Breathing? Management of Thoracic Endometriosis in a Patient Seeking Pregnancy
- P1297** An Unexpected Culprit: Sympathetic Pleural Effusion as a Rare Manifestation of Pyogenic Spondylodiscitis
- P1298** Endobronchial Blood Patch With Endobronchial Valve: A One-two Punch to Knock Out Air Leaks
- P1299** A Case Report of Recurrent Pulmonary Edema After Drainage of a Multiloculated Malignant Pleural Effusion With Non-expanding Lung
- P1300** Not So “Sweet” Hydrothorax: A Classic Case of Pleuroperitoneal Fistula Complicating PD
- P1301** Against the Flow: Chylothorax in Nephrotic Syndrome - A Case of High Stakes in Low Protein
- P1302** Chylothorax Related to Subclavian Vein Stenosis
- P1303** How Robot-assisted Surgery Changed the Game for Giant Bullae in Marfan Syndrome
- P1304** A Case of Tension Hydropneumothorax Secondary to Gastric Contents Following Hiatal Hernia Repair
- P1305** Autologous Blood Patch Placement for Management of Secondary Spontaneous Pneumothorax With Bronchopleural Fistula
- P1306** A Tough Nut to Crack: An Interesting Case of Pistachio Shell Aspiration
- P1307** The Macklin Effect
- P1308** Dynamic Evolution of Pleural Effusion: Hepatic Chylothorax Transforming Into Hydrothorax With Trapped Lung in Advanced Cirrhosis
- P1309** A Case of Rapidly Expanding Bilateral Pneumothoraces in the Setting of Septic Emboli
- P1310** What’s Brewing? Endoscopic Esophageal Myotomy Procedure Complicated by Saccharomyces Cerevisiae Empyema
- P1311** Navigating Re-expansion Pulmonary Edema and Recurrent Pleural Effusions in Hepatic Hydrothorax With Trapped Lung: A Delicate Balance
- P1312** Right-sided Pancreatico-pleural Fistula: A Sinister Cause of Recurrent Black Pleural Effusion
- P1313** Pancreaticopleural Fistulas - A Case Series
- P1314** Chylothorax of Abdominal Origin
- P1315** Rapid Recurrence of Hepatic Hydrothorax After Transjugular Intrahepatic Portsystemic Shunt (TIPS) Placement
- P1316** Lung Entrapment Syndrome From Multiloculated Empyema Necessitating Pleural Decortication
- P1317** Milky White Mystery: Chylothorax Unveiling a Nephrotic Storm in a Patient With Focal Segmental Glomerulosclerosis
- P1318** Untreated IBD Presenting as Recurrent Pleural Effusion With Associated Incidental Sjogren’s Syndrome
- P1319** A Diagnostic Mystery: Elevated Triglyceride Levels in a Parapneumonic Effusion
- P1320** A Case of Recurrent Bilateral Spontaneous Pneumothoraces Associated With the Menstrual Cycle
- P1321** Breathless Cycles: A Case Report on Rare Catamenial Pneumothorax

- P1322** Hydropneumothorax Post-pneumothorax in a High-Risk Patient: Diagnostic Challenges and Management Strategy
- P1323** A Double-edged Sword: A Case of Bronchopleural Fistula Following Intrapleural tPA Therapy Forloculated Pleural Effusion
- P1324** TB Determined: A Case of Pleural Mycobacterium Tuberculosis Confounded by Negative Acid-fast Bacillus Staining and Mycoplasma Co-infection
- P1325** A Rare Case of Bilateral Chylothorax Resulting From a Subclavian Bypass Surgery: What's the Protocol?
- P1326** Silent Threats Unveiled: The Hidden Pneumothorax in a Chronic Marijuana User
- P1327** Successful Talc Pleurodesis for Persistent Bronchopleural Fistula in Secondary Spontaneous Pneumothorax Following Failed Endobronchial Valve Insertion
- P1328** Vanishing Effusions - A Case of Rapidly Resolved Pleural Effusion in a Patient With Metastaticgastric Adenocarcinoma
- P1329** Hemothorax as a Complication of Percutaneous Nephrolithotomy
- P1330** Unveiling a Rare Complication: Chylothorax Following Radical Nephrectomy
- P1331** Uremic Pleuritis in the Era of Hemodialysis
- P1484** An Unusual Case of Spanish Alpha-1 Antitrypsin Deficiency
- P1485** The Tale of a Dyspneic Lady With Swollen Hands: A Rare Case of Mixed Connective Tissue Disease Associated Bullous Lung Disease
- P1486** A Case of Vanishing Lung at Altitude
- P1487** A Rare Case of Dyspnea: Plastic Bronchitis in Adulthood
- P1488** A Case of Severe Precocious Bullous Emphysema in a Young Patient With Normal Alpha-1 Antitrypsin (A1AT) Levels
- P1489** Unraveling the Ties Between Betel Nut Chewing, Obstructive Airway Disease, Zenker Diverticulum, and Gastro-esophageal Reflux Disease
- P1490** Plummer Vinson Syndrome in Patient of Chronic Obstructive Pulmonary Disease: A Rare Extrapulmonary Manifestation
- P1491** A Case of Middle Lobe Syndrome: A Complex Underrecognized Entity in Pulmonary Medicine
- P1492** Calcium Channel Blockers Causing Pulmonary Shunting Following Endobronchial Valve Procedure
- P1493** Adjunctive Long-term Mucinex® Use Leading to Improvement in Stable Chronic Bronchitis and Decreased Health Care Resource Utilization - A Case Report
- P1494** A Case of Fluid-Containing Emphysematous Bulla Due to New Malignancy
- P1495** Unrecognized Gastroesophageal Reflux Disease Presenting as Refractory Asthma and COPD Exacerbation
- P1496** A Case of Refractory Respiratory Failure in a Patient With Extensive Lung Damage
- P1497** Spontaneous Resolution of Giant Bullous Lung Disease Following COVID-19 Pneumonia: A Rare Case Report

## CLINICAL

## THEMATIC POSTER SESSION

### C52 CASE REPORTS IN COPD

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

Moscone Center

Area L, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1482** Cases of Improvement in Hypercapnia Patients Requiring NIV After Roflumilast Use
- P1483** Gone With the Breath: Vanishing Lung Syndrome Triggered by COVID-19



**BASIC • CLINICAL • TRANSLATIONAL****THEMATIC POSTER SESSION****C53 CURRENT INSIGHTS INTO RISK, DIAGNOSIS, AND TREATMENT OF OCCUPATIONAL AND ENVIRONMENTAL LUNG DISEASES**

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

Moscone Center

Area H, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P975** Air Pollution and Interstitial Lung Disease: A Retrospective Analysis Across the United States
- P976** Interstitial Lung Disease Is a Major Contributor to Mortality in Patients With Connective Tissue Diseases
- P977** The Impact of Occupational and Domestic Exposures on Longitudinal Pulmonary Function in Interstitial Lung Disease
- P978** Association Between Occupational Inhaled Exposures and the Risk of Interstitial Lung Abnormalities
- P979** Pulmonary Fibrosis Mortality by Industry - California 2017-19
- P980** Trends and Disparities in Pulmonary Hypertension Related to Interstitial Pulmonary Fibrosis in the USA From 1999 to 2020
- P981** Prognosis of Pneumoconiosis Patients With Interstitial Pneumonia (IP)-Retrospective-Prospective Study
- P982** The Current Investigation of Hypoxemia in Pneumoconiosis Patients
- P983** Diffuse Pulmonary Ossification With Pneumoconiosis Confirmed by Transbronchial Lung Biopsy
- P984** Early-Onset Coal Worker Pneumoconiosis With Progressive Massive Fibrosis in a Young Sudanese Male After Brief Exposure
- P985** Respirable Crystalline Silica Control Measures and Medical Surveillance Activities From Workplace Survey of U.S. Engineered Stone Countertop Fabrication Facilities
- P986** When Dust Meets the Lungs: A Case of Pulmonary Alveolar Proteinosis in a Young Patient With Exposure to Silica
- P987** Characteristics of California Engineered Stone Countertop Fabrication Workers Undergoing Lung Transplantation
- P988** Hospitalization Costs and Payors for Silicosis Among Engineered Stone Countertop Workers in California
- P989** Identifying Research Priorities for Silicosis in Australia
- P990** Occupational Respiratory Rapid Response Protocol
- P991** Incidence, Prevalence, and Mortality of Pulmonary Sarcoidosis With Parenchymal Involvement in the US
- P992** Metabolomics of Sarcoidosis Small Fiber Neuropathy
- P993** Longitudinal Lung Function in Progressive Sarcoidosis and Associated miRNA Expression
- P994** BPF GILD Study: Longitudinal Data From an Observational Cohort Study of UK Pigeon Fanciers
- P995** Workplace Exposures and the Development of New Onset Adult Asthma: A Systematic Review With Meta-analysis
- P996** Rare Tracheobronchial Marginal Zone Lymphoma Diagnosed in a Patient With Pesticide Exposure
- P997** Deaths of Patients With Moderate-severe COPD Enrolled in a One-year, Domiciliary, Portable Air Cleaner Randomized Clinical Trial in Chicago, Illinois
- P998** Proteomic Analysis of COPD and Pulmonary Fibrosis Reveals Switch Proteins Related to Cell Signaling
- P999** Black-pigmented Particles in Airway Macrophages in Sputum: A Novel Biomarker in Coal Miners
- P1000** Microplastics in Human Bronchoalveolar Lavage Fluid
- P1001** Breathing Easy? - Understanding Workers' Lung Health In Australia
- P1002** Investigating the Lung-brain Interaction in Asthma Pathogenesis
- P1003** Inhalation Risks and Particulate Emissions From Lithium-ion Battery Thermal Runaway: Impact of State of Charge and Metal Composition

## CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

**C54 LUNGS UNDER ATTACK: THE ONGOING THREAT OF COVID-19 AND OTHER PATHOGENS**

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

Moscone Center

Area H, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1005 The Impact of Short-Term Pollution Exposure on COVID-19
- P1006 Greater Than Threefold Increased Risk of Pneumonia Due to Coronavirus Disease 2019 Among Individuals Who Vape
- P1007 Protective Effect of Face Mask Usage Outside the Workplace Against COVID-19 Risk in Miners
- P1008 Associations of Prepandemic Chronic Kidney Disease Stages With Severe COVID-19 Incidence: The C4R Study
- P1009 Effects of Neighborhood Composition and the COVID-19 Pandemic on Emergency Department Visits for Asthma
- P1010 Analyzing the Effects of Bronchiectasis in Patients During the Coronavirus Pandemic
- P1011 Mining Dust Exposure Not Associated With Higher Odds for SARS-CoV-2 Infection
- P1012 Real-world Vaccine Effectiveness of Coronavac and BNT162b2 in the Adolescent During the Delta and Omicron Periods in Indonesia
- P1013 Pneumo Defense: Enhancing Pneumococcal Vaccination Rates in Veterans Through an Interdisciplinary Approach
- P1014 Prevalence and Correlates of Latent Tuberculosis Infection Among Healthcare Workers at the University Hospital in Monterrey, Mexico
- P1015 Epidemiological Patterns and Chronicity of Melioidosis in Eastern India: A Retrospective Analysis From AIIMS Hospital, Bhubaneswar, Addressing an Underrecognized Public Health Concern

- P1016 Tularemia Mimicking Sarcoidosis
- P1017 Pulmonary Tularemia: A Case Report From Virginia
- P1018 Having a Bad Hare Day: A Case of Tularemia Mistaken for Malignancy
- P1019 Emerging Pathogenicity of *Purpureocillium lilacinum*: A Case of Cavitory Lung Disease
- P1020 "Histoplasmosis Mimicking Lymph Node Metastasis in a Patient With a History of Breast Cancer"
- P1021 From Histoplasmosis to Blastomycosis: A Case Report of Diagnostic Cross-reactivity in Pulmonary Fungal Infections
- P1022 Welder's Anthrax Cases Caused by *Bacillus cereus* Group Bacteria Containing Anthrax Toxin Genes
- P1023 Barking Up the Wrong Tree
- P1024 *Cryptococcus uniguttulatus* Pneumonia: A Cryptic Diagnosis in an Immunocompetent Patient
- P1025 The Sleeping Beauty: Pulmonary Echinococcosis Manifesting After Two Decades of Dormancy
- P1026 Life With HIV: Are We Doing Enough for Those Living With It?
- P1027 Associations of SARS-COV-2 Infection and Long COVID With Respiratory Health in the Collaborative Cohort of Cohorts for COVID-19 Research (C4R) Study
- P1028 Association of Occupation and Exposures With Development of Post-tuberculosis Lung Disease in a Ugandan Cohort

## BASIC • CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

**C55 EXPOSED: INJURY AND CANCER FROM VAPING, MARIJUANA, SMOKE, AND WORKPLACE HAZARDS**

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

Moscone Center

Area H, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1030** Ethnic Disparities in Lung Cancer Prevalence Among Non-smoking Women: A National Inpatient Database Study, 2017-2021
- P1031** Racial/Ethnic and Gender Disparity in Cardiovascular Mortality (CV) Mortality Among Adults Diagnosed With Lung Cancer: A Population-Based Study
- P1032** Detection of Low Bone Mineral Density Using Lung Cancer Screening Low-dose Computerized Tomography
- P1033** Identifying Research Priorities for Occupational Lung Cancer in Australia
- P1034** Lung Cancer Outcomes Associated With Social Vulnerability
- P1035** Incidental Detection of Lung Cancer During Hospital Admission: Clinical Characteristics and Outcomes in a Single-center Retrospective Study
- P1036** Unseen Perils: Wood Stove Smoke as a Cancer Risk Factor
- P1037** Persistent Cough and Occupational Exposure in EGFR-Mutant Non-Small Cell Lung Cancer: A Path From Diagnosis to Targeted Therapy
- P1038** A Sandblaster's Journey in the Shadows of Malignancy: The Case of a Pulmonary Nodule
- P1039** Hallucinating About Lung Cancer: A Case Report
- P1040** Healthcare Delayed Is Healthcare Denied: A Case of Accidental Lung Cancer Diagnosis After a Fall in a Geriatric Patient From a Healthcare-Deficient Background
- P1041** Atypical Debut: Unveiling Brain Metastasis From Occult Lung Adenocarcinoma
- P1042** Hiding in Plain Sight: Atypical Imaging in Mesothelioma
- P1043** Malignant Mesothelioma: A Clinicopathological Conference
- P1044** Recurrent Apical Pneumothorax in a Young Caucasian Male: A Case of Vaping-related Secondary Spontaneous Pneumothorax
- P1045** Macklin Effect: A Rare Complication of Asthma Exacerbation in Heavy Marijuana Users
- P1046** Marijuana Use Associated Subcutaneous Emphysema, Pneumomediastinum, and Pneumothorax in an Asthmatic Patient

- P1047** Rethinking Diagnosis: Desquamative Interstitial Pneumonia in a Smoker Initially Labeled With Emphysema Despite Normal PFTS
- P1048** A Puff Too Far: Eosinophilic Pneumonia Following Vape Use
- P1049** An Unexpected Myriad of Pulmonary Complications Following Vaping and Anabolic Steroid Use
- P1050** Double Trouble: Vaping-induced Lung Injury Complicated by Klebsiella Pneumoniae Infection
- P1051** Vaping Gone Viral: A Case of Evali and Acute Respiratory Distress
- P1052** Noxious Inhalation Lung Injury in the Setting of E-cigarette/Vaping Use
- P1053** E-cigarette or Vaping Product Use-associated Lung Injury - A New Prodrome
- P1054** Electronic Vaping Associated Lung Injury - A Case Report
- P1055** Urinary Metal Levels and Respiratory Health in the Vapescan Study
- P1056** Five-Year Trends in E-cigarette or Vaping-Associated Lung Injury (Evali) Hospitalizations
- P1057** Trends of E-cigarette or Vaping-associated Lung Injury Hospitalizations

## BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

### THEMATIC POSTER SESSION

## **C56** MARINA: FROM DIAGNOSIS TO INTERVENTION: SHAPING PULMONARY EMBOLISM OUTCOMES

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

Moscone Center

Area L, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1359** Trends in Advanced Treatment Utilization After Adoption of Large-bore Embolectomy for Patients With Intermediate- and High-risk Pulmonary Embolism

- P1360** Embolization of Systemic to Pulmonary Artery Shunt on Cardiopulmonary Hemodynamics in Hemoptysis Patients With Structural Lung Disease: A Self-Control Study
- P1361** Causes of Re-admissions Among Patients With Acute Pulmonary Embolism: A Retrospective Analysis
- P1362** Novel Two-dimensional Electrical Impedance Tomography System for Monitoring the Reperfusion Efficacy of Acute Pulmonary Embolism
- P1363** Comprehensive Assessment of Hemodynamic Changes in Pulmonary Embolism Patients Undergoing Mechanical Embolectomy: Largest Single-center Retrospective Study to Date
- P1364** Impact of Initial Anticoagulant Choice on Hospital Length of Stay for Pulmonary Embolism
- P1365** Efficacy and Safety of the Inari Flowtriever System in Intermediate to High-risk Pulmonary Embolism: A Single-center Experience
- P1366** Does Timing Influence Outcomes? Insights From the Largest Single-center Retrospective Study on Diagnosis-to-Procedure Delay and Procedure Duration in Mechanical Embolectomy for Pulmonary Embolism
- P1367** Anticoagulation Use in Septic Pulmonary Embolism: Prevalence, Outcomes, and Insights From a National Inpatient Analysis
- P1368** Clinical Factors and Outcomes Associated With Acute Kidney Injury in Patients With Acute Pulmonary Embolism - A Large Retrospective Analysis
- P1369** 3D Computed Topography Pulmonary Angiography Guidance of Balloon Pulmonary Angioplasty for Chronic Thromboembolic Pulmonary Hypertension
- P1370** The Effect of Advanced Interventional Approaches on Patient Outcomes After Pulmonary Embolism
- P1371** Central Versus Peripheral Location of Pulmonary Embolism in Asplenic Patients: Implications for Chronic Thromboembolic Pulmonary Hypertension (CTEPH) Development
- P1372** Dosage and Duration of Low-molecular-weight Heparin for VTE Prophylaxis in Very Old Patients Hospitalized With COVID-19: A Prospective Cohort Study
- P1373** Evaluating Hemodynamic Indices as Predictors of 30-day Mortality in Intermediate-risk Pulmonary Embolism
- P1374** Initial Experience and Short-term Outcomes of Pulmonary Endarterectomy for Chronic Thromboembolic Pulmonary Hypertension (CTEPH) Patients in a New CTEPH Program in the United Arab Emirates
- P1375** Intensivist-led Veno-arterial Extracorporeal Membrane Oxygenation for Pulmonary Embolism
- P1376** Enhancing Quality Documentation in Mechanical Embolectomy in Pulmonary Embolism: Insights From a Large Single-center Retrospective Study
- P1377** Searching for the PE Sorting Hat: Comparing PE Biomarkers and Response to Therapy
- P1378** Comparison of Time-To-Intervention and Length of Stay Among Patients With Acute Pulmonary Embolism Admitted Directly Versus Those Undergoing Interhospital Transfer: A Retrospective Study
- P1379** Association of Time-To-Anticoagulation (TTAC) With Right Ventricular(RV) Function on Outpatient Follow-up Among Patients With Acute Pulmonary Embolism (PE) Managed by the Pulmonary Embolism Response Team (PERT): A Retrospective Study
- P1380** Development of Heparin-induced Thrombocytopenia in Chronic Thromboembolic Pulmonary Hypertension Patients Post-Pulmonary Thromboendarterectomy
- P1381** Decrease in Global Average Wall Shear Stress in Intermediate Risk Pulmonary Embolism

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

**C57 TWIN PEAKS: NEW HORIZONS IN PULMONARY HYPERTENSION MANAGEMENT**

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

Moscone Center

Area L, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees



- P1383** Comparison of Triple Oral and Triple Parenteral Combination Therapy in Pulmonary Arterial Hypertension
- P1384** Patients With History of Methamphetamine Use Are More Likely to Have Risk Evaluation and Mitigation Strategy Medications for Pulmonary Arterial Hypertension Stopped Due to Non-adherence
- P1385** Influence of Age in the Assessment of Therapeutic Response in Patients With Pulmonary Arterial Hypertension
- P1386** Comparing Pulmonary Arterial Hypertension Care in Rural and Urban Settings: Similarities, Surprises, and Treatment Trends
- P1387** Peripheral Microvascular Endothelial Function in Pulmonary Arterial Hypertension: Impact of Therapy
- P1388** Use and Association of Prescription Medications With Pulmonary Arterial Hypertension: Results From Case-control XPOSE Study
- P1389** A Team-based Patient Engagement Approach to Selexipag Initiation and Maintenance in Pulmonary Arterial Hypertension (TEAM PAH): Interim Analysis of a Real-world Retrospective Study
- P1390** Efficacy and Safety of Oral Treprostinil in Intermediate-High Risk Pulmonary Arterial Hypertension: A FREEDOM-EV Subgroup Analysis
- P1391** Comparative Efficacy of Inhaled Nitric Oxide Versus Prostacyclin Analogues on Hemodynamic Outcomes in Pulmonary Hypertension: A Systematic Review and Meta-analysis
- P1392** Hemodynamic and Echocardiographic Outcomes of Sotatercept in Patients With Group 1 Pulmonary Arterial Hypertension (PAH)
- P1393** Thrombocytopenia Associated With Epoprostenol and Treprostinil Alone and in Combination With Sotatercept
- P1394** Hemodynamic Effects of IV Prostacyclins in Patients With PAH-CHD
- P1395** Comparison of Methamphetamine to Non-Methamphetamine Pulmonary Arterial Hypertension
- P1396** Real-world Retrospective Cohort Study of Oral Selexipag in Methamphetamine-associated Pulmonary Arterial Hypertension: An Interim Analysis From TEAM PAH

- P1397** Survival in a Cohort of Patients With PAH-CHD Receiving Prostacyclins
- P1398** Adherence in Patients With Methamphetamine-associated Pulmonary Arterial Hypertension
- P1399** A Real-world Pharmacovigilance Study on Endothelin Receptor Antagonists for Treatment of Pulmonary Artery Hypertension

### BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

### THEMATIC POSTER SESSION

## C58 GOLDEN GATE: BRIDGING THE GAPS AND EMERGING TRENDS IN PULMONARY HYPERTENSION IN ILD

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

Moscone Center

Area L, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1401** Changes in Cardiac Effort in Pulmonary Hypertension-Interstitial Lung Disease: Insights From the Ascent Trial
- P1402** Distinct Hemodynamic Patterns in Patients With Pulmonary Hypertension Associated With Combined Pulmonary Fibrosis and Emphysema
- P1403** Screening of Pulmonary Hypertension in Interstitial Lung Disease in the PHINDER Study: A Comparison of Physician Gestalt With Hemodynamics
- P1404** An Ascent to Week 8: Initial Safety and Exploratory Efficacy Data on LIQ861 Dry Powder Inhaled Treprostinil in Ph-ILD Patients
- P1405** The Difference in Survival Between Different Phenotypes of Patients With COPD and Pulmonary Hypertension (COPD-PH)
- P1406** Evaluation of Non-invasive Parameters to Predict Pulmonary Hypertension Presence in Patients With Sarcoidosis
- P1407** Survival Prediction in All-cause Systemic Sclerosis-associated Pulmonary Hypertension

## BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

- P1408** From Stiff Skin to Strained Hearts: The Cardiovascular Toll of Pulmonary Hypertension in Systemic Sclerosis
- P1409** A Comparison of Pulmonary Artery Diameter and Pulmonary Artery to Aorta Ratio to Right Ventricular Systolic Pressure (RVSP) as a Noninvasive Screening Tool for Idiopathic Pulmonary Fibrosis Patients With Group 3 Pulmonary Hypertension
- P1410** Pulmonary Vascular Pruning on CT Imaging Is Associated With Poorer Hemodynamics in Chronic Hypersensitivity Pneumonitis and Pulmonary Hypertension
- P1411** Prognostic Value of Pulmonary Vascular Resistance/Systemic Vascular Resistance (PVR/SVR) Ratio in Idiopathic Pulmonary Fibrosis-Associated Pulmonary Hypertension (IPF-PH)
- P1412** Hemodynamic Phenotypes of Interstitial Lung Disease Patients Enrolled in the PHINDER Study (Pulmonary Hypertension Screening in Patients With Interstitial Lung Disease for Earlier Detection)
- P1413** Evaluation of Screening for Pulmonary Hypertension Associated With Chronic Respiratory Disease
- P1414** BNP Lacks Sensitivity for Detecting Pulmonary Hypertension in Interstitial Lung Disease
- P1415** Clinical and Radiographic Characteristics of Patients With Systemic Sclerosis Associated Pulmonary Hypertension and Interstitial Lung Disease and Response to Pulmonary Vasodilator Therapy
- P1416** Shifting Paradigms: Exploring Super-responders to Prostacyclin Therapy in Systemic Sclerosis-associated Pulmonary Arterial Hypertension - A Case Series and Review of Literature
- P1417** Clinical Characteristics of Patients With Sarcoid-associated Pulmonary Hypertension: A Case Series
- P1418** Antifibrotic Therapy Combined With Pulmonary Vasodilator Therapy May Improve Survival in Patients With Idiopathic Pulmonary Fibrosis or Other Fibrotic ILD and Pulmonary Hypertension

## C59 UNION SQUARE: MOLECULAR INSIGHTS INTO PULMONARY HYPERTENSION: FROM ANIMAL MODELS TO CLINICAL RELEVANCE

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

Moscone Center

Area L, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1420** Endothelial Prothrombotic Responses Are Influenced by Piezo1 Tachyphylaxis and Loss of Piezo1 Following Agonist Stimulation
- P1421** Fibrin D-dimer Levels Identify a Unique Endotype in Pulmonary Hypertension
- P1422** Characterizing a Two-hit Murine Pulmonary Hypertension Model of Phenylhydrazine-induced Hemolysis and Hypoxia, Echocardiographic Findings and Markers of Endothelial Dysfunction
- P1423** Soluble Guanylate Cyclase Stimulator Mediated Tgf- $\beta$  Induced Autophagy Related to Chronic Thromboembolic Pulmonary Hypertension
- P1424** The G6PD A- Variant Does Not Mediate Pulmonary Hypertension Phenotypes in Mice
- P1425** Loss of RASA3 Fails to Protect Human Lung Microvascular Endothelial Cells Against Hemin-induced Injury
- P1426** Varying Efficacy of Tadalafil in Bone Morphogenetic Protein Receptor 2 Mutation Carriers Compared to Wild Type Rats in an Experimental Model of Pulmonary Arterial Hypertension
- P1427** Mesenchymal Stem Cell Extracellular Vesicles (MSC-EVs) Prevent Monocrotaline-induced Pulmonary Hypertension by Altering Gene Expression in Bone Marrow Derived Progenitor Cells

## BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

**C60 LINCOLN PARK: HYPOXIA AND VASCULAR REMODELING IN PULMONARY HYPERTENSION: UNCOVERING KEY MOLECULAR TARGETS**

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

Moscone Center

Area C, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P249 Hypoxia Responses in Arginase-2 Deficient Mice Enhance Cardiovascular Health**
- P250 Erythrocytes From Animals and Humans Subjected to Frequent Hypoxia Exposures Undergo Fructolysis and Transfer Fructose to Pulmonary Endothelium**
- P251 Endostatin Antibody Treatment Prevents Hyperoxia-induced Neonatal Murine Lung Injury**
- P252 Elucidating the Role of Triggering Receptor Expressed on Myeloid Cells-1 (TREM-1) in Hypoxic Pulmonary Hypertension**
- P253 Intermittent Hypoxia, A Hallmark of Obstructive Sleep Apnea, Contributes to Pulmonary Artery Endothelial Cell Dysfunction in Pulmonary Arterial Hypertension**
- P254 Sexually Dimorphic Effects of Dexamethasone in Protecting Against Hypoxic Pulmonary Hypertension**
- P255 Vascular Remodeling in a Murine Model of COPD PH Induced by Exposure to Cigarette Smoke During Hypoxic Conditions**
- P256 C5a Mediated Platelet Activation and Pulmonary Hypertension in Response to Hypoxia**

## BEHAVIORAL • CLINICAL

## THEMATIC POSTER SESSION

**C61 THE VIEW FROM OAKLAND BAY BRIDGE- WHEN LUNGS AND HEARTS COLLIDE: COMPLEX PULMONARY HYPERTENSION CASE REPORTS**

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

Moscone Center

Area L, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1429 Percutaneous Transluminal Peripheral Pulmonary Artery Biopsy (PT-PPAB) for the Diagnosis of Unidentified Pulmonary Artery Disease**
- P1430 Unmasked Pulmonary Hypertension After Successful Liver Transplantation**
- P1431 Sotatercept Super-responder: Rapid Right Ventricular Remodeling in Systemic Sclerosis Associated Pulmonary Arterial Hypertension**
- P1432 Gastrointestinal Bleeding Associated With Activin Signaling Inhibitor (Sotatercept) Use in a Patient With Systemic Sclerosis Associated Pulmonary Arterial Hypertension (PAH), Walking a Thin Line?**
- P1433 Rapid Hemodynamic Improvement With Sotatercept in Pulmonary Arterial Hypertension Patients With Cardiomegaly Implant**
- P1434 Total Parenteral Nutrition-Induced Exipient Lung Disease Complicated by Severe Pulmonary Hypertension**
- P1435 Unmasking Pulmonary Hypertension in Hereditary Hemochromatosis: A Patient's Story**
- P1436 Outcomes of Pulmonary Veno-occlusive Disease Patients at a Lung Transplantation Center**
- P1437 The Effects of Non-myeloablative Allogeneic Hematopoietic Stem Cell Transplant on the Development of Pulmonary Hypertension in a Patient With Sickle Cell Disease**
- P1438 Pulmonary Artery Sarcoma and Chronic Thromboembolic Pulmonary Hypertension: A Meeting of Rarities**

- P1439** A Tale of Two Effusions: Management of Pericardial Effusions in Two Patients With Precapillary Pulmonary Hypertension
- P1440** Teamwork Makes the Dream Work: Conquering Pulmonary Hypertension in Pregnancy
- P1441** Diverging Paths: Contrasting Management of Chronic Thromboembolic Pulmonary Hypertension in Myelodysplastic Syndrome
- P1442** The Phourth Pathway in PAH: Experience in the “Underserved” Central Valley of California
- P1443** Beyond the Bone Marrow: An Interesting Case of Pulmonary Hypertension
- P1444** A Case of Recurrent Pulmonary Artery Intimal Sarcoma Centered at the Pulmonic Valve Causing Right Ventricular Outflow Tract Obstruction and Isolated Elevated Right Ventricular Systolic Pressure
- P1445** Successful Management of Pulmonary Hypertension Caused by Post-tuberculous Fibrosing Mediastinitis
- P1446** Delivering Against the Odds: A Case Series of Successful Outcomes in Pulmonary Arterial Hypertension During Childbirth
- P1447** Unmasking the Aftermath: A Case of Post TB Pulmonary Hypertension With Complex Respiratory Sequelae
- P1448** Paraneoplastic Scleroderma and Pulmonary Arterial Hypertension
- P1449** A Unique Case of Pulmonary Veno-occlusive Disease in a Patient With Neurofibromatosis Type 1
- P1450** Anomalous Pulmonary Venous Return Causing Group 1 Pulmonary Hypertension in a 79 Year Old Male
- P1451** Uncharted Territories: Successful Long-term Calcium Channel Blocker Therapy for Pulmonary Arterial Hypertension in Sickle Cell Disease
- P1452** A Challenging Diagnosis: When to Suspect Pulmonary Veno-occlusive Disease
- P1453** Invasive Hemodynamics in the Management of Sarcoidosis Associated Pulmonary Arterial Hypertension
- P1454** A Case of Dasatinib Induced Pulmonary Hypertension
- P1455** A Hole Lot of Problems: Unusual Presentation and Complications of Severe Pulmonary Hypertension in an Elderly Female Living at High Altitude With Atrial Septal Defect
- P1456** Pregnancy Unmasking Pulmonary Veno-occlusive Disease Variant Pulmonary Hypertension
- P1457** Pulmonary Capillary Hemangiomatosis and Successful Use of Pulmonary Vasodilators During and After an Acute Decompensation of Pulmonary Hypertension
- P1458** Persistence of Pulmonary Hypertension Symptoms After Two PTEs in a Patient With CTEPH
- P1459** Maternal Pulmonary Arterial Hypertension Treated With IV Epoprostenol - A Case Report
- P1460** What It Is Like to Be Living With Severe Pulmonary Hypertension Due to Total Anomalous Pulmonary Venous Return as an Adult
- P1461** Use of Cardiomeas in a Patient With Severe Pulmonary Arterial Hypertension
- P1462** Unexpected Vasodilator Response in a 38-year-old Female With Longstanding Restrictive Lung Disease and Elevated Right Heart Pressures
- P1463** A Very Rare Cause of Pulmonary Hypertension: Intravascular Large B-cell Lymphoma
- P1464** Transitioning From Parenteral Treprostinil to LIQ861 in a Patient With PAH
- P1465** Halo Sign in a Patient With Diffuse Alveolar Hemorrhage Secondary to Type 2 Pulmonary Hypertension
- P1466** A Shunt in the Dark: AVM-Induced Pulmonary Hypertension
- P1467** Complex Case of Melena and Epistaxis in a Patient With Advanced Pulmonary Sarcoidosis and Pulmonary Hypertension: A Multidisciplinary Approach to Management
- P1468** Rapidly Fatal Pulmonary Arterial Hypertension: Phentermine Precipitating Right Ventricular Failure in a Woman With Lupus
- P1469** Pulmonary Hypertension Induced Ventricular Arrhythmias: Clinical Challenges and Gaps in Management
- P1470** Pulmonary Veno-Occlusive Disease: A Rare and Unforgivable Yet Curable Cause of Pulmonary Hypertension



- P1471** Pulmonary Hypertension in a Patient With Newly-Diagnosed Multiple Myeloma
- P1472** A Deadly Combination in Systemic Lupus Erythematosus: Pulmonary Arterial Hypertension and Interstitial Lung Disease
- P1473** The Quadratic Impact of Positive Pressure Ventilation on Right Ventricular Afterload in Obesity Hypoventilation Syndrome-associated Pulmonary Hypertension
- P1474** Acute on Chronic Thromboembolic Pulmonary Hypertension in a Patient With A Large, Unrepaired Atrial Septal Defect in Eisenmenger Syndrome
- P1475** Thrombocytopenia Caused by Treprostinil
- P1476** Effective Pharmacotherapy in Hereditary Pulmonary Arterial Hypertension: A Case of BMPR2 Mutation
- P1477** A Rare Case of Pulmonary Hypertension With Potential Vascular Origin in a 29 Year-old Pregnant Female
- P1478** Amphetamine Induced Group I Pulmonary Hypertension: A Case Report of Unforeseen Consequences
- P1479** Experience of a Hospital Referral Center in Mexico State, in the Use of Prostacyclin Analogs for the Management of Severe Pulmonary Arterial Hypertension - Regarding 3 Cases
- P1480** Pulmonary Arteriovenous Malformations in BMPR2-Associated Pulmonary Arterial Hypertension

### BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

#### THEMATIC POSTER SESSION

### **C62** TELEGRAPH HILL- UNVEILING THE FUTURE: LATE-BREAKING RESEARCH ON PULMONARY VASCULAR PATHOPHYSIOLOGY

9:15 a.m. - 4:15 p.m. **Moscone Center**

Area D, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P511** Trends in Management and Short-Term Outcomes of Patients With Pulmonary Embolism and Hemodynamic Instability: Baseline Characteristics, Treatment Decisions, and Clinical Outcomes
- P512** Novel and Superior Treatment of Pulmonary Hypertension With Netrin-1-derived, Modified and Improved Small Peptides
- P513** Nampt Overexpression in Pulmonary Arterial Endothelial Cells Promotes Glycolysis
- P514** The Impact of Co-morbidities on In-Hospital Mortality and Need for Mechanical Ventilation in Acute Pulmonary Embolism - A Retrospective Cohort Study
- P515** Impact of Obstructive Sleep Apnea on Outcomes of Mechanical Thrombectomy for Pulmonary Embolism: A Retrospective Nationwide Analysis
- P516** Adult Univentricular Congenital Heart Disease Associated With Pulmonary Hypertension. Experience of an Expert Center in Mexico

### BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

#### THEMATIC POSTER SESSION

### **C63** CF AND NON-CF BRONCHIECTASIS IN CHILDREN

9:15 a.m. - 4:15 p.m. **Moscone Center**

Area F, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P715** Impact of Home Use of Oscillation and Lung Expansion Therapy on Lung Function: A Case Series
- P716** Clinical Presentations of Asian Pediatric Cystic Fibrosis Patients With Non-delta F508 Mutation in Hong Kong
- P717** Persistent Wheeze in an Infant With a Rare CFTR Mutation and Cardiac Bronchus Anomaly
- P718** Conversion of CFTR-related Metabolic Syndrome (CRMS) to Cystic Fibrosis (CF) Based on Clinical Features: A Case Report

- P719** Clinical Improvement After Starting Trikafta in Patient With Homozygous 3718-2477cT (Intronic, Splicing)
- P720** Persistent Chronic Rhinosinusitis in Cystic Fibrosis: Exploring the Role of Dupilumab and IgA Deficiency
- P721** When Cystic Fibrosis Meets TANGO2: Navigating Metabolic and Neurological Crises in a Pediatric Patient
- P722** Optimizing Diabetes Screening for Cystic Fibrosis Patients: A Center's Success Story
- P723** Complex Neonatal Presentation of Cystic Fibrosis (CF) with Concurrent Diaphragmatic Hernia and Multiorgan System Failure
- P724** Hidden Scars of Prematurity: Bronchopulmonary Dysplasia Leading to Bronchiectasis
- P725** Synergistic Heterozygosity: Clinical Manifestations in Twins With Co-occurring Pathogenic Variants for Cystic Fibrosis and Primary Ciliary Dyskinesia
- P726** A Case Report of Acilia Syndrome With Retinitis Pigmentosa in a Female Adolescent
- P727** Williams-Campbell Syndrome in a Pediatric Patient: A Case Report
- P728** Clearing the (Air)way: A Spotlight on the Impact of Delayed Cystic Fibrosis Diagnosis
- P729** Variability in the Phenotype of Primary Ciliary Dyskinesia Linked to DNAH11 Among Specific Arab Tribes in Qatar
- P730** Evaluating Implementation of Health-related Quality of Life Measures for Patients With Primary Ciliary Dyskinesia Supports Development of a Latin American Spanish Questionnaire
- P731** Prevalence of Bronchial Hyperreactivity and Atopy in Patients With Primary Ciliary Dyskinesia: A Preliminary Study
- P732** Changes in Pulmonary Function After *Pseudomonas Aeruginosa* Eradication in Patients With Primary Ciliary Dyskinesia
- P733** The Association Between Meconium Ileus Severity and Growth and Lung Disease in Children With Cystic Fibrosis
- P734** Pediatric Patients With Cystic Fibrosis and Anxiety or Depression Have an Elevated Risk of Dyspnea

- P735** Prevalence of Environmental Nontuberculous Mycobacteria at a Hawai'i Cystic Fibrosis Center
- P736** Challenges and Opportunities: Perspectives From the United States Cystic Fibrosis Physician Workforce Survey
- P737** Home Cough Monitoring Reveals Higher Nighttime Cough Burden in Children With Cystic Fibrosis Compared With Healthy Children
- P738** Exploring the Diagnostic Yield of Sweat Tests for Cystic Fibrosis in Meconium Ileus Patients in a Low-incidence City: Next Steps in Investigation
- P739** Exploring the Frequency and Impact of Obstructive Sleep Apnea Symptoms on Quality of Life in Children With Cystic Fibrosis: A Prospective Observational Study

## CLINICAL

## THEMATIC POSTER SESSION

### C64 CASE REPORTS IN PEDIATRIC PULMONARY HYPERTENSION AND CARDIOVASCULAR DISEASES IMPACTING THE LUNGS

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

Moscone Center

Area F, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P740** Collateral Damage: Hemoptysis in a Child With Fontan Physiology
- P741** A Case of High Pressure and High Stakes: Pulmonary Arterial Hypertension Emergence in an Infant With Hereditary Hemorrhagic Telangiectasia
- P742** Pediatric Pulmonary Veno-Occlusive Disease: A Clinical Diagnosis From the Door
- P743** Just Breathe: The Role of Positive Airway Pressure on Management of Pulmonary Hypertension in Sleep-related Hypoventilation
- P744** Pulmonary Veno-occlusive Disease (PVOD) Contributing to Pulmonary Arterial Hypertension in an 11-year Old Boy With a Heterozygous Pathogenic Variant in EIF2AK4

- P745** Hypoxemia and Jaundice in a Child With Cirrhosis and Portal Hypertension
- P746** A Rare Case of Cor Triatriatum Sinister With Atrial Septal Defect and Severe Failure to Thrive
- P747** Double Outlet Right Ventricle Accompanied by Pulmonary Artery Atresia and Atrio Ventricular Septal Defects - A Rare Case Report
- P748** Refractory Pulmonary Arterial Hypertension as a Presentation for a Type 1 Interferonopathy in a Toddler
- P749** Lungs, Heart, or Both?
- P750** Pulse Oximetry Conundrum: Uncovering a Rare Hemoglobinopathy

## CLINICAL

## THEMATIC POSTER SESSION

### C65 CASE REPORTS IN PEDIATRIC NEOPLASTIC AND LYMPHOPROLIFERATIVE DISORDERS IMPACTING THE LUNGS

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

Moscone Center

Area F, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P751** Tiny Airways With Big Challenges, A Novel Case of Pediatric Endobronchial Mucoacinar Carcinoma
- P752** When Pneumonia Misleads: The Discovery of a Carcinoid Tumor in a Young Patient
- P753** An Unusual Presentation of Pulmonary Infantile Hemangioma
- P754** ARDS in a Child With Lymphoma That Was in Remission - Infectious vs Non-infectious Diagnostic Dilemma
- P755** Breaking the Mold, A Rare Lung Neoplasm in Childhood
- P756** Under the Radar: Multiple Pulmonary Hemangiomas in an Asymptomatic Child

- P757** When to Think Twice About Steroids: Case of an Atopic Child With Wheeze Found to Have Mediastinal Mass Due to T-cell Acute Lymphoblastic Leukemia
- P758** Extracorporeal Membrane Oxygenation: A Life Saving Intervention for Langerhans Cell Histiocytosis in a Pediatric Patient With Severe Air-leak
- P759** Finding the Castle: Diagnosing Castleman Syndrome in Healthy Pediatric Female
- P760** Stridor in Children Is Not Always a Benign Symptom
- P761** Persistent Pneumonia Revealing a Rare Inflammatory Myofibroblastic Tumor in the Lung
- P762** Unilateral Pulmonary Disease as a Presentation of T-cell Lymphoma in a Pediatric Patient
- P763** Diagnosis of Diffuse Large B-cell Lymphoma in a Pediatric Patient With Chronic Cough: A Case Report

## CLINICAL

## THEMATIC POSTER SESSION

### C66 LATE BREAKING SCIENCE IN PULMONARY INFECTIONS

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

Moscone Center

Area M, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1513** Glucagon-Like Peptide-1 Receptor Agonists and Respiratory Diseases: A Systematic Review and Meta-Analysis
- P1514** The Burden of Community-acquired Respiratory Viral Infections in High-risk Immunocompromised Patients After the COVID-19 Pandemic
- P1515** Inhaled Osimertinib for the Treatment of Malignant Pleural Mesothelioma
- P1516** Electronic Decision Support For Pneumonia Is Associated With Reduced Outcome Disparities

- P1517** Increased Long-Term Mortality of *Klebsiella* Spp. Infection Caused by Antimicrobial Resistance but Not Virulence
- P1518** Development of SR1375, a Novel Lipoprotein-Associated Phospholipase A2 Inhibitor as an Effective Oral Drug Candidate for Pneumonia With Comorbidities
- P1519** Protein Kinase CGMP-Dependent 2 Deficiency Increases the Mortality and Virus Hemagglutinin Titer in H1N1 Infected Mice
- P1520** Alpha-melanocyte-stimulating Hormone Knockout Improves Survival In Influenza-infected Mice
- P1521** Duration of Tamoxifen Use and Incidence of Pneumonia in Breast Cancer Patients
- P1522** Evaluation of Diagnostic Performance and Microbiological Efficacy of *Pneumocystis Jirovecii* Pneumonia by Detection of *P. Jirovecii* DNA in Blood Samples Using Digital PCR
- P1523** Unseasonal Respiratory Syncytial Virus Epidemics During the COVID-19 Pandemic: Relationship Between Climatic Factors and Epidemic Strain Switching
- P1524** Therapeutic Hypoxia-inducible Factor 1a Stabilization Activates Antimicrobial Peptide Expression and Prevents Bacterial Pneumonia
- P1525** Nanoparticle Encapsulated Deferiprone Attenuates Iron-driven *Aspergillus Fumigatus* Protease Activity
- P1526** Single-cell RNA Sequencing Reveals Macrophage Phenotypical and Functional Regulation by Baseline MCMV Infections in Mice With Bacterial Pneumonia
- P1527** Evaluation of Molecular Tests With Different Complexities for Detection of Multi-Drug Resistant Tuberculosis at the Time of Russia's Invasion of Ukraine: Results From TBpreparedness4Ukraine Study
- P1528** A Novel Approach to Determine the Protective Value of ESAT-6-specific T Cells in Tuberculosis
- P1529** Characteristics and Outcomes of Pulmonary Tuberculosis Patients With Sputum Co-isolation of Non-tuberculous *Mycobacteria*, New York City 2010-2023

- P1530** Treatment Outcomes of Patients With Multidrug Resistant / Rifampicin Resistant Tuberculosis Under the Nationwide Approval Process for Bedaquiline or Delamanid Use
- P1531** Treatment Outcomes of *Mycobacterium Avium* Complex Pulmonary Disease With a Two Drug Regimen Using Macrolide and Ethambutol
- P1532** Lung Function Evaluation During Pulmonary Tuberculosis Treatment
- P1533** Association Between History of Tuberculosis Treatment and Treatment Initiation Within 6 Months Among Individuals With Drugs-Resistant Tuberculosis Registered in Jakarta

## CLINICAL SCIENCE

## THEMATIC POSTER SESSION

### C67 MICROBIAL THREATS IN FOCUS: TRANSLATIONAL AND CLINICAL INSIGHTS INTO RESPIRATORY VIRAL INFECTIONS AND METAGENOMICS

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

Moscone Center

Area M, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1534** Metabolic Dysfunction-Associated Steatotic Liver Disease Increases the Risk of Lung Abscess: Findings From a Nationwide Cohort Study
- P1535** The Bacteriology of Pulmonary Infection: An Exploratory Metagenomics Analysis Through Next Generation Sequencing
- P1536** Pneumolysin Influences the Tissue Resident Adaptive Immune Landscape of the Murine Lung
- P1537** Determining the Impact of Chronic Obstructive Pulmonary Disease (COPD) on the Severity of COVID-19 Infection: 2020-2021 Nationwide Analysis
- P1538** The Relentless Respiratory Manifestations of Long Covid: A Retrospective Study of Long Covid Clinic Patients at Uconn Health
- P1539** FEF 25-75 Remains Impaired 2 Years After Acute COVID-19 Infection



- P1540** Long-Term Follow-up of Patients Recovering From Moderate-To-Severe COVID-19
- P1541** Clinical Features of Patients With COVID-19 Recurrence During Hospitalization in the Omicron Variant Surge
- P1542** Comparing Place-based Determinants of Health as Predictors for COVID-19 Outcomes in Urban California: A Bayesian Spatial Modeling Approach
- P1543** Predictors of Mortality Among Hospitalized Patients With Covid-19: Retrospective Analysis
- P1544** Methylation Score Could Improve Prediction of Clinical Outcomes in COVID-19
- P1545** Novel Steroid Protocol for COVID-19 Pneumonia: A Significant Change for Hypoxic Patients
- P1546** Role of Steroids in the Treatment of Persistent Respiratory Symptoms After COVID-19 Infection - An Observational Study
- P1547** Latent Class Analysis of COVID-19 Infection: Phenotyping Using Clinical Data and CT Chest
- P1548** A Non-infectious Murine Model of Chronic COVID-19: Profile of the Cardiopulmonary and Inflammatory Changes 3 Months After Single Exposure
- P1549** Proinflammatory Pulmonary Effects of SARS-CoV-2 Main Protease in Mice and Human Bronchial Epithelial Cells
- P1550** The Impact of Pneumococcal Detection on Mortality in COVID Patients
- P1551** In Silico Binding of Computationally Folded Structures of Human Surfactant Protein D (hSP-D) to SARS-CoV-2 Spike Wild Type and ACE2 Show Low Likelihood of SP-D's Role in Blocking SARS-CoV-2 ACE2 Binding
- P1552** Age-associated Differences in T Cells of the Nasal Mucosa During SARS-CoV-2 Infection
- P1553** Exploring Human Respiratory Organoids for Insights Into Influenza and Coronavirus Pathogenesis
- P1554** Electronic Cigarettes Exaggerate Influenza A Virus-induced Cell Death in Alveolar Epithelial Cells
- P1555** Protectin Conjugates in Tissue Regeneration (PCTRs) Accelerate the Resolution of Lung Inflammatory Responses After Influenza A (H1N1) Virus Infection in Mice
- P1556** Rapid Hepatic Fat Accumulation During Influenza Infection in Aged Mice
- P1557** Respiratory Syncytial Virus (RSV) Infection Among High-risk Adult Groups Hospitalized for Respiratory Infection Across Two Consecutive Seasons in Greece
- P1558** Relative Risk of Death in Critically Ill Patients With Influenza and Respiratory Syncytial Virus: A Population Analysis
- P1559** Hospital Variation in Ribavirin Use Among Adults Hospitalized With Respiratory Syncytial Virus (RSV) Infections
- P1560** Viral Respiratory Infection and Hospital Stay in Children With Asthma Attacks in a Pediatric Hospital in Bogotá
- P1561** DLco Abnormalities, Independent of Spirometry, and Obstructive Lung Disease Are Associated With Increased Hospital Admission Rates
- P1562** Advanced Test Models for Delivery and Therapeutic Window of Novel Inhalable RNA Therapies
- P1563** Improvement in Deep Learning for RALE Score Prediction Through Annotations, Data Science and Computer Vision

**CLINICAL****THEMATIC POSTER SESSION****C68 CASE INSIGHTS INTO NON-TUBERCULOUS MYCOBACTERIA AND ZOONOTIC INFECTIONS**

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

Moscone Center

Area M, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1564** Mycobacterium Xenopi: A Small Case Series of Patients in the Bronchiectasis Research Registry
- P1565** The Unsung Mycobacterium: A Rare Case of Right Middle Lobe Syndrome Due to Mycobacterium Kansaii
- P1566** From Antibiotics to Surgery: A Case of Infected Pulmonary Bullae With Mycobacterium Szulgai

- P1567** The Third Documented Case of Mycobacterium Shimoidei in the United States
- P1568** Unmasking an Unusual Suspect: Recurrent Mycobacterium Szulgai Infection in a Young Immunocompetent Male
- P1569** An Uncommon Culprit: Chronic Lung Infection With Mycobacterium Nebraskense
- P1570** A Challenging Case of Mycobacterium Chimaera Pulmonary Infection in an Elderly Patient With Recurrent Pneumonia
- P1571** A Rare Case of Pleural Non Tuberculous Mycobacterial Infection in the Absence of Pulmonary Infection
- P1572** Aggravation of Nontuberculous Mycobacterial Pulmonary Disease Presenting as Variably Sized Lung Masses
- P1573** Nontubercular Mycobacterium Masquerading as a Solitary Lung Nodule: A Case Against the Anchoring Bias
- P1574** Disseminated Mycobacterium Avium Complex Masquerading as a Lymphoproliferative Disorder: A Case Report
- P1575** Therapeutic Management of an Immunocompromised Patient With Disseminated M. Avium Disease
- P1576** Hemoptysis in a Patient With Cavitory Mycobacterium Avium Complex (MAC) Pulmonary Disease
- P1577** Cavitory Lung Lesions in Immunocompromised Patients: Insights From a Case of Non-tuberculous Mycobacterial (NTM) Infection in CD4 Lymphocytopenia
- P1578** Mycobacterium Avium Complex Biofilm in a Lung Cavity
- P1579** A Rare Mycobacterial Infection Presenting as Worsening Cavitory Lung Lesions
- P1580** From Expense to Adverse Effects: Multiple Barriers in the Progression of Mycobacterium Avium Complex (MAC) Lung Disease
- P1581** Choking on Elegance: A Case Report of Lady Windermere Syndrome
- P1582** Case of a Very Silent Infection: M. Avium
- P1583** An Emerging Opportunistic Threat: A Rare Case of Mycobacterium Chimaera in a Non-surgical Patient With Both Fibrocavitary and Nodular Bronchiectatic Disease
- P1584** Beyond COPD: A Case of Persistent Respiratory Symptoms Unveiling Atypical Mycobacterial Infection
- P1585** A Complex Case of Disseminated Mycobacterium Kansaii, Hemophagocytic Lymphohistiocytosis, and Chronic Myelogenous Leukemia in a Patient With Multiple Sclerosis on Ocrelizumab Therapy
- P1586** Hidden in Plain Sight: Identifying Mycobacterium Abscessus as the Covert Cause of Chronic Lung Cavitory Lesions
- P1587** Mycobacterium Tuberculosis and Mycobacterium Abscessus Co-infection
- P1588** Pulmonary Cavitory Lesions: Mycobacterium Abscessus or Malignancy?
- P1589** A Convergence of Pathogens: Exploring the Co-infection of Mycobacterium Avium and M. Abscessus
- P1590** One Shell of a Pneumonia: Atypical Pneumonia From Mycobacterium Paragordoniae in A 49-year-old Male Contracted From His Pet Turtle
- P1591** Broncho Lithiasis in Primary Ciliary Dyskinesia With Chronic Pseudomonal Infection
- P1592** Good Syndrome With Thymoma and Bronchiectasis in a 71-year-old Patient
- P1593** Strongyloides-Induced Persistent Pulmonary Symptoms
- P1594** Cerebral Malaria: A Case of Morbid Rise in Parasitemia
- P1595** Extra-intestinal Balantidiasis in an 84-year-old Male
- P1596** Hantavirus Pulmonary Syndrome: A Rare but Persistent Presentation of Zoonotic Infections in the Western United States
- P1597** Rapid Progression of Shock and Multi-Organ Failure in a Pediatric Patient With Hantavirus Pulmonary Syndrome
- P1598** Leptospirosis in the Concrete Jungle: A Case Report in an Urban Setting Presenting With Septic Shock and Encephalitis

- P1599** A Case of Leptospirosis Induced Acute Respiratory Distress Syndrome
- P1600** Uncommon Presentation of Pulmonary Echinococcosis With a Bacterial Superinfection in a Non-endemic Region
- P1601** Cutting It Close: The Tularemia Tale of Lawn Mowers and Rabbits
- P1602** Severe Pulmonary Manifestations of Murine Typhus: A Case of Hypoxemic Respiratory Failure Following Occupational Rodent Exposure
- P1603** Pasteurella Multocida Pneumonia Diagnosed 5 Months After a Cat Bite
- P1604** Alcaligenes Faecalis: An Uncommon Culprit in Cavitory Lung Lesions
- P1605** Stents and Surprises: A Case of Intriguing Multi-site Infections

**CLINICAL****THEMATIC POSTER SESSION**

**C69 DIMORPHIC DILEMMA: UNCOMMON PRESENTATIONS AND DIAGNOSTIC CHALLENGES IN FUNGAL PULMONARY INFECTIONS**

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

Moscone Center

Area M, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1606** When Nodules Play Tricks: A Fungus Among Us Mimicking Lung Cancer
- P1607** The Lone Fungus: Cryptococcal Pneumonia and Empyema in an Immunosuppressed Patient With Rheumatoid Arthritis
- P1608** Uncommon Encounter: Symptomatic Pulmonary Cryptococcosis Due to Cryptococcus Neoformans in an Immunocompetent Patient in the Outpatient Setting
- P1609** A Case of Cryptococcus Pneumonia in an HIV-negative Patient

- P1610** Myasthenia Gravis: A Journey From Neurology to Killer Pneumonia
- P1611** Cryptococcosis in an Immunocompetent Patient on the East Coast
- P1612** An Unusual Cryptococcal Infection in an Immunocompetent Patient: The Diagnostic Complexity of a Pulmonary Mass
- P1613** Uncommon Encounter a Rare Co-infection of Cryptococcus and Staphylococcus in an Immunocompetent Patient
- P1614** What's Eating at Your Chest? A Case of Coccidiomycosis Empyema Necessitans
- P1615** A Patient With Hemoptysis and a Persistent Immunological Response to Coccidioides Infection
- P1616** Hydropneumothorax in Asthmatic Adolescent Male
- P1617** A Case of Pulmonary Coccidioidomycosis in a Flight Attendant
- P1618** An Unwanted Passenger: A Case of Coccidiomycosis Transmitted Through Luggage
- P1619** Miliary Coccidioidomycosis in an Immunocompetent Female
- P1620** From Chest to Toe: A Case of Disseminated Coccidioidomycosis Immediately Post Renal Transplant
- P1621** Disseminated Coccidioidomycosis in Immunocompetent Patient, Mimicking Metastatic Malignancy
- P1622** Coccidioidomycosis in an Immunocompetent Host After Brief Exposure History
- P1623** Unmasking the Imposter: Pulmonary Histoplasmosis Presenting as Malignancy in a Non-endemic Area
- P1624** From Lymphoma to Histoplasmosis: A Diagnostic Journey in a Marathon Runner
- P1625** Acute Pulmonary Histoplasmosis Masquerading as Aspiration Pneumonia
- P1626** Pleural Effusion or Fungal Confusion? A Case of Histoplasmosis in an Immunocompetent Patient
- P1627** A Unique Case of Disseminated Histoplasmosis in an Immunocompetent Patient
- P1628** A Sinister Syndrome: A Rare Case of Disseminated Histoplasmosis as an AIDS-defining Illness

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| <p><b>P1629</b> A Rare Complication of a Common Infection in a Patient With Newly Diagnosed Human Immunodeficiency Virus With Acquired Immunodeficiency Syndrome</p> <p><b>P1630</b> Confusing Your “P”s: Progressive Disseminated Histoplasmosis Mistaken for Pneumocystis Pneumonia</p> <p><b>P1631</b> Double Trouble in the Lungs: Histoplasmosis and Mycobacterium Avium Complex in an Immunocompetent Patient</p> <p><b>P1632</b> A Tale of Two (Rare) Illnesses: Fibrosing Mediastinitis, Initially Diagnosed as IgG4-related Disease</p> <p><b>P1633</b> An Unusual Case of Massive Hemoptysis</p> <p><b>P1634</b> Disseminated Blastomycosis Presenting as Chronic Non-healing Skin Lesions</p> <p><b>P1635</b> Unmasking the Culprit From Organizing Pneumonia to Pulmonary Blastomycosis</p> <p><b>P1636</b> Playing With Thorns: A Case of Pulmonary Sporotrichosis</p> <p><b>P1637</b> Pulmonary Nocardiosis and Talaromycosis Masquerading as Malignancy in an Immunocompetent Patient</p> | <p><b>P4</b> Fungal Empyema Thoracis, A Diagnostic Dilemma; A Case Series</p> <p><b>P5</b> Candida in the Chest: A Case Report on Fungal Thoracis</p> <p><b>P6</b> A Rare Case of Candida Empyema</p> <p><b>P7</b> Pleurocutaneous Fistula in a Patient With Non-albicans Candida Empyema Thoracis and Spontaneous Esophagopleural Fistula</p> <p><b>P8</b> “A Road to Diaphragm”: Invasive Pulmonary Candida Albicans Infection Disseminated From Retropharyngeal Abscess</p> <p><b>P9</b> Connecting the Dots Between Penicillium Pneumonia and Asthma</p> <p><b>P10</b> Bordetella Bronchiseptica Pneumonia in the Setting of Allergic Bronchopulmonary Aspergillosis</p> <p><b>P11</b> Duping the Immune System: A Case of Recurrent Allergic Bronchopulmonary Aspergillosis Treated With Dupilumab</p> <p><b>P12</b> Lung Story Short: It’s Not Always COPD</p> <p><b>P13</b> Rapid Development of Endobronchial Aspergillosis Following Immunomodulatory Treatment for COVID-19</p> <p><b>P14</b> A Rare Case of Pulmonary Aspergilloma in an Immunocompetent Filipino Elderly Woman Who Initially Presented as Otomycosis: A Case Report</p> <p><b>P15</b> The Fungus That Never Gave Up: A Case of Cavitory Aspergilloma Necessitating Lobectomy</p> <p><b>P16</b> Fungal Foe- A Case of Invasive Pulmonary and Cutaneous Aspergillosis in Immunocompromised Patient</p> <p><b>P17</b> A Life-Threatening Case of Invasive Pulmonary Aspergillosis in Patient With Bruton Agammaglobulinemia</p> <p><b>P18</b> Cavitory Lesions: Considerations for Anti-fungal Therapy in Squamous Cell Lung Cancer Coexisting With Aspergillosis</p> <p><b>P19</b> Three Cases of Pulmonary Aspergillosis Complicating Unilateral Upper Lung Field Pulmonary Fibrosis After Thoracotomy</p> <p><b>P20</b> Invasive Aspergillosis</p> <p><b>P21</b> Recurrent Hemoptysis: A Rare Case of Chronic Cavitory Pulmonary Aspergillosis in an Immunocompetent 20-year-old Man</p> |
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## CLINICAL

## THEMATIC POSTER SESSION

### **C70 FROM YEAST TO MOLD: UNMASKING THE THREATS OF FUNGAL LUNG INFECTIONS**

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

**Moscone Center**

**Area A, Hall F (North Building, Exhibition Level)**

**Viewing:** Posters will be on display for entire session

**Discussion:** 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1** From Skin to Lungs: When Candida Is Not the Culprit - A Case of Trichosporon Pneumonia
- P2** A Very Rare Case of Candida Causing Lung Cavitory Lesion in Immunocompetent Host
- P3** Between Colonizer and Invader: Candida Pneumonia in an Immunocompromised Host



- P22** Angioinvasive Aspergillus: A Highly Fatal Cause of Infectious Diffuse Alveolar Hemorrhage
- P23** Immunosuppression in Untreated Chronic Lymphocytic Leukemia and the Development of Disseminated Cryptococcal Disease and Invasive Aspergillosis
- P24** Invasive Pulmonary Aspergillosis in a Post-lung Transplant Patient Despite Antifungal Prophylaxis
- P25** A Fatal Case of Pseudomembranous Tracheobronchitis Due to Invasive Aspergillus
- P26** Deadly Airway Necrosis: An ICU Case of Aspergillus Pseudomembranous Tracheobronchitis
- P27** Chronic Necrotizing Pulmonary Aspergillosis: A Rare Fatal Complication in COPD and Diabetes
- P28** Parainfluenza Pneumonia and the Silent Rise of Aspergillosis in Critical Care Setting
- P29** Fungal Co-infection or Fungal Colonization? A Diagnostic Dilemma in a Cavitary Lung Lesion
- P30** A Diagnostic Dilemma in a Patient With Co-existing Lung Cancer and Fungal Infection
- P31** Lung Microbiota Dysbiosis in Non-resolving Pneumonia: A Case of Fungal Pneumonia in Lung Adenocarcinoma
- P32** Racing Against Time: Pulmonary Mucormycosis in a Kidney Transplant Recipient Under Experimental Anti-rejection Therapy
- P33** A Rare Pair: Mucormycosis and Pneumocystis Coinfection in a Mantle Cell Lymphoma Patient on Pirtobrutinib
- P34** Lobectomy and Antifungal Therapy for Pulmonary Mucormycosis: Case Report of Necrotizing Lung Mass in A 69-year-old Male
- P35** A Fatal Triad: Concurrent Pulmonary Infections With Candida, Mucorales, and Aspergillus in an Immunocompromised Patient With Underlying Vasculitis and Diabetes
- P36** Can Lightning Strike the Same Person Twice? Pseudallescheria Boydii Pneumonia and Metastatic Cardiac Angiosarcoma Within a Year
- P37** A Rare Case of Pleural Empyema From Retained Cholecystostomy Catheter Complicated by Intraabdominal Mucormycosis in an Immunocompetent and Nondiabetic Patient

- P38** Triumph Over Pulmonary Mucormycosis With Posaconazole: Not Always the MAC Infection?
- P39** Cavitary Pulmonary Lesion in a Renal Transplant Recipient: Role of Tissue Sampling in Diagnosing Mucormycosis
- P40** Hairy Lungs: Fatal Mucormycosis in a Lung Transplant Patient
- P41** Mucorales and Actinomyces Co-infection Presenting as Erosive Pulmonary Mass in a Neutropenic Patient mucorales and Actinomyces Co-infection Presenting as Erosive Pulmonary Mass in a Neutropenic Patient
- P42** The Fatal Course of Pulmonary Mucormycosis With Rhizopus Microsporus Complicated by Pyopneumothorax With Enterococcus Faecium: A Case Report
- P43** Black Mold Lung Mass: Cladosporium Associated Infection in a Newly Immunocompetent Male
- P44** Novel Approach to Treatment of Pulmonary Cladosporium Infection Without the Use of Antifungals in an Immunocompetent Patient
- P45** An Important Suspect: Fungal Pneumonia in Intensive Care: A Case Series
- P46** Importance of Polymerase Chain Reaction (PCR) Assays in the Diagnosis of Invasive Pulmonary Fungal Infections
- P47** Beyond The Surface: A Case of Trichosporin Asahii and Undiagnosed Malignancy

## CLINICAL

## THEMATIC POSTER SESSION

### **C71** BEYOND THE ORDINARY: RARE PATHOGENS AND COMPLEX INFECTION PRESENTATIONS

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

Moscone Center

Area A, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

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| P49 | <b>Pleural Cavitation in the Context of Streptococcus Pyogenes Pneumonia in a Young Patient With Recent Thoracoabdominal Trauma</b>           | P67 | <b>Not Just Another Respiratory Infection: Mycoplasma Pneumoniae Triggering a Severe Thrombotic and Coagulopathy Crisis</b>                               |
| P50 | <b>Clearing the Air: Use of Intrapleural Fibrinolytics in a Case of Streptococcus Intermedius Empyema</b>                                     | P68 | <b>Blood in the Alveoli: A Distinct Clinical Presentation of Mycoplasma Pneumoniae</b>  |
| P51 | <b>A Rare Culprit With a Rare Presentation: A Case of Empyema Due to S. Gordonii</b>  | P69 | <b>Acute Eosinophilic Pneumonia as a Potential Complication of Flu A</b>  |
| P52 | <b>Recurrent Pneumothorax: A Rare Complication of Streptococcal Pneumonia Treated With Pleurodesis</b>  | P70 | <b>Behçet's Disease-Like Symptoms Post-COVID Infection: A Case Report</b>   |
| P53 | <b>Mediastinal Madness: Streptococcal Infection Mimicking Fibrosing Mediastinitis in a Young Male</b>   | P71 | <b>Acute Eosinophilia Pneumonia After COVID19 With Presentation of Hemoptysis</b>   |
| P54 | <b>A Rare Case of Pleuropericardial Empyema Due to Streptococcus Pyogenes</b>   | P72 | <b>Late Administration of Tocilizumab for Severe COVID-19 Pneumonia</b>   |
| P55 | <b>An Extremely Rare Case of Group C Streptococcal Cavitory Pneumonia in a Young Female</b>   | P73 | <b>Uncommon Pathogen, Severe Outcome: Enterovirus-Rhinovirus Pneumonia Leading to ARDS</b>  |
| P56 | <b>A Unique Case of Legionella Presenting With Gastrointestinal Symptoms</b>  | P74 | <b>Dangers of Antimicrobial Autotherapy: Empyema Necessitans in a Young Female with Inadequate Antibiotic Treatment for Pneumonia</b>                     |
| P57 | <b>Hidden in Plain Sight: An Unsuspected Case of Non-pneumophila Legionella Pneumonia</b>   | P75 | <b>Intralobar Pulmonary Sequestration Masquerading as a Lung Abscess</b>  |
| P58 | <b>A Rare Case of Legionella Necrotizing Pneumonia in Liver Cirrhosis</b>   | P76 | <b>Abnormal Lung Infections in an Immunocompetent Patient - Middle Lobe Syndrome</b>  |
| P59 | <b>A Case of Legionella Pneumonia Causing Late Diffuse Alveolar Hemorrhage and Atypical Hemolytic Uremic Syndrome</b>                         | P77 | <b>Recurrent Episodes of Pneumonia Leading to the Diagnosis of Pulmonary Sequestration: A Case Report</b>   |
| P60 | <b>Acquired Fanconi Syndrome in the Setting of Legionella Pneumonia</b>   | P78 | <b>Persistent Shadows: The Enigmatic Case of Right Middle Lobe Syndrome With Recurrent Pseudomonas Isolation - A Diagnostic and Therapeutic Challenge</b> |
| P61 | <b>A Rare Case of Reversed Halo Sign in Legionella Pneumophila Pneumonia</b>  | P79 | <b>Pulmonary Sequestration as a Rare Cause of Recurrent Lung Abscess: A Case Report in an Endemic Tuberculosis Setting</b>                                |
| P62 | <b>Ofatumumab Associated Legionella Pneumonia in a Young Multiple Sclerosis Patient</b>   | P80 | <b>Navigating the Challenges of Esophageal Carcinoma: A Case Study on Recurrent Aspiration Pneumonia and Its Fatal Consequences</b>                       |
| P63 | <b>Severe Mycoplasma Pneumonia: An Overlooked Driver of Secondary Organizing Pneumonia</b>  |     |   |
| P64 | <b>Mycoplasma Pneumoniae Pneumonia: What's Old Is New Again</b>   |     |   |
| P65 | <b>Beyond Walking Pneumonia: A Rare Case of Mycoplasma Pneumonia Leading to Pleural Empyema</b>   |     |   |
| P66 | <b>Secondary Cold Agglutinin Syndrome With Severe Hemolytic Anemia and Pulmonary Emboli: A Rare Sequela of Mycoplasma Pneumonia Infection</b> |     |   |

## CLINICAL

## THEMATIC POSTER SESSION

**C72 RARE PULMONARY PATHOLOGIES:  
MASQUERADING INFECTIONS AND  
INFECTION MASQUERADERS**

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

Moscone Center

Area A, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the  
authors and attendees

12:30-1:15 authors to interact with the attendees

- P82 A Case of Tertiary Syphilis With Pulmonary Manifestations**
- P83 Secondary Syphilis and HIV Co-infection With Likely Pulmonary Involvement**
- P84 A Fatal Case of Community-acquired Methicillin-resistant Staphylococcus Aureus (MRSA) Pneumonia in a Young Female Without Risk Factors**
- P85 Atypical Presentation of MRSA Chest Wall Abscess**
- P86 Vaping-Associated Cavitory MRSA Pneumonia**
- P87 Lemierre Syndrome Coinfection With Parvimonas Micra-a Possible Sequelae of Electronic Cigarette Usage**
- P88 Campylobacter Jejuni Pansinusitis: A Bizarre Asthmatic Discovery**
- P89 Lung Abscess Mimicking a Metastatic Lesion**
- P90 Pulmonary Actinomyces: An Evasive Cancer Masquerader**
- P91 Double Trouble: Coexistence of Pulmonary Actinomyces and Lung Cancer**
- P92 A Suspected Metastasis Turned Out To Be a Lingering Bug: A Case of Actinomyces Lymphadenitis**
- P93 Actinomyces Pneumonia: A Case Report**
- P94 Actinomyces Odontolyticus Cavitory Pneumonia in a Vape Smoker**
- P95 Not Your Typical Pneumonia: Delftia Acidovorans Pneumonia Associated With Malignant Squamous Cell Carcinoma**
- P96 From Abdomen to Pleura: A Surgical Saga of C. Perfringens Mediated Empyema Following Complex Abdominal Surgery**
- P97 The C.diff Is Lost: Polymicrobial Clostridioides Difficile Empyema**
- P98 Salmonella Empyema: A Rare Manifestation**
- P99 Empyema of Uncommon Origin: A Case Report of Enterococcus Faecalis Infection in the Pleural Space**
- P100 Polymicrobial Empyema Secondary to Spontaneous Esophageal Perforation and Esophago-pleural Fistula**
- P101 A Case of Intractable Pleural and Pericardial Effusions**
- P102 Uncommon Presentation of Pericardial and Pleural Effusions in a Patient With Coxsackievirus Infection: A Case Report**
- P103 Unraveling Purulent Pericarditis: The Importance of Comprehensive Diagnostic Strategies**
- P104 Uncommon Presentation of Melioidosis With Paratracheal Cyst**
- P105 Disseminated Melioidosis Presenting With Pneumonia, Septic Arthritis and Thigh Abscess**
- P106 An Unusual Case of Lipoid Pneumonia in an Elderly Female**
- P107 Lipoid Pneumonia Masking As Pulmonary Edema**
- P108 Case Report of Eosinophilic Pneumonia Mimicking Cryptogenic Pneumonia**
- P109 Navigating the Diagnostic Maze of Cryptogenic Organizing Pneumonia**
- P110 Bronchial Amyloidoma: An Unusual Etiology of Post-obstructive Pneumonia in a Patient With Multiple Myeloma**
- P111 Adult-onset Still's Disease Flare-up and Superimposed Pneumonia: A Complex Diagnostic and Therapeutic Challenge**
- P112 A Rare Case of Mediastinal Granuloma Presenting With Esophageal Fistula: A Diagnostic Challenge**
- P113 When the Mediastinum Holds a Secret: A Journey to Uncover the Mysterious Lesion**
- P114 A Hidden Path: A Rare Pulmonary-Liver Connection**

- P115** Diagnostic Dilemmas in Diagnosis and Treatment of Cavitating Lung Disease in IgG4 Associated Systemic Disease
- P116** From Compression to Aspiration: A Case of SMA Syndrome Resulting in Cavitory Pneumonia
- P117** Multiple Lung Infections or Methotrexate Toxicity: A Mystery Diagnosis
- P118** Pulmonary Papillomatosis: A Rare Presentation of Recurrent Respiratory Papillomatosis
- P119** Necrotizing Granulomas in Neurosarcoidosis: A Diagnostic Dilemma
- P120** Complicated Right-Sided Pleural Effusion With Mallory Weiss Tear: Not Bacterial Empyema
- P121** A Rare Case of Tension Hydrothorax and Rhabdomyolysis in a Young Male
- P122** Carcinomatous Lung Abscess: An Underrecognized Clinical Challenge

### BASIC • CLINICAL • TRANSLATIONAL

### THEMATIC POSTER SESSION

## C73 ENVIRONMENTAL STRESSORS AND MOLECULAR MECHANISMS DRIVING LUNG INJURY AND DISEASE PATHOGENESIS

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

Moscone Center

Area C, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P258** Developing Lung Models to Study the Effects of Microgravity at the Cellular and Molecular Level
- P259** Increased AEC Susceptibility to Injury Due to Autophagic Overload After Exposure to Nanoparticles
- P260** Effect of the Pulmonary Fibrotic-inflammatory Microenvironment on Stem Cell

- P261** Targeted Deletion of the Vasoactive Intestinal Peptide (VIP) Gene Induces Spontaneous Upregulation of Pro-inflammatory and Pro-proliferative Biomarkers: Enhanced Upregulation With Exposure to World Trade Center (WTC) Dust
- P262** Aging and Mitochondrial Function in Lung Resident Mesenchymal Stem Cells
- P263** Intravenous Administration of K VX-053, A PTP4A3 Inhibitor, Prevents Ventilator-induced Lung Injury (VILI) in Mice
- P264** Blocking the G Protein-coupled Estrogen Receptor in Group 2 Innate Lymphoid Cells Initiates an IL-13 Response in Female Mice Challenged With *Alternaria* Extract
- P265** Single-cell RNA Sequencing Reveals Transcriptional Landscape of Neutrophils in Pneumoconiosis
- P266** Household Allergen Induced IL-6 and IL-8 Expression Exacerbates Heavy Metal Induced Oxidative Stress Via PI3K/AKT Signaling
- P267** Impact of Common Co-morbidities on Cardiopulmonary Function and Alveolar Fluid Clearance in Mice

*\*2025 Parker B. Francis Speaker*

- P268** Novel Correlations Between Exhaled Breath Volatile Organic Compounds (VOCs) and Lung Function in Ultramarathon Runners: Insights From the 2019 Ultra-Trail du Month Blanc
- P269** Development of a New Breath Collection Method for Analysing Volatile Organic Compounds From Intubated Mouse Models
- P270** Cadmium-induced Toxic Effects Are Partially Alleviated With Plant Extract
- P271** Disruption of Proline Metabolism Mediated by PYCR1 Promoted ECM Remodeling in Pulmonary Fibrosis Induced by Silica
- P272** Investigating the Harmful Effects of Bushfire Smoke Exposure in Precision Cut Lung Slices
- P273** Interleukin-17a-induced Changes in P53-fibrinolytic System Cross-talk During Lung Injury
- P274** Patient-Derived Lung Alveolar Organoids for Modeling Pulmonary Fibrosis and Evaluation of Drug Efficacy



- P275 Effect of Mutant S100A3 and S100A13 Expression in Mitoproteome Signature of Epithelial Cells
- P276 E-cigarette Inhalation Induces Sex and Cell Type-specific Metabolic Responses in the Lungs
- P277 Regulation of Bronchioalveolar Stem Cells in Health and Disease
- P278 Pro-inflammatory Cytokines Drive Mucociliary Airway Epithelial Remodeling by Disrupting Multiciliated Cell Fate and Ciliogenesis Pathways
- P279 ASK1 Inhibition Attenuates Elastase-Induced Pulmonary Emphysema
- P280 Lung Differentiation in Primary Human Bronchial Epithelial Cells Induces E3 Ligase MARCH10 Promoter Activity
- P281 Impact of Acute Cigarette Smoke Exposure on Respiratory Epithelial Expression of Club Cell Secretory Protein (CC16) and Host Defense Proteins
- P282 Complex Lung Organoids Model Fibroblast Responses to Influenza Infection
- P283 Isolation of Human Pulmonary Interstitial Macrophages to Characterize Impaired Immune Functions by Cigarette Smoke Exposure
- P284 Regional Lipidomic Characterization of the Lung Secretome in Human Lung Biofluids
- P285 Improved Expansion and Maintenance of the Differentiation Potential of Primary Human Airway Epithelial Cells
- P286 Juvenile Mice Exhibit Incomplete Recovery and Prolonged Impairment in Pulmonary Function Following Influenza Pneumonia
- P287 Characterization of the IGSF3 Interactome in Distal Lung Cells
- P288 Perfluorohexanoic Acid (PFHxA) Exposure Activates the Aryl Hydrocarbon Receptor in Well-differentiated Primary Human Bronchial Epithelial Cells

**BASIC • CLINICAL • TRANSLATIONAL****THEMATIC POSTER SESSION**

### **C74 CELLULAR DYNAMICS, ECM REGULATION, AND INNOVATIVE MODELS IN LUNG PATHOBIOLOGY**

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

Moscone Center

Area C, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P290 Comparison of Droplet- and Microwell-based Methods to Analyze Cryopreserved Human Bronchoalveolar Lavage Cells by scRNA-sequencing
- P291 Pulmonary Lymphatic Expansion and Improvement in Lymphatic Drainage After Murine Acute Lung Injury
- P292 Cannabis Vapor Alters Metabolism in Human Bronchial Epithelial Cells
- P293 Alcohol Inhibits Proliferation of Lung-derived Mesenchymal Stem Cells by Decreasing Protein Kinase A
- P294 E-cigarette Aerosol Toxicity Is Uniquely Dependent on the Engineering of the Coil, Coil Resistance, and E-liquid Formulation
- P295 Opsin 3-mediated Nerve-dependent Modulation of Airway Smooth Muscle Tone
- P296 Myocardin Regulates CLSTN2 and Facilitates Kinesin-1-mediated PAI-1 Transport in Human Pleural Mesothelial Cells
- P297 NB22: A Deep Learning-designed Peptide-siRNA Conjugate That Targets Lung Epithelial Cells Implicated in IPF
- P298 Lung Tissue Inflammation in Mice Subjected to Passive E-vape Administration of Vegetable Glycerin and Nicotine
- P299 Novel GLP-friendly Peptides Protect Fibrinolysins From Plasminogen Activator Inhibitor (PAI-1) In Vitro and Ex Vivo
- P301 Optimized CRISPR-RNP Human Gene Targeting of AT2 Cell Organoids

- P302** Global Unresponsiveness to Stimuli, Not Immune Suppression, Explains Post-septic Immune Compromise: Insights From a Murine Sepsis Model
- P303** Novel Mechanisms That Contribute to the Efficacy of Fibrinolytic Therapy of Empyema in a Rabbit Model
- P304** Hypoxia-mediated Translation Control in the Lungs - “lncRNA”, The New Kid in the Block?
- P305** Yes1 Is Critical for Cell-Free Hemoglobin-dependent Reactive Oxygen Species Production by Macrophages
- P306** Role of Heterotrimeric G Proteins in TGF- $\beta$ -Induced Lung Myofibroblast Differentiation
- P307** Quantitative Proteomics Identifies Nuclear Protein 1 as a Regulator of Cell Death in Differentiated Primary Human Bronchial Epithelial Cells
- P308** Transient and Persistent Airway Proteome Changes Induced by Cigarette Smoke
- P309** Mitochondrial Aspartyl tRNA Synthetase (DARS2) Secretion Is Induced by the Host Innate Immune Response and Is Protective in a Preclinical Model of Sepsis
- P310** Protein Biomarker Discovery Platform Facilitating Single Molecule Detection and Detection of Post-translational Modifications
- P311** Monocyte Kinetics in Healthy Volunteers
- P312** Age-Dependent Lung Fibroblast Composition and Responses to Influenza Infection
- P313** Deficiency of the Collagen Endocytic Receptor Mrc2 Alters Collagen Organization
- P314** Mechanism of Senescence Induction Via Mitochondrial Damage in Lung Fibroblasts
- P315** MRC2-mediated Collagen I Uptake by Myofibroblasts Is Reduced in IPF and Enhanced During Dedifferentiation
- P316** Insights Into Transcriptomic Variation Between Pericytes in Lung and Skin
- P317** Lung Matrisome in Mice Lacking the Collagen Receptor MRC2: A Proteomics Exploration
- P318** Myocardin Regulates Myosin II Phosphorylation and Affects Cell Migration and Contraction During TGF- $\beta$ -induced Myofibroblast Differentiation of IPF Cells
- P319** Fecal Microbiota Transplantation Is Associated With Longitudinal Alterations in the Upper Respiratory Tract Microbiome
- P320** Arginine Promotes TGF- $\beta$  Induced Fibroblast Activation Independent of Its Metabolism
- P321** Investigating Somatic Mutations in Pulmonary Lesions of Patients With Hereditary Pulmonary Arterial Hypertension and Hereditary Hemorrhagic Telangiectasia
- P322** Pyruvate Kinase M2 Regulates Mitochondria Functions in Stiffness Induced Myofibroblast Differentiation
- P323** On-slide Precision Cut Lung Slices (OS-PLCS): A New Platform for Investigating ECM Dynamics and Molecular Pathways in Lung Disease
- P324** Transcriptomic Profiling of Lung Environment Changes Due to E-cigarette Exposure in Mice
- P325** CD47/SIRP $\alpha$  Expression and Potential Roles in Pulmonary Fibrosis
- P326** The Tankyrase Inhibitor OM-153 Exhibits Anti-fibrotic Effects in a Scar-in-a-jar Pulmonary Fibrosis Model

## BASIC • CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

**C75 COPD: STRUCTURE AND FUNCTION**

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

Moscone Center

Area C, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P328** Pendelluft Is Cause of Significant “Intrinsic” Rebreathing and Ventilatory Overload in Spontaneously Breathing Severe Stable Chronic Obstructive Pulmonary Disease (COPD) Patients
- P329** Characterizing CT-derived Biomechanical Differences in Bronchovascular Bundles Across CT Density Gradient Texture Tertiles in SPIROMICS
- P330** In Silico Lung Deposition of Budesonide/Glycopyrrrolate/Formoterol Fumarate in Patients With COPD and Concomitant Asthma

- P331** Assessing Pulmonary Function in Patients With Chronic Obstructive Pulmonary Disease: The Utility of Impulse Oscillometry With and Without Emphysema Severity
- P332** The Relationship Between Bronchodilator Responsiveness and Lung Function Decline in Patients With Chronic Obstructive Pulmonary Disease
- P333** Diagnostic Classification of the Emphysema-Subtype of COPD Using N-Tidal
- P334** Symptoms That Limit Exercise Capacity in Patients With Obstructive Lung Disease
- P335** A Double Burden: Evaluating Chronic Obstructive Pulmonary Disease in People Living With HIV Attending an Art Clinic in Addis Ababa, Ethiopia
- P336** The Effects of Low-Dose Morphine on Externally Applied Inspiratory Resistive Load Magnitude Perception in Chronic Obstructive Pulmonary Disease
- P337** Diagnosis of Subclinical Obstructive Airways Disease in Osteogenesis Imperfecta Through Impulse Oscillometry
- P338** Differential Airway and Structural Lung Changes in Chronic Obstructive Pulmonary Disease and Preserved Ratio of Impaired Spirometry
- P339** Associations of Accumulated Number of Small Airway Dysfunction Assessed by Impulse Oscillometry With Lung Function Decline and Exacerbations in Participants With Chronic Obstructive Pulmonary Disease
- P340** Reproducibility of Respiratory Mechanical Biomarkers of the Diaphragm Using Inspiratory and Expiratory CT
- P341** Automated Airway Segmentation on Pulmonary MRI Via Unsupervised Domain Adaptation
- P342** Multi-Disciplinary Committee Review of Patients With Severe COPD Considered for Bronchoscopic Lung Volume Reduction
- P343** Development of Fully Automated 3D Pectoralis Muscle Measurements on Computed Tomography Imaging for Chronic Obstructive Pulmonary Disease Using Deep Learning
- P344** A Novel Non-invasive 3d Assessment of Ventilation and Perfusion Mismatch in Patients With COPD
- P345** Assessment of Optimal Inhaler Therapy Strategies in the Management of Acute Exacerbations of Chronic Obstructive Pulmonary Disease (A.E.C.O.P.D.s) Using Oscillometry: An Observational, Cross-sectional Study
- P346** Prediction of Hyperinflation From Low Dose Computed Tomography
- P347** Relationship Between Intra-breath Oscillometry and Pulmonary Function Testing in Patients With COPD: A Cross-sectional Study
- P348** Structural Basis for Inhibition of IL-33 Induced ST2 Activation by Astegolimab
- P349** Evidence of Small Airways Dysfunction in Asymptomatic Vapers: A Preliminary Study
- P350** Long Term Exposure to Menthol Flavored Electronic Cigarette Aerosol Reduces Lung Function In Vivo
- P351** MRI-assessed Alterations in Cardiovascular Dynamics With Electronic Nicotine Delivery System Use in Young Adults
- P352** E-cigarette Impacts on Lung Diffusion Capacity in Healthy and Asymptomatic Users: A Cross-sectional Study
- P353** Comparative Analysis of Novel 3-D Lung Mechanics in Patients With ILD and COPD Using X-ray Velocimetry
- P354** Sphingolipids and Lung-Related Mortality: The Cardiovascular Health Study
- P355** The Image Consistency of Three-dimensional Electrical Impedance Tomography Compared to CT
- P356** Comparison of Pi10 and Pi-Slope Calculation Methods and Association With Lung Function: Findings From the Canadian Chronic Obstructive Lung Disease (CanCOLD) Study
- P357** Dynamic Imaging of Physiological Dead Space and Effective Alveolar Ventilation in Patients Undergoing Endobronchial Valve Therapy Using Hyperpolarized Xenon
- P358** Emphysema: A Histological and Functional Characterization of Emphysematous Degeneration in a Mouse Model of Chronic Obstructive Pulmonary Disease

## BASIC • CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

## C77 BREATHLESS BIOMARKERS AND PHENOMENAL PHENOTYPES: UNLOCKING SLEEP APNEA'S HIDDEN PHYSIOLOGY, ONE MECHANISM AT A TIME

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

Moscone Center

Area H, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1059 Monocyte Counts in Obstructive Sleep Apnea: Associations With Subclinical Atherosclerosis and the Effect of CPAP Treatment
- P1060 Inflammation Markers in Male Patients With Arterial Hypertension, Obesity and Obstructive Sleep Apnea
- P1061 From Pulse to Phenotype: Oximeter-derived Autonomic Arousal Detection for Sleep Apnea Endotyping
- P1062 Oxygen Worsens Endothelial Function in Patients With Obstructive Sleep Apnea Regardless of Baseline Loop Gain
- P1063 Sex Differences in Oxidative Stress Biomarkers in Obstructive Sleep Apnea Patients After 12 Weeks of PAP Therapy
- P1064 Transcriptomic Changes Associated With Obstructive Sleep Apnea in Those With Non-Small Cell Lung Cancer
- P1065 Effect of Metabolic Syndrome on Airway Mechanics and Lung Functions in Patients With Obstructive Sleep Apnea
- P1066 Utilization of Carbon Monoxide Rebreathing Technique in Determining Plasma Blood Volume in Obstructive Sleep Apnea
- P1067 Measurements of Exhaled Carbon Monoxide as a Surrogate for Hemolysis in Patients With Obstructive Sleep Apnea
- P1068 Effects of Induced Arousal on Subsequent Apnea and Hyperpnea in Central Sleep Apnea

- P1069 Tensor Palatini Hypotonia Provides a Stronger Explanation for Respiratory Events Than Genioglossus Hypotonia in Obstructive Sleep Apnea
- P1070 Characterizing Imaging-based Cardiometabolic Markers Using Hybrid 18F-FDG Positron Emission Tomography/Magnetic Resonance Imaging in Patients With Actigraphy-derived Sleep Patterns
- P1071 Distinct Phenotypes of Patients Treated by Adaptive Servo-Ventilation (ASBV): A Latent Cluster Analysis (LCA) in the Read-ASV European Registry
- P1072 Opioid-Related Central Sleep Apnea Not Detrimental to Key Respiratory and Sleep Parameters: Results From the Opsafe Multicentre Trial
- P1073 Distinct Biometric Differences in Obstructive Sleep Apnea Patients Phenotyped Based on Airflow Patterns Highlight Potential for Customized Treatment Algorithm Development
- P1074 Key Predictors of Elevated Hypoxic Burden in Sleep Apnea Patients: A Gender Specific Analysis

## BASIC • CLINICAL • TRANSLATIONAL

## THEMATIC POSTER SESSION

## C78 STIMULATE, MEDICATE, THEN HIBERNATE: INNOVATIONS IN SLEEP APNEA TREATMENT

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

Moscone Center

Area K, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P1333 Metabolic Endpoints for Obstructive Sleep Apnea Following Twelfth Cranial Nerve Stimulation (MET-12)
- P1334 Snore No More: Long-term Outcomes of Hypoglossal Nerve Stimulation in Obstructive Sleep Apnea
- P1335 The Effect of Ansa Cervicalis Stimulation on Velopharyngeal Cross-sectional Area in Patients With Obstructive Sleep Apnea



- P1336** Intraoperative Identification and Stimulation of the Ansa Cervicalis Nerve Plexus
- P1337** Bilateral Hypoglossal Nerve Recruitment and Migration Analysis of a Novel Percutaneously Implanted Self-anchoring Stimulator in a 60 Day Ovine Study
- P1338** Percutaneous Placement of Bilateral Hypoglossal Nerve Stimulator Using Novel Directional Stimulating Introducer With Limited Image Guidance in Ovine Study
- P1339** Influence of Body Mass Index on Hypoglossal Nerve Stimulation Efficacy Depends on the Site of Pharyngeal Collapse in Obstructive Sleep Apnea
- P1340** Sexual Dimorphism and Diet-Specific Effects of Finerenone on Metabolic Outcomes in a Murine Model of Obstructive Sleep Apnea (OSA)
- P1341** Propranolol Mitigates Cardiovascular Effects of CPAP Withdrawal
- P1342** Effect of Nicotine on Polysomnographic Measures of Sleep in Patients With Chronic Obstructive Pulmonary Disease (COPD)
- P1343** Aroxybutynin and Atomoxetine (AD109) in Obstructive Sleep Apnea: Participant Demographics and Baseline Disease Characteristics of the Lunairo Phase 3 Trial
- P1344** Eszopiclone's Effect on Sleep-dependent Memory in OSA Patients Is Independent of the Arousal Threshold but May Differ Based on Sex
- P1345** Rationale and Design of a Phase 3 Open-label Extension Study of Fixed Dose Combination of Aroxybutynin and Atomoxetine (AD109) in Obstructive Sleep Apnea
- P1346** The Role of Combined Synthetic Surfactant and CO<sub>2</sub> on Sleep Apnea in a Brown Norway Rat Model of Asthma
- P1347** Evaluation of a Novel Mandibular Advancement Splint Sensor Technology for Nightly Monitoring of Compliance and Efficacy
- P1348** VortexPAP: Using Innovative Airflow to Achieve Therapeutic Pharyngeal Pressure With Enhanced Patient Comfort
- P1349** Design and Rationale of the Time Restricted Eating in Sleep Apnea (TERESA) Clinical Trial
- P1350** Obstructive Sleep Apnea Treated by a Low-dose CO<sub>2</sub>

- P1351** Treatment Of Obstructive Sleep Apnea With Mandibular Advancement Device In 'Real-world' Settings Across Six General Hospitals
- P1352** Can Positional Obstructive Sleep Apnea (OSA) Be Used as a Predictor of Outcomes in Patients With OSA in Rural Appalachia?

## BEHAVIORAL • CLINICAL • TRANSLATIONAL

### THEMATIC POSTER SESSION

#### **C79 BLOWIN IN THE WIND: UPDATES POSITIVE AIRWAY PRESSURE AND NONINVASIVE VENTILATION**

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

Moscone Center

Area G, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P915** Effects of Adaptive-Servo-Ventilation on Hypoxemic Burden in Patients With Heart Failure and Central Sleep Apnea - An Ancillary Analysis of the SERVE-HF Major Substudy
- P916** Impact of Pressure Support Therapies for Chronic Respiratory Failure on Sleep Quality: A Systematic Review and Meta-Analysis
- P917** The Effect of Continuous Positive Airway Pressure (CPAP) on Physical Activity Levels in Pregnant Women With Gestational Diabetes and Sleep-Disordered Breathing: A Secondary Analysis of a Randomized-Controlled Trial
- P918** 3D Printing Positive Pressure Interfaces (3dpippin): Results From a Two-Phase Feasibility Trial
- P919** CPAP Pressure Titration Could Be Omitted
- P920** Continuous Positive Airway Pressure vs Mandibular Advancement Device in Reducing Obstructive Sleep Apnea Symptoms: A Systematic Review and Meta-analysis
- P921** Optimising Continuous Positive Airway Pressure Therapy in Moderate-Severe Obstructive Sleep Apnoea: A Retrospective Audit Examining the Role of Humidifiers

- P922** Continuous Positive Airway Pressure Air Leak Phenotypes in a Cohort of Obstructive Sleep Apnea Patients
- P923** The Effect of Long-term (3-months) Continuous Positive Airway Pressure (CPAP) Treatment on Nocturnal Blood Pressure in OSA Patients With Hypertension
- P924** Health-related Quality of Life in CPAP-treated Patients With Obstructive Sleep Apnea With vs Without Excessive Sleepiness in the Riccadsa Cohort
- P925** Comparison Study to Evaluate Continuous Positive Airway Pressure (CPAP) Compliance for Patients With Obstructive Sleep Apnea (OSA) Commenced on Treatment After Pre-op Screening vs. General Practitioner (GP) Referred Pathway-a Single Centre Experience
- P926** Descriptive Analysis of Patients With Amyotrophic Lateral Sclerosis (ALS) and Respiratory Support (RS) With Follow-up in the Pulmonology Department
- P927** Description of Positive Airway Pressure Settings in Bulbar Onset Amyotrophic Lateral Sclerosis Patients Requiring Non-invasive Ventilation

### BASIC • CLINICAL • TRANSLATIONAL

### THEMATIC POSTER SESSION

## C80-1 PUZZLING PLEURAL PROBLEMS: FROM INNOVATIVE RESEARCH TO NOVEL PATIENT PRESENTATIONS

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

Moscone Center

Area B, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P133** Volume Overload or Cancer: A Rare Lymphoma Presenting as an Isolated Pleural Effusion
- P134** Pseudomyxoma Pleurii: A Rare Presentation of Benign Cystic Teratoma
- P135** A Rare Case of Recurrent Pleural Effusions - Pleural AI Amyloidosis

- P136** Unveiling Mesothelioma: A Case Study of Mediastinal Mass Diagnosis via Endobronchial Ultrasound-Guided Transbronchial Needle Aspiration
- P137** Neurofibromatosis Associated Pleural Based Lung Mass
- P138** A Rare Case of Thoracic Multiple Solitary Plasmacytomas
- P139** Primary Pleural Angiosarcoma: A Rare Cause of Recurrent Exudative Pleural Effusion
- P140** Renal Cell Carcinoma's Sneaky Sidekicks: Suprapleural Nodules Throwing a Pleural Party
- P141** Delayed Diagnosis of Malignant Pleural Mesothelioma Presenting as Progressive Respiratory Failure: A Case Report
- P142** Charting the Course: The Diagnostic Journey for a Patient With a Rare Disease - Erdheim Chester Disease With Pulmonary Involvement
- P143** Bilateral Spontaneous Pneumothorax as a Rare Manifestation of Cystic Pulmonary Metastasis From Scalp Angiosarcoma: A Case of Refractory Pneumothorax
- P144** Turn & Face the Strange: When Clinical Evolution Should Prompt Re-evaluation of a Malignant Pleural Effusion
- P145** Smoke and Mirrors: Necrotizing Pneumonia and Empyema Mask the Real Culprit - Malignant Mesothelioma
- P146** A Rare Pleural Malignancy in a Young Man With Chronic Neck Pain and Contralateral Pleural Effusion
- P147** The Milky Menace: Malignant Chylothorax Unveiled
- P148** A Case of Cystic Ovarian Carcinoma With Initial Presentation Similar to Pleural Mesothelioma
- P149** A Well-differentiated Papillary Mesothelial Tumor of the Pleura
- P150** An Unfortunate Cause of a Large Pleural Effusion in a Young Woman
- P151** Navigating the Diagnosis and Management of Pleural Solitary Fibrous Tumors: A Case Study
- P152** Malignant Pleural Effusions, A Rare Extramedullary Manifestation of Lymphoplasmacytic Lymphoma/Waldenström's Macroglobulinemia

- P153** Diffuse Large B-cell Lymphoma Presenting as Recurrent Pleural Effusion in a 94-year-old Woman With Metastatic Colon Cancer
- P154** Mantle in the Lung: A Rare Initial Manifestation of Mantle Cell Lymphoma as a Malignant Pleural Effusion
- P155** A Diagnostic Dilemma: Large Pleural Effusion in the Context of Suspected Thyroid Malignancy
- P156** Incidental Detection of Malignant Seeding Through Soft Tissue Uptake on Technetium 99m Methylene Diphosphonate Bone Scan Following Thoracentesis - A Case Report
- P157** Needle in a Haystack: Epithelioid Mesothelioma Masquerading as Complicated Parapneumonic Effusion
- P158** Metabolomic Insights Into the Relationship Between Sarcopenia and Prognosis of Lung Cancer With Malignant Pleural Effusion
- P159** Impact of Malignant Pleural Effusion on Mortality and Complications in Hospitalized Lung Cancer Patients: A National Inpatient Sample Analysis
- P160** Assessment of the Cutoff Level of Tumor Markers in Malignant Pleural Effusion
- P161** Malignant and Tuberculous Pleural Effusion: Test of Accuracy of a Simple Score in a Low-income Country
- P162** Characteristics of Malignant Pleural Effusions Presenting to a Tertiary Irish Hospital and the Need for Non-invasive Diagnostic Techniques
- P163** Indwelling Pleural Catheter for Malignant Pleural Effusion: A Real-Life Experience in a Tertiary Centre With a Dedicated Pleural Service in the Republic of Ireland
- P164** Assessment and Management of Malignant Pleural Effusions in Regional Australia
- P165** Adequacy of Pleural Fluid Cell Block for Ancillary Testing in Metastatic Lung Cancer in a “Real World” Setting, and Factors Predicting Adequacy: A 5-year Retrospective Review
- P166** Stratified Analysis of Mesothelioma Mortality: A 21-year Atlas of Trends and Demographic Shifts in the United States

## CLINICAL

## THEMATIC POSTER SESSION

## C80-2 DECODING RARE PULMONARY LYMPHOMAS AND HEMATOLOGIC MALIGNANCIES

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

Moscone Center

Area B, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P168** Hidden in Plain Sight: Peripheral T-cell Lymphoma Diagnosed Via Thoracentesis in a Case of Recurrent Rash and Fever
- P169** An Unexpected Bleeding Catastrophe in a Patient Being Treated for Advanced Multiple Myeloma
- P170** Diffuse Large B-cell Lymphoma Presenting as Dysphagia and Respiratory Symptoms
- P171** When Pneumonia Is Not Pneumonia: A Journey Into ENKTL
- P172** Unveiling the Unexpected: Diffuse Large B-cell Lymphoma Presenting as a Right Atrial Mass and Acute Right Heart Failure
- P173** Pericardial Effusion and Internal Jugular Vein Thrombosis as Initial Presenting Symptom of T-cell Lymphoblastic Lymphoma
- P174** An Uncommon Hematological Cause of Interstitial Lung Disease
- P175** The Challenging Diagnosis of Primary Mediastinal B-cell Lymphoma in a 48-years-old Male - A Case Report
- P176** A Shifting Diagnosis: Pulmonary Lymphoma Masquerading as a Lung Mass in an Elderly Ex-smoker
- P177** Miliary Nodules in a Young Adult: A Rare Pulmonary Manifestation of B-cell Lymphoma
- P178** Waxing and Waning Nodules: A Rare Diagnosis of Pulmonary Malt Lymphoma
- P179** A Rare Presentation of Mucosa-Associated Lymphoid Tissue (MALT) Lymphoma

- P180 The Hidden H: A Case of Hemophagocytic Lymphohistiocytosis
- P181 Primary Pulmonary MALT Lymphoma: Navigating Diagnostic Challenges and Treatment Pathways
- P182 A Rare Case of 'Lymphoma'-Mania: When Diffuse Large B-cell Lymphoma Hits the Lungs
- P183 An Uncommon Manifestation of Pulmonary Infiltrates in a Patient With Hairy Cell Leukemia
- P184 A Stroke of Good Luck: Stroke Evaluation Revealing Incidental Extranodal Marginal Zone Lymphoma of the Trachea
- P185 Congo Red Alert! Isolated Pulmonary Amyloidosis Secondary to Low-grade B-cell Lymphoma Presenting as Progressive Dyspnea
- P186 A Case of Rare Pulmonary Manifestations in Multiple Myeloma
- P187 Primary Pulmonary T-Cell Lymphoma - A Rare but Serious Pneumonia Masquerader
- P188 Aggressive Treatment in a Critically Ill Patient With Angioimmunoblastic T-Cell Lymphoma
- P189 Endobronchial Mass Revealed as Diffuse Large B-cell Lymphoma in an Elderly Patient With Nonspecific Symptoms
- P190 Primary Diffuse Large B-cell Lymphoma of the Lung
- P191 Bulky Mediastinal Hodgkin Lymphoma: A Rare Case of Tracheal Compression, SVC Syndrome, and Early Tamponade
- P192 Unicentric Castleman Disease: A Rare Lymphoproliferative Disorder With Regional Lymphadenopathy
- P193 A Rare Case of Pulmonary and Gastric Malt Lymphoma in a Patient Presenting With Recurrent Microcytic Anemia
- P194 Cardiac Tamponade: The Unexpected Clue Unveiling Primary Mediastinal B-cell Lymphoma
- P195 Unmasking Diffuse Large B-cell Lymphoma Through Cardiac Tamponade: A Rare Oncologic Emergency
- P196 Plasmablastic Lymphoma: A Rare Presentation of Large B Cell Lymphoma
- P197 Which Tissue Is the Issue? A Meandering Path to Diagnosis

- P198 Mass-ive Airway Compromise: A Rare Cause of Respiratory Failure

- P199 A Missed Origin of Diffuse Pulmonary Cysts

## CLINICAL

## THEMATIC POSTER SESSION

### C80-3 THE METASTATIC MAZE: DECODING UNUSUAL CANCER PRESENTATIONS IN THE LUNGS AND BEYOND

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

Moscone Center

Area B, Hall F (North Building, Exhibition Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 facilitators to foster group discussion with the authors and attendees

12:30-1:15 authors to interact with the attendees

- P201 Pancreatic Neuroendocrine Tumor With Liver and Lung Metastases
- P202 A Rare Case of Recurrent Low-Grade Urothelial Carcinoma Presenting With Pulmonary Metastasis
- P203 Late Recurrence of Renal Cell Carcinoma as an Endobronchial Lesion Mimicking Lung Primary Malignancy
- P204 More Than Skin Deep: A Case of Pulmonary Melanoma
- P205 A Rare Metas-testis
- P206 Solitary Lung Nodule Consistent With Colorectal Cancer (CRC) Metastasis in a Young Male
- P207 Prostate Cancer Presenting as Lymphangitic Carcinomatosis of the Lung and Endobronchial Metastasis
- P208 You GATA Follow Up Pulmonary Nodules
- P209 Lymphangitic Carcinomatosis - A Diagnostic Challenge in Pulmonary Oncology
- P210 Crossing Boundaries: An Uncommon Case of Lung Cancer Metastasis to the Small Bowel
- P211 Pulmonary Lymphangitic Carcinomatosis Secondary to Occult Colorectal Adenocarcinoma



- P212** A Rare Case of Metastatic Ovarian Cancer Manifesting in the Mediastinum and Pleura 48 Years After Initial Treatment
- P213** Beyond the Liver: Uncovering an Atypical Presentation of Metastatic Hepatocellular Carcinoma
- P214** Before and After
- P215** Pulmonary Manifestations of Metastatic Melanoma in a Patient With Multiple Myeloma
- P216** Out of Sight, Out of Mind: An Unusual Presentation of Esophageal Carcinoma Presenting as Acute Respiratory Failure
- P217** An Atypical Presentation of Metastatic Gastric Adenocarcinoma Due to Pulmonary Lymphangitic Carcinomatosis
- P218** Coughing Up Clues - A Rare Case of Late Recurrence of Renal Cell Carcinoma
- P219** Biapical Lung Masses - A Case of Metastatic Malignancy of Mullerian Origin After Hysterectomy
- P220** Surviving Respiratory Failure: A Remarkable Recovery in Metastatic Choriocarcinoma With Mechanical Ventilation
- P221** Malignancy Masquerading as Amyopathic Dermatomyositis-associated Interstitial Lung Disease
- P222** Unmasking the Mimic: Metastatic Lung Cancer Presenting as Miliary Lung Disease
- P223** Rapidly Growing Metastatic Chordoma to the Lung: A Case Report
- P224** The Hunt for the Primary
- P225** Endobronchial Metastasis, The Hunt for the Primary: A Case Report

## MEDICAL EDUCATION SEMINAR

### ME103 MYTH BUSTERS: DEBUNKING MENTORSHIP MYTHS FROM THE MENTEE'S PERSPECTIVE

 Pre-registration and additional fee required. Attendance is limited.

Assembly on Behavioral Science and Health Services Research

10:45 AM – 11:45 AM

Moscone Center

Room 23, Hall E (North Building, Exhibition Level)

#### Objectives

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

- present an evidence based argument for why mentorship should be a professional priority
- debunk three common mentorship myths through a panel discussion.
- describe how to create a “mentorship-map” to equip participants with a practical tool for future mentorship.

This is an interactive session that comprises of 1) a panel discussion that debunks common mentorship myths from the perspective of a mentee 2) an overview of the evidence supporting mentorship 3) guidance on creation of and time to complete a “mentorship-map” to help plan for future mentor-mentee interactions 4) advice from a seasoned mentor on how to maximize the mentor-mentee relationship. This session is geared towards trainees and early career faculty members with a wide range of clinical and research focuses.

**11:45 a.m.- 1 p.m.**

## PLENARY SESSION

### Moscone Center

Esplanade Ballroom (Upper Mezzanine, South Building)

The Plenary session will feature Len Geiger, a dynamic advocate, speaker, and double lung transplant recipient. Diagnosed with Alpha-1 antitrypsin deficiency in 1994, Len has turned his personal health journey into a mission to educate, inspire, and drive meaningful change.

Len has emerged as a national voice for rare disease advocacy, and will share his compelling story of resilience, hope, and the profound connections that can transform the lives of patients and their care teams.

As a Practice Development Specialist at Evexias Health Solutions, he works with health care providers to implement cutting-edge bioidentical hormone replacement therapies while continuing to champion patient engagement and education.

This cornerstone event embodies the spirit of innovation, collaboration, and patient-centered care, uniting the global respiratory community to spotlight the stories shaping the future of respiratory medicine.

The Plenary Session is open to all registered attendees and will also include remarks from outgoing president Irina Petrache, MD, ATS, and incoming president Raed A. Dweik, MD, MBA, ATS.

*The ATS thanks  
GSK*

*for its support of the ATS 2025 Plenary Session.*

# ATS 2025 International Conference



**ATS 2025**

San Francisco, CA

**Tuesday Afternoon, May 20**

## CLINICAL

### ADULT CLINICAL CORE CURRICULUM

## CC5 ADULT SLEEP CLINICAL CORE CURRICULUM

**SCALE: Core Curriculum Committee**

**2:15 p.m. - 3:45 p.m.**

**Moscone Center**

Esplanade Ballroom (Upper Mezzanine, South Building)

### Target Audience

Physicians, trainees, students, advanced practice providers

### Objectives

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

- integrate new sleep medicine guidelines in to clinical practice
- better counsel patients on treatment options available for sleep disordered breathing
- identify knowledge gaps in the treatment of patients with sleep related disorders

The goal of the core is to 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 key topics in the areas of Adult and Pediatric Pulmonary, Critical Care, and Sleep Medicine. The topics are aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to help clinicians stay up to date with important information relevant to their medical practices, and to provide an opportunity for

clinicians to evaluate their individual knowledge and skills while earning MOC Medical Knowledge points

**2:15 Sleep and Aging**

**2:40 Sleep and Menopause**

**3:05 Sleep and Disadvantaged Populations**

**3:30 Q&A**

## CLINICAL • TRANSLATIONAL

### CLINICAL TOPICS IN PULMONARY MEDICINE

## **C81 ALPHABET SOUP! ILA, IPAF, PPF: AN INTERSTITIAL LUNG DISEASE PRO-CON**

**Assembly on Clinical Problems**

**2:15 p.m. - 3:45 p.m.**

**Moscone Center**

Room 24, Hall E (North Building, Exhibition Level)

### **Target Audience**

ILD clinicians, ILD translational scientists, general pulmonologists, rheumatologists, pathologists, radiologists, trainees

### **Objectives**

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

- explore and understand why and how the ILA, IPAF, and PPF definitions were proposed and the evidence base behind each definition
- describe the limitations of the ILA, IPAF, and PPF definitions and define important future directions for future investigation
- understand and discuss the clinical implications of the ILA, IPAF, and PPF criteria

The past decade has seen the emergence of guidelines and position papers defining key entities in interstitial lung disease (ILD): interstitial lung abnormalities (ILA), interstitial pneumonia with autoimmune features (IPAF), and progressive pulmonary fibrosis (PPF). However, consensus on their utility and application remains limited. This scientific session facilitates a Pro-Con debate questioning the practicality of these definitions: do they delineate clinically meaningful types, or unnecessarily complicate the alphabet soup of ILD? Attendees will gain insight into the nuanced areas of consensus and controversy and how these should inform future research and clinical application.

**2:15 Introduction and Overview**

**2:20 Pro: ILA**

**2:29 Con: ILA**

**2:38 Audience Discussion & Debate**

**2:47 Pro: IPAF**

**2:56 Con: IPAF**

**3:05 Audience Discussion & Debate**

**3:14 Con: PPF**

**3:23 Pro: PPF**

**3:32 Audience Discussion & Debate**

**3:40 Wrap Up**

*This session and the International Conference are supported by an independent medical educational grant from*

**Boehringer Ingelheim Pharmaceuticals, Inc.**

*All CME sessions have been planned and implemented in accordance with the Accreditation Criteria of the Accreditation Council for Continuing Medical Education (ACCME®) and are free of the control of ineligible companies (formerly commercial interests).*

## CLINICAL • TRANSLATIONAL

### CLINICAL TOPICS IN PULMONARY MEDICINE

## **C82 COPD CLINICAL TRIALS - WHERE DO WE GO FROM HERE?**

**Assemblies on Clinical Problems, Respiratory Cell and Molecular Biology**

**2:15 p.m. - 3:45 p.m.**

**Moscone Center**

Room 3006/3008 (West Building, Level 3)

### **Target Audience**

Clinicians, Researchers, Trainees, Fellows

### **Objectives**

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

- recognize emerging pathogenic mechanisms to target in COPD trials
- describe recent trial designs, non-pharmacologic interventions, and COPD outcomes
- integrate clinical trials and clinical practice

Clinical trials are the most rigorous studies for assessing effective patient care. This session discusses the latest developments, such as novel pathogenic mechanisms, recent study designs, new imaging outcomes, non-pharmacologic interventions, and challenges in COPD trials. It aims to guide research priorities and integrate clinical trials with clinical practice.

- 2:15 A Patient's Perspective
- 2:20 Gaps and Challenges with COPD Clinical Trials
- 2:37 Targeting Novel COPD Pathogenic Mechanisms
- 2:54 Imaging Endpoints, Are They Ready for Prime Time?
- 3:11 Non-Pharmacologic Interventions in COPD: Focus on Rehabilitation and Physical Activity
- 3:28 Advances in COPD Trials: Opportunities for New, Real-World Study Designs

### BEHAVIORAL • CLINICAL

### CRITICAL CARE TRACK

## C83 END-OF-LIFE CARE IN THE ICU: CONTROVERSIES AND CONVERSATIONS

Assemblies on Critical Care, Behavioral Science and Health Services Research, Clinical Problems, Pediatrics

2:15 p.m. - 3:45 p.m. Moscone Center

Room 2010/2012 (West Building, Level 2)

### Target Audience

Physicians, Nurses, Respiratory Therapists, Educators, Trainees

### Objectives

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

- define existing controversies in end-of-life care in the ICU
- examine evidence-based and expert-guided approaches to withholding or discontinuation of life-sustaining therapies in the ICU
- integrate new approaches to end-of-life care to improve patient- and family-centered outcomes

This session is proposed to address highly relevant and at times controversial topics in the care of patients dying in the intensive care unit (ICU). During this symposium, speakers will address approaches to the withholding or discontinuation of life-sustaining therapies (e.g., mechanical ventilation, hydration and nutrition, and extracorporeal life support) and will also discuss the challenging gray area that exists between cure and comfort. Controversial aspects of these approaches will be reviewed, and time will be allotted for discussion among audience and panel members.

2:15 Welcome and Introduction

2:20 A Patient's Perspective

- 2:25 Medications, Hydration, and Nutrition: To Continue or Discontinue
- 2:40 Withdrawal of Mechanical Ventilation: Best Practices and Ethical Considerations
- 2:55 Discontinuation of Mechanical Circulatory Support: Intricate End-of-life Care
- 3:10 Navigating the Area Between Cure and Comfort
- 3:25 Conversations with the Panel (1)
- 3:28 Conversations with the Panel (2)
- 3:32 Conversations with the Panel (3)
- 3:36 Conversations with the Panel (4)
- 3:40 Closing Remarks

### CLINICAL

### SCIENTIFIC SYMPOSIUM

## C84 PULMONARY-CRITICAL CARE ADVOCACY: CLOSING THE RESEARCH-POLICY GAP

Assemblies on Behavioral Science and Health Services Research, Environmental, Occupational and Population Health, Nursing; Health Policy Committee, Environmental Health Policy Committee

2:15 p.m. - 3:45 p.m. Moscone Center

Room 209-210 (South Building, Level 2)

### Target Audience

Inter-professional groups of pulmonary-critical care clinicians, researchers, trainees, nurses, pharmacists, respiratory therapists, patient advocates, and policy experts

### Objectives

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

- describe examples of successful advocacy within pulmonary-critical care to promote wide-scale equitable care.
- identify potential barriers to translating research into meaningful policy change.
- illustrate effective strategies to engage constituency groups and legislative partners in research and clinical work.

Translating research into impactful healthcare policy change is challenging, and the large gap between research and policy exacerbates existing healthcare disparities for patients with serious illnesses. Identifying effective strategies to translate



research findings into actionable practice and collaborate with legislative partners is essential to maximize the impact of healthcare research. This symposium will consist of real-world examples from pulmonary-critical care leaders with diverse expertise who have successfully implemented evidence-based practice into positive change for patients and are leading cutting-edge, policy-focused initiatives to improve healthcare outcomes and reduce healthcare disparities.

- 2:15    ATS in Action: Advocacy for Respiratory Health**
- 2:27    Becoming a Change Agent: Using Effective Communication to Broaden the Impact of Your Research and Clinical Findings**
- 2:34    PalliPulm to Policy - The Physician Advocate**
- 2:41    Exploring Equity and Uncertainty in Pulse Oximeter Accuracy**
- 2:53    A Breath of Fresh Air: ATS Successes in Supplemental Oxygen Reform**
- 3:05    Sounding the Alarm: Steering U.S. Environmental Policy Towards Protecting Patients from the Effects of Climate Change**
- 3:17    Examining the Evolving Regulatory Landscape of Big Data: Promoting Scientific Advancement in Critical Care Research While Ensuring Patient Privacy**
- 3:29    Panel Discussion**

### CLINICAL

### SCIENTIFIC SYMPOSIUM

## **C85    ATS GUIDELINES: CONTROVERSIES IN THE MANAGEMENT OF CAP AND ARDS**

Committees on Program Review and Document Development and Implementation

**2:15 p.m. - 3:45 p.m.** **Moscone Center**

Room 215-216 (South Building, Level 2)

### Target Audience

Clinicians caring for patients with respiratory infections, ARDS

### Objectives

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

- understand how evidence is used to inform diagnostic and treatment recommendations

- improve patient outcomes by applying recommendation from recently published clinical practice guidelines
- learn new strategies in the management of community-acquired pneumonia and acute respiratory distress syndrome

This session is proposed as the 10th annual scientific symposium sponsored by the Documents Development and Implementation Committee. This symposium will focus on controversial topics in recently published clinical practice guidelines, with presentations of pro and con positions on recommendations related to the management of community-acquired pneumonia (CAP) and acute respiratory distress syndrome (ARDS).

- 2:15    Welcome and Introduction**
- 2:18    A Patient's Perspective**
- 2:23    Corticosteroids in CAP: PRO**
- 2:33    Corticosteroids in CAP: CON**
- 2:43    Questions From the Audience: Corticosteroids in CAP**
- 2:50    Antibiotics in CAP with Positive Viral Testing: PRO**
- 3:00    Antibiotics in CAP with Positive Viral Testing: CON**
- 3:10    Questions from the Audience: Antibiotics in CAP with Positive Viral Testing**
- 3:17    Neuromuscular Blocking Agents in ARDS: PRO**
- 3:27    Neuromuscular Blocking Agents in ARDS: CON**
- 3:37    Questions From the Audience: NMBA in ARDS**

### BASIC • TRANSLATIONAL

### SCIENTIFIC SYMPOSIUM

## **C86    HOW NOVEL INFLAMMATORY INTERACTIONS IN ASTHMA CONTRIBUTE TO DISEASE AND SEVERITY**

Assembly on Allergy, Immunology and Inflammation

**2:15 p.m. - 3:45 p.m.** **Moscone Center**

Room 2005/2007 (West Building, Level 2)

### Target Audience

Asthma providers, Asthma Researchers, Providers who care for asthma patients

**Objectives**

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

- identify non Type-2 pathways described in asthma and how these pathways contribute to disease
- describe how the interaction of non-Type 2 inflammatory pathways with Type-2 inflammation and with each other may contribute to severe asthma and complicate the response to current asthma therapies

This session will focus on new discoveries on inflammatory pathways in asthma. Specifically, this symposia will examine how different inflammatory pathways may interact to produce challenging and difficult to treat asthma in patients, along with strategies for future work in developing novel asthma treatments beyond Type-2 targeted therapies alone.

- 2:15 A Patient's Perspective**
- 2:20 Natural Killer Cell Dysfunction and Impaired Inflammation Resolution Circuits Provoke Non-Type 2 Inflammation in Severe Asthma**
- 2:35 Overlap of Eosinophilic (Type 2) and Neutrophilic (Type 1) Inflammation Associates with Severe Asthma and Lung Function Decline**
- 2:50 Airway Autoimmunity: Looking Beyond T2 Response in Asthma Airways**
- 3:05 Differential Effects of T1 and T2 Inflammation on Airway Hyperreactivity**
- 3:20 A Virally-Driven Dual T2-T1 Endotype Drives Poor Asthma Control**
- 3:35 Discussion Time**

**BASIC • CLINICAL • TRANSLATIONAL**

**SCIENTIFIC SYMPOSIUM**

**C87 SLEEP AND SUDDEN DEATH**

Assemblies on Sleep and Respiratory Neurobiology, Clinical Problems, Critical Care, Environmental, Occupational and Population Health, Nursing, Pediatrics

**2:15 p.m. - 3:45 p.m.**

**Moscone Center**

**Room 205-206 (South Building, Level 2)**

**Target Audience**

Pediatric and adult clinicians and researchers in sleep and respiratory medicine.

**Objectives**

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

- identify shared and distinct mechanisms of respiratory control and arousal that are involved in various sudden death syndromes during sleep
- apply new knowledge about the pathobiology of sudden death during sleep to identify high risk patients
- more effectively counsel patients and their families with conditions at high risk for sudden death during sleep

Sudden death during sleep is a devastating event for patients and families, while also a significant public health problem. This session will review contemporary issues in 4 main areas: (1) the complex relationships between opioids, sleep, and sudden death; (2) pathomechanisms and management of CCHS; (3) recent insights into ventilatory control in sudden death syndromes (SUDEP, SIDS, & SUDC); and (4) the risk of sudden death in sleep apnea. The session will be of interest to adult and pediatric clinicians and researchers in pulmonary, neurology, and sleep medicine; sleep and respiratory physiologists; and experts in population health.

- 2:15 Opioids, Sleep, and Sudden Death 1**
- 2:33 CCHS and Sudden Death: Mechanisms and Prevention 2**
- 2:51 SUDEP, SIDS, and SUDC: Insights into Ventilatory Control 3**
- 3:09 Sleep Apnea and Sudden Death: Can We Prevent It? 4**
- 3:27 Panel Discussion 5**

**BASIC • CLINICAL • TRANSLATIONAL**

**SCIENTIFIC SYMPOSIUM**

**C88 YES, A WHOLE SESSION ON MUCUS: LATEST RESEARCH INSIGHTS**

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

**2:15 p.m. - 3:45 p.m.**

**Moscone Center**

**Room 201-202 (South Building, Level 2)**

**Target Audience**

Basic and translational scientists and healthcare professionals

**Objectives**

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

- learn what are the precise molecular and cellular mechanisms that lead to the formation of mucus plugs in different lung diseases and how do genetic factors influence mucus production and plug formation
- learn how do respiratory infections influence the formation and persistence of mucus plugs and what is the interplay between chronic infections and mucus plug dynamics in diseases like COPD
- understand what biomarkers can reliably predict the presence and impact of mucus plugs in lung diseases

Mucus plugs are a common and serious issue in chronic lung diseases. Mucus plugs form due to excessive mucus production, impaired mucus clearance, frequent respiratory infections, and inflammation, which result in symptoms like shortness of breath, coughing, and wheezing. Managing mucus plugs involves medications, hydration, chest physiotherapy, and avoiding irritants to improve breathing and reduce complications.

- 2:15
- Not All Plugs Are the Same: Understanding the Heterogeneity of Mucus Plugs
- 2:30
- Mechanisms of Formation and Persistence of Airway Mucus Plugs in Asthma
- 2:45
- Imaging Features of Mucus Plugs in Th2 Inflammation
- 3:00
- Blunted Mucociliary Clearance and Mucus Hypersecretion: The Key Driver of Mucus Plugging
- 3:15
- How Mucus Plugs Reshape Small Airways: Cutting-Edge Findings
- 3:30
- Mucus Plugs in Chronic Airway Diseases: Are They Reliable Biomarkers?

BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

C89

FROM AIR TO AILMENTS:  
UNDERSTANDING THE IMPACT OF  
AIRBORNE POLLUTANTS AND  
PARTICULATE MATTER FROM  
DIFFERENT SOURCES ON HEALTH

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

2:15 p.m. - 3:45 p.m.

Moscone Center

Room 3020 (West Building, Level 3)

Target Audience

Researchers, physicians, physician-scientists, trainees, early career clinical fellows, epidemiologists, and investigators studying chronic lung diseases and their underlying mechanisms related to environmental and occupational exposures.

- Objectives
- At the conclusion of this session, the participant will be able to:
- understand the negative effects of particulate matter on pulmonary and overall health using animal models and epidemiological data
  - identify specific biomarkers for predicting and understanding respiratory diseases caused by PM2.5 exposure
  - stay updated on new technological advancements and animal models in PM2.5 research

The discussion around particulate matter (PM) highlights the diverse compositions and sources of these pollutants, ranging from environmental to occupational exposures such as exposures to wildfire-PM, PM-metalloids present near mining areas, agricultural dust, and at deployment sites. While much of the focus is often on PM, the detrimental effects of heavy metals, toxic gases, and hydrocarbons are equally significant and demand attention. This symposium delves into the various sources of environmental and occupational particulate matter exposures, and the mechanisms causing respiratory illnesses. Additionally, this symposium also aims to discuss disproportionate environmental PM exposures in low social economic communities and vulnerable populations.

- 2:15
- Particulate Air Pollution: Catalyst for Systemic Oxidative Stress and Persistent Inflammation
- 2:30
- Real-world Particulate Matter on Pulmonary Health: Mechanistic Insights
- 2:45
- Occupational Asthma in Firefighters: Biomarkers of World Trade Center Particulate Matter Exposure .
- 2:57
- Effects of Wildfire Smoke Exposure on Early Childhood Respiratory Health
- 3:09
- Outdoor Air Particulate Matter Exposure as a Potential Cause of Pulmonary Health Disparity
- 3:21
- From Battlefield to Home: Analyzing PM Exposure and its Toxicity
- 3:33
- Technical Advancement: Seeing the Unseen: Visualizing PM2.5 Uptake in 3-Dimensional Label-Free Visualization by Optical Diffraction Tomography

## BASIC • CLINICAL • TRANSLATIONAL

## SCIENTIFIC SYMPOSIUM

**C90 EARLY STAGES OF TUBERCULOSIS INFECTION: UPDATES ON AN EVER-CHANGING PARADIGM**

Assembly on Pulmonary Infections and Tuberculosis

2:15 p.m. - 3:45 p.m.

Moscone Center

Room 25, Hall E (North Building, Exhibition Level)s

**Target Audience**

Clinical and translational researchers and TB care providers with interests in understanding the intricacies of the establishment of TB infection.

**Objectives**

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

- develop a comprehensive understanding of early TB stages: attendees will be able to apply new definitions (initial, incipient, minimal, and subclinical) and differentiate between the early stages of TB infection
- identify and assess risk factors for establishment of TB infection.
- generate new research avenues in early TB infection

The early stages of tuberculosis (TB) infection are critical, yet often overlooked, phases in the disease's natural history and are increasingly recognized as contributors to TB burden. Our symposium will provide a platform for experts to discuss ongoing research and new definitions for stages of TB infection, including initial, incipient, minimal, and subclinical phases.

**2:15 Early Stages of TB Infection, History and Why We Care About Definitions****2:30 Epidemiology of TB and Latent/Subclinical/Incipient TB****2:45 What Basic Evidence Do We Have About Establishment of TB Infection?****3:00 Risk Factors for TB Infection****3:10 Pro: Keep the Term Latent TB"****3:20 Con: Redefining Establishment of TB Infection****3:30 Q&A**

## BEHAVIORAL • CLINICAL

## SCIENTIFIC SYMPOSIUM

**C91 AN ADVOCACY FRAMEWORK FOR TOBACCO: EVIDENCE, POLICY, AND REGULATION ACROSS THE LIFESPAN**

Assemblies on Pediatrics, Behavioral Science and Health Services Research, Environmental, Occupational and Population Health; Tobacco Action Committee Pediatric Advocacy Committee Health Policy Committee

2:15 p.m. - 3:45 p.m.

Moscone Center

Room 304 (South Building, Level 3)

**Target Audience**

Physicians, health services researchers, tobacco researchers, epidemiologists, public policy advocates, behavioral science researchers and clinicians

**Objectives**

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

- learn the scientific basis of the latest harmful tobacco products marketed to youth and young adults, including those exploiting regulatory loopholes
- incorporate advocacy in professional life to influence tobacco policy at local and regional levels
- understand racial disparities in tobacco policy and lawmaking

Tobacco use (including e-cigarettes) poses an ongoing threat to the respiratory health of people of all ages and is a major contributor to health disparities. Our session will present a framework for tobacco-related advocacy. Tobacco researchers, clinicians, and advocates will provide examples of different interventions, including successful past and potential future local and federal legislation, government regulation, and public health interventions in the US and abroad. Presenters will identify targets for future research and policy intervention. Much of the session will focus on youth and young adults, as this is a crucial time to reduce tobacco-related health disparities through advocacy.

**2:15 Tobacco 21 to Tobacco-Free Generation: From Effective Local Policy to National Policy****2:35 Tobacco Regulation: Current Evidence and Future Opportunities****2:55 The Role of Flavorings: From Youth Initiation to Policy Targets****3:15 A School-Based Anti-Tobacco Curriculum in Mexico****3:35 Patient Voice**



## CLINICAL

## LATE BREAKING MINI SYMPOSIUM

### C93 ADVANCES IN INTERSTITIAL LUNG DISEASE AND PULMONARY HYPERTENSION: UNCOVERING NOVEL MECHANISMS, TARGETED THERAPIES, AND PERSONALIZED APPROACHES

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 3000/3002/3004 (West Building, Level 3)

- 2:15 Deupirfenidone Compared to Placebo and Pirfenidone in Idiopathic Pulmonary Fibrosis: ELEVATE IPF Phase 2b Trial
- 2:27 Initiation of Supplemental Oxygen in the FIBRONEER-IPF Trial of Nerandomilast in Patients With Idiopathic Pulmonary Fibrosis
- 2:39 A Single Dose of RT234, Vardenafil Inhaled via the Axial Oscillating Sphere Dry Powder Inhaler (AOST DPI), Acutely Improves Exercise Capacity and Reduces Dyspnea in Pulmonary Arterial Hypertension (PAH) Patients (WHO Group 1 PH) - Results From the Open-Ia
- 2:51 The Discovery of a Novel Alveolar Type 2 Subpopulation That Express Tert and Function as Unipotent Stem Cells
- 3:03 A Nerve-fibroblast Axis in Mammalian Lung Fibrosis
- 3:15 Targeting Endothelial TrkB Signaling Pathway to Inhibit Pulmonary Fibrosis
- 3:27 HS135, a Novel Investigational Activin Inhibitor for the Treatment of Pulmonary Hypertension (PH): Results From a Healthy Volunteer Phase 1 Trial Demonstrated Favourable Safety Profile and Pharmacodynamic Responses, Including Improved Body Composition and Cardiac Biomarkers
- 3:39 Single Cell RNAseq Reveals Role of Interplay Between Pulmonary Artery Smooth Muscle Cells and Pulmonary Endothelial Cells Through Sphingosine-1 Phosphate Signaling in Experimental Pulmonary Hypertension
- 3:51 Atypical CD11c+ B-cells Expand In Idiopathic Pulmonary Fibrosis And Are Associated With IgA Antibodies Against Oxidized Cholesterol

- 4:03 Spatial Transcriptomic Analysis of Familial Pulmonary Arterial Hypertension Due to a Novel KDR Mutation

## BASIC • TRANSLATIONAL

## MINI SYMPOSIUM

### C94 BREATHING EASY: UNRAVELING THE MYSTERIES OF ASTHMA THROUGH TRANSLATIONAL STUDIES

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 3014/3016/3018 (West Building, Level 3)

- 2:15 Efficacy and Safety of Bivalent IL-4/IL-13 mRNA Vaccine for Protection Against Allergic Asthma in Humanized Mice and Non-human Primates
- 2:27 Perinatal Obesity Is Associated With Childhood Asthma Via Modulation of Interleukin-6 Trans-Signaling and Premature Aging of Human and Murine Respiratory Epithelial Cells
- 2:39 Distinct Cellular and Molecular Features of Asthma Mucus Plugs Provide Clues About the Mechanisms of Their Formation and Persistence
- 2:51 Association Between Lifestyle-associated Metabolites Signatures and the Risk of Late-onset Asthma
- 3:03 Clinical Remission by a Comprehensive Severe Asthma Management Strategy Guided by Airway Inflammometry and Bioimaging
- 3:15 Airway Transcriptomics Signature in Asthma Among Menopausal Women
- 3:27 Towards Asthma Remission: Integrative Network Analysis Implicates Mucous-ciliated Cell Dynamics in Response to Biologic Therapies in the REGAIN Cohort
- 3:39 Using the Blood Eosinophil Count to Guide Systemic Corticosteroid Therapy in Adults Hospitalized for Asthma Exacerbation: A Randomised, Controlled, Open-Label, Non-inferiority Trial
- 3:51 A Computational Approach for Detection of Novel Circular RNAs (circRNA) From the ATLANTIS Study

4:03 Prognostic Interaction Between Inflammatory and Clinical Risk Factors for Asthma Attacks: Findings From the ORACLE2 Patient-level Meta-analysis

4:03 Co-design of Peer-Led Community Outreach to Improve Equity, Veteran-Centeredness and Uptake of Lung Cancer Screening

## BEHAVIORAL SCIENCE

### MINI SYMPOSIUM

#### C95 PUBLIC HEALTH AND POLICY RELEVANT RESEARCH: SMOKING CESSATION, VACCINATIONS AND CANCER SCREENING

2:15 p.m. - 4:15 p.m. Moscone Center

Room 303 (South Building, Level 3)

- 2:15 Using a Simplified Survey to Assess Lung Cancer Screening Eligibility: The Effects of Messaging and Incentives on Survey Response
- 2:27 Comparative Effectiveness of Electronic Cigarettes and Pharmacotherapy for Smoking Cessation: A Systematic Review and Bayesian Network Meta-analysis of Randomized Trials
- 2:39 Cytisinicline Reduces Cravings and Nicotine Intake in People Who Smoke and Don't Quit Completely
- 2:51 Is Equitable Priority Vaccination of Vulnerable People Feasible in a Real-World Context? The Case of Belgium
- 3:03 Socio-demographic and Clinical Factors Associated With COVID-19 Vaccine Uptake Among Multiethnic US Adults: The C4R Study
- 3:15 A Breath of Fresh AI: Using Large Language Models to Detect Lung Nodule Characteristics and Follow-up Recommendations
- 3:27 Unlocking Correctional Healthcare Policies: An Analysis of State Prison Policies Regarding the Care of Incarcerated Patients
- 3:39 Occam's Razor Versus Hickam's Dictum: Exploring the Meaning of Viral Pathogens to Patient Factors, Outcomes, and Prediction of Bacterial Infection in Patients Presenting With Community-acquired Pneumonia at 134 VA Emergency Departments
- 3:51 National Estimates and Predictors for Asthma Readmissions for the Years 2010 and 2019

## BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

### MINI SYMPOSIUM

#### C96 SEPSIS SCIENCE: OPTIMIZING PERSONALIZATION AND PROCESS

2:15 p.m. - 4:15 p.m. Moscone Center

Room 2018/2010 (West Building, Level 2)

- 2:15 Recommended Features of Hospital Sepsis Programs Are Associated With Improved Sepsis Management and Outcomes
- 2:27 Extent and Drivers of Physician Practice Variation in Early Sepsis Management: A Mixed Methods Study
- 2:39 Understanding Antibiotic Delays in Patients With Sepsis-Induced Hypotension at Michigan Hospitals
- 2:51 Rapid Functional Assessments Enhance Bedside Mortality Prediction Among Adults With Suspected Sepsis in Sub-Saharan Africa: A Prospective, Multicenter Study From Uganda
- 3:03 Hospital Safety-Net Burden and Outcomes of COVID-19 Hospitalizations in the US: Analysis of a National Multicenter Database
- 3:15 Differences in Management of Presumed Viral vs Presumed Bacterial Sepsis: A Retrospective Study Using the Michigan Hospital Medicine Safety Consortium Sepsis Registry
- 3:27 Chondroitin Sulfate Predicts 90-day Mortality and Response to Fluid Resuscitation Strategy in CLOVERS
- 3:39 Robust Classification of Inflammatory Subphenotypes Using Penalized Logistic Regression on Highly Available Clinical Variables
- 3:51 Sepsis Subtypes Are Associated With Divergent Odds of 90-day Mortality
- 4:03 Scheduled Early Outpatient Follow-up Does Not Improve 90-day Survival and Readmission for Survivors of Hypoxemic Community Acquired Pneumonia - A Target Trial Emulation

**BEHAVIORAL • CLINICAL • TRANSLATIONAL****MINI SYMPOSIUM****C97 CUTTING-EDGE ADVANCES IN PEDIATRIC LUNG DISEASES: FROM PREDICTION TO MANAGEMENT****2:15 p.m. - 4:15 p.m. Moscone Center****Room 211-212 (South Building, Level 2)**

- 2:15** Quantifying the Effect of Albuterol on Tracheal and Lung Compliance
- 2:27** Early Detection of Lung Disease in Pediatric Patients With Sickle Cell Anemia Using Lung Clearance Index, A Pilot Study
- 2:39** Pulmonary <sup>129</sup>Xe Ventilation MRI Predicts Severe Exacerbations in People With CF
- 2:51** PEEP and OSI as Predictors of Tracheobronchomalacia in Bronchopulmonary Dysplasia
- 3:03** Implementation of Race-Neutral Spirometry Reference Equations Change the Interpretation of Tests in South East Asian and Black Pediatric Populations
- 3:15** Pharmacoequity and Health Outcomes Among Infants With Bronchopulmonary Dysplasia
- 3:27** Predictors of Pulmonary Function Deficit in Childhood and Adolescent Acute Lymphoblastic Leukaemia Survivors: A National Retrospective Cohort Study
- 3:39** Bronchodilator Response Measured by Intrabreath Oscillometry Differentiates Wheezers From Healthy Preschoolers
- 3:51** Impact of Adenotonsillectomy on Blood Pressure Trajectories in Children With Mild Obstructive Sleep Disordered Breathing
- 4:03** Featured Speaker: Research in Respiratory Viral Infections, Cystic Fibrosis and Asthma; Informing Disease Prediction and Management

**CLINICAL • TRANSLATIONAL****MINI SYMPOSIUM****C98 PALACE OF FINE ARTS: INNOVATIVE THERAPEUTIC APPROACHES AND SURVIVAL PREDICTION IN PULMONARY HYPERTENSION****2:15 p.m. - 4:15 p.m. Moscone Center****Room 2001/2003 (West Building, Level 2)**

- 2:15** Sotatercept Improves Hypoxia and Clinical Status in Patients With Pulmonary Venous Occlusive Disease
- 2:27** The Impact of Amyloid-beta and Phosphorylated Tau217 on Pulmonary Hypertension Associated Cognitive Dysfunction
- 2:39** Male Survival Disadvantage in Pulmonary Hypertension in the PVRI Godeep Meta-registry
- 2:51** Machine Learning Models Show Excellent Performance for Predicting One-year Survival of Pulmonary Arterial Hypertension Patients
- 3:03** Metabolic Adaptations to High-altitude Hypoxia in Two Ethiopian Populations
- 3:15** Pulmonary Arterial Pruning Is Associated With Death in Smokers Without COPD in COPDGene
- 3:27** CT-based Discrimination of CTEPH Using Deep Learning Clot Vessel Radiomics and Machine Learning
- 3:39** High Frequency of Pulmonary Embolism in Symptomatic Children in the Emergency Department
- 3:51** Novel Use of Arterial Spin Labeling to Assess Lung Perfusion in Individuals Born Extremely Preterm
- 4:03** Plasma Proteins Differ by Etiology and Six Minute Walk Distance in Patients With Pulmonary Arterial Hypertension

## BASIC • CLINICAL • TRANSLATIONAL

## MINI SYMPOSIUM

**C99 THE ALVEOLAR NICHE AND EPITHELIAL REMODELING IN EARLY AND ADVANCED FIBROSIS**

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 2009/2011 (West Building, Level 2)

- 2:15 Feature Speaker: Epithelial Progenitors and Transitional States in Lung Regeneration and Fibrosis  
Featured Speaker: Epithelial Progenitors and Transitional States in Lung Regeneration and Fibrosis
- 2:27 Transcriptomic Signature-guided Depletion of Intermediate Alveolar Epithelial Cells Ameliorates Pulmonary Fibrosis in Mice
- 2:39 Syndecan-1 Promotes Aberrant Transitional Epithelial Cell Accumulation During Lung Fibrosis
- 2:51 Characterizing Molecular Dysregulation of the Alveolar Niche in Individuals at Risk for Familial Pulmonary Fibrosis
- 3:03 mTORC1 Activation in Lung Mesenchyme Drives Alveolar Epithelial Cell Fitness
- 3:15 Early IPF Is Characterized by a Dramatic Shift of the Epithelial and Endothelial Populations Within the Alveolar Niche
- 3:27 The Potential Role of GPR87 in the Development of Pulmonary Fibrosis
- 3:39 Blockade of ATP12A Activity in Distal Airway Basal Cells From IPF Lungs Attenuates Aberrant Cell Differentiation and Mitigates Profibrotic Functions
- 3:51 A Familial Pulmonary Fibrosis-associated GPR87 Mutation Regulates Airway Epithelial Fate to Promote Lung Fibrosis
- 4:03 Scleroderma Associated Interstitial Lung Disease Is Characterized by Aberrant Lung Epithelial Remodeling

## BASIC • CLINICAL • TRANSLATIONAL

## MINI SYMPOSIUM

**C100 MORNING SHOWS THE DAY: PERINATAL DETERMINANTS OF AIRWAY STRUCTURE AND FUNCTION**

2:15 P.M. - 4:15 P.M.

Moscone Center

Room 3001 (West Building, Level 3)

## Oral Presentations:

- 2:15 Association of a Novel Index of Early-life Growth Conditions With Later-life Lung Structure and Function
- 2:27 Maternal Obesity Potentiates Inflammatory and Physiological Responses to Allergen Challenge in Offspring
- 2:39 Amniotic Fluid Inflammatory Profile Is Altered by Prenatal Cigarette Smoke Exposure
- 2:51 Maternal Diabetes Influences Sensitivity to Cigarette Smoke Induced Lung Inflammation and Gene Expression in Offspring
- 3:03 Mitochondrial Reactive Oxygen Species and Endoplasmic Reticulum Stress in Hyperoxia-induced Senescence in Developing Human Airway Smooth Muscle
- 3:15 Developmental Dysanapsis: Preterm Birth Accentuates Differential Growth of Airway and Parenchymal Function Early in Life
- 3:27 Redefining Human Airway Biology in Children From the Top Down: Unique Features of the Nasal Airway Epithelium
- 3:39 Associations of CT Lung Density and Perfusion With E-cigarette Use in Young Adults: The VapeScan Study
- 3:51 Lung Function Trajectories in Young, Mid-adult Life Predict Premature Mortality



**BEHAVIORAL • CLINICAL****POSTER DISCUSSION SESSION****C101 ASTHMA AND COPD EPIDEMIOLOGY, MANAGEMENT AND POLICY**

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 2006/2008 (West Building, Level 2)

Poster Viewing

2:15-3:00

Discussion

3:00-4:15

- 701 Association Between Compliance With Protocol and Student Outcomes in Illinois Stock Albuterol Program
- 702 Higher Environmental Injustice Correlates With Worse Asthma Control Test Scores in Adults With Asthma
- 703 Direct and Indirect Effects of Patient-Related Factors, Health Systems and Socioeconomic Status on Medication Adherence in Asthma
- 704 Assessment of Global Initiative for Asthma (GINA)-Defined Asthma Control: Comparative Effectiveness of Four Questionnaires in a Sub-Saharan African Population
- 705 Predicting Asthma Exacerbations: Can SDOH Data Help?
- 706 Informing the Development of a COPD Discharge Bundle Through the Perspective of Healthcare Providers in a Safety-net Healthcare System: A Qualitative Study
- 707 Telehealth for Children With Asthma at an Academic Pediatric Pulmonary Clinic: Reducing Barriers to Access or Another Source of Disparity?
- 708 Development and Validation of EPIC-USA: A COPD Policy Model for the United States
- 709 “They Were Really Useless”: The Impact of Healthcare Providers on Experiences of Financial Toxicity among Individuals with COPD
- 710 Patient Perspectives Inform Key Criteria for a Patient-Centered Definition of Asthma Remission: Results of a Multi-Country Qualitative Study
- 711 Gender Differences in Healthcare Utilization and Asthma Management in a Veteran Cohort

- 712 Determinants of Medication Non-adherence Among Adults With Chronic Obstructive Pulmonary Disease
- 713 Risk Factors for Unsatisfactory Asthma Control After Quality Improvement Programme: Results From a Multi-centre, Single-arm Study (CARE4ALL)
- 714 Provider Perceptions of Inhaler Device Switching Following a Department of Veterans Affairs National Formulary Change
- 715 Real World Effectiveness of Benralizumab for Severe Eosinophilic Asthma in Colombia: The Benracol Study
- 716 Digital Quality Improvement: Efficiently and Effectively Building Operational Frameworks to Improve Severe Asthma Specialty Referral Practices in the Primary Care Setting
- 717 Impact of Biologic Therapy on Asthma Control: Insights From Cook County Hospital - A Safety Net Hospital in Chicago
- 718 Understanding Nebulizer Utilization in Clinical Practice: A COPD Foundation Nebulizer Consortium Survey Study
- 719 Chronic Obstructive Pulmonary Disease Diagnosis and Management Are Far Below Standards in Ethiopia: A Qualitative Study in Five Teaching Hospitals
- 720 The Reducing Revisits Study: Baseline Demographic and Acute Care Utilization for Patients With Chronic Obstructive Pulmonary Disease Across 20 U.S. Hospitals
- 721 Race-neutral Lung Function Interpretation Does Not Alter Correlation to Symptom Burden in Asthma
- 722 Corticosteroid-related Adverse Outcomes and Costs in Medicare Patients With Asthma: A Retrospective US Administrative Claims Analysis
- 723 Engaging Stakeholders to Design a Wildfire Smoke Action Plan for Children With Asthma
- 724 Real-World Persistence to Biologic Therapies and Its Impact on Outcomes in Patients With Asthma

## CLINICAL

## POSTER DISCUSSION SESSION

## C102 PACING LIFE SUPPORT IN THE ICU: PREDICTORS, PRACTICES, AND PATIENT OUTCOMES IN ACUTE RESPIRATORY FAILURE

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 3010/3012 (West Building, Level 3)

Poster Viewing

2:15-3:00

Discussion

3:00-4:15

- 501 Understanding the Impact of a Randomized Controlled Trial of High Flow Oxygen on Clinical Care in Five Hospitals in Sub-saharan Africa
- 502 Phrenic Nerve Stimulation Decreases Ventilation-Associated Kidney Injury in an ARDS Preclinical Model
- 503 30-Day Mortality and Risk of Hypoxemia Recurrence Among Patients Meeting EOLIA-Enrollment Criteria but Not Treated With ECMO
- 504 Comparing Effectiveness of Intelligent Volume-Assured Pressure Support vs Bi-level Positive Airway Pressure Spontaneous/Timed for Hypercapnic Respiratory Failure With Acidosis in Acute Exacerbation of Chronic Obstructive Pulmonary Disease
- 505 Diaphragm Thickening Fraction Is Not Predictive of Spontaneous Breathing Trial or Extubation Outcomes in Critically Ill Children
- 506 Obesity Modifies the Effect of PEEP on Mechanics of Breathing in Acute Hypoxemic Respiratory Failure
- 507 Providers Consistently Postpone Extubation After Successful Spontaneous Breathing Trials
- 508 Multi-center Evaluation of Prone Positioning Practices for Moderate and Severe Hypoxemic Respiratory Failure
- 509 Association of Clinical Factors With Central Respiratory Drive Upon Initiation of Mechanical Ventilation

- 510 Higher Physiologic Dead Space Is Associated With Spontaneous Breathing Trial Failure in Mechanically Ventilated Children
- 511 Predicting Extubation Failure in Critically Ill Adults Receiving Invasive Mechanical Ventilation: A Secondary Analysis of the Wean Safe Cohort
- 512 The Common Longitudinal Intensive Care Unit (CLIF) Respiratory Support Waterfall: A Novel Method for Analyzing Ventilator Mode Patterns in Critical Care
- 513 Development of a Prognostic Scoring System for Tracheostomized Patients Requiring Prolonged Mechanical Ventilation
- 514 Increased Oxygen Consumption Rate in the Proximal Tubule and Mitochondrial Stress Contributes to Ventilator Induced Kidney Injury
- 515 Barriers to Implementation of Non-invasive Ventilation for Preoxygenation Prior to Tracheal Intubation
- 516 Association of Early Tidal Volume Variability With Ventilator-free Days in Mechanically Ventilated Patients
- 517 Deep Counterfactual Inference for Individual Treatment Effects (ITE): Comparing High-flow Nasal Cannula and Non-invasive Ventilation in Critical Care
- 518 End-expiratory Transpulmonary Pressure Close to Zero Is Not Associated With Improved Outcomes in Children With Acute Respiratory Distress Syndrome
- 519 A BMI-based Guideline for Setting PEEP in Obese Patients Did Not Impact Initial Ventilator Settings
- 520 Impact of Driving Pressure, PEEP, and Tidal Volume on Mortality and Clinical Outcomes in ARDS Patients: An Analysis Using Causal Mediation and SHAP Methods
- 521 An Analysis of Pulse Oximetry and Arterial Oxygen Content in Acute Respiratory Distress Syndrome
- 522 Lung-Distending Pressure During Spontaneous Breathing Under Mechanical Ventilation Assessed Using Diaphragm Electrical Activity
- 523 Timing of Inspiratory Effort Measurement and Its Association With Ventilator-free Days in Mechanically Ventilated Patients

524 Practice Pattern Variation in Provision of Respiratory Support to Intensive Care Patients With Respiratory Failure

525 Topical Lung Treatment of All-cause ARDS With Instilled T3: Physiologic Basis and Phase I/IIA Trial Results

## BEHAVIORAL • CLINICAL

### POSTER DISCUSSION SESSION

#### C103 IMPROVING PRAXIS, PROCESS AND PEOPLE IN THE ICUs

2:15 p.m. - 4:15 p.m. Moscone Center

Room 3009/3011 (West Building, Level 3)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

901 The Epidemiology of Intensive Care Unit Readmissions Across 8 Academic Medical Centers

902 Pulse Oximeter Performance Across Varied Skin Pigment: A Comparative Analysis of Current and Emerging Regulatory Standards

903 Reductions in Ventilator-associated Events Following Implementation of a Ventilator-associated Pneumonia Diagnostic Stewardship Intervention

904 Hospital Variation in Survival to Discharge After In-Hospital Cardiac Arrest

905 Evaluating the Impact of Tele-critical Care Implementation on Inpatient Mortality and Length of Stay

906 Racial Inequalities Among Veteran Survivors of Critical Illness Receiving Care Within and Outside of the Veterans Affairs Healthcare System: A Retrospective Cohort Study

907 Association Between Non-working Day Admissions to the Medical Intensive Care Unit and In-hospital Mortality

908 Association Between Opioid Use and Patient Outcomes Following Out-of-Hospital Cardiac Arrest

909 Large Language Model-Derived Digital Twins for Predicting Medication Treatments in the Intensive Care Unit

910 Machine Learning-driven Early Detection of Hemorrhage Using Waveform-level Real-world Physiologic Intensive Care Unit Data

911 Predictive Factors of Success After Weaning Attempt of Renal Replacement Therapy in Intensive Care Unit

912 In-hospital Cardiac Arrest Outcomes in the Hispanic Population

913 Predicting Discharge to Long-term Acute Care (LTAC) Facility With Machine Learning Using Electronic Health Record Data

914 Effect of Seniority on Agreement and Appropriateness in Medical Intensive Care Triage

915 Propofol Sedation Strategies Following Hypertriglyceridemia in Critically-Ill Adults Requiring Invasive Mechanical Ventilation: A Target Trial Emulation

916 Electronic Health Record Signatures of Spontaneous Awakening Trials: A Multi-Center Analysis of Sedation Cessation Patterns in Mechanically Ventilated Patients

917 Increasing Adherence to Paired Daily SAT and SBT Protocol for Mechanically Ventilated Patients: A Quality Improvement Project

918 Deterioration Index Correlated With Outcomes in Patients With Rapid Response Team Activations

919 Evaluation of Declined Inter-ICU Transfer Requests to a Single, Tertiary Care Center

920 Predicting Critical Illness in Hospitalized Patients With Substance Misuse

921 Exploring the Ideal Approach to Point-of-Care Ultrasound Curriculum Implementation: A Comparison of Two Academic Internal Medicine Residency Programs' POCUS Curriculum

922 Validation of Emergency Physicians as Ultrasound Operators for the "Rapid Emergency Assessment for Acute Dyspnea" Study

923 Transformative Learning in the Intensive Care Unit: A Qualitative Study of Medical Students' Experience

924 Decay in Physiologic Knowledge Since Medical School for Critical Care Fellows (DIP Study II)

925 Learning in Critical Spaces: A Qualitative Analysis of Medical Students' Sub-internship Reflections From the Intensive Care Unit

**BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL**

**POSTER DISCUSSION SESSION**

## **C104 ENVIRONMENTAL AND SOCIAL DETERMINANTS OF LUNG HEALTH AND DISEASE**

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 301-302 (South Building, Level 3)

Poster Viewing

2:15-3:00

Discussion

3:00-4:15

- 401 Interventions to Prevent Vaping Initiation and to Support Vaping Cessation
- 402 Treatable Moments for Smoking Cessation in Obstructive Airway Diseases
- 403 Clearing the Air: Exploring Smoking Cessation in Patients With Airflow Obstruction in Urban-dwelling Black/African American Patients
- 404 Higher Numbers and Closer Proximity of Tobacco Retailers to Schools in Lower Socioeconomic Areas in San Diego County
- 405 Impacts of "Race-neutral" GLI-Global Prediction Equations in Occupational Health
- 406 Racial Differences in Lung Function Decline Among People With Chronic Obstructive Pulmonary Disease: Longitudinal Analysis of Electronic Medical Records Data
- 407 Social Adversities Negatively Impact Clinical Outcomes in Patients With HIV and Pulmonary Hypertension
- 408 Impact of Seasonal, Regional, and Socioeconomic Factors on Chronic Obstructive Pulmonary Disease (COPD) Exacerbation Patterns: Insights From the Nationwide Inpatient Sample (2017-2021)
- 409 Social Disparity and Adult Asthma Prevalence in US Neighborhoods

- 410 Characterizing Differences in Socioeconomic and Environmental Factors Associated With Sarcoidosis Among Black and White Patients in North Carolina
- 411 The Impact of Neighborhood Material and Social Disadvantage on Respiratory Health Across Canada
- 412 The Impact of Regional Air Quality and Social Deprivation Index on Lung Function in Individuals With Alpha-1 Antitrypsin Deficiency in Ireland: Analysis of National Alpha-1 Detection Programme, National Alpha-1 Registry, and National Ambient Air Quality M
- 413 Asthma Control With Biologics: Across the City of Chicago's Air Quality and Health Index
- 414 Characteristics Associated With Regular Attendance and Quality of Asthma Annual Reviews in Adults With Asthma in England
- 415 A Novel Approach for Measuring Allostatic Load Highlights Differences in Stress Burdens Due to Race, Sex and Smoking Status
- 416 Mapping Disparities in Access to Spirometry
- 417 Analysis of Spatial Access to Alpha 1 Antitrypsin Deficiency Specialty Centers Using Enhanced Two-step Floating Catchment Area Method
- 418 Cystic Fibrosis: Exploring Rural Health Disparities
- 419 COPD Complications: Analyzing Outcomes in a Rural Environment
- 420 Inequities in COPD: Economic Impact of Underdiagnosis in Hispanic Populations
- 421 Inspire Respiratory Health Program: Preliminary Results From a Public Respiratory Initiative in a Vulnerable Area of Sao Paulo State, Brazil
- 422 The Relationship Between Cardiopulmonary Exercise Testing Utilization and Social Vulnerability
- 423 Trends and Disparities in Pulmonary Death in Sarcoidosis: A Population-Based Retrospective Study in the United States From 1999 to 2020



## CLINICAL • TRANSLATIONAL

## RAPID POSTER DISCUSSION SESSIONS

**C105 UPDATES ON MONITORING AND TREATMENT OF PEDIATRIC LUNG DISEASES ACROSS THE GLOBE**

2:15 p.m. - 4:15 p.m. Moscone Center

Room 2022/2024 (West Building, Level 2)

Viewing/Abstract Summaries 2:15-3:00

Discussion 3:00-4:15

- 801 Retrospective Study of Clinical, Radiological and Surgical Outcomes in Diaphragmatic Eventration in Children
- 802 The Association Between Hypoxemia and Mortality in Children With Lower Respiratory Infections in Low- and Middle-income Countries: Updated Systematic Review and Meta-analysis
- 803 Inspiratory Muscle Training in the Pediatric Cardiac ICU - A Retrospective Study
- 804 Epidemiology and Clinical Characteristics of Respiratory Syncytial Virus in Patients With Influenza Like Illness in the Gambia: Results From a Newly Implemented Sentinel Surveillance Program
- 805 The BREATHE Study: A Randomized Controlled Trial of Bronchiolitis Recovery and Use of HEPA Filters
- 806 Assessing Chest X-ray Patterns in Pediatric COVID-19 Patients: Insights From Epico Colombia Study
- 807 Paediatric Oxygen Therapy in Nigeria: A Survey of Health Workers
- 808 Respiratory Co-morbidities Among Children With Sickle Cell Anaemia in a Tertiary Hospital in Port-Harcourt, Nigeria
- 809 Healthcare Worker and Caregiver Perspectives About a Paediatric Smartphone Reflectance Pulse Oximeter Called Phefumla: A Qualitative Evaluation in South Africa
- 810 Prospective Evaluation of Pulse Oximeter Accuracy Using Arterial Blood Gas Reference Measurements in Critically Ill South African Children: Preliminary Analysis

- 811 Performance of a Novel Mobile-phone Reflectance Pulse Oximeter Prototype "Phefumla" in Children in South Africa
- 812 School-aged Children With History of Prematurity and Bronchopulmonary Dysplasia Demonstrate Alterations in Cardiac Performance and Evidence of Pulmonary Vascular Disease
- 813 Enhancing Fellow Autonomy Through Independent Rounding: A Quality Improvement Initiative
- 814 Home Spirometry for Early Identification of Pulmonary Dysfunction After Hematopoietic Stem Cell Transplant in the Transpire Research Study
- 815 Fontan Patients With a Systemic Left Ventricle Have Greater Exercise Capacity Than Those With a Systemic Right Ventricle: A Systematic Review and Meta-analysis

## BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

## POSTER DISCUSSION SESSION

**C106 ESCAPING ALCATRAZ: INTEGRATIVE OMICS APPROACHES TO PULMONARY VASCULAR DISEASE: FROM SINGLE-CELL TO SYSTEMIC INSIGHTS- LET'S DISCUSS THE DATA**

2:15 p.m. - 4:15 p.m. Moscone Center

Room 3022/3024 (West Building, Level 3)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 1001 Pulmonary Arterial Hypertension Single-cell Atlas of the Human Lung
- 1002 A Single-cell Lung Atlas of Human Pulmonary Arterial Hypertension
- 1003 Single-Cell RNAseq Reveals Transcriptional Changes in Venous Endothelial Cells That Suggest a Post-capillary Mechanism of ILD-associated Pulmonary Hypertension
- 1004 Single Cell RNA Sequencing Reveals Profound Alterations in the Lung Transcriptome in a Mouse Model of Sickle Cell Disease

- 1005 Transcriptomic Analysis of Endothelial and Smooth Muscle Cells Isolated From Patients With Pulmonary Arterial Hypertension May Aid in Understanding Responses to Therapy
- 1006 Rooting for Repair: Unveiling the Pivotal Role of Root Endothelial Cells in Pulmonary Vascular Regeneration
- 1007 Adrenomedullin Is Enriched in Human Lung Vascular Niche and Enhances Endothelial Cell Maturation in Bioengineered Lung Models
- 1008 Single-cell Analysis Reveals Decreased Levels of Collagen Genes, But Increased Expression of Collagen Modifying Enzymes in Early Stage of Pulmonary Hypertension
- 1009 Transcriptome Analysis of Fibroblasts in Hypoxia-induced Vascular Remodeling: Functional Roles of Dipeptidyl Peptidase-4
- 1010 Integrative Plasma Multi-Omics Profiling Reveals Novel Mechanisms of Pulmonary Arterial Hypertension
- 1011 Sex-specific Differences in Eicosanoid and Bioactive Lipid Metabolites and Their Associations With Hemodynamic Parameters in Pulmonary Arterial Hypertension
- 1012 Comparative Metabolomic and Molecular Profiles in Methamphetamine-associated and Idiopathic Pulmonary Arterial Hypertension
- 1013 Association of Canonical Pathways With Length of Survival in Pulmonary Arterial Hypertension
- 1014 Longitudinal Metabolomic and Proteomic Signatures Associated With Clinical Decline in Pulmonary Arterial Hypertension
- 1015 Metabolomic and Proteomic Changes Induced by Histamine Antagonist Treatment in a Negative Pulmonary Arterial Hypertension Trial
- 1016 Metabolomic Disturbances in Sleep Disordered Breathing in Patients With Pulmonary Arterial Hypertension
- 1017 Energy Failure in the Pulmonary Endothelium May Drive Pneumonia-induced Acute Lung Injury
- 1018 Pharmacological Inhibition of TRPV4 Rescues Right Ventricular Failure Secondary to Pulmonary Hypertension

- 1019 Targeting Lysyl Oxidase-Like 2 (LOXL2) Rescues Pulmonary Arterial Hypertension-Induced Right Ventricular Failure
- 1020 Proteomic Profiling Reveals Angiotensin Converting Enzyme 2 Levels Are Associated With Right Ventricular Function in the Atherosclerosis Risk in Communities Cohort
- 1021 The Role of Perivascular Adipose Tissue Derived Complement Factors in Regulating Inflammation and Vascular Remodeling of Large Pulmonary Arteries in Pulmonary Hypertension
- 1022 Proteome Profiling of Extra-cellular Vesicles in Pulmonary Arterial Hypertension
- 1023 Transcriptomic Profiling of SARS-CoV-2 Infected Lung Endothelial Cells
- 1024 Endostatin-Mediated Modulation of TGF-Beta Signaling and Cell Cycle Regulation in Pulmonary Hypertension: Insights From Transcriptomic and Pathway Analysis of Endothelial Cells

### BASIC • CLINICAL • TRANSLATIONAL

### POSTER DISCUSSION SESSION

## C107 THE NTM SHOW: SCIENCE, EPIDEMIOLOGY, AND MANAGEMENT

2:15 p.m. - 4:15 p.m.

Moscone Center

Room 203-204 (South Building, Level 2)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 101 Longitudinal Changes in St. George's Respiratory Questionnaire Scores Following Culture Conversion in Patients With Mycobacterium Avium Complex Lung Disease
- 102 Environmental Nontuberculous Mycobacteria in the Wake of the Lahaina, Maui Wildfire
- 103 Host Environment, Genetics, and Behaviors That Contribute to Nontuberculous Mycobacterial Pulmonary Disease in Hawai'i
- 104 Vanadium and Molybdenum and Hawai'i Nontuberculous Mycobacteria: Magnified Analyses at the Water Tap

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| <p>105 Prevalence and Geographical Distribution of Various Nontuberculous Mycobacterial (NTM) Species/Subspecies In India: Early Findings of Indian Council of Medical Research (ICMR), New Delhi Sponsored Multicentre Research Project Between 2021-2024</p> <p>106 The Puzzle Pieces of Right-sided Heart Failure: Unraveling Its Many Faces</p> <p>107 Lower Airway Dysbiosis Predict Disease Phenotype in NTM-Lung Disease</p> <p>108 Disparities in Nontuberculous Mycobacteria Mortality in the US, 1999-2020</p> <p>109 Antimicrobial Treatment of Mild Mycobacterium Avium Complex-pulmonary Disease Predicted to Increase Survival and Quality Adjusted Life Years: A Microsimulation Decision Analysis Model</p> <p>110 Statin Prescription Reduces Risk of Nontuberculous Mycobacteria Pulmonary Infection</p> <p>111 Urinary Molybdenum Is Associated With Pulmonary NTM Disease in a Bronchiectasis Patient Cohort</p> <p>112 The MAC2v3 Randomized Pragmatic Clinical Trial of Macrolide-based 2- Versus 3-drug Treatment for Mycobacterium Avium Complex Pulmonary Disease: Baseline Participant Characteristics</p> <p>113 Predictors of Exacerbation of Japanese Bronchiectasis and Nontuberculous Mycobacterial Pulmonary Disease: A Multicenter Prospective Study</p> <p>114 Real-world Experience of Prolonged Treatment for Patients With Treatment-refractory Nontuberculous Mycobacterial Pulmonary Disease</p> <p>115 Micro-computed Tomographic Analysis of Non-tuberculous Mycobacterial Lung Disease</p> <p>116 Factors for the Initial Regimen Modification in Mycobacterium Avium Complex Pulmonary Disease: A Single-center Retrospective Cohort Study</p> <p>117 Prevalence of Nausea and Vomiting and Anti-emetic Use in the Finding the Optimal Regimen for Mycobacteroides Abscessus Treatment (FORMaT) Trial</p> <p>118 Adverse Events Related to Study Drugs in Finding the Optimal Regimen for Mycobacteroides Abscessus Treatment (Format) Trial</p> | <p>119 Structured Patient Education to Reduce Environmental Risks for Nontuberculous Mycobacterium (NTM) Pulmonary Infections: A Five Year Prospective Study</p> <p>120 BACES Score as a Proxy of Health-Related Quality of Life and Associated Factors in Nontuberculous Mycobacterial Pulmonary Disease</p> <p>121 Clinical Characteristics and Mortality of Primary Nontuberculous Mycobacterial Bacteremia: A Retrospective Cohort Study</p> <p>122 Baseline Dyspnea Associated With Risk for Severe Features of Bronchiectasis Phenotype in the US Bronchiectasis and Nontuberculous Mycobacterium Research Registry</p> <p>123 Bedaquiline for the Treatment of Pulmonary Non-tuberculous Mycobacterial Infections: Retrospective Analysis From a Large Healthcare System</p> <p>124 Experiences in Treating Laboratory Confirmed Cases of Nontuberculous Mycobacterial Pulmonary Disease (NTM-PD) in a Tertiary Care Center in India</p> <p>125 Diagnostic Analysis of Pulmonary Mycobacterium Avium Complex Disease by Gastric Juice Culture</p> |
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- CLINICAL**
- POSTER DISCUSSION SESSION**
- C108 OPTIMIZING THE IMPACT OF PULMONARY REHABILITATION**

**2:15 p.m. - 4:15 p.m.** **Moscone Center**

Room 207-208 (South Building, Level 2)

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| Poster Viewing | 2:15-3:00 |
| Discussion     | 3:00-4:15 |

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| <p>201 Association of Pulmonary Rehabilitation Participation in Patients With Chronic Respiratory Disease and Healthcare Utilization</p> <p>202 Association Between Initiation of Pulmonary Rehabilitation, Health Care Utilization and Survival Among COPD Patients</p> <p>203 Association Between Initiation of Pulmonary Rehabilitation, Health Care Utilization and Survival Among Interstitial Lung Disease Patients</p> |  |
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| <p>204 Changes in Physical Activity in Persons With Chronic Obstructive Pulmonary Disease During Rehabilitation After Exacerbation - A Prospective Observational Study</p> <p>205 A Web-based Pedometer-mediated Intervention Can Maintain Physical Function Over 12 Months After Pulmonary Rehabilitation: A Pilot Study</p> <p>206 Pulmonary Tele-rehabilitation Versus Conventional Rehabilitation in Patients With Chronic Obstructive Pulmonary Disease: A Systematic Review and Meta-analysis of Randomized Controlled Trials</p> <p>207 Impact of Home-Based Pulmonary Rehabilitation in Fibrotic Interstitial Lung Disease</p> <p>208 Interest and Resources of Australian Physiotherapists and Exercise Physiologists in Providing Pulmonary Rehabilitation in Primary Care? A National Survey</p> <p>209 Balance Training in Patients With COPD: A Systematic Review and Meta-analysis</p> <p>210 Effects of Tailored Nutritional Counseling in Patients With Idiopathic Pulmonary Fibrosis: A Clinical Trial</p> <p>211 Effect of Pulmonary Rehabilitation Duration in Patients With Chronic Obstructive Pulmonary Disease: A Randomized Controlled Trial</p> <p>212 Duration of Pulmonary Rehabilitation in Chronic Respiratory Disease States: 2014-2019</p> <p>213 Treatable Traits and Self-management of Chronic Obstructive Pulmonary Disease: A Systematic Review and Meta-analysis</p> <p>214 Analysis of Demographic, Functional, and Respiratory Characteristics of Subjects With Obesity Awaiting Bariatric Surgery: Can Prehabilitation Improve Capacity, and Could Acute Intermittent Hypoxia Further Enhance Outcomes?</p> <p>215 Implementation of a Subspecialty Clinic to Diagnose and Treat Skeletal Muscle Loss Due to COPD</p> <p>216 Maximal Inspiratory Pressure and Its Relationship With Clinical Parameters in Pulmonary Hypertension</p> <p>217 Impact of High-intensity Interval Training on Left Ventricular Function in Deployment-related Respiratory Disease: A Pilot Study</p> | <p>218 The Impact of Gut Veillonella on Skeletal Muscle Mass in Patients With COPD</p> <p>219 Ambulatory Oxygen Compared to Air in Fibrotic Interstitial Lung Disease: Patient Experiences</p> <p>220 Evaluation of In-line Reservoir for Oxygen Supplementation Equipment (iROSE), A Novel Oxygen Supplementation Device</p> <p>221 The Experience of Automated Home Oxygen Therapy for Patients With COPD - A Qualitative Study</p> <p>222 Respiratory Therapist as a COPD/Asthma Care Manager to Improve Outcomes in the Primary Care Setting</p> <p>223 Financial Incentives to Increase Engagement in Pulmonary Rehabilitation: Co-designing the Model Using Qualitative Methodology</p> <p>224 Impact of Behavior Change Intervention on Physical Activity (PA) Level and Physical Capacity (PC) After Exacerbation of COPD</p> |
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- BASIC • CLINICAL • TRANSLATIONAL**
- POSTER DISCUSSION SESSION**
- C109 IMMUNE AND CELLULAR MECHANISMS DRIVING AIRWAY DISEASES: FROM INFLAMMATION TO METABOLISM**

**2:15 p.m. - 4:15 p.m.** **Moscone Center**

Room 213-214 (South Building, Level 2)

|                |           |
|----------------|-----------|
| Poster Viewing | 2:15-3:00 |
| Discussion     | 3:00-4:15 |

301 Image-guided Bronchoscopy in Severe Asthma Reveals Inflammatory and Epithelial Remodeling in Post-exacerbation Ventilation Defects

302 Dysregulation of Pulmonary Immune Cells in Trisomy 21

303 Mitochondrial Dysfunction Contributes to Altered Basal Cell Function in Chronic Obstructive Pulmonary Disease

304 TMEM100 Preserves Lung Growth and Prevents Pulmonary Hypertension in Chorioamnionitis-Induced Bronchopulmonary Dysplasia



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| <p>305 <b>Bik Increases Neuroendocrine Cell Numbers in Airway Epithelia to Affect Emphysema</b></p> <p>306 <b>Alpha-1 Antitrypsin (AAT) Polymers Induce Mitochondrial Dysfunction and Altered Metabolism in AAT Deficient Lungs and Precision-Cut Lung Slices (PCLS)</b></p> <p>307 <b>Effectiveness of Mepolizumab in Patients Switching From Prior Biologic Treatments for Severe Asthma: A Post-hoc Analysis of NUCALA Effectiveness Study (NEST)</b></p> <p>308 <b>Mitochondrial Adenine Nucleotide Translocase 2 (ANT2) Increases Hemoglobin Expression and Iron Overload in Lung Epithelial Cells, Enhancing Cell Susceptibility to Ferroptosis</b></p> <p>309 <b>Noxa Enhances the Activity and Expression of Immunoproteasome to Block the Development of COPD</b></p> <p>310 <b>Interleukin 7 Signaling as an Indicator of Pulmonary Vascular Disease in Preterm Infants Identified by Proteomic Screening and MRI Analysis</b></p> <p>311 <b>Relationships Between Neutrophil Function, Cilia Function, and Microbiome Composition in Bronchiectasis: Interim Results From the Brilliant Study</b></p> <p>312 <b>Neonatal Oxidative Stress Drives Premature Alveolar Inflamm-aging Through Macrophage-Derived IL-6-Trans and STAT3 Signaling</b></p> <p>313 <b>Lysosome Activity Is Required to Regulate Cytoplasmic Mucin Granule Content in Airway Secretory Cells</b></p> <p>314 <b>Progenitor Cell Dysfunction and Senescence in COPD - A Potential Novel Culprit: The WNT Pathway Antagonist WIF1</b></p> <p>315 <b>Eliminating Senescent Cells, A New Approach to Promote Repair of the Emphysematous Lung</b></p> <p>316 <b>The IL-17a-producing Resident Gamma-delta T Cells Mediate Neonatal Lung Inflammation and Injury Induced by Chronic Exposure to Bacterial Endotoxin in a Mouse Model of Bronchopulmonary Dysplasia</b></p> <p>317 <b>Dual Silencing of Interleukin 33 (IL33) and Thymic Stromal Lymphopoietin Protein (TSLP) With Lung-targeted RNA Interference Molecules Suppresses Pulmonary Allergic Inflammation</b></p> | <p>318 <b>Claudin-18 Restricts Goblet Differentiation During Airway Injury Response</b></p> <p>319 <b>The Adaptive Program Initiated by Nuclear Localization of the MtDNA-encoded NcRNA, Jumpstart, Is Lost in Alveolar Epithelial Type 2 Cells of COPD Patients</b></p> <p>320 <b>Ciliary Dynamics in Primary Ciliary Dyskinesia: Physical Characterization of the RSPH4A Founder Mutation</b></p> <p>321 <b>Mitochondrial Oxidative Dysfunction During Prolonged Intermittent Hypoxia of COPD Is Mediated Via GFAT-dependent O-GlcNAcylation of Proteins</b></p> <p>322 <b>Pirfenidone and Its Derivative CXN-8: Novel Dual Bronchodilators and Anti-neutrophilic Airway Inflammation Agents</b></p> <p>323 <b>Progression of Lung Disease in a Primary Ciliary Dyskinesia Porcine Model</b></p> <p>324 <b>Interlukin-36 Signaling Participates in Cigarette Smoke-induced Chronic Obstructive Pulmonary Disease and Skeletal Muscle Dysfunction</b></p> <p>325 <b>PABPC4: A Novel COPD Susceptibility Gene Regulating Mitochondrial Function and Emphysema Pathogenesis Targeted by a First-in-Class Therapeutic Agent</b></p> |
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- BASIC • CLINICAL • TRANSLATIONAL**
- POSTER DISCUSSION SESSION**
- C110 BEYOND THE GOLDEN GATE: INNOVATIVE BIOMARKERS IN LUNG CANCER DIAGNOSIS, PROGNOSIS, AND TREATMENT**

**2:15 p.m. - 4:15 p.m.** **Moscone Center**

Room 2002/2004 (West Building, Level 2)

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|----------------|-----------|
| Poster Viewing | 2:15-3:00 |
| Discussion     | 3:00-4:15 |

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| <p>601 <b>CT-derived Body Composition as a Potential Pan-cancer Imaging Biomarker</b></p> <p>602 <b>Identification of Body Composition Features Associated With Lung Cancer Incidence in Never-smokers</b></p> |  |
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| 603 | Characteristics and Metabolomics of Gut and Lung Microbiota in Patients With Lung Masses and Their Relationship With Clinical Features                                       | 616 | Identifying Survival Predictors in Nonmetastatic Large Cell Neuroendocrine Carcinoma of the Lung: A Nationwide Analysis                                    |
| 604 | Genetic Profile of Lung Adenocarcinoma: A University Oncologic Center-based Survey in Rio De Janeiro   | 617 | Survival Outcomes in Clinico-Radiologic Diagnosis of Lung Cancer: A Retrospective Cohort Study Revealing Unexpected Mortality Patterns in Younger Patients |
| 605 | Use of Comprehensive Genomic Profiling Tests to Predict Immune Checkpoint Inhibitor Efficacy in Non-small Cell Lung Cancer   | 618 | Comorbid Burden of Disease but Not Smoking Status Is Associated With Recurrence in Veterans With Early Stage Lung Cancer                                   |
| 606 | Pleural Fluid Extracellular Vesicle MicroRNA as a Prognostic Indicator in Malignant Pleural Effusion   | 619 | Emergency Department Involvement in Lung Cancer Diagnosis Among Patients With COPD: Prevalence, Healthcare Utilization, and Associations                   |
| 607 | Pleural Fluid Extracellular microRNA-141-3p Can Differentiate Cytology-negative Malignant From Non-malignant Pleural Effusion  |     |  |
| 608 | Similarities and Differences in Veterans Affairs vs. Non-VA Patients Enrolled in a Clinical Utility Study for a Nasal Genomic Classifier for Patients With Pulmonary Nodules |     |  |
| 609 | The Predictive Factors for Major Pathological Response in Non-small-cell Lung Cancer Patients With Neoadjuvant Immunochemotherapy  |     |  |
| 610 | Differing Bronchoalveolar Lavage Cytokine Profiles in Patients With and Without Checkpoint Inhibitor Pneumonitis   |     |  |
| 611 | Evaluating Risk Factors for Trastuzumab-Deruxtecan Pneumonitis in Patients With Metastatic Breast Cancer   |     |  |
| 612 | Association Between Emotional Distress and Immunotherapy Response in Advanced Non-small-cell Lung Cancer (STRESS-LUNG-1): Updated on Overall Survival                        |     |  |
| 613 | Machine Learning-Assisted Metabolomics for Developing Predictive Models of 1-Year Overall Survival in Lung Cancer Patients With Malignant Pleural Effusion                   |     |  |
| 614 | Lung Function Status as a Prognostic Indicator in Adenocarcinoma Survival: A Comparative Analysis of COPD, PRISm, and Normal Lung Function                                   |     |  |
| 615 | Longitudinal Measurements of Serum CYFRA 21 1 Across the Continuum of Lung Cancer Care Reveal Disease-based Trajectories Based Upon Etiology and Treatment                   |     |  |



## MEET THE EXPERT SEMINARS

Pre-registration and additional fees required. Attendance is limited.

\$100 Member/Non-Members

\$70 LMIC Member/LMIC Non-Members.

10:15 a.m. - 11:15 a.m.

**MTE34 FROM FEATHERS TO ANTIFIBROTICS: EXPOSURES, TREATMENT, AND PROGNOSIS IN HYPERSENSITIVITY PNEUMONITIS**  
Room 209-210 (South Building, Level 2)

**MTE35 HOW TO IMPLEMENT A COMPREHENSIVE LUNG NODULE PROGRAM**  
Room 22, Hall E (North Building, Exhibition Level)

**MTE36 MYOSITIS-ASSOCIATED ILD: UPDATES ON DIAGNOSTIC AND TREATMENT CHALLENGES**  
Room 20, Hall E (North Building, Exhibition Level)

## CLINICAL

### YEAR IN REVIEW

#### D1 CLINICAL YEAR IN REVIEW

8:15 a.m. - 9:45 a.m.

Moscone Center

Esplanade Ballroom (Upper Mezzanine, South Building)

#### Target Audience

Pulmonary, critical care, and sleep providers. The program will discuss topics of interest to a broad group of providers. The

program is relevant to not only clinicians, but also to researchers and administrators.

#### Objectives

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

- apply new clinical research knowledge to clinical practice
- learn new findings about key conditions in pulmonary, critical care and sleep
- have new strategies to manage the care of common conditions in pulmonary, critical care, and sleep

This program has been developed to include core topics in pulmonary, critical care, and sleep medicine. The goal of the session is to discuss critical state-of-the-art topics and evolving concepts. The learner will be exposed to a carefully curated review of the current literature by emerging leaders in the field. After the course, participants will better understand novel concepts in each specific domain that we hope will translate to improved patient care.

8:15 COPD

8:37 Pulmonary Vascular Disease

9:00 Pulmonary Rehab

9:22 Lung Cancer

*This session and the International Conference are supported by an independent medical educational grant from Merck & Co., Inc.*

*All CME sessions have been planned and implemented in accordance with the Accreditation Criteria of the Accreditation Council for Continuing Medical Education (ACCME®) and are free of the control of ineligible companies (formerly commercial interests).*

## CLINICAL • TRANSLATIONAL

### CRITICAL CARE TRACK

#### D2 WHEN ONE SIZE DOESN'T FIT ALL: EMBRACING HETEROGENEITY IN SEPSIS MANAGEMENT

Assembly on Critical Care

8:15 a.m. - 9:45 a.m.

Moscone Center

Room 3020 (West Building, Level 3)

#### Target Audience

Clinicians who take care of patients with sepsis, researchers studying heterogeneity of critical illness

#### Objectives

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

- describe new findings about sources of heterogeneity in sepsis, including immune response, pathogen, trajectory, and response to treatment
- understand how existing practice variation in sepsis treatment can make it challenging to study heterogeneity but also reflects that clinicians may already be considering heterogeneity in their practice
- evaluate the strengths and limitations of current approaches to incorporating heterogeneity in clinical trials and understand how findings from these trials may be applied in practice to improve sepsis care

Sepsis is a heterogeneous syndrome. Over the past few years, researchers have identified important inflammatory subphenotypes based on clinical characteristics and biomarkers. However, there are many unique sources of heterogeneity in sepsis, from the inciting pathogen to a patient's trajectory and the treatment they receive. Understanding factors that drive heterogeneity may help us better target treatments. This session will highlight cutting-edge research from early career investigators studying sources of heterogeneity in sepsis and will explore how ongoing trials are accounting for heterogeneity, focusing on how clinicians can interpret and apply novel findings to embrace heterogeneity in their management of sepsis.

**8:15 A Patient's Perspective**

**8:20 Back to Basics: Why the Host's Biology Matters**

**8:33 Catching the Bug: Why the Pathogen Matters**

**8:46 A Moving Target: Why A Patient's Trajectory Matters**

**8:59 Heterogeneity on Heterogeneity: Why Practice Variation Matters**

**9:12 Power of Prediction: Targeting Treatment by Predicting a Patient's Response**

**9:25 Fine-Tuning: Targeting Treatment Through Precision Medicine**

**9:38 Looking Forward: How Will This Change My Practice?**

## CLINICAL • TRANSLATIONAL

### CLINICAL TOPICS IN PULMONARY MEDICINE

#### **D3 CHICKEN OR EGG: DISENTANGLING THE ROLE OF COMORBIDITIES IN FIBROTIC INTERSTITIAL LUNG DISEASES**

**Assemblies on Clinical Problems, Behavioral Science and Health Services Research, Sleep and Respiratory Neurobiology**

**8:15 a.m. - 9:45 a.m.**

**Moscone Center**

**Room 2010/2012 (West Building, Level 2)**

#### **Target Audience**

All involved in pulmonary patient care (physicians, nurses, respiratory therapists, other allied health professionals) and researchers in the field of interstitial lung disease and sleep medicine.

#### **Objectives**

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

- improve understanding of the prognostic implications of concomitant comorbidities in fibrotic interstitial lung diseases to improve the delivery of patient care
- learn novel research methods to help elucidate the causal role of comorbidities in the development and progression of fibrotic interstitial lung diseases
- learn current knowledge gaps that need to be addressed to implement a clinical trial that tests the effect of managing comorbidities in fibrotic interstitial lung diseases

Co-morbidities such as cardiovascular disease, diabetes, and acid reflux are highly prevalent in patients with idiopathic pulmonary fibrosis (IPF) and other fibrotic interstitial lung diseases (ILDs) compared with the general population. There has been an ongoing interest among clinicians and researchers in whether these co-morbidities have a causal role in the development and progression of fibrotic ILDs. We propose a symposium that reviews the current knowledge and research regarding co-morbidities in fibrotic ILD and specifically discusses whether it is plausible that management of these illnesses may improve clinical outcomes and warrant prospective, intervention trials.

**8:15 Introduction**

**8:25 Cardiovascular Disease and Metabolic Factors in Fibrotic ILD: Targetable Traits for a Clinical Trial?**

**8:40 Sleep-Disordered Breathing and ILD**



- 8:55Can't Seem To Quit You: What We Know (and Don't Know) About Acid Reflux's Role in ILDD4
- 9:10Methods to Draw Stronger Causal Inference on Comorbidities in ILDD4

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CLINICAL • TRANSLATIONAL

CLINICAL TOPICS IN PULMONARY MEDICINE

D4

AI-DRIVEN INNOVATIONS IN PULMONARY AND CRITICAL CARE MEDICINE: A LOOK AHEAD

Assemblies on Clinical Problems, Critical Care; Programing Committee chairs of the Critical Care Assembly are supportive to discuss this proposal as joint symposium

8:15 a.m. - 9:45 a.m.

Moscone Center

Room 211-212 (South Building, Level 2)

Target Audience

Clinicians, researchers, and fellows

- Objectives
- At the conclusion of this session, the participant will be able to:
- describe applications of AI in clinical and research environments
  - comprehend the benefits and risks of AI for healthcare institutions, providers, and patients
  - acknowledge the importance of involvement in AI development to prevent biases and address concerns effectively

The integration of AI in healthcare is expanding rapidly, particularly in lung imaging diagnostics, clinical decision-making, and scientific research. Clinicians and researchers are increasingly utilizing data-driven, automated tools. However, concerns remain regarding the effects and risks these AI-enabled tools pose to the quality of care, health disparities, and patient safety. This session will explore AI applications in lung disease diagnosis and treatment, delve into the development and implementation processes of AI technologies, and discuss potential biases and harms. The goal is to offer new insights into the role of AI in science and healthcare.

- 8:15AI in Health Care: Opportunities and Challenges
- 8:33Imaging Deep Learning: The Case of COPD
- 8:51AI in Medicine: Navigating Biases and Health Disparities
- 9:09Next-Generation Diagnostic Support: Large Language Models in the Care of Critically Ill Patients
- 9:27Personalizing the Treatment of Critical Care Patients: Moving the Frontiers with Augmented Intelligence

BASIC • BEHAVIORAL • CLINICAL

SCIENTIFIC SYMPOSIUM

D5

RACE & GENETIC ANCESTRY: RELATIONSHIPS BETWEEN A SOCIAL CONSTRUCT AND BIOLOGY

Assembly on Behavioral Science and Health Services Research

8:15 a.m. - 9:45 a.m.

Moscone Center

Room 3001/3003 (West Building, Level 3)

Target Audience

Health professionals developing health equity interventions  
Scientists who wish to understand connections between genetic ancestry, race, and biology. Educators who wish to understand relationships between genetic ancestry, racism and outcomes.

- Objectives
- At the conclusion of this session, the participant will be able to:
- describe the multiple ways in which racism impacts biology, such as epigenetic changes in relation to stress and increased disease progression due to environmental exposure
  - describe applications of genetic ancestry in identification of genetic drivers of disease and contrast this to the inappropriate use of genetic ancestry as a tool to identify “biologic” differences between races
  - describe the most up to date guidelines on reporting of race in biomedical research, as well as use of race in genetic research

Discuss the complex ways in which the social construct of race interacts with biology. The session will discuss the multiple levels of racism and the role of race as a social construct. There will then be a description of the biology of genetic ancestry and how this is and is not related to “race.” Finally, we will discuss how

race and genetic ancestry can be used effectively in research to address disparities. This session will focus primarily on anti-Black racism in North America to illustrate these concepts.

- 8:15 The Social Construct of Race**
- 8:35 Reporting Race and Ethnicity in 2025**
- 8:50 Race and Biology -from Scientific Racism to Health Equity**
- 9:05 Genetic Ancestry as a Marker of Race-Specific Variation and Historical Exposures**
- 9:20 Panel Discussion -1**
- 9:26 Panel Discussion -2**
- 9:32 Panel Discussion -3**
- 9:38 Panel Discussion -4**
- 9:44 Panel Discussion -5**

### BASIC • CLINICAL • TRANSLATIONAL

### SCIENTIFIC SYMPOSIUM

## D6 PREDICTING STRUCTURE FUNCTION RELATIONSHIPS IN IPF

Assemblies on Respiratory Structure and Function, Pulmonary Circulation, Respiratory Cell and Molecular Biology

**8:15 a.m. - 9:45 a.m.**

**Moscone Center**

Room 2001/2003 (West Building, Level 2)

### Target Audience

Scientists and physician scientists interested in understanding the relationship between structure and function during IPF disease progression. Such knowledge will inform diagnosis, mechanisms, and treatments.

### Objectives

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

- identify opportunities for novel investigation into understudied aspects of IPF (patho)physiological mechanisms and mechanobiology
- define new strategies to manage patient care
- learn how advances in structural imaging, spatial omics, vascular remodeling, lung mechanics, and mechanobiology are revealing new mechanisms of IPF and novel therapeutic targets

Advances in molecular, cellular, tissue, whole-body measurements, as well as immunological, vascular and mechanobiological aspects, have evoked new opportunities for structure function studies. For example, measurements of lung mechanics, tissue structure, and/or cellular mechanotransduction, together with mathematical models, have helped to decode both causes and effects of airway remodeling, parenchymal stiffening, and extracellular matrix remodeling. Talks from leading experts in the field will reveal pertinent advances, with the goal to improve mechanistic understanding, clinical diagnosis, and eventually, to develop better treatments.

- 8:15 A Patient's Perspective**
- 8:20 The State of the Art in IPF Research: From Bench to Bedside and Back to Bench**
- 8:34 Drug Discovery and Development in IPF: Challenges and Opportunities**
- 8:48 The Importance of Patient-Derived 3D Human Tissue Based Models in IPF Modeling and Drug Discovery**
- 9:02 PRO-C3 Assay, a Fibrogenesis Marker of Fibroblast Activity to Understand Structure-Function Changes in Pre-Clinical and Clinical Trials of IPF and ILD**
- 9:16 Multifactorial Biomarker Integration to Expand Preclinical Drug Research Against Fibrosis**
- 9:30 Emergent Structure-Function Relations Deduced from Experimental Measurements in Fibrotic Human Precision Cut Lung Slices**

### CLINICAL

### SCIENTIFIC SYMPOSIUM

## D7 TECHNOLOGICAL ADVANCEMENTS IN PEDIATRIC PULMONOLOGY: REMOTE DATA AND DECISION SUPPORT

Assembly on Pediatrics

**8:15 a.m. - 9:45 a.m.**

**Moscone Center**

Room 303 (South Building, Level 3)

### Target Audience

Clinicians and researchers in lung health, including pediatric and adult pulmonologists, critical care physicians, and allied health professionals in lung health.

### Objectives

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

- describe the role for remote technologies and clinical decision support systems across different disciplines in respiratory health
- understand the benefits and challenges of these technologies based on current evidence
- identify ways to decrease biases in respiratory care using these technologies

The use of remote monitoring, mobile health, and clinical decision support systems has increased drastically in respiratory medicine over the past 5 years. In this interdisciplinary symposium, experts from pediatric pulmonology, otolaryngology, and critical care will review evidence on the use of clinical decision support systems in the intensive care, inpatient, and outpatient settings and to reduce systemic bias in respiratory health such as in patients with asthma, sleep-disordered breathing, and technology dependence. Additionally, they will discuss the role of mobile health and remote monitoring in asthma self-management, machine learning to predict outcomes in sleep-disordered breathing, and technologies to evaluate the impact of changing climates on respiratory health.

**9:25 Introduction**

**8:15 Implementation of Evidence-Based Digital Care Pathways in Electronic Medical Record Systems to Guide Practice**

**8:29 Harnessing Clinical Decision Support Systems to Reduce Bias and Inequity in Respiratory Health Care**

**8:43 Predictive Deep Learning Algorithms in Pediatric Sleep Disordered Breathing**

**8:57 Using Mobile Health to Improve Education and Asthma Self-Management**

**9:11 Digital Tools and Clinical Decision Support Systems in the Intensive Care Setting**

**9:30 Q&A and Panel Discussion**

## CLINICAL • TRANSLATIONAL

### SCIENTIFIC SYMPOSIUM

## **D8 25 YEARS OF SEVERE ASTHMA RESEARCH PROGRAM: DISCOVERIES AND BEYOND**

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

**8:15 a.m. - 9:45 a.m.**

**Moscone Center**

**Room 2009/2011 (West Building, Level 2)**

### **Target Audience**

Clinicians (physicians, nurses, fellows, residents, pharmacists), researchers, administrators, regulators and policymakers: anyone involved in delivery of care and the science of patients with asthma

### **Objectives**

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

- learn how the Severe Asthma Research Program evolved related to phenotypes, exacerbations, imaging and pathobiology in SARP and explore the impact of asthma biologics and the COVID pandemic on severe asthma endotypes
- better understand the current status of knowledge in the longitudinal clinical course and biomechanics of severe asthma
- improve understanding of new findings and remaining research gaps in severe asthma research. At the conclusion of this session, participants will be able to identify research gaps and begin to develop methods/research questions to address those gaps

The Severe Asthma Research Program (SARP) is a 25-year observational study investigating biological mechanisms in severe asthma. The program is the longest running research program involving patients with severe asthma. SARP has comprehensively characterized severe asthma patients and identified severe asthma clinical and molecular phenotypes and uncovered novel pathophysiobiologic mechanisms. This symposium will review the prior and new discoveries from SARP including phenotypes, exacerbations, biomarkers and imaging and explore the impact of clinical practice changes and the COVID pandemic. The session will enhance understanding of the evolution of severe asthma research and identify future research needs.

**8:15 Introduction and Overview of SARP**

**8:20 A Patient's Perspective**

- 8:25 **Changes in the Clinical Characteristics of Severe Asthma in SARP**
- 8:40 **Asthma Exacerbations and the Effect of the COVID Pandemic**
- 8:55 **New Imaging Biomarkers in Severe Asthma**
- 9:10 **The Metabolic Syndrome and Systemic Aspects of Severe Asthma**
- 9:25 **The Way Forward in Severe Asthma**
- 9:40 **Conclusion and Next Steps**

### BASIC • TRANSLATIONAL

### SCIENTIFIC SYMPOSIUM

## D9 SHARED MECHANISTIC INSIGHTS IN INTERSTITIAL LUNG DISEASE AND PULMONARY HYPERTENSION: THE ENDOTHELIAL CONNECTION

**Assemblies on Pulmonary Circulation, Respiratory Cell and Molecular Biology**

8:15 a.m. - 9:45 a.m.

**Moscone Center**

Room 3000/3002/3004 (West Building, Level 3)

### Target Audience

Basic and Translational Scientists Studying Endothelial Biology and PH and ILD.

### Objectives

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

- describe new findings in research on the links between vascular dysfunction and pulmonary fibrosis
- learn about new therapeutic strategies that might be effective for both PH and ILD
- learn about novel models to study endothelial contributions to PH and ILD

The role of the vasculature in the development of pulmonary fibrosis has been underappreciated and understudied. However, recently there have been several new papers and several excellent review papers in this area. In this symposium, we will discuss novel data linking vascular dysfunction to PH and ILD. We will emphasize group 3 PH patients with co-existing PH and ILD. Usually considered separately, with sessions in different assemblies, this is a much-needed session to facilitate discussion about links between different disease phenotypes in vessels of different sizes all within the lung. We will highlight the

interplay between the vascular compartment with mesenchymal cells and discuss novel model systems to study these endothelial cells in the context of PH and ILD.

- 8:15 **Introduction to Endothelial Contributions to ILD and PH**
- 8:21 **Microvascular Progenitor Dysfunction in Chronic Lung Disease**
- 8:33 **The Role of Aging Vasculature in Fibrosis**
- 8:45 **Lung Extracellular Matrix in Vascular Remodeling in Chronic Lung Disease**
- 8:57 **Injury-Induced Endothelial Cell States in Lung Disease**
- 9:09 **The Role of mTOR in Pulmonary Vascular Remodeling in Lymphangioleiomyomatosis**
- 9:21 **Modeling Chronic Lung Disease with Vascularized Organoids**
- 9:33 **iPS Derived Endothelial Cells for Modeling Chronic Lung Diseases**

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### BASIC • CLINICAL • TRANSLATIONAL

### SCIENTIFIC SYMPOSIUM

## D10 INSIGHTS INTO ACUTE LUNG INJURY REVEALED THROUGH LUNG TRANSPLANTATION

**Assemblies on Respiratory Cell and Molecular Biology, Allergy, Immunology and Inflammation, Critical Care**

8:15 a.m. - 9:45 a.m.

**Moscone Center**

Room 304 (South Building, Level 3)

### Target Audience

Researchers, Individuals with interest in acute lung injury, critical care providers, lung transplantation providers

### Objectives

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

- improve understanding of primary graft dysfunction as a form of acute lung injury.



- understand key mechanisms that drive both primary graft dysfunction and acute respiratory distress syndrome pathogenesis.
- integrate findings from the study of lung transplant primary graft dysfunction with our understanding of acute respiratory distress syndrome

Up to 1/3 of lung transplant recipients will develop primary graft dysfunction (PGD), a severe form of acute lung injury that manifests following ischemia-reperfusion injury. PGD shares basic clinical definitions with Acute Respiratory Distress Syndrome (ARDS) and has no known medical therapies. This session will explore recent advances in our understanding of acute lung injury pathogenesis through the lens of lung transplantation. Emphasis will be placed on multi-omic approaches and insights that have critical implications for novel treatments. Talks will focus on key findings in PGD that are applicable to ARDS.

- 8:15 Diagnosing PGD in the lung transplant patient in the ICU**
- 8:25 ICU Management of PGD in the Lung Transplant Patient**
- 8:35 PGD Insights of Genomics and Transcriptomics Gained from the Donor and Recipient**
- 8:47 Immune Mediated Repair in ARDS Relevant to PGD**
- 8:59 Natural Killer Cells, Neutrophils and Their Crosstalk in Pulmonary Ischemia-reperfusion Injury**
- 9:11 Cell-free Hemoglobin in Acute Lung Injury**
- 9:23 Local Complement Activity in Primary Graft Dysfunction**
- 9:35 Panel Discussion**

**BASIC • CLINICAL • TRANSLATIONAL**

**SCIENTIFIC SYMPOSIUM**

## **D11 LONG-TERM CONSEQUENCES OF RESPIRATORY VIRAL INFECTIONS AND CHRONIC PULMONARY DISEASES: LONG-COVID, ASTHMA, ILD AND LUNG TRANSPLANT**

Assembly on Pulmonary Infections and Tuberculosis; ATS Vaccine and Immunization Initiative Committee

**8:15 a.m. - 9:45 a.m.**

**Moscone Center**

Room 205-206 (South Building, Level 2)

### **Target Audience**

Adult and pediatric clinicians and investigators interested in respiratory viruses in the etiology of chronic lung diseases, mechanisms, data supporting preventive efforts and identification of key unanswered questions.

### **Objectives**

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

- review evidence for the role of respiratory viruses in chronic respiratory and health outcomes
- describe long term benefits of routine vaccination and infection prevention
- outline the gaps in our current understanding of long-term health outcomes and promoting lung health following respiratory viral infection

The goal of this session is to describe the long-term consequences of SARS-CoV-2, RSV and other respiratory viral respiratory infections and to review the literature and gaps in our knowledge on the impact of infection prevention on these outcomes. Experts from multiple disciplines, including pediatrics, asthma, critical care, post-ICU care, vaccine research, and public health will be involved as moderators and speakers. The talks will focus on the long-term sequelae of COVID, RSV and the role of respiratory viral infections in pulmonary fibrosis and lung transplant allograft function.

**8:15 Impact of COVID on Long Term Pulmonary and Health Outcomes**

**8:40 Long-term Sequelae of Respiratory Virus Infection in Transplant and Chronic Lung Disease**

**9:05 Could RSV Vaccines Prevent Asthma? Current Evidence and Research Agenda**

**9:30 Discussion / Q & A**

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**BASIC • TRANSLATIONAL****MINI SYMPOSIUM****D12 GUARDIAN OF THE AIRWAYS:  
UNVEILING THE ROLE OF EPITHELIUM  
IN IMMUNE REGULATION**

8:15 a.m. - 10:15 a.m. Moscone Center

Room 3014/3016/3018 (West Building, Level 3)

- 8:15 Ablation of Bronchiolar Epithelial Cell Clock Gene, Rev-erb $\alpha$ , Disrupts Circadian Rhythmicity in Airway Hyperresponsiveness by Introducing Transcriptomic Changes
- 8:27 Human Airway B Cell Developmental Dynamics Are Regulated by Respiratory Viruses in Early Life Via a JAK/STAT Signaling Mechanism
- 8:39 CH25H Promotes Allergen-elicited Airway Inflammation and Airway Epithelial Remodeling
- 8:51 PIM1 Phosphorylates HDAC3 for IL33 Deacetylation to Exacerbate Allergic Airway Inflammation
- 9:03 Augmentation of Bronchial Epithelial Cells Glycolysis Promotes Asthma Through Histone Lactylation
- 9:15 Pulmonary Regional Differences Highlight Profibrotic Airway Epithelial Cell Signaling in Obese Asthma
- 9:27 Medium Chain Triglycerides as Nutritional Regulators of Airway Inflammation via Arginase-2 Metabolism
- 9:39 Cystic Fibrosis as a Modulable Model for CFTR-related Immune Dysregulation
- 9:51 Ivacaftor Restrains Th2 Cell Development Through a CFTR/IL-4/GATA3 Axis and Reduces Alternaria-induced Allergic Airway Inflammation
- 10:03 Specific Potentiation of the TMEM16A Chloride Channel Can Rescue Impaired Mucociliary Transport in Human Airway Models of Cystic Fibrosis

**BEHAVIORAL • CLINICAL****MINI SYMPOSIUM****D13 CURRENT RESEARCH IN CRITICAL  
AND ACUTE CARE**

8:15 a.m. - 10:15 a.m. Moscone Center

Room 25, Hall E (North Building, Exhibition Level)

- 8:15 Neighborhood Health Measured by the Healthy Places Index (HPI), but Not by the Area Deprivation Index (ADI), Is Associated With Mortality for Critically Ill Sepsis Patients in the San Francisco Bay Area
- 8:27 Access as a Driver of Disparities in Patient Selection for Extracorporeal Membrane Oxygenation
- 8:39 Human-centered Design of an Intervention to Support Time-limited Trials for Patients With Critical Illness: The Intensive Care Unit (ICU) Care Plan Tool
- 8:51 Intensive Care Unit Implementation Climate Is Associated With Use of Lung Protective Ventilation
- 9:03 Effects of Healthcare System Responses to Abortion Bans on US Pulmonary and Critical Care Physicians
- 9:15 Patient and Family Caregiver Perspectives on the Use of Time-limited Trials for Critically Ill Older Adults
- 9:27 Association of Area Deprivation Index and Severity of Illness Among Veterans Presenting to the Emergency Department: A National Cohort Analysis
- 9:39 Characteristics and Prognosis of Patients Experiencing Recurrent ICU Admissions
- 9:51 More Than Wishful Thinking: Successful Implementation of the 3 Wishes Project (3WP) in Los Angeles Safety Net Hospitals (SNHs)
- 10:03 Improving Care Beyond the ICU - Implementation, Effectiveness, and Safety Outcomes Pre- vs. Post-implementation of a Phenobarbital Order Set for Alcohol Withdrawal Syndrome in All Hospital Locations

**CLINICAL • TRANSLATIONAL****MINI SYMPOSIUM****D14 LESSONS FROM CLINICAL STUDIES IN COPD**

8:15 a.m. - 10:15 a.m. Moscone Center

Room 24, Hall E (North Building, Exhibition Level)

- 8:15 Disease Burden in an At-risk Population With Early COPD: An Analysis of the MAP Cohort
- 8:27 Differences in Airway Epithelial Gene Expression in Resilient vs Non-resilient Smokers
- 8:39 Rural CAPTURE (COPD Assessment in Primary Care to Identify Undiagnosed Respiratory Disease and Exacerbation Risk) Study Participants Experience Greater Symptom Burden, But Similar COPD Prevalence
- 8:51 Impact of Social Determinants and Community Resilience on COPD Mortality in the US
- 9:03 The Mortality Risks of Patients With Airflow Limitation According to Fixed Ratio but Not the Lower Limit of Normal
- 9:15 Effect of Chronic Mucus Hypersecretion on Patients With COPD Achieving and Maintaining Disease Stability With Fluticasone Furoate/Umeclidinium/Vilanterol Versus Budesonide/Formoterol: A FULFIL Post Hoc Analysis
- 9:27 Comparing AI-detected Versus Visually Detected Airway Mucus Plugs in Predicting Mortality and Exacerbations in COPD
- 9:39 Mucus Plug and Lung Cancer Incidence in Patients With COPD
- 9:51 Pulmonary Impact of Sodium-glucose Cotransporter-2 Inhibitors in Patients With Chronic Obstructive Pulmonary Disease Receiving Single-inhaler Triple Therapy
- 10:03 Prompt Initiation of Budesonide/Glycopyrrolate/Formoterol Fumarate (BGF) After an Exacerbation Is Associated With Reduced Exacerbation and Cardiopulmonary Risk in Patients With COPD: The MITOS EROS+CP (US) Study

**BEHAVIORAL • CLINICAL****MINI SYMPOSIUM****D15 VOICES IN THE ICU: NAVIGATING COMMUNICATION, CONSENT, AND CARE AT LIFE'S EDGE**

8:15 a.m. - 10:15 a.m. Moscone Center

Room 3005/3007 (West Building, Level 3)

- 8:15 A Multicenter, Ethnographic Study of Current Practices, Barriers, and Strategies to Achieve Interprofessional Support for Families Facing Goals of Care Decisions in Intensive Care Units
- 8:27 A Multicenter Study Examining How Physicians Disclose Prognostic Information to Surrogate Decision Makers of Incapacitated, Critically Ill Patients
- 8:39 Characterizing the Process of Recruitment and Enrollment for ICU Research Studies: Evaluation of a Multicenter Ethnographic Study
- 8:51 Optimizing the Performance of the Surrogate Informed Consent Process for Critical Care Research
- 9:03 Moral Distress Related to Potentially Non-beneficial Life-sustaining Treatments Near the End-of-Life: The Role of Institutional Structures and Culture
- 9:15 Risk Factors for the Development of Long-term Psychological Distress in Surrogate Decision-makers of Critically Ill Patients
- 9:27 Streamlining Intensive Care Unit (ICU) Family Communication: Evaluation of Large Language Models for Generating Daily Written Patient Care Summaries
- 9:39 Clinician-Reported Approaches to Limiting Life-Prolonging Interventions: A Conceptual Framework Derived From a Multi-Institutional Qualitative Study
- 9:51 Patient and Family Engagement in Australian and New Zealand Adult Critical Care Trials
- 10:03 Black Surrogate Decision Makers' Perspectives on American Thoracic Society and Society of Critical Care Medicine Policy Statement on Shared Decision Making in Intensive Care Units

## CLINICAL • TRANSLATIONAL

## MINI SYMPOSIUM

**D16 INDOOR/OUTDOOR AIR POLLUTION:  
UNCOVERING DISPARITIES AND  
ADVANCING LUNG HEALTH**

8:15 a.m. - 10:15 a.m.

Moscone Center

Room 211-212 (South Building, Level 2)

- 8:15 Indoor Air Quality Changes From a Health-System Initiated Intervention to Remediate Homes of Children With Asthma
- 8:27 Association Between VGDF (Vapors, Gas, Dust, Fumes) and Poverty With Lung Function Disparities Through Epigenetic Programming and Age Acceleration
- 8:39 Triggering of Viral and Bacterial Respiratory Infection Hospitalizations by Traffic Pollution Exposure in a Rigorously Adjudicated Adult Cohort
- 8:51 Advanced Personal Particulate Matter 2.5 and Nitric Oxide Exposure Assessment for Patients With Asthma and Chronic Obstructive Pulmonary Disease in an Urban Air Pollution Hotspot in Stuttgart, Germany, Using Innovative Air Quality Sensors
- 9:03 Seasonal Variability and Health Impacts of PM<sub>2.5</sub> in the Gambia: Insights From a Low-Cost Sensor Network
- 9:15 Indoor Air Quality (IAQ) at Schools in a Large Multicenter Survey in Italy
- 9:27 Air Pollution Intervention Changes the Gut Microbiome and Virome of Adult Women in Uganda
- 9:39 Red Blood Cell Omega-3 Index Influences the Relationship Between Daily Home Fine and Ultrafine Particulate Matter Exposure and Symptoms in Children With Asthma
- 9:51 Household Air Pollution and Respiratory Outcomes Among Women Using Biomass Fuel For Cooking in India
- 10:03 Evaluating the Long-Term Cost-Effectiveness of a Government Rebate Program for Air Cleaners in Preventing Asthma in British Columbia, Canada

## BASIC • CLINICAL • TRANSLATIONAL

## MINI SYMPOSIUM

**D17 MITOCHONDRIAL AND EPITHELIAL  
DYNAMICS IN CHRONIC AND ACUTE  
LUNG DISEASE**

8:15 a.m. - 10:15 a.m.

Moscone Center

Room 2005/2007 (West Building, Level 2)

- 8:15 Featured Speaker: Pulmonary Fibrosis: Metabolism Matters
- 8:27 The Structure of the Pathogenic Polymer That Underlies  $\alpha_1$ -antitrypsin Deficiency
- 8:39 Increased Senescence in the B Cell and Multiciliated Epithelial Cells Leads to Airway Remodeling in COPD
- 8:51 A Genetic Variant of Sphingosine 1-Phosphate Receptor 3 Modulates Mitochondrial Network and Metabolism in Ventilator-Induced Lung Injury
- 9:03 Tfam Deficiency in Alveolar Epithelial Type 2 Cells Leads to Spontaneous Lung Fibrosis
- 9:15 Emergence of the Alveolar Epithelium: A Matter of Time and Tension
- 9:27 Mitochondrial Dysfunction and Impaired DNA Damage Repair Through PICT1 Dysregulation in Alveolar Type II Cells in Emphysema
- 9:39 Metformin Mitigates Emphysema Progression by Modulating Sphingomyelin Metabolism
- 9:51 Development of ARDS in Influenza A Virus-infected Mice Is ATEC Cell Mitochondria-dependent
- \*2025 Parker B. Francis Speaker*
- 10:03 Metabolomics and Transcriptomics Analysis Reveal a Regulatory Role for Glutamine Metabolism in Eosinophil Activation



**BASIC • CLINICAL • TRANSLATIONAL****MINI SYMPOSIUM****D18 CLEARING THE WAY: OPTIMIZING THERAPIES FOR MUCOCILIARY DISEASES**

8:15 a.m. - 10:15 a.m.

Moscone Center

Room 3006/3008 (West Building, Level 3)

- 8:15 RUNX1 Transcriptionally Program Ciliogenesis and Reinforces Epithelial Host Defense
- 8:27 Multicentric Magnetic Resonance Imaging of Pulmonary Abnormalities in Patients With Primary Ciliary Dyskinesia
- 8:39 Changes in Lung Function in Patients With Non-cystic Fibrosis Bronchiectasis Who Did or Did Not Have On-study Pulmonary Exacerbations: An Analysis of the ASPEN Trial
- 8:51 Not All That Is Mucinous Is Cystic Fibrosis: The Role of AGR2 Mutations in Lung Disease
- 9:03 Physiologic Regeneration: Airway Hillocks Restore Appropriate Mucociliary Transport After Injury
- 9:15 Elexacaftor-Tezacaftor-Ivacaftor Reduces Bronchial Widening and Thickening in Adolescents With Cystic Fibrosis
- 9:27 Changes in Low Attenuation Regions and Arterial and Venous Blood Volume Distribution in Response to CFTR Modulator Therapy in People With Cystic Fibrosis
- 9:39 Continued Lung Ventilation Improvement in People With Cystic Fibrosis Receiving Highly Effective Modulator Therapy
- 9:51 Exacerbation Rate and Lung Function in Adolescent Patients With Non-cystic Fibrosis Bronchiectasis: An Analysis of the ASPEN Trial

**BEHAVIORAL • CLINICAL • TRANSLATIONAL****MINI SYMPOSIUM****D19 IN THE SHALLOW: EXPLORING SLEEP RELATED HYPOVENTILATION DISORDERS**

8:15 a.m. - 10:15 a.m.

Moscone Center

Room 2018/2020 (West Building, Level 2)

- 8:15 Rapid Eye Movement Sleep-Suppressing Antidepressant Use Is Associated With Enhanced Survival in Amyotrophic Lateral Sclerosis
- 8:27 The Impact of Noninvasive Ventilation Compliance and Airway Clearance Therapy on Pulmonary Outcomes in Amyotrophic Lateral Sclerosis
- 8:39 Health Trajectories Around Non-Invasive Ventilation Initiation for Obesity Hypoventilation Syndrome
- 8:51 Effectiveness of Noninvasive Ventilation Adjusted Automatically in the Obesity Hypoventilation Syndrome
- 9:03 Rates of Diagnostic Evaluation for Causes of Hypercapnic Respiratory Failure in Utah
- 9:15 Traits of Obstructive Sleep Apnea in Patients With the Overlap Syndrome
- 9:27 Effect of Sustained Hyperoxia on Opioid-Associated Sleep Disordered Breathing During NREM Sleep
- 9:39 Co2, O2, and Key Indicators During Everyday Situations (COOKIES) Trial: Pilot Study in Children With Congenital Central Hypoventilation Syndrome (CCHS)
- 9:51 A Systematic Review on the Usage of Long-term Non-invasive Ventilation in Children With Central Nervous System Disorders
- 10:03 Reduced Sigh Breathing Frequency In Congenital Central Hypoventilation Syndrome: Identification Of A Potential Biomarker And Therapeutic Target

**BASIC • TRANSLATIONAL****POSTER DISCUSSION SESSION****D21 IMMUNOLOGICAL INSIGHTS IN LUNG INFLAMMATION AND REPAIR**

8:15 a.m. - 10:15 a.m.

Moscone Center

Room 2022/2024 (West Building, Level 2)

Poster Viewing

8:15-9:00

Discussion

9:00-10:15

- 801 Preclinical Characterization of IBI3002, an Anti-IL-4R $\alpha$  and Anti-TSLP Bispecific Antibody That Potently Dampens Inflammatory Response and Alleviates Asthma in Mice
- 802 Secreted Phospholipase A2 Group X Regulates Peripheral Sensitization to Allergen
- 803 Interleukin-33 Increase Contraction and Mast Cell Mediator Release in Isolated Human Small Airways
- 804 Multiple Subsets of T Helper 2 Lung-resident Memory Cells Are Established in a Mouse Model of Allergic Inflammation
- 805 Spatial Distribution of Treg Cell-dependent Gene Programs During the Recovery From Viral Pneumonia
- 806 IL1R1+ Adventitial Fibroblasts Trigger CXCL2+ Neutrophil Recruitment Leading to Severe Influenza-induced Lung Injury
- 807 Alveolar and Systemic Immune Mediator Levels Distinguish Rejection vs. Infection in Lung Transplant Recipients With Elevated Plasma Donor-Derived Cell Free DNA Levels
- 808 Validation of the Consensus Immune Dysregulation Framework in a Large Multi-cohort Prospective Study of COVID-19 Patients
- 809 Group B Streptococcus Hyaluronidase Promotes Lung Invasion and Early Onset Disease
- 810 Inactivation of iNKT Cells After the Inflammatory Phase Leads to Significant Inhibition of Fibroblast Activation and Fibrosis in a Model of Pulmonary Fibrosis
- 811 Altered Peripheral  $\gamma\delta$ T Cell Profiles With Increased IL-17A Secretion in Patients With Eosinophilic Granulomatosis With Polyangiitis

- 812 AI-guided Generation and Development of HXN-1011, A Highly Potent Anti-TSLP Biparatopic Antibody
- 813 Characterization of Tissue Resident Memory T Cells in the Human Lung Using an Ex Vivo Lung Perfusion Model
- 814 Pseudomonas Aeruginosa Induced Lung Injury Promotes Small Airway Remodeling Through IL-36R Signaling
- 815 TRMT1 Methyltransferase Activity Preserves Inflammasome Function
- 816 E-cigarette Aerosol Inhalation by Rhesus Macaques Alters the Inflammatory and Immune State of the Lungs
- 817 Conserved Noncoding Sequence 1 Influences the Development of the Lung Treg Niche
- 818 Altered Natural Killer Cell Function in Children and Immature Mice Infected With Rhinovirus
- 819 CXCL12 Promotes Endothelial Cell Pyroptosis by Amplifying LPS/Casp4/Gsdmd Cascading in Septic Lung
- 820 A CCR4-dependent, Regulatory T Cell Checkpoint Controls Allergic Airway Disease
- 821 Natural Molecule Covalent Targeting NLRP3 Alleviates Sepsis-induced ARDS via Inhibiting NLRP3 Inflammasome in Macrophages
- 822 Deubiquitinase VCIPI1 Modulates the Activation of NLRP3 Inflammasome in Septic ARDS
- 823 Post-translational Modification of Human IL-33 Impacts Cytokine Inflammatory Activity

**BEHAVIORAL • CLINICAL****POSTER DISCUSSION SESSION****D22 PUBLIC HEALTH RELEVANT RESEARCH IN COVID, INFECTIOUS DISEASE, LUNG CANCER SCREENING, AND OTHER AREAS**

8:15 a.m. - 10:15 a.m.

Moscone Center

Room 213-214 (South Building, Level 2)

Poster Viewing

8:15-9:00

Discussion

9:00-10:15

- 301 Early Post-hospital Mood Symptoms, Sleep Impairment, and Cognitive Impairment Are Strongly Associated With PASC Twelve Months After COVID-19 Hospitalization
- 302 Health Services Utilization After COVID-19 Hospitalization Among People With Post-Acute Sequelae of SARS-CoV-2 Infection (PASC)
- 303 Racial and Ethnic Disparities in Early Empiric Antibiotic Use for Patients Hospitalized With Community-onset COVID-19 With and Without Sepsis
- 304 Lung Cancer Screening Disparities Between English and Spanish Speakers From 2021 to 2024: Insights From the Cosmos
- 305 Voices From the Community, Solutions for the Community: Enhancing Lung Cancer Screening Through Culturally Tailored Education
- 306 Racial and Ethnic Disparities in Sleep Testing Service Utilization and Recovery Among Veterans During the COVID-19 Pandemic: A Retrospective Cohort Study
- 307 Linking Patient Perceptions of Shared Decision-making to Satisfaction in Lung Cancer Screening Decisions
- 308 Changing Approaches to Antibiotics in Community-acquired Pneumonia: A Mixed-methods Analysis of Veteran Affairs Medical Centers
- 309 The Impact of COVID-19 on Global Tuberculosis Control
- 310 Differences in COVID-19 Vaccination Behaviors Among Adults With Versus Without Chronic Lower Respiratory Diseases: The C4R Study
- 311 Outcomes of Proactive Recruitment of Veterans Living With HIV for a Smoking Cessation Trial: Enrollment Rate and Sample Representativeness
- 312 Lung Cancer Screening and Factors Associated With Uptake Among People With or at Increased Vulnerability for HIV: An Analysis of MACS/WIHS Combined Cohort Study
- 313 Thematic Analysis of Clinician Experiences in Vaccine Services Delivery
- 314 Estimating the Greenhouse Gas Emissions of Outpatient Inhalers at Stanford Medicine

- 315 Mixed-methods Study of Outcomes of Lung Cancer Screening in a Hybrid Program
- 316 A Brief Educational Video Intervention Improves Agreement With Scarce Resource Allocation Policy
- 317 Race-neutral Pulmonary Function Tests and Lung Cancer Resection Candidacy
- 318 Relationship of Education Levels to Awareness and Attitudes Toward Lung Cancer Screening in an Underserved Minority Community in Brooklyn, New York
- 319 Patient Activation and Its Association With Symptoms and Patients' Perception of Recovery in Adults With Long COVID
- 320 The Association Between Social Determinants of Health and Lung Cancer Screening Adherence: A Secondary Analysis of the BRFSS Data
- 321 Implementing an Incidental Pulmonary Nodule Tracking Program: Identification Is the First Step
- 322 Randomization to Introductory Letters Improves Completion of Public Health Surveillance Surveys After Hospitalization for Respiratory Viral Infections
- 323 Relative Risk of Death in Mechanically Ventilated COVID-19 and Respiratory Syncytial Virus Hospitalizations

## CLINICAL

## POSTER DISCUSSION SESSION

### D23 BEST CASE REPORTS IN CHRONIC LUNG DISEASE

8:15 a.m. - 10:15 a.m.

Moscone Center

Room 203-204 (South Building, Level 2)

Poster Viewing

8:15-9:00

Discussion

9:00-10:15

- 101 An Adult Case of Surfactant Protein C Deficiency Associated Diffuse Lung Disease in a Sudanese Lung Transplant Recipient
- 102 Diffuse Alveolar Hemorrhage in Lymphangioleiomyomatosis: A Case Series

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| <p>103 Recurrence of Interstitial Lung Disease After Lung Transplantation in a Patient With Antisynthetase Syndrome: A Case Report on Successful Retransplantation</p> <p>104 A Sinister Cause of Cystic Lung Disease</p> <p>105 A Rare Case of Pleuroparenchymal Fibroelastosis Without Radiological Pleural Involvement</p> <p>106 Antemortem Identification of Metastatic Pulmonary Calcinosis in a Patient With Smoldering Multiple Myeloma</p> <p>107 Bilateral Sequential Endobronchial Valve Placement for Severe Emphysema: Single Center Experience</p> <p>108 Diffuse Pan Bronchiolitis: A Treatable Cause of Dyspnea and Respiratory Failure</p> <p>109 Beyond the Obvious: Severe Hypoxemia in Vexas Syndrome - A Diagnostic and Therapeutic Dilemma</p> <p>110 JAK of All Trades: Post-transplant Graft-Versus-Host-Disease Manifesting as Sarcoid Lesions Ameliorated by Immunomodulation</p> <p>111 Nail-ing the Diagnosis: Fingernail Dystrophy as a Sign of Short Telomere-associated IPF</p> <p>112 Eosinophilic Fasciitis With Pulmonary Granulomas: A Mimicker of Sarcoidosis</p> <p>113 Hidradenocarcinoma After Lung Transplant - A Coincidence or Complication?</p> <p>114 I Can't Breathe: A Case of Cicatricial Pemphigus Leading to Airway Compromise</p> <p>115 IGG4 Related Lung Disease or Microscopic Polyangiitis: A Diagnostic Dilemma!</p> <p>116 Diagnostic Challenges in Granulomatous Disease: A Case of Metastatic Seminoma Mimicking Sarcoidosis</p> <p>117 Silent Restriction: The Challenge of Shrinking Lung Syndrome</p> <p>118 Constrictive Bronchiolitis With Paraneoplastic Autoimmune Multi-organ Syndrome Treated With Lung Transplantation</p> <p>119 An Unusual Case of Pulmonary Alveolar Proteinosis Complicated by Severe Hypoxemia: The Role of Veno-venous ECMO in Enabling Whole Lung Lavage</p> <p>120 Granulomatous-Lymphocytic Interstitial Lung Disease: A Rare Presentation Involving the Central Nervous System</p> | <p>121 A Breathe of Uncertainty: Rare Cystic Lung Disease in Neurofibromatosis</p> <p>122 Discordant Manifestations of Lymphangioleiomyomatosis and Tuberous Sclerosis Complex in Monozygotic Twins</p> <p>123 Rethinking Chronic Multinodular Interstitial Disease in a 70-year-old Woman: A Case of Diffuse Pulmonary Meningotheliomatosis</p> <p>124 Mycobacterium Parascrofulaceum Infection Mimicking Bronchiolitis Obliterans Syndrome: The Value of Quantitative Chest CT Analyzed With Parametric Response Mapping</p> |
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- CLINICAL**
- POSTER DISCUSSION SESSION**
- D24 CLINICAL CONUNDRUMS: CASE REPORTS**

8:15 a.m. - 10:15 a.m. Moscone Center

Room 207-208 (South Building, Level 2)

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| Poster Viewing | 8:15-9:00  |
| Discussion     | 9:00-10:15 |

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| <p>201 Double Trouble: A Case of Bilateral Hemothoraces</p> <p>202 Assessment of Dyspnea of Unknown Origin With Hyperpolarized Xenon-129 Gas MRI: A Case Series</p> <p>203 Radiation Revelation: Yttrium-90'S Role in Lung Complications</p> <p>204 A Novel Homozygous Mutation in ZMYND10 Cause Primary Ciliary Dyskinesia and Female Infertility</p> <p>205 Oh, That Spastic, Plastic, Cast-ic Cough!</p> <p>206 Hemoglobin Variant With Discordance Between SpO<sub>2</sub> and SaO<sub>2</sub></p> <p>207 A Vascular Ring Masquerading as Asthma During Pregnancy</p> <p>208 An Uncommon Cause of Dyspnea: Tracheal Papillomatosis</p> <p>209 A Rare Case of Follicular Lymphoma Causing Plastic Bronchitis</p> <p>210 Broncholith in Transit: A Rare Cause of Empyema and Bronchoesophageal Fistula</p> |  |
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- 211 A 30-Year-Old Male With Pulmonary Sequestration Presenting as a Lung Mass and Bilateral Bronchiectasis
- 212 Return of the Bronchololiths
- 213 Uncovering Uncommon Pleural Complications of RET Tyrosine Kinase Inhibitor Therapy: A Case of Selpercatinib-Induced Chylothorax in a Patient with Metastatic Medullary Thyroid Carcinoma
- 214 Dangers of Huffing Dust-off: A Case of Acute Bronchospasm From Difluorethane
- 215 Bronchial Misadventures: When Sevelamer Takes a Wrong Turn
- 216 A Couple of Cavitory Culprits: Cavitory Lung Disease in the Setting of Antiangiogenic Immunotherapy and Pulmonary Nontuberculous Mycobacterial Disease
- 217 Capillary Leak Syndrome in a Patient on Docetaxel
- 218 Unmasking an Elusive Cause of Dyspnea Post-Thoracic Surgery
- 219 Coughing Up Milk and Cheese: A Case of Chyloptysis in the Setting of Thyroid Cancer
- 220 Lymphatic Drama Without Trauma
- 221 Does a Mediastinal Mass Mandate Biopsy? A Case of Esophageal Duplication Cyst ( Atypical Case of Posterior Mediastinal Mass)
- 222 From Spine to Lungs: Investigating the Dangerous Pulmonary Cement Embolism
- 223 A Rare Case of Chronic Cough: Diagnosis and Successful Treatment of Symptomatic Plastic Bronchitis With a Daily Macrolide Antibiotic
- 224 A Mouthful of Maladies: Managing Respiratory Failure in a Patient With Megaesophagus
- 225 When Innovation Meets Inflammation: A Case of Reactive Airway Disease Due to 3D Printer Emissions

## CLINICAL

## POSTER DISCUSSION SESSION

## D25 BETWEEN THE CLOT AND THE CRISIS: IMMUNE, HEMATOLOGIC, AND ONCOLOGIC CRISES IN THE ICU

8:15 a.m. - 10:15 a.m.

Moscone Center

Room 2006/2008 (West Building, Level 2)

Poster Viewing

8:15-9:00

Discussion

9:00-10:15

- 701 When Antifungals Attack: Terbinafine Associated Thrombotic Thrombocytopenic Purpura (TTP)
- 702 A Rare Case of Pembrolizumab Associated Steven-Johnson-Syndrome/Toxic Epidermal Necrolysis
- 703 Catastrophic Antiphospholipid Syndrome: A Case of Myocarditis in a Complex Multisystem Disorder
- 704 A Rare Presentation of Triple M Syndrome From Pembrolizumab
- 705 Rare Case of New-Onset Autoimmune Diabetes Associated With Nivolumab Use
- 706 Successful Conservative Management of a Life Threatening Idiopathic Spontaneous Intraperitoneal Hemorrhage
- 707 Climbing Your Way to a Clot: A Rare Case of Paget-Schroetter Syndrome
- 708 Should Packed Red Blood Cells Be Used to Improve Oxygen Delivery Beyond Cardiopulmonary Resuscitation? A Case Study
- 709 Triple Threat: Myositis, Myocarditis, and Myasthenia Gravis Overlap Syndrome Triggered by Immune Checkpoint Inhibitors in Metastatic Melanoma
- 710 Atypical Presentation of Recurrent Diffuse Large B-cell Lymphoma in a Lung Transplant Recipient
- 711 Hemolytic Uremic Syndrome Complicated by Transfusion-related Acute Lung Injury
- 712 Unmasking G6PD Deficiency in the Context of Endocarditis: Hemolytic Anemia and Rifampin-induced Methemoglobinemia

- 713 A Fatal Intersection: Calciphylaxis in Castleman's Disease Amid Cytokine Storm and Immunosuppression
- 714 Atraumatic Splenic Rupture: A Rare and Morbid Complication of Hodgkin Lymphoma
- 715 Splenic Infarction in Babesiosis: What Happens in the Caribbean Should Stay in the Caribbean
- 716 A Rare Case of Acute Myeloid Leukemia With Refractory Hypercalcemia in the ICU
- 717 High Grade Lymphoma Causing Airway Compromise Requiring Intubation
- 718 Thrombosis Meets Cytokine Surge: The Perfect Storm in Catastrophic Antiphospholipid Syndrome
- 719 A Rare Case of Overlapping Complications of Hydralazine: Bullous Sweet Syndrome and Airway Angioedema From Drug-induced Lupus
- 720 The Unexplained High Ferritin in Lung Transplant Recipients: What Is the Missing Link?
- 721 A Red Herring - Extrinsic Compression of the Inferior Vena Cava by a Hepatic Mass
- 722 Tandem Therapeutic Plasma Exchange and Extracorporeal Membrane Oxygenation Strategy for Severe Diffuse Alveolar Hemorrhage in Antineutrophil Cytoplasmic Antibody-Associated Vasculitis
- 723 A Unique Infra-hepatic and Supra-hepatic Hemodialysis Configuration to Improve Pressure Disturbances in a Liver Transplant Patient With IVC Syndrome
- 724 Managing Page Kidney in a Patient With Underlying Renal Cell Carcinoma: A Case Report
- 725 When Infection Strikes Deep: High-stakes ICU Management of Bleeding Hepatic Artery Pseudoaneurysm in an Infective Endocarditis Patient

## BASIC • TRANSLATIONAL

## POSTER DISCUSSION SESSION

## D26 CLOUDED CONSEQUENCES: UNRAVELING THE MECHANISMS AND HEALTH EFFECTS OF VAPING AND E-CIGARETTES

8:15 a.m. - 10:15 a.m.

Moscone Center

Room 3022/3024 (West Building, Level 3)

Poster Viewing

8:15-9:00

Discussion

9:00-10:15

- 1001 6-methyl Nicotine in Electronic Cigarettes: Chemical Analysis and Toxicological Properties
- 1002 Measurement of Polycyclic Aromatic Hydrocarbons Generated From Electronic Dabbing
- 1003 Impact of Vaping and Multi-inhalant Use on Gene Expression and Inflammatory Protein Profiles in the Airways and Circulating Immune Cells
- 1004 Extracellular Vesicle-encapsulated MicroRNA Signatures of Cigarette Smoking and Smoking-related Harm
- 1005 Evolution of Cellular Inflammatory Profiles of the Lower Airways in E-cigarette Users
- 1006 Effect of Smoking Cessation on COPD-dysregulation of the Small Airway Epithelium Transcriptome
- 1007 The Role of Soluble E-cadherin as a Biomarker for Electronic Cigarette-induced Airway Epithelial Barrier Dysfunction
- 1008 Effects of Electronic Cigarettes on Airway Epithelial Barrier Integrity and Function in a Preclinical Mouse Model
- 1009 Investigating the Effects of E-liquid on Lung Epithelial Cell Inflammatory Gene Expression
- 1010 Health Impact of E-cigarettes Use in the African American Population: Oxidative Stress, Innate Immunity and Mucous Epithelium Barrier Integrity
- 1011 Similar Lung Function Decline and Increased Cardiovascular Disease Markers in Mice Following Dual Use of Combustible Cigarettes Plus E-cigarettes Versus E-cigarettes Exclusively

- 1012 Antecedent Conventional Tobacco Smoke Exposure Enhances ENDS Pulmonary Toxicity and Inflammation
- 1013 Increased Late Time Point Lung Inflammation in Mice Given a Streptococcus Pneumoniae Challenge Following Several Weeks of E-Cigarette Whole Body Aerosol Exposure
- 1014 Use of the Ljari Viper Passive E-vape Chamber in Studying E-cigarette/vaping Associated Lung Injury in Mice
- 1015 Novel Tobacco Products (Electronic Cigarette-EC- and Heated Cigarettes-HC) as a First Step to Abstinence From All Tobacco Products
- 1016 Characteristics Associated With Blunt Use Among Black/African American Young Adults Who Smoke Cigarillos
- 1017 A Novel Index of Early-life Growth Conditions Moderates Susceptibility to Later-life Cigarette Smoking-associated Airflow Obstruction and Systemic Inflammation
- 1018 Unmasking the Respiratory Risks of Vaping in Asthma Exacerbations
- 1019 Respiratory Effects of Vaping Nicotine and Tetrahydrocannabinol (THC)
- 1020 Self-reported Occupational Exposure to Dust and Fumes Is Associated With Increased Risk of Developing Acute Respiratory Exacerbations and Adverse Cardiovascular Events in Smokers
- 1021 Effects of Cigarette Smoking on Ventricular Repolarization
- 1022 The Rise of E-cigarette Smoke: A Unique Case of Vaping-associated Lung Injury
- 1023 A Hidden Danger Lurking Behind the Smokeless Clouds: E-cigarette Vaping Associated Lung Injury (EVALI)
- 1024 EVALI Presenting as a Lung Mass: A Diagnostic Challenge in a Young Adult
- 1025 A Case of Vaping Induced Lipoid Pneumonia

**BASIC • TRANSLATIONAL****POSTER DISCUSSION SESSION**

### **D27 CELLULAR MECHANISMS AND IMMUNE PATHWAYS UNDERLYING PEDIATRIC PULMONARY DISEASES**

8:15 a.m. - 10:15 a.m.

Moscone Center

Room 301-302 (South Building, Level 3)

Poster Viewing

8:15-9:00

Discussion

9:00-10:15

- 401 Upregulating Endothelial Cpt1a Inhibits Neonatal Hyperoxia-induced Pulmonary Hypertension by Repressing Endothelial-mesenchymal Transition
- 402 Immunohistochemical Expression of Mucins 5AC and 5B in the Large Airways of Preterm Born Adults
- 403 Antigen Stasis and Increased IL-33 Activation in the Human Primary Ciliary Dyskinesia Epithelium
- 404 Airway Epithelial Cells From Patients Who Develop Severe BPD Have Increased Expression of the Intermediate Filament Vimentin and Failed Differentiation
- 405 Type I IFN Signaling From Trisomy 21 Lung Mesenchyme Alters Cellular Composition
- 406 Characterization of the Role of Primary Cilia During Human Pulmonary Development
- 407 The Developmental Program in Neonatal Pulmonary Pericytes Facilitates Alveolarization and Is Uniquely Susceptible to Hyperoxia-induced Lung Injury
- 408 The Effect of VEGF-A Isoforms on Capillary Endothelial Cell Differentiation in Human Fetal Lung Development
- 409 Sex-specific Pulmonary Effects of Perinatal E-cigarette Exposure
- 410 Perinatal Acetaminophen Toxicity Is Mediated by Cytochrome P450 2e1 (Cyp2e1) in a Time and Dose Dependent Manner
- 411 Maternal Exposure to Polycyclic Aromatic Hydrocarbons Exacerbates Oxygen-mediated Neonatal Lung Injury and Causes Dysbiosis of Lung and Gut Microbiome: The Role of Cytochrome P450 (Cyp)1a2

- 412 Disruption of Cytochrome P450 (Cyp)1a2 in Mice Leads to Exacerbated Lung Injury With Altered Metabolites and Gene Expression After Exposure to Maternal Polycyclic Aromatic Hydrocarbons (PAHs) and Postnatal Hypoxia
- 413 Sex-specific Pulmonary Effects of Perinatal Menthol Vaping on Offspring, With Menthol-induced Pulmonary Fibroblast Toxicity
- 414 Differential Gene Expression in Preterm Compared to Term-born Children Hospitalized With Rhinovirus Infection: Insights From RNA Sequencing
- 415 IL-13 Augments Non-T2 Inflammatory Responses to Rhinovirus in Bronchial Epithelial Cells From Children With Asthma
- 416 Lung Fibroblasts Recruit Inflammatory Macrophages That Alter Saccular Stage Elastic Fiber Organization
- 417 Characterizing Inflammatory Cytokines in Plasma, Tracheal Aspirate, and Urine Samples of Children Hospitalized With Tracheostomy-associated Respiratory Infections
- 418 Specific Culture Conditions Enhance Proliferation and Differentiation of Neonatal Airway Epithelial Cells
- 419 Identifying T Cell Interactions With Smooth Muscle Cells in Lung Tissue From BPD and Age-matched Control Donors Using Single Nuclear Seq and Multiplexed Immunofluorescence Datasets
- 420 Proteomic Analysis of Extracellular Vesicles (EVs) Derived From Human Nose Organoids and Nasopharyngeal Secretions of RSV-infected Children
- 421 Characterizing the Plasma Proteome of Extremely Premature Infants With Different Extubation Outcomes
- 422 Contribution of Airway Microbiome to Epithelial Cell Responses in Primary Ciliary Dyskinesia

## BEHAVIORAL • CLINICAL • TRANSLATIONAL

## POSTER DISCUSSION SESSION

## D28 FISHERMAN'S WHARF: CLINICAL AND EPIDEMIOLOGICAL INSIGHTS INTO PULMONARY HYPERTENSION: TRENDS, TREATMENTS, AND OUTCOMES

8:15 a.m. - 10:15 a.m.

Moscone Center

Room 3010/3012 (West Building, Level 3)

Poster Viewing

8:15-9:00

Discussion

9:00-10:15

- 501 Resources Available for Pulmonary Hypertension Care Across Veterans Affairs Medical Centers
- 502 Trends in Mortality and Health-related Quality of Life of Pulmonary Arterial Hypertension Across Three North American Countries: A 1990-2019 Global Burden of Disease Study
- 503 Pulmonary Vasodilator Therapy Is Associated With Improved Survival in COPD-PH With Pulmonary Vascular Predominance
- 504 Early Outcomes of Sotatercept in Pulmonary Arterial Hypertension
- 505 Long-term Safety of MK-5475 in Pulmonary Arterial Hypertension (PAH): Results From the Phase 2 INSIGNIA-PAH Extension Period
- 506 Patients With Connective Tissue Disease-related Interstitial Lung Disease and Pulmonary Hypertension With a Parenchymal Phenotype Have Worse Clinical Outcomes Compared to Those With a Vascular Phenotype
- 507 Efficacy and Safety of Selexipag in Connective Tissue Disease-Associated Pulmonary Arterial Hypertension With Concomitant Interstitial Lung Disease
- 508 Pulmonary Hypertension Following Kidney Transplantation Is Associated With Increased Mortality Independent of Graft Function Post-transplant
- 509 Lung Texture Analysis and Its Association With Vascular Pruning in ILD-associated Pulmonary Hypertension Treated With Vasodilator Therapy



- 510 Reduced Pulmonary Vascular Distensibility in Exercise-induced Pulmonary Hypertension: Comparative Analysis of Slope Versus Peak Criteria
- 511 Peak Steps Decrease After Treatment With Rodatristat Ethyl in Pulmonary Arterial Hypertension
- 512 Validity of At-home 6MWT With Sensors and the Added Value of Cardiac Effort in Pulmonary Hypertension and Heart Failure
- 513 Addition of Patient-Reported Outcomes Improves Discrimination of Survival Prediction Models in Pulmonary Arterial Hypertension
- 514 Increased 3-Hydroxy Butyrate May Predict Pulmonary Hypertension (PH) and Explain Chronic Hyperventilation in PH Patients
- 515 Leveraging Hybrid Natural Language Processing Techniques for Large-scale Pulmonary Embolism Identification: Development and Validation of an Iterative and Novel Machine Learning and Rule-based Pipeline
- 516 Differentiating Systemic to Pulmonary Artery Shunt From Pulmonary Embolism in Patients With Pulmonary Artery Filling Defects
- 517 Pulmonary Thromboendarterectomy After Balloon Pulmonary Angioplasty: Single-center USA Experience
- 518 The Relationship of Computed Tomography-Derived Pulmonary Artery to Aorta Ratio to Pulmonary Artery Compliance and Pulmonary Vascular Resistance in PVDOMICS Participants With COPD and/or Interstitial Lung Disease
- 519 Pulmonary Hypertension Patients With Antiphospholipid Syndrome Undergoing Pulmonary Thromboendarterectomy: Single-volume Center Experience
- 520 Influence of Expedited Mechanical Thrombectomy on Outcomes in Intermediate-risk Pulmonary Embolism Patients: FLASH Registry Insights
- 521 Sexual Dimorphism in Right Ventricle Adaptation in CTEPH Before and After Surgical Revascularization
- 522 Venous Volume in Pulmonary Veins and Hemodynamics in CTEPH

- 523 Predictors of Mortality in Hospitalized Patients With Primary Diagnosis of Pulmonary Embolism Using US National Inpatient Sample Data, 2018 - 2021
- 524 Pulmonary Vascular and Right Ventricular Abnormalities With Exercise in Veterans With Deployment-related Respiratory Disease
- 525 Drugs and Toxic-Associated Pulmonary Arterial Hypertension, Prognosis, and Management in the Current Era of Treatment: Results From the REHAP Registry

### BASIC • CLINICAL • TRANSLATIONAL

### POSTER DISCUSSION SESSION

## D29 FROM BENCH TO BEDSIDE: UNRAVELING PULMONARY FIBROSIS THROUGH CELLULAR COMMUNICATION AND MOLECULAR PATHWAYS

8:15 a.m. - 10:15 a.m.

Moscone Center

Room 3009/3011 (West Building, Level 3)

Poster Viewing

8:15-9:00

Discussion

9:00-10:15

- 901 Targeted Alveolar Type II Epithelial Cell Apoptosis Augments Fibrosis in a MUC5B-Overexpression Model
- 902 Upregulating Glucose Transporter 1 by Forkhead Box Protein O1 (FoxO1) in Fibroblast Mediated Angiotensin II -induced Pulmonary Fibrosis
- 903 Exploration of Mechanism of Action of Nerandomilast in Pulmonary Fibrosis Through Single Cell Rna Sequence and Spatial Transcriptomic Analysis
- 904 Single-cell RNA Sequencing Uncovers Compositional and Signaling Changes in DIPNECH Lung Epithelium
- 905 System Resolution of Spp1+ Macrophage Heterogeneities Identifies Disease-potentiating Crosstalk Between Macrophage and Alveolar Epithelium in Pulmonary Fibrosis
- 906 Iron Metabolism Disorder in Lymphangioleiomyomatosis

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| <p>907 TRPV4 Is a Key Mechanosensor in Macrophages That Drives Myofibroblast Differentiation Through Activation of TGF-<math>\beta</math></p> <p>908 Single Nuclei Versus Single Cell RNA Sequencing in a Murine Model of Bleomycin-induced Lung Injury</p> <p>909 Role of COPA Gene Mutation in Lung Epithelial Cells in COPA Syndrome Lung Disease</p> <p>910 Differences in the DNA Methylome Between Lung Fibroblasts From Old and Young Mice in Models of Persistent vs Early Resolving Fibrosis</p> <p>911 The Specific Role of Stratifin in the Pathogenesis of Transforming Growth Factor-<math>\beta</math>-stimulated Pulmonary Fibrosis</p> <p>912 Beyond Collagen Biosynthesis: Prolyl-3-Hydroxylase 1 Controls Extracellular Matrix Dynamics by Suppressing Transforming Growth Factor <math>\beta</math>2</p> <p>913 The Ferret Bleomycin-Induced Model of Lung Injury Shares Features of Idiopathic Pulmonary Fibrosis in Humans</p> <p>914 CFTR Modulator VX770 Inhibits Cell Senescence and Mitigates Bleomycin Induced Pulmonary Fibrosis in Mouse Lung</p> <p>915 Innate Immune Inhibition of Collagenolytic Protease Cathepsin K May Play a Role in Fibrosis Progression</p> <p>916 Idiopathic Pulmonary Fibrosis: Understanding Cellular Communication in a Human Alveolar Organoid Model</p> <p>917 Plasma Proteome Analysis Reveals Shared and Unique Biomarkers of Interstitial Lung Disease Subtypes</p> <p>918 Metabolomic Analysis of Disease Progression In Idiopathic Pulmonary Fibrosis and Interstitial Lung Diseases</p> <p>919 Mechanistic Role of Complement Cascade in Pre-Metastatic Niche Establishment Through the Induction of Epithelial-To-Mesenchymal Transition by Circulating Extracellular Vesicles in Lymphangioleiomyomatosis (LAM)</p> | <p>920 Correlation Between Methotrexate Polyglutamates Concentrations in Red Blood Cells and Pulmonary Function in Patients Treated With Methotrexate in the PREDMETH Trial</p> <p>921 Surfactant Protein A2 Mutation in Early Onset Familial Pulmonary Fibrosis With Novel Skin Phenotype</p> <p>922 Single-cell Profiling Demonstrates the Antifibrotic Effects of Bexotegast on Pathologic Lung Cell Populations in the Presence and Absence of Background Therapy</p> <p>923 Cold Storage of Human Precision-cut Lung Slices Preserves Cellular and Transcriptional Identity Enabling Optimized On-demand Translational Lung Research</p> <p>924 Effects of Ensifentrine, a Dual Phosphodiesterase (PDE)3 and PDE4 Inhibitor, on Lung Fibrosis in a Rat Bleomycin Model</p> <p>925 The LncRNA MEG3 Regulates Epithelial Cell Fate Decisions During Lung Regeneration</p> |
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### BASIC • CLINICAL • TRANSLATIONAL

### POSTER DISCUSSION SESSION

### D30 GOING WITH THE FLOW: ABNORMALITIES IN RESPIRATORY MECHANICS

8:15 a.m. - 10:15 a.m.

Moscone Center

Room 2002/2004 (West Building, Level 2)

Poster Viewing 8:15-9:00

Discussion 9:00-10:15

- 601 Peripheral Chemoreceptors and Plant Gain as Key Elements of Eucapnic Ventilatory Drive in Idiopathic Hyperventilation Syndrome: A Prospective Case-Control Study Looking Under the Dogs' Tail
- 602 Relationship Between Cardiopulmonary Exercise Testing (CPET) Indices and Surgical Methods in Predicting Outcomes After Lung Resection Surgery
- 603 Utilizing X-ray Velocimetry for Non-invasive Evaluation of Collateral Ventilation in Bronchoscopic Lung Volume Reduction Procedures

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| <p>604 Relationships Between Respiratory Function and Clinical and Functional Outcomes in Amyotrophic Lateral Sclerosis Subjects: A Cross-sectional Analysis</p> <p>605 Point of Care Imaging for Swimming Induced Pulmonary Edema in High-intensity Military Training Environments</p> <p>606 Abnormal Respiratory Dynamics Derived From MRI and Dyspnea in Long COVID</p> <p>607 Veterans With Self-reported Exposure to Blast Overpressure During Deployment Experience Exaggerated Perceived Breathlessness With Intense Exercise</p> <p>609 MRI-based Ventilation-perfusion (V/Q) Matching Using Hyperpolarized Xenon and Dynamic Contrast-enhanced MRI in Long COVID Patients</p> <p>610 Intra-breath Oscillometry Is Associated With Patient-reported Symptoms and 6-minute Walk Distance at 6 Months After Mild COVID-19 Infection</p> <p>611 Harmonized Assessment and Quality Control of Quantitative Measures of Lung Structure on Pre-pandemic Cardiac and Lung Computed Tomography (CT) Scans for Large-scale Investigation of Risk of Long COVID-19: The Collaborative Cohort of Cohorts for COVID-19 R</p> <p>612 PEEP Titration in a Computational Model of Dynamic Lung Recruitment</p> <p>613 Impact of Hypoxemia, Normoxia, and Moderate to Severe Hyperoxemia on Brain-lung Crosstalk in Experimental Acute Focal Ischemic Stroke</p> <p>614 Surface Tension Lowering Therapeutic for Acute Lung Injury</p> <p>615 Artificial Intelligence- Based Deep Learning Model for Detecting Central and Upper Airway Obstruction on Flow-Volume Loops</p> <p>616 Quantitative CT and Computational Fluid Dynamics-based Machine Learning Phenotypes of Lung Structure-function Abnormality</p> <p>617 X-Ray Velocimetry Provides Temporally and Spatially-Resolved Biomarkers of Lung Ventilation in Small Airways Disease</p> <p>618 Ansa Cervicalis Stimulation Increases Upper Airway Patency During Expiration in Patients With Obstructive Sleep Apnea</p> | <p>619 Combined Hypoglossal Nerve and Ansa Cervicalis Stimulation During Drug-induced Sleep Endoscopy in Patients With Obstructive Sleep Apnea</p> <p>620 Cardiopulmonary Exercise Testing (CPET) and Echocardiography: Can Diastolic Dysfunction Be Identified in Patients Undergoing CPET for Exertional Dyspnea?</p> <p>621 Analyzing the Impact of Fitted Transit Time on Simulated Alveolar Septal Wall Thickness Measurements With Hyperpolarized Xenon-129 MRI</p> <p>622 Evaluating the Impact of Pursed-lip Breathing and Positive Expiratory Pressure on Airway Collapse and 6 Minute Walk Distance in Patients With Excessive Dynamic Airway Collapse (EDAC): A Pilot Study</p> <p>608 Does CT-based Ventilation-Perfusion Mismatch Predict Exertional Dyspnea In Deployed Military Veterans?</p> <p>623 Impact of Positive End-Expiratory Pressure During Spontaneous Ventilation on the Portal Vein Pulsatility Index in Healthy Individuals</p> <p>624 Evaluating Ventilation and Chest Wall Motion in Pediatric Pectus Malformation Patients With 3D Ultrashort Echo Time (UTE) and 2D Dynamic MRI</p> |
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- PEDIATRIC CLINICAL CORE CURRICULUM**
- PCC3 PEDIATRIC CLINICAL CORE CURRICULUM**

**SCALE: Core Curriculum Committee**

**9:30 a.m. - 10:30 a.m. Moscone Center**

**Room 215-216 (South Building, Level 2)**

**Target Audience**  
Clinicians, trainees, students, advanced practice providers

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

  - integrate new pediatric pulmonary and critical care guidelines into clinical practice.
  - identify knowledge gaps in the treatment of pediatric patients with pulmonary disease and critical illness.
  - better counsel pediatric patients and families on treatment options available for management of pulmonary diseases and critical illness.

The goal of the core is to 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 key topics in the areas of Adult and Pediatric Pulmonary, Critical Care, and Sleep Medicine. The topics are aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to help clinicians stay up to date with important information relevant to their medical practices, and to provide an opportunity for clinicians to evaluate their individual knowledge and skills while earning MOC Medical Knowledge points

**9:30 Breathe Easy: Home Ventilator Diagnostics**

**9:50 Vent Check: Inpatient Ventilator Diagnostics Testing**

**10:10 Panel Discussion**

clinicians to evaluate their individual knowledge and skills while earning MOC Medical Knowledge points

**11:00 OSA and Obesity Medications**

**11:25 OSA in the Perioperative Setting**

**11:50 Sleep and Critical Illness Survivorship**

## CLINICAL

### ADULT CLINICAL CORE CURRICULUM

## CC6 ADULT SLEEP CLINICAL CORE CURRICULUM

**SCALE: Core Curriculum Committee**

**11:00 a.m. - 12:30 P.M.**

**Moscone Center**

**Esplanade Ballroom (Upper Mezzanine, South Building)**

### Target Audience

Physicians, trainees, students, advanced practice providers

### Objectives

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

- Integrate new sleep medicine guidelines in to clinical practice.
- better counsel patients on treatment options available for sleep disordered breathing.
- Identify knowledge gaps in the treatment of patients with sleep related disorders.

The goal of the core is to 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 key topics in the areas of Adult and Pediatric Pulmonary, Critical Care, and Sleep Medicine. The topics are aligned with corresponding MOC Medical Knowledge modules. This symposium is intended to help clinicians stay up to date with important information relevant to their medical practices, and to provide an opportunity for



**BASIC • TRANSLATIONAL****MID-DAY SYMPOSIUM**
**MD31 LUNGMAP PHASE 3- HIGH RESOLUTION MOLECULAR PROFILING OF LUNG DISEASES**

Division of Lung Diseases, NHLBI, NIH

**12:00 P.M. - 1:00 P.M.****Moscone Center**

Room 3020 (West Building, Level 3)

**Target Audience**

Providers of lung health, medical fellows in training, and basic and clinical researchers interested in lung biology, developmental biology, lung disease, multi-omics, bioinformatics, and systems biology

**Objectives**

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

- learn the innovative technologies for single-cell multiomics, spatial multiomics, and data analysis of the lung
- learn the newest discoveries from LungMAP that could inform lung research
- learn how to access and use the LungMAP resources

The overall goal of LungMAP is to build a molecular and cellular atlas of the human lung to serve as a reference to better understand both normal biology and disease pathobiology. LungMAP Phase 3 aims to utilize the power of single-cell omics and other innovative technologies to identify the pathogenic mechanisms of lung disease at cellular resolution, including cell

types critical to disease initiation and progression, aberrant molecular pathways in abnormal and diseased cell states, and targets for novel lung disease therapies. Speakers will describe progress on profiling pediatric and adult diseases using single-cell multiomics and spatial multiomics.

**12:00 Mapping Airway Epithelial Cell-Immune Cell Interactions in Asthma and COPD**

**12:12 Cell-Cell and Cell-Matrix Interactions Driving Progressive Fibrosis in Interstitial Lung Diseases**

**12:24 Single-Cell and Spatial Multiomics Understanding of Childhood Interstitial Lung Disease**

**12:36 Single Cell-Resolution Cross-Comparison of Pediatric and Adult Lung Diseases**

**12:48 Postnatal Human Lung Development Identify Multiple Stages of Lineage Differentiation**

**CLINICAL****MID-DAY SYMPOSIUM**
**MD32 NHLBI- SUPPORTED PEDIATRIC COHORTS TO ELUCIDATE THE GROWING LUNG**

Division of Lung Diseases, NHLBI, NIH

**12:00 P.M. - 1:00 P.M.****Moscone Center**

Room 205-206 (South Building, Level 2).

**Target Audience**

Neonatologists, pediatric pulmonologists, clinical researchers, respiratory therapists, epidemiologists, data scientists

**Objectives**

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

- learn new findings about effects of antenatal late preterm steroids on lung function at age 6 years
- learn new findings about the impact of early life breathing patterns on lung function and sleep at preschool age
- learn from experiences in cohort retention and pulmonary function testing in young children

Longitudinal birth cohorts elucidate the impact of early life events on lung function. This session describes 4 NHLBI-supported observational studies of newborn cohorts, retained and studied at preschool/school age. Cohort retention strategies, analyses and results will be presented. The 'Antenatal Late Preterm (ALPS)' follow-up study examines impact of antenatal steroid

administration on pulmonary/ neurocognitive outcomes at age 6 years. 'HYdrocortisone for BPD Respiratory and Developmental (HYBRiD) Outcomes', evaluates outcomes of receiving hydrocortisone post-natally upon motor, cognitive, academic, and pulmonary function at school-age. The Post-Vent study follows deeply phenotyped preterm infants during their stay in the Neonatal Intensive Care Unit - 'Pre-Vent Study' newborns at pre-school age, for asthma, sleep, and neurodevelopmental outcomes.

**12:00 The Antenatal Late Preterm Steroid (ALPS) Trial and Follow-Up Studies**

**12:15 HYdrocortisone for BPD Respiratory and Developmental (HYBRiD) Outcomes Study- Retaining the Cohort for Long-Term Outcomes**

**12:30 The Pre-Vent Study Deep Phenotyping in an Extremely Preterm Cohort in the NICU**

**12:45 The Post-Vent Study- a Follow Up of the Pre-Vent Cohort at School Age**

- apply new data to stratify patients on their risk to develop postoperative pulmonary complications.

Postoperative pulmonary complications are a major contributing factor for morbidity and mortality in the US with very few evidence-based interventions. To develop and implement pre-, intra-, and post-operative interventions to reduce complications, the NHLBI supported program "An Anesthesia-Centered Bundle to Reduce Postoperative Pulmonary Complications" was initiated. In this session, speakers will address the current state of the art in the field, report on the primary outcomes of the study, and present a secondary analysis of the effects of sex and mechanical power on outcomes.

**12:00 Update on Postoperative Pulmonary Complications**

**12:15 An Anesthesia-Centered Bundle to Reduce Postoperative Pulmonary Complications**

**12:30 The Effects of Sex and Mechanical Power to Modulate Pulmonary Outcomes after Surgery**

**12:45 Incentive Spirometry: Is It Still a Thing?**

**CLINICAL**

**MID-DAY SYMPOSIUM**

**MD33 BREATHING EASY: UNCOVERING DETERMINANTS AND TREATMENTS OF POST-SURGICAL PULMONARY COMPLICATIONS**

Division of Lung Diseases, NHLBI, NIH

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 2010/2012 (West Building, Level 2)

**Target Audience**

Many healthcare providers (e.g. pulmonary doctors, other internists, anesthesiologists, surgeons, nurses, respiratory therapists, physical therapists) trainees caring for patients undergoing surgery; researchers in lung and perioperative lung injury.

**Objectives**

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

- appropriately refer to reliable and up-to-date literature in the field of perioperative pulmonary complications
- will integrate new strategies to manage the care of surgical patients, particularly those at high risk for pulmonary complications

**BASIC • CLINICAL**

**MID-DAY SYMPOSIUM**

**MD34 ARTIFICIAL INTELLIGENCE ON CHEST CT TO IMPROVE THE DEFINITION OF LUNG DISEASES AND THEIR SUBTYPES**

Division of Lung Diseases, NHLBI, NIH

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 209-210 (South Building, Level 2)

**Target Audience**

The target audience will include researchers, physicians, and vendors that are interested in the role of chest CT in defining the diseases and their subtypes and the latest development of AI/ML models on chest CT.

**Objectives**

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

- provide evidence showcasing how AI/ML can expedite the interpretation of chest CT results, improving diagnostic efficiency
- discuss the vision for the integration of AI/ML in regular clinical practice concerning chest CT analysis

- speakers will interact with attendees to understand their needs and concerns

In recent years, breakthroughs in artificial intelligence (AI) and machine learning (ML) have significantly transformed various sectors in healthcare and medicine, including ways to enhance processing and analysis of chest CT scans. This session will showcase innovative models that utilize large datasets of chest CT images, employing both supervised and unsupervised training techniques. This session will present AI/ML models that are capable of identifying novel imaging features and biomarkers that remain elusive through conventional analysis and examples of specific diseases (e.g., COPD and Fibrotic Lung Disease) and their subtypes that benefit from these discoveries.

- 12:00 AI/ML to Go Deeper to Define Subtypes of Emphysema and COPD**
- 12:15 Harnessing Foundation Models and Synthetic Data for Chest Disease Quantification and Progression Analysis**
- 12:30 From Pixels to Prognosis: Unlocking the Potential of Deep Learning in Fibrotic Lung Disease Imaging Analysis**
- 12:45 Machine Learning and Texture-Based CT Radiomics Analysis for Predicting COPD Outcomes**

**CLINICAL****MID-DAY SYMPOSIUM**

### **MD35 UPDATES ON ARDS, PNEUMONIA, AND SEPSIS PHENOTYPING CONSORTIUM**

Division of Lung Diseases, NHLBI, NIH

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 304 (South Building, Level 3)

#### **Target Audience**

Providers of lung health, investigators in lung physiology and pathophysiology, specific patient groups or multiple groups

#### **Objectives**

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

- learn the APS phenotype consortium progress
- understand the APS phenotype consortium center-specific projects

- learn about the APS consortium ancillary studies, data and biospecimen and how to access

ARDS, pneumonia, and sepsis are common critical illness syndromes with substantial heterogeneity. NHLBI and NIGMS issued awards to fund the ARDS, Pneumonia, and Sepsis (APS) Phenotyping Consortium to conduct a longitudinal cohort study of 4,000 participants with ARDS, pneumonia, or sepsis, and collect multidimensional data for up to one year from the time of hospitalization to allow for rigorous phenotyping. This session will inform the research community on the progress of the consortium and the availability of ancillary study as well as data and biospecimen.

- 12:00 APS Consortium Progress**
- 12:10 Update on Ancillary Study Requests**
- 12:20 Center-Specific Projects-1**
- 12:25 Center-Specific Projects-2**
- 12:30 Center-Specific Projects-3**
- 12:35 Center-Specific Projects-4**
- 12:40 Center-Specific Projects-5**
- 12:45 Center-Specific Projects-6**
- 12:50 Q/A Session**

**BASIC • TRANSLATIONAL****MID-DAY SYMPOSIUM**

### **MD36 HIGHLIGHTS ON PRECLINICAL MODELS OF IPF - AN NHLBI CONSORTIUM**

Division of Lung Diseases, NHLBI, NIH

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 303 (South Building, Level 3)

#### **Target Audience**

Those with research interests involving the study of idiopathic pulmonary fibrosis and other fibrotic lung diseases.

#### **Objectives**

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

- learn new findings regarding the pathogenesis of IPF from its onset through disease progression
- increase awareness among the broader IPF research community of the availability of new and improved model systems to study IPF

- appropriately design research studies involving IPF by leveraging model systems uniquely suited to uncover specific types of disease mechanisms, as well as improve model selection for screening and testing new drugs/biologics that target IPF

The lack of preclinical model systems that effectively reproduce the pathologic features of human idiopathic pulmonary fibrosis (IPF) and can also be exploited to assess drug efficacy, is a significant impediment to the realization of clinical treatments for this devastating disease. To breach this gap, the NHLBI created the IPF Models Consortium. At conclusion of this initiative, this session will provide the attendees with an overview of the consortium, will highlight achievements for each of the five U01 projects, and will increase audience's awareness of the availability and utility of these models for the study of IPF.

- 12:12 Characterizing the Role of ECM and Fibroblasts in Pulmonary Fibrosis**
- 12:24 Development of In Vitro Models Progressive Fibrosis for Drug Screening**
- 12:36 Revealing the Epithelial-Mesenchymal Cross-Talk in Pulmonary Fibrosis through iPSC Models**
- 12:36 A Novel Ferret Model of IPF Exhibits Persistent Fibrosis and Airway Remodeling**

- understand lessons learned in the PrecISE network that should inform future precision medicine trials in asthma and related diseases
- recognize opportunities for future use of CT imaging and sputum analyses to select therapies for individual patients with severe asthma

This session reports recent data from the PrecISE Network, which recently completed biomarker-directed trials of five interventions in severe asthma. Attendees will learn about the study design, how to interpret the trial results, and how CT imaging and sputum analyses may be used in the future to inform the selection of treatments for individual patients who respond poorly to standard therapies.

- 12:00 Design of the PrecISE Network and It's Trial Protocol**
- 12:12 Potential Role of CT Imaging in Endotypes of Severe Asthma**
- 12:24 Potential Role of Sputum Analyses in Endotypes of Severe Asthma**
- 12:36 Protocol Adaptations in PrecISE, Statistical Analysis, and Interpretation of Biomarker-directed Clinical Trial Data**
- 12:48 Questions and Discussion**

## CLINICAL

## MID-DAY SYMPOSIUM

### MD37 BIOMARKER-DIRECTED THERAPIES FOR ASTHMA - LESSONS LEARNED IN THE PRECISE NETWORK

Division of Lung Diseases, NHLBI, NIH

12:00 P.M. - 1:00 P.M.

Moscone Center

Room 211-212 (South Building, Level 2)

#### Target Audience

Researchers and pulmonary physicians desiring up to date information on individualized care for patients with severe asthma

#### Objectives

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

- understand how biomarker-directed clinical trials are designed and conducted and how the results of these trials should be interpreted





BASIC • CLINICAL • TRANSLATIONAL

CRITICAL CARE TRACK

## D81 LUNG-BRAIN INTERACTION IN CRITICAL ILLNESS: CLINICAL IMPLICATIONS OF MECHANICAL VENTILATION

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

11:00 a.m. - 12:30 P.M.

Moscone Center

Room 24, Hall E (North Building, Exhibition Level)

### Target Audience

Physicians, nurses, physiotherapies, respiratory therapists, medical students, residents, health care students

### Objectives

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

- Summarize the Pathophysiology of Cerebral Changes in Mechanically Ventilated Patients and its Neurological Consequences
- Describe Mechanical Ventilation in Acute Brain Injury
- Define Current Landscape of Pharmacological Management of Delirium in ICU: A Focus on Mechanically Ventilated Patients and Ventilator-Associated Brain Injury: Evolving paradigms

Critically ill patients are often affected by complex, pathophysiological interactions between the lungs and the brain, significantly impacting their clinical course. Mechanical ventilation

and currently utilized ventilatory strategies may precipitate primary or secondary brain injury. Understanding the bidirectional crosstalk between lungs and brain is paramount for developing targeted management strategies that may improve patient outcomes. Further exploration of the mechanisms underlying lung-brain interactions and targeted management strategies, we can optimize outcomes for critically ill patients, emphasizing the importance of a multidisciplinary approach and collaboration in the intensive care setting.

11:00 Introduction

11:06 A Patient's Perspective

11:11 Pathophysiology of Cerebral Changes in Mechanically Ventilated Patients

11:35 Multimodal Neuromonitoring Techniques for Early Detection and Management of Neurologic Complications

11:47 Mechanical Ventilation in Acute Brain Injury: Individualized clinical advice

11:59 Current Landscape of Pharmacological Management of Delirium in ICU: A Focus on Mechanically Ventilated Patients

12:11 Ventilator-Associated Brain Injury: Evolving paradigms

12:23 Q &amp; A

BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

## D82 RESPIRATORY CONVERSATIONS: ADVANCES IN ORGAN-ORGAN CROSSTALK IN PULMONARY PATHOBIOLOGY

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

11:00 a.m. - 12:30 P.M.

Moscone Center

Room 2005/2007 (West Building, Level 2)

### Target Audience

Basic and translational as well as physician scientists and clinicians with an interest in translational lung research

### Objectives

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

- describe the complex interactions of the lung with other organs
- identify organ-organ crosstalk particularly important in specific pathobiologies
- understand the application of novel methods to study organ-organ crosstalk

This symposium will present the emerging field of organ-organ crosstalk, focusing on its pivotal role in pulmonary pathobiology. Understanding the complex interactions between the lungs and other organs can provide critical insights into disease mechanisms and therapeutic approaches. The session aims to bring together leading researchers to discuss the latest discoveries, technological advancements, and clinical implications of organ-organ communication in respiratory health and disease.

- 11:00 The Lung-Kidney Axis: Interactions and Implications in Pulmonary and Renal Pathophysiology
- 11:18 The Lung-Gut Axis: Microbiome Interactions and Their Impact on Pulmonary Health
- 11:36 Lung-Bone Marrow Crosstalk: Immune System Interactions in Pulmonary Health and Disease
- 11:54 Neuro-Respiratory Interactions: The Role of the Brain in Pulmonary Health and Disease
- 12:12 Lung-Liver Crosstalk: Lung Conversations with Systemic Immunity for Fighting Respiratory Infection

CLINICAL

SCIENTIFIC SYMPOSIUM

D83 POST-INFECTIOUS PULMONARY COMPLICATIONS: TB, SARS-COV-2, AND BEYOND

Assemblies on Pulmonary Infections and Tuberculosis, Respiratory Cell and Molecular Biology

11:00 a.m. - 12:30 P.M. Moscone Center  
Room 25, Hall E (North Building, Exhibition Level)

Target Audience

Basic scientists exploring models of chronic lung injury after infection; clinicians who see patients who after severe pneumonia; clinicians who practice in regions endemic for TB or are interested in bronchiectasis

Objectives

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

- understand the breadth of post-infectious pulmonary complications following infections from many different pathogens
- explore mechanisms of pathogen-mediated damage and aberrant host responses that result in remodeling that underpin the development of post-infectious pulmonary complications
- understand the abilities and limitations of current animal models and real-world patient-based clinical trials to solve existing research gaps

Continued improvements in the treatment of pulmonary infections has paradoxically resulted in a rise in survivors with post-infectious pulmonary complications (PIPCs). PIPCs have been increasingly recognized following tuberculosis and SARS-CoV-2. Independent of pathogen, most studies of pulmonary infections focus on mortality and not long-term morbidity among survivors. In this session, we establish a conceptual scope for PIPCs and discuss globally significant pulmonary pathogens, examining how these pathogens can damage different components of the lung, resulting in a spectrum of PIPCs, and explore mechanisms for the transition from acute infection to PIPC. This session summarizes highlights from a 2024 ATS Official Document, and concludes with a proposed research agenda for the audience to act upon.

- 11:00 The Broad Scope and Myriad Manifestations of Post-Infectious Pulmonary Complications
- 11:15 Walking a Tightrope: Balancing the Host Response After Pulmonary Infections
- 11:30 Preclinical Models of PIPCs: Paving the Path Forward
- 11:45 Intersecting Interstitial Lung Disease and Post-Infectious Fibrosis
- 12:00 The Vicious Vortex of Bronchiectasis: The Role of Recurrent Infections in Evolving PIPCs
- 12:15 Charting the Course for Next-Gen Clinical Trials of PIPCs

**CLINICAL****SCIENTIFIC SYMPOSIUM****D84 STRATEGIES TO IMPROVE  
PATIENT-CENTEREDNESS AND  
DIVERSITY IN CLINICAL TRIALS OF  
OSA CARE****Assembly on Sleep and Respiratory Neurobiology****11:00 a.m. - 12:30 P.M.****Moscone Center****Room 201-202 (South Building, Level 2)****Target Audience**

This symposium is targeted at researchers and clinicians who conduct clinical trials in sleep medicine or implement evidence from trials.

**Objectives**

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

- better understand current best practices around including patients in trial design and leadership
- apply best practices to improve trial generalizability and reach marginalized communities
- apply practical strategies to implement best practices around patient engagement in OSA trials

As we design new clinical trials for OSA, there are increasing calls to include patients who are representative of those we care for in usual practice, including patients with symptoms and those of underserved racial and ethnic minority groups. Past efforts to include such patients have been limited in part due to the burdens of trial participation and ineffective patient outreach. To develop high-quality evidence, it is critical that we understand and overcome challenges to recruitment and retention. Through state-of-the-art reviews and an in-depth panel discussion, trialists and patients will review strategies to design randomized trials with patients in mind.

**11:00 Achieving Patient Involvement in Trial Design and Leadership****11:15 Patient-Centered Design of Clinical Trials****11:30 Recruiting Diverse Populations****11:45 Expanding Population Reach with Pragmatic Trial Designs****11:55 Panel Discussion: Engaging Patients and Communities in Trial Design and Completion****12:00 Panel Discussion: Engaging Patients and Communities in Trial Design and Completion****12:05 Panel Discussion: Engaging Patients and Communities in Trial Design and Completion****12:11 Panel Discussion: Engaging Patients and Communities in Trial Design and Completion****12:16 Panel Discussion: Engaging Patients and Communities in Trial Design and Completion****12:21 Panel Discussion: Engaging Patients and Communities in Trial Design and Completion****CLINICAL • TRANSLATIONAL****CLINICAL TOPICS IN PULMONARY MEDICINE****D85 RESPIRATORY MANIFESTATIONS OF  
ANCA-ASSOCIATED VASCULITIS:  
LESSONS FROM RECENTLY  
COMPLETED RCTS****Assemblies on Clinical Problems, Allergy, Immunology and Inflammation, Critical Care****11:00 a.m. - 12:30 P.M.****Moscone Center****Room 215-216 (South Building, Level 2)****Target Audience**

Clinicians caring for patients with symptoms involving the upper and/or lower respiratory tract, clinical and translational researchers

**Objectives**

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

- increase recognition of respiratory manifestations of ANCA-associated vasculitis
- apply new treatment approaches to respiratory manifestations of ANCA-associated vasculitis
- improve the quality of life/health status of patients with respiratory manifestations of ANCA-associated vasculitis through minimization of systemic glucocorticoids

Respiratory manifestations of ANCA-associated vasculitis (AAV) are commonly the presenting features of the disease and significantly impact quality of life. However, effective treatment options for ENT and lung features of AAV have historically been very limited, and they have rarely been the focus of trials. In this session, we will review results of multiple recent randomized controlled trials that have provided data on new treatment options for these challenging issues.

- 11:00 A Patient's Perspective**
- 11:05 Expanding Therapeutic Options in EGPA (Eosinophilic Granulomatosis with Polyangiitis) - Review of Recent Trial Findings in the Management of EGPA, Including Choosing Between Benralizumab and Mepolizumab, Role of Other Systemic Immunosuppression and Local Therapies**
- 11:20 Approach to Interstitial Lung Disease and Pulmonary Parenchymal Involvement in ANCA-Associated Vasculitis**
- 11:35 New Insights into Diffuse Alveolar Hemorrhage Due to ANCA-Associated Vasculitis**
- 11:50 Interventions for Airway Involvement in ANCA-Associated Vasculitis**
- 12:05 Maintenance of Remission in ANCA-Associated Vasculitis: Who, When, With What, and Why?**
- 12:20 Questions & Discussion**

### BEHAVIORAL

### SCIENTIFIC SYMPOSIUM

## D86 COMMUNITY ENGAGEMENT FOR PULMONARY AND ENVIRONMENTAL HEALTH RESEARCH: LESSONS LEARNED FROM COMMUNITY PARTNERS, SITE ACCESS, AND RECRUITMENT

Assemblies on Environmental, Occupational and Population Health, Behavioral Science and Health Services Research

11:00 a.m. - 12:30 P.M.

Moscone Center

Room 3005/3007 (West Building, Level 3)

### Target Audience

Pulmonary and critical care clinicians; clinical epidemiology researchers; environmental health scientists, trainees

### Objectives

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

- understand the ethical arguments for the importance of community engagement in environmental health research
- compare how community engagement strategies differ across research and cultural contexts (e.g., Border, global, and Indigenous research foci)

- increase confidence in discussing community engaged research opportunities with patients and communicating the results of community-engaged results to patients in relevant communities

As environmental health problems become increasingly complex, successful community partnerships are vital to impactful research. However, real world challenges and logistical barriers to carrying out community engagement research protocols are not well documented in peer-reviewed literature. This session offers insights regarding both successes and failures in pulmonary and environmental health research with community engagement approaches across public, border, global, tribal health, and even from a patient's perspective. The symposium will include multidisciplinary insights into how best to approach community engagement in environmental health research, including implementation science and bioethics and policy considerations.

### 11:00 Session Introduction

### 11:05 A Community-Based Organization's Perspective on Environmental Health Research

### 11:20 The Binational Early Asthma and Microbiome Study: Prioritizing Consistent Data Collection across the US-MX Border

### 11:32 From Household Air Pollution to Mentored Tuberculosis Research in Uganda

### 11:44 The Healthy Hogans Project: Collaborating with the Navajo Nation to Install Air Cleaners inside Navajo Homes

### 11:56 Engaging Communities: Implementing Approaches to Participatory Research in Respiratory Health

### 12:08 The Ethical Importance of Community Partnerships: Challenges and Opportunities

### 12:20 Discussion

### CLINICAL • TRANSLATIONAL

### MINI SYMPOSIUM

## D91 IMAGING-BASED ADVANCES IN FIBROTIC ILD

11:00 a.m. - 1:00 p.m.

Moscone Center

Room 3014/3016/3018 (West Building, Level 3)

### 11:00 Spaidnet: A Deep Learning-Based Imaging Classification Framework for Interstitial Lung Disease Developed and Validated in a Multicenter Prospective Cohort Study



- 11:12 E-Lung Biomarkers Are Associated With Future Progressive Pulmonary Fibrosis Independent of UIP Status on CT
- 11:24 Baseline Quantitative CT Predicts Rate of Decline in Forced Vital Capacity and Clinically Relevant Outcomes in Patients With Progressive Pulmonary Fibrosis: Results From the INBUILD Trial
- 11:36 A Baseline HRCT Deep Textural Analysis Fibrosis Score of = 10% in RA-ILD Is Associated With an Increased Risk of All-cause Mortality
- 11:48 Prevalence and Characteristics of Interstitial Lung Abnormalities by Radiologist Report and Quantitative Imaging Analysis in a Lung Cancer Screening Cohort
- 12:00 Effect of Nintedanib on Quantitative CT in Patients With Progressive Pulmonary Fibrosis: Results From the INBUILD Trial
- 12:12 Establishing Quantitative CT Thresholds for Monitoring Progressive Pulmonary Fibrosis: Minimal Clinically Important Difference at One-year and Early Prediction at Six-month Follow-ups
- 12:24 Deep Learning-Based Quantitative CT and CT Phenotype Classification Independently Predict Mortality in Idiopathic Pulmonary Fibrosis, a Prospective Observational Cohort Study
- 12:36 Deep Learning-Based Short-Term Disease Progression Evaluation Supersedes Automated Baseline CT Phenotype in Predicting Outcomes in Idiopathic Pulmonary Fibrosis
- 12:48 A Quantitative Imaging Measure of Progressive Pulmonary Fibrosis

**CLINICAL • TRANSLATIONAL****MINI SYMPOSIUM****D92 BIOMARKERS AND PREDICTIVE TOOLS IN COPD**11:00 a.m. - 1:00 p.m. **Moscone Center**

Room 3000/3002/3004 (West Building, Level 3)

- 11:00 Immune Cell Ratio Biomarkers of Non-type 2 Inflammation in COPD
- 11:12 Effect of Tezepelumab on Inflammatory Biomarker Levels and on Exacerbation Rates by Baseline

Inflammatory Biomarker Levels in Patients With Moderate to Very Severe Chronic Obstructive Pulmonary Disease: Results From the COURSE Study

- 11:24 Novel Assessment of Pulmonary Arterial Volume Associates With Cardiovascular Morbidity and Mortality in Patients With Preserved Ratio Impaired Spirometry (PRISm)
- 11:36 Mucus Plugs and Exacerbations in People Exposed to Tobacco With Preserved Spirometry and Preserved Ratio and Impaired Spirometry (PRISm)
- 11:48 Prediction of 5-Year Mortality in COPD Using Visual Measures of Structural Changes on Chest CT
- 12:00 Plasma Metabolomics and Long-term Mortality in Current and Former Tobacco Cigarette Users by Lung Function Impairment: A SPIROMICS Analysis
- 12:12 Distinct Senescence-associated Secretory Phenotype Mediators Associate With an Aging Endotype and Multiorgan Dysfunction in COPD
- 12:24 Association Between miR126 Targets and Markers of Pulmonary Hypertension in Patients With COPD
- 12:36 Identifying Biomarkers of Mild-stage Emphysema in COPD Patients Via Interpretable Machine Learning

**CLINICAL****MINI SYMPOSIUM****D93 SUPPORTING LIFE AROUND THE GLOBE: OXYGEN, VENTILATION, AND CARDIAC ARREST SCIENCE**11:00 a.m. - 1:00 p.m. **Moscone Center**

Room 2018/2020 (West Building, Level 2)

- 11:00 Heterogeneity of Treatment Effect Modeling Identifies Children Who May Benefit From Hypothermia Post-cardiac Arrest
- 11:12 Acute Respiratory Distress Syndrome (ARDS) Mortality Trends in the United States of America (USA) From 1999-2022 and Future Predictions Using Machine Learning
- 11:24 Implementation Challenges and Successes of a Multicenter, Randomized, Controlled Trial of Patients With Hypoxemic Respiratory Failure at Five Hospitals in East Africa



- 11:36 The Association of Sex and Height With Low-tidal Volume Ventilation in a Multi-center Cohort of Critically Ill Adults
- 11:48 Secondary Analyses of Pragmatic Clinical Trials to Quantify Adoption of Evidence-based Practices in Critical Care
- 12:00 Association of Oxygen Mask Type With Incidence of Hypoxia During Emergency Tracheal Intubation: A Secondary Analysis of Two Multicenter Clinical Trials
- 12:12 Global Burden of Mechanical Ventilation (GEMINI Study): An Epidemiological and Geo-economic Modelling Study
- 12:24 Dynamic Changes in Right Ventricular Function But Not Left Ventricular Function Are Predictive of Outcomes in Critically-ill Patients With Sepsis
- 12:36 Ventilator Waveform-Based Mortality Predictions in the Medical Intensive Care Unit
- 12:48 Effect of Sigh Ventilation on Postextubation Hypoxemia After Cardiac Surgery: A Randomized Clinical Trial

## BASIC • CLINICAL • TRANSLATIONAL

## MINI SYMPOSIUM

#### D94 INROADS INTO NOVEL THERAPEUTICS AND DELIVERY APPROACHES FOR PEDIATRIC LUNG DISEASES

11:00 a.m. - 1:00 p.m. Moscone Center

Room 2001/2003 (West Building, Level 2)

- 11:00 Mesenchymal Stem Cell Therapy for the Prevention of Airway Hyperreactivity Following Neonatal Continuous Positive Airway Pressure
- 11:12 Extracellular Vesicles-delivered Pathogenic Cargo Causes Genomic Instability With Premature Aging of the Cardio-Pulmonary System in Young Mice After Perinatal Obesity
- 11:24 Targeting the Pulmonary Vascular Endothelium With Charge Altering Releasable Transporters
- 11:36 Nanoparticle Delivery of FOXF1-mRNA Protects Pulmonary Endothelial Cells From Injury in Neonatal Sepsis Model

- 11:48 The Role of Senolytics in Reducing Senescence Induced by Cannabinoids and Nicotine in Prenatal Human Lung
- 12:00 Gene Therapy for Respiratory Pathology in Duchenne Muscular Dystrophy
- 12:12 The Prevalence of Vagal Nerve Stimulator-induced Sleep Disordered Breathing in Children With Refractory Epilepsy: A Retrospective Cohort Study
- 12:24 Assessment of a Valved Holding Chamber for Delivering Inhaled Medication Through a Tracheostomy Tube in a Tidal Breathing Model
- 12:36 Use of Bronchoscopic Cryotherapy for Recanalization and Cryoextraction in Pediatric Population: A Five-Year Single Center Experience
- 12:48 Featured Speaker: Gaining Mechanistic Insights, Designing Novel Therapeutics, and Engineering Precision Delivery in Pediatric Lung Diseases

## BASIC • TRANSLATIONAL

## MINI SYMPOSIUM

#### D95 HOP ON THE CABLE CAR: PHYSIOLOGICAL DRIVERS OF PULMONARY HYPERTENSION: NOVEL MODELS, METABOLISM, AND VASCULAR REMODELING

11:00 a.m. - 1:00 p.m. Moscone Center

Room 2009/2011 (West Building, Level 2)

- 11:00 The Role of Placental Growth Factor and Its Primary Receptor, Vegf Receptor 1, in Pulmonary Arterial Hypertension
- 11:12 Increased Yap Protein Expression Drives Endothelial Inflammatory Responses in Adult, but Not Juvenile Mice
- 11:24 Sema6A Deficiency Leads to Endothelial Apoptosis and Pulmonary Hypertension Via Plexin-A4/VEGFR2 Signaling
- 11:36 Small Molecule Compound BX-912 Reverses Increased Susceptibility to Pulmonary Hypertension in SOX17 Enhancer Knockout Mice

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| <p>11:48 Smooth Muscle Cell Mediated Extracellular Matrix Remodeling Drives Pulmonary Vascular Resistance in a New Model of Flow-induced Pulmonary Hypertension</p> <p>12:00 Novel Insights Into Right Ventricular Dysfunction in Pulmonary Arterial Hypertension: The Role of Mitochondrial Dysfunction and Cell Cycle Arrest</p> <p>12:12 Angiogenesis May Compensate for Thrombus Formation to Prevent Chronic Thromboembolic Pulmonary Hypertension Progression</p> <p>12:24 Increased Lactate Can Promote Histone Lactylation in Failing Right Ventricular Cardiomyocytes in Pulmonary Arterial Hypertension</p> <p>12:36 Precision-cut Lung Slices Modeling of Pulmonary Hypertension and Translational Implications</p> <p>12:48 Regulatory Impact of Arnt and Sox17 on Metabolic Reprogramming in Pulmonary Hypertension</p> | <p>12:00 Longterm Protective Effect of 13- Valent Pneumococcal Conjugate Vaccine Against Experimental Carriage Following Rechallenge With Streptococcus Pneumoniae Serotype 6B in Blantyre Malawi: A One-year Follow-up of a Randomised Controlled Trial and Controlled</p> <p>12:12 Focusing on Host Factors in Lower Respiratory Tract Infections: Now and Future</p> <p>12:24 Moving Towards Personalization in Immunization Against Streptococcus Pneumoniae?</p> <p>12:36 Lower Airway Dysbiosis Alters Host-microbiota Response to Staphylococcus Aureus Pneumonia in a Pre-clinical Model</p> <p>12:48 Application of Different Sample Types Using Metagenomic Next-generation Sequencing to Detect Pathogens in Severe Pneumonia Patients With Invasive Mechanical Ventilation</p> |
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**CLINICAL****MINI SYMPOSIUM**

**D96 PNEUMONIA'S SECRET RECIPE: A PINCH OF MICROBIOME, A DASH OF HOST FACTORS, AND A SHOT OF VACCINE**

11:00 a.m. - 1:00 p.m. Moscone Center

Room 2014/2016 (West Building, Level 2)

- 11:00 Omadacycline for Community-acquired Bacterial Pneumonia (OPTIC-2): A Phase 3b Randomized, Double-blind, Multicenter, Controlled, Noninferiority Trial
- 11:12 Trends in Aspiration Pneumonia and Dysphagia Related Mortality Among Older Adults in the United States: A Retrospective Analysis From 1999 to 2022
- 11:24 Machine Learning to Predict the Onset of Ventilator-associated Pneumonia Using Electronic Health Record Data
- 11:36 Machine Learning to Predict Successful Cure in Critically Ill Community-Acquired Pneumonia Patients
- 11:48 GLP-1 Agonists Do Not Increase Risk of Bacterial Pneumonia in Obese Patients: A Real-world Retrospective Multicenter Study

**BASIC • CLINICAL • TRANSLATIONAL****MINI SYMPOSIUM**

**D97 IMMUNE-EPITHELIAL INTERACTIONS AND LUNG REPAIR IN INJURY AND REPAIR**

11:00 a.m. - 1:00 p.m. Moscone Center

Room 3001/3003 (West Building, Level 3)

- 11:00 Disrupting Cellular Microenvironments to Treat Chronic Lung Disease
- 11:12 Profibrotic Monocyte-Derived Alveolar Macrophages Are Associated With Disease Severity in Patients With Systemic Sclerosis-Associated Interstitial Lung Disease
- 11:24 Maintenance DNA Methylation Is Required for Induced Regulatory T Cell Function Following Influenza Induced Lung Injury in Young Adult Mice
- 11:36 Investigating the Role of Pulmonary Ionocytes in Airway Function Using iPSC-derived Airway Epithelium
- 11:48 Impaired Resolution of Flu-induced Lung Injury in Sickle Cell Disease

- 12:00 Surviving Alveolar Epithelium Spontaneously Regains Barrier Function After Severe Lung Infection: Direct Evidence and Mechanisms From Live Lung Imaging
- 12:12 Macrophage-Epithelial Communication Determines Lung Mechano-Immune Responses to Hyperinflation
- 12:24 Uncovering Mechanisms of Lung Epithelial Injury in Acute Lung Transplant Rejection Using Organoids From Bronchoalveolar Lavage Fluid
- 12:36 Inhibition of MMP12 Prevents Macrophage Influx to the Lung, Preserves Alveolarization, and Maintains Lung Matrix in a Hyperoxia-based Model of Bronchopulmonary Dysplasia
- 12:48 The Host Ubiquitin E3 Ligase ARIH2 Reduces Influenza A Virus Replication in the Airways and Mitigates Disease Progression in Mice

BASIC • CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

## D98 TRACING THE SCAR IN INTERSTITIAL LUNG DISEASES

11:00 a.m. - 1:00 p.m. Moscone Center

Room 3006/3008 (West Building, Level 3)

- 11:00 ACD Gene Variants of Unknown Significance and Variable Presentations of Pulmonary Fibrosis
- 11:12 Cell Type-specific Role of Circadian Clock Transcription Factor REV-ERBa in Pulmonary Fibrosis
- 11:24 Molecular and Mechanical Biomarker Integration in a Preclinical Lung Model to Advance Anti-Fibrotic Therapies
- 11:36 Metabolomic Signatures Linked to HRCT-defined Disease Phenotypes in Progressive and Stable Fibrotic Lung Diseases
- 11:48 Multifunctional Xe MRI to Assess Alveolar Microstructure and Gas-exchange in Women With Lymphangioleiomyomatosis
- 12:00 A Comparative Study With ING-006, Nintedanib, Nerandomilast and Bexotegast Using the In Vivo CAM-Patient-Derived IPF Model

- 12:12 ING-006, A Novel Oral GPR40/GPR84 Fatty Acid Receptor Modulator: A Comparative Study With Nintedanib and Nerandomilast (BI-1015550) in Bleomycin-induced Lung Fibrosis and CAM-IPF Xenograft Models
- 12:24 The AIR Phase 2 Trial of the Angiotensin II Type 2 Receptor Agonist, Buloxibutid, in Individuals With Idiopathic Pulmonary Fibrosis: A Responder Analysis
- 12:36 Multi-material 3D Bioprinting of Complex Constructs for In-vitro Mechanobiology Studies in Pulmonary Fibrosis
- 12:48 The Risk Stratification Score, a New Staging System for Idiopathic Pulmonary Fibrosis: Final Data of the Discovery Cohort

BASIC • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

## D101 DISCOVERY OMICS AND COMPUTATIONAL STRATEGIES IN LUNG DISEASE RESEARCH

11:00 a.m. - 1:00 p.m. Moscone Center

Room 3022/3024 (West Building, Level 3)

- Poster Viewing 11:00-11:45
- Discussion 11:45-1:00
- 1001 Th1, Th2, and Th17-related Polygenic Risk Scores Correlate With Proteomics Biomarkers of Response to Respiratory Biologics
- 1002 In Children With Asthma, GSDMB Polymorphism rs7216389 Is Associated With Severe Exacerbation History, Rhinovirus Replication in Bronchial Epithelium, and Epithelial Proinflammatory Cytokine Responses to Rhinovirus
- 1003 Metabolic Reprogramming in Asthma
- 1004 Identification of Gene-by-Asthma Interaction Effects on Blood Eosinophil Levels
- 1005 RNA Sequencing Analysis of Nasal Brushings From Participants Administered Rilzabrutinib 1200 MG Demonstrated an Impact on Multiple Pathways Relevant for Asthma

- 1006 Mature MicroRNA-1 Levels as a Diagnostic Biomarker for Response to Anti-IL-5 Therapy in Asthma
- 1007 Asthma Patients With Isolated Sputum Eosinophilia Exhibit Distinct Nasal Gene Expression Profile
- 1008 Mast Cells Modulate the Transcriptome of Epithelial Subpopulations in Model of the Airway Epithelial Microenvironment
- 1009 Single Cell Analysis of Peripheral Blood Reveals Immune Cell-specific Expression Profiles Predictive of Clinical Outcomes in Fibrotic Hypersensitivity Pneumonitis
- 1010 Common Biomarkers of Idiopathic Pulmonary Fibrosis and Systemic Sclerosis Based on WGCNA and Machine Learning
- 1011 Single Cell Analysis Reveals Distinct CD4+ T-cell:CD14+ Monocyte Communication in Fibrotic Pulmonary Sarcoidosis
- 1012 International Multi-cohort Analysis Identifies Novel Framework for Quantifying Immune Dysregulation in Sepsis
- 1013 Multi-cohort Analysis of Heat and Moisture Exchange (HME) Filter Fluid Proteomic Profiles Identifies Unique Signals Compared to Plasma Measurements in Acute Respiratory Distress Syndrome
- 1014 Genetic Variation in the Alternative Complement Pathway and Risk for Sepsis and Bacteremia in the Veterans Affairs Million Veteran Program
- 1015 Proteomic Profiling of Interstitial Lung Abnormalities: Insights From the NELSON Trial
- 1016 Single-cell Transcriptomics Identified Fpr3+ Monocyte-derived Dendritic Cells in Idiopathic Pulmonary Fibrosis
- 1017 High Airway TSLP Levels in Asthma Associate With Higher Scores for Mucus Plugging and Air Trapping
- 1018 Precision Imaging Meets Lung Transplantation: Hyperpolarized Gas Magnetic Resonance Imaging and Transcriptomic Signatures Transform Rejection Detection
- 1019 Severe-or-Mild Transcriptomic Score Is Associated With Asthma Severity at Baseline, Exacerbations, and Treatment Response to Monoclonal Antibodies

- 1020 Kynurenine-Driven Metabolic Rewiring of CD4 T Cells in Critical Illness and Severe Sepsis Promotes Immunoparalysis and Associates With Poor Clinical Outcomes
- 1021 Salivary Dipeptidyl Peptidase-1 and Derived Proinflammatory Markers in Primary Ciliary Dyskinesia Patients: Implications for Brensocatib Therapy
- 1022 Contrastive Machine Learning Reveals the Molecular Profile of Omalizumab Responders in Type 2 Asthma
- 1023 An Integrative Multi-omics Approach to Discover and Predict Adrenal Suppression in Adults Taking Inhaled Corticosteroids for Asthma
- 1024 Asthma Exacerbations: Integrative Analysis of Mirna Activity in Using Single-cell Transcriptomics
- 1025 Spatial Transcriptomics Insights Across a Spectrum of Airway Diseases

## BEHAVIORAL • CLINICAL

### POSTER DISCUSSION SESSION

## D102 IMPORTANT TOPICS IN CRITICAL AND ACUTE CARE

11:00 a.m. - 1:00 p.m.

Moscone Center

Room 3010/3012 (West Building, Level 3)

Poster Viewing 11:00-11:45

Discussion 11:45-1:00

- 501 Amitriptyline Versus Placebo in Addition to Speech Pathology for Inducible Laryngeal Obstruction: A Double-blind Randomised Controlled Trial
- 502 Clinicians' Attitudes About and Recommendations for Strengthening Interprofessional Teamwork to Support Surrogate Decision Makers of Critically Ill Patients in the ICU
- 503 Families' Preferred Information, Resources, and Supports During Decision-making for Prolonged Mechanical Ventilation and Throughout Chronic Critical Illness
- 504 Characterizing the Documentation of Time-limited Trials in Goals of Care Notes

- 505 Temporal Trends in Specialty Palliative Care Consultation During Hospitalization for Acute Respiratory Failure Among Patients With Chronic Illness
- 506 Understanding Critical Care Mortality Implications of a Proposed Resource Allocation Policy Using Microsimulation
- 507 Characterizing Variation in Documented Delivery of Spontaneous Awakening Trials Across Five Health Systems
- 508 Nudges in Critical Care: A Multi-Institutional Exploratory Qualitative Study
- 509 Five Years of ATS ICU-PAUSE for ICU-to-Ward Handoffs: How Implementation Adaptations Informed Best Practices for the Future
- 510 Comparing Academic and Community Critical Care Clinicians' Knowledge and Attitudes, ARDS Management Practices, and the Effect of the COVID-19 Pandemic: A Multicenter, Multidisciplinary Survey
- 511 An Audit of the Supply and Demand of Oxygen, and Outcomes of Hypoxemic Patients, at Queen Elizabeth Central Hospital (QECH), Malawi
- 512 The Epidemiology of Urine Drug Screening in Mechanically Ventilated Adults, 2016-2022
- 513 Leveraging Electronic Health Record Review to Identify Root Causes of Unplanned Intensive Care Unit Admissions
- 514 Characterizing the Built Environment of the Intensive Care Unit: A Focus on Spaces Used for Family Communication
- 515 Primary Care Follow-up After Pediatric Intensive Care Unit Hospitalization
- 516 Practice Patterns of Potassium-binding Agent Use for Severe Acute Hyperkalemia in Intensive Care Units
- 517 A Multidisciplinary Approach to Reducing Hospital Acquired Pressure Injuries in Intensive Care Units
- 518 Measurement Error in Hospital-free Days After Prolonged Acute Mechanical Ventilation
- 519 Peri-discharge Care Coordination After Sepsis Hospitalization

- 520 Hispanic Family Member Experiences in Intensive Care Units: A Qualitative Study
- 521 Assessing Disparities in Timeliness of Sepsis Care Delivery Across Patient Demographics in a Community Teaching Hospital
- 522 Addressing Sociodemographic Disparities in Decisions to Withhold or Withdraw Life-sustaining Treatment
- 523 Established Statistical Methods for Estimating the Impact of Knowledge Generation and Implementation Efforts
- 524 Palliative Care Team Integration Following Rapid Response Event: A Missed Opportunity?

## CLINICAL

## POSTER DISCUSSION SESSION

### D103 CASE REPORTS IN INTERVENTIONAL PULMONARY

11:00 a.m. - 1:00 p.m.

Moscone Center

Room 2002/2004 (West Building, Level 2)

Poster Viewing

11:00-11:45

Discussion

11:45-1:00

- 601 The Utility of Four-dimensional Computed Tomography With Shuttle Scanning for Identifying the Causative Vessels of Hemoptysis - A Case Series
- 602 Insult to Injury: Herpes Simplex Virus-induced Airway Obstruction Complicating Post-traumatic Bronchial Stenosis - A Rare Case
- 603 A Novel Approach of Robotic Bronchoscopy-assisted Transbronchial Antifungal Injection to Treat Pulmonary Mycetoma-associated Hemoptysis: Retrospective Case Series
- 604 Endobronchial Primary Pulmonary Leiomyoma Causing Recurrent Pneumonia
- 605 Combination of Tumor Debulking With Endobronchial Voriconazole Instillations to Treat Aspergilloma
- 606 Thoracic Splenosis: A Rare Diagnosis Pulmonologists Need to Be Aware Of



- 607 The Airway “Got the Nerve”: The Removal of an Incidental Endobronchial Schwannoma
- 608 Persistent Pneumatocele and Associated Effusion After Endobronchial Valve Placement
- 609 Bridging the Gap: Innovative Closure of a Broncho-Esophageal Fistula With a PFO Occluder Device
- 610 Management of Massive Hemoptysis Through Bronchoscopy in a Remote Region of Nepal: A Case Report
- 611 Shedding Light on HPV-Driven Lung Cancer: A Case of In Situ Squamous Cell Carcinoma Treated With Bronchoscopic Photodynamic Therapy
- 612 Successful Use of Bioglue for Hepatobronchial Fistula
- 613 Management of Bronchoesophageal Fistula Using Fibrin Glue in a Patient With History of Lung Lobectomy and Radiation Therapy for Adenocarcinoma
- 614 A Rare Case of Tracheal Leiomyoma: Diagnosis and Management
- 615 Beyond Mechanical Extraction: Endobronchial Streptokinase as a Life-saving Intervention for Obstructive Airway Thrombus
- 616 Rare Anatomical Variants Come Together During Bronchoscopic Inspection
- 617 Novel Use of Onyx-34® and N-butyl-2-cyanoacrylate Glue for Closure of a Bronchopleural Fistula
- 618 Endobronchial Intracavitary Amphotericin B Instillation for Treatment of Aspergilloma: A Case Report
- 619 Endobronchial Hemangioma - A Rare Cause of Hemoptysis Managed With Interventional Bronchoscopic Techniques
- 620 Unusual Presentation of Iron Pill Aspiration
- 621 Successful Management of Tracheomediastinal Fistula With Massive Pneumomediastinum and Aspergillus Pneumonia
- 622 A Sarcoid-like Granulomatous Reaction Mimicking Metastatic Disease in a Patient With Bladder Cancer Following BCG Therapy
- 623 Robotic Assisted Bronchoscopy in Case of Airway Situs Inversus

- 624 Obstructive Fibrinous Tracheal Psuedomembrane After Percutaneous Tracheostomy
- 625 Hemopneumothorax, Intraparenchymal Hemorrhage, and Hemoptysis as a Complication Following Bronchoscopic Lung-volume Reduction

## CLINICAL

## POSTER DISCUSSION SESSION

### D104 A BUG’S LIFE: GREAT CASES OF INFECTIONS AND MIMICS IN THE ICU

11:00 a.m. - 1:00 p.m.

Moscone Center

Room 207-208 (South Building, Level 2)

Poster Viewing 11:00-11:45

Discussion 11:45-1:00

- 201 Man’s Best Friend: A Case of Septic Shock Secondary to Capnocytophaga Canimorsus
- 202 Vitamin Vortex: A Rare Case of Scurvy and Concurrent Deficiency
- 203 A Case of Mixed Shock Demands Anticipation of Atraumatic Splenic Rupture in Anaplasmosis
- 204 Atypical Presentation of Lemierre’s Syndrome Due to Pseudomonas Parotitis
- 205 Septic Shock as a Rare Complication of Hand-foot Syndrome, Masquerading as Necrotizing Fasciitis
- 206 A Rare Case of Disseminated Strongyloidiasis Presenting as Polymicrobial Sepsis in a Patient With Lupus: A Diagnostic Conundrum
- 207 Varicella Zoster Viral Infection Complicating Into Necrotizing Fasciitis
- 208 Rare Case of Cryptococcal Endobronchial Lesion and Meningitis
- 209 A Case of Severe Plasmodium Falciparum Malaria Treated With Artesunate
- 210 Adult-Onset Hemophagocytic Lymphohistiocytosis Triggered by Triple Co-infection: A Diagnostic and Therapeutic Challenge
- 211 Role of Intravenous Immunoglobulin in Treatment of Influenza-associated Myositis: A Case Report
- 212 Austrian Syndrome: Are We Truly Aware of the Disease Progression?

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| <p>213 Leptospira(Is) to Pulmonary Hemorrhage</p> <p>214 A Life-saving Journey: Miliary Tuberculosis as ARDS in a Newly Diagnosed AIDS Patient - Early TB Treatment Enables VV ECMO Weaning</p> <p>215 Beyond the Final Breath: Postmortem Diagnosis of Hantavirus Pulmonary Syndrome</p> <p>216 An Unfortunate Case of Pan-resistant Klebsiella Pneumoniae Bacteremia</p> <p>217 A Surprising Twist in the Case of a Patient Beyond the Brink of Illness: The Rare Culprit Behind the Colitis</p> <p>218 Severe Pulmonary Involvement in Disseminated Histoplasmosis Leading to Hemophagocytic Lymphohistiocytosis in a Kidney Transplant Recipient: A Case Report</p> <p>219 A Rare Case of Fungal Pyelonephritis</p> <p>220 When Targeted Therapy Meets Opportunistic Infection: Cryptococcosis Associated With Acalabrutinib Therapy</p> <p>221 Leptospira and Lung Complications: A Deep Dive Into ARDS and Diffuse Alveolar Hemorrhage</p> <p>222 Fatal Neuroinvasive Jamestown Canyon Virus in an Immunocompetent Patient</p> <p>223 A Rare Success: The Unexpected Role of Skin Biopsy in Diagnosing Hemophagocytic Lymphohistiocytosis After COVID-19</p> | <p>702 An 11-Year-Old Girl With Acute Respiratory Distress Syndrome and Multi-Organ Failure Caused by a Tick-Borne Illness</p> <p>703 Classic Hodgkin Lymphoma in an Adolescent With Refractory Wheeze</p> <p>704 From Breathlessness to Diagnosis: High Altitude Reveals Pulmonary AVMs and Diagnosis of Hereditary Hemorrhagic Telangiectasia</p> <p>705 Pleuroparenchymal Fibroelastosis Following Hematopoietic Stem Cell Transplant for Neuroblastoma: Report of 3 Pediatric Cases</p> <p>706 A Unique Presentation of Allergic Bronchopulmonary Aspergillosis (ABPA) in a Child with Cystic Fibrosis (CF) and Autoimmune Lymphoproliferative Syndrome (ALPS)</p> <p>707 The Use of Flexible Bronchoscopy in Localizing Lymphatic Leak in a Pediatric Patient With Plastic Bronchitis</p> <p>708 When Genetic Testing Holds the Answer - A Rare Case of Childhood Intestinal Lung Disease Due to Filamin A Deficiency</p> <p>709 Investigating WFDC2 as an Etiology of Lifelong Bronchiectasis &amp; Sinusitis: A Case Report</p> <p>710 Kleine-Levin Syndrome: A Clinical Challenge in Pediatric Hypersomnia</p> <p>711 Cervical Lung Herniation in a School-aged Child</p> <p>712 Celiac Disease Presenting as Tracheomalacia</p> <p>713 Recurrence of Subglottic Hemangioma Following Discontinuation of Propranolol Treatment</p> <p>714 When There Is No “Smoking” Gun: Exploring the Varied Etiologies of Acute Eosinophilic Pneumonia in a Teenage Female</p> <p>715 Thoraco-amniotic Shunt Placement for an Infant With Large Type 1 Congenital Pulmonary Airway Malformation (CPAM)</p> <p>716 A Case of Severe Bronchopulmonary Dysplasia With Lymphatic Phenotype</p> <p>717 A Fluid Relationship: Superior Vena Cava Syndrome and Chylothorax in Child With Sickle Cell Disease</p> <p>718 Lung Disease in Systemic Juvenile Idiopathic Arthritis: An Atypical Path to Diagnosis</p> |
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## CLINICAL

## POSTER DISCUSSION SESSION

### **D105 INTERESTING CASES IN PEDIATRIC PULMONOLOGY**

11:00 a.m. - 1:00 p.m.

Moscone Center

Room 2006/2008 (West Building, Level 2)

|                |             |
|----------------|-------------|
| Poster Viewing | 11:00-11:45 |
| Discussion     | 11:45-1:00  |

- 701 Prenatal and Postnatal Outcomes in Infants With Cystic Fibrosis Exposed to Elexacaftor/Tezacaftor/Ivacaftor (ETI) Via Maternal Therapy: A Case Series

- 719 Disseminated Mucormycosis Imitating Pulmonary Artery Embolism in a Pediatric Patient With Leukemia
- 720 Dermatologic Presentation of Pulmonary Eosinophilic Granulomatosis With Polyangiitis in a Pediatric Patient

**BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL**
**POSTER DISCUSSION SESSION**
**D106 THE PAINTED LADIES:  
LATE-BREAKING ADVANCES IN  
PULMONARY VASCULAR DISEASE:  
BASIC SCIENCE, TRANSLATIONAL,  
AND CLINICAL ADVANCEMENTS**

11:00 a.m. - 1:00 p.m.

Moscone Center

Room 3009/3011 (West Building, Level 3)

Poster Viewing 11:00-11:45

Discussion 11:45-1:00

- 901 Physical Frailty in Pulmonary Arterial Hypertension (PAH) - Exploring Sociodemographic and Clinical Associations With Physical Activity
- 902 Silencing Gq Proteins Prevents and Reverses Pulmonary Hypertension
- 903 Metabolic Reprogramming of Pulmonary Vascular Smooth Muscle Cells Promotes PAH via Activation of the Mitochondrial Unfolded Protein Response
- 904 A Human Single-cell Atlas Identifies Druggable Signaling Pathways in Pulmonary Veno-occlusive Disease
- 905 A Potent PPAR $\gamma$  Agonist Attenuates HFpEF, Pulmonary Hypertension, RV Hypertrophy and RV Transcriptomic Changes in Perinatal Nicotine Exposure in Rats
- 906 In-vitro Pathologic Flow Causes Distinct Transcriptomic Patterns and Implicates Novel Genes in the Pathogenesis of Sickle Cell Disease Associated Pulmonary Hypertension
- 907 Synthetic Tie2 Agonist AV-001 Protects Against Endothelial Cell Permeability Induced by SARS-CoV-2 Infection/COVID-19

- 908 Daratumumab Prevents Monocrotaline-induced Pulmonary Arterial Hypertension in Rats
- 909 Role of Endothelial WWOX Loss in Shaping the PAH Phenotype
- 910 Lung-Liver Crosstalk in Hepatopulmonary Syndrome: Mechanistic Insights and Potential Interventions From Novel Experimental Model
- 911 Identifying the Optimal Ultrasound Parameters for Non-invasive Cardiopulmonary Pressure Estimation Using the Subharmonic Signal of Ultrasound Contrast Agents
- 912 Ninjurin-1 Deletion Prevents Pulmonary Hypertension in the Monocrotaline Rat Model of Pulmonary Arterial Hypertension
- 913 Association Between Insulin Resistance and PAH Severity and Survival: A Point-in-time and Longitudinal Analysis
- 914 Exercise Pathophysiology in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome and Long COVID: Commonalities Detected by Invasive Cardiopulmonary Exercise Testing
- 915 The Prevalence of Pulmonary Hypertension Associated With HIV in Sub-Saharan Africa: A Significant Burden

**BASIC • CLINICAL • TRANSLATIONAL**
**POSTER DISCUSSION SESSION**
**D107 FROM HIDDEN CULPRITS TO  
DIAGNOSTIC BREAKTHROUGHS:  
UNIQUE INFECTIOUS DISEASE  
CASES**

11:00 a.m. - 1:00 p.m.

Moscone Center

Room 2022/2024 (West Building, Level 2)

Poster Viewing 11:00-11:45

Discussion 11:45-1:00

- 801 Phage Therapy Was Associated With Increased Antibiotic Resistance in a Patient With Cystic Fibrosis
- 802 From Farm to Operating Table: Pulmonary Hydatidosis in a Sheep Herder
- 803 The Leishmaniasis Enigma In Advanced HIV

- 804 A Case Report of Balamuthia Mandrillaris Infection During the Post-recovery Period of COVID-19
- 805 Out of Sight, but Keep in Mind: An Emerging Pathogen Causing Nosocomial Pneumonia
- 806 No Cap! Recurrent Pneumonia in a Young Immunocompetent Adult
- 807 Q Fever Pneumonia: Cross-reactivity and Diagnostic Complexity
- 808 Disseminated Herpes Simplex Virus in Immediate Post Lung Transplant Patient
- 809 Tuberculosis Reactivation Following Plasmapheresis and Perioperative Intravenous Immunoglobulin for Heparin-Induced Thrombocytopenia and Mechanical Mitral Valve Replacement
- 810 A Rare Case of Extra-Pulmonary Tuberculosis Presenting as Esophageal Perforation
- 811 The Perfect Storm: Diagnostic and Therapeutic Obstacles in Managing Hemophagocytic Lymphohistiocytosis in a HIV/AIDS Patient With Concurrent Miliary Tuberculosis and CMV Viremia
- 812 Antigen-specific Immunoprofiling in a Patient With Eisenmenger Syndrome, Treated Tuberculosis, and Atypical Non-tubercular Mycobacteria (NTM) Isolation Prior to Bilateral Lung Transplant
- 813 A Case of CO2 Narcosis Caused by Aspergillus Tracheobronchitis During Treatment for Malignant Lymphoma
- 814 A Squeaky Lung Mass: A Case of a Rare NTM Disease
- 815 Mining for Answers: Mycobacterium Kansasii in Black Lung Complicated by Progressive Massive Fibrosis
- 816 From Highs to Lows: Plastic Wrapper Pyopneumothorax
- 817 A Novel Clinical Presentation: First Documented Case of Candida Auris Empyema Thoracis
- 818 Pleural Mycobacterium Avium Complex (MAC) Empyema: A Rare Presentation of Disseminated Mac Infection in a Patient With Systemic Lupus Erythematosus/Dermatomyositis Overlap
- 819 Pulmonary Brucellosis as a Rare Etiology for Ground Glass Opacities in the Lung

- 820 An Open-and-Shut Case: Using Open Window Thoracostomy and Thoracomyoplasty to Tackle Pulmonary Tuberculosis Complications
- 821 Disseminated Mycobacterium Chelonae Mimicking Erythema Nodosum in a Patient With Gout
- 822 Bilateral Lung Transplantation in HIV Positive Patient With Cystic Fibrosis
- 823 Relapsed Cutaneous Tuberculosis at a Previous Drain Site: A Case Report
- 824 Intraoperative Discovery of Nephrobronchial Fistula

### BASIC • CLINICAL • TRANSLATIONAL

### POSTER DISCUSSION SESSION

## D108 CELLULAR FATE, HOST-PATHOGEN INTERACTIONS, AND ENVIRONMENTAL INFLUENCES IN AIRWAY DISEASE

11:00 a.m. - 1:00 p.m.

Moscone Center

Room 213-214 (South Building, Level 2)

Poster Viewing

11:00-11:45

Discussion

11:45-1:00

- 301 Cell-cell Communications Disrupted by Prenatal Heavy Metal Exposure During Airway Development: Insights From Single-cell Transcriptomics
- 302 Metabolic Regulation of Regulatory T Cells Through Fatty Acid Metabolism During Viral Pneumonia
- 303 Distinct Transcriptional Responses to SARS-CoV2 Infection in Adult and Infant Airway Epithelial Cells
- 304 HIF2 Activation Derails Alveolar Differentiation Through Metabolic, Biosynthetic, and Transcriptional Changes
- 305 Stable Isotope Carbon-13 Labeling for Identifying Microbial Contributions to the Lower Airway Metabolome
- 306 Membrane Tension Gates AT2 Fate Selection by Regulating FGF Signaling
- 307 Dual Oxidase 2 (Duox2) in Type 2 Alveolar Epithelial Cells Is Required to Clear Influenza A Virus

- 308 Influenza A Virus Infection Induces Temporal and Cell-specific Responses in the Human Airway Epithelium
- 309 Regional Alterations of Lung Metabolism in Murine Influenza Pneumonia Revealed by Spatial Metabolomics
- 310 Endoplasmic Reticulum Stress Regulates Epithelial Bacterial Host Defense During Influenza A Infection
- 311 Altered Bronchialbasal Cell Morphology and Growth Phenotypes in Field Carcinogenesis Correspond With Altered Notch Signaling Patterns
- 312 Pulmonary Stress Is Evident in a Patient-tailored Mouse Model of Barth Syndrome
- 313 Glutamine Enhances Tissue-resident Alveolar Macrophage Effector Response and Influenza A Replication Via MTOR Activation
- 314 Chitotriosidase in Influenza Lung Infection
- 315 Optimization of a Co-culture Model of Airway Epithelial Cells and Pulmonary Microvascular Endothelial Cells to Study the Impact of Physiological Cyclic Stretching on the Barrier Integrity: A Lung On-a-Chip Approach
- 316 High-resolution Mapping of the Rat Lung Cellular Landscape by Single-cell RNA Sequencing
- 317 Association of Source-Specific Ambient Air Pollution and Host Transcriptome in Early Stage Lung Cancer
- 318 A New Role for Bcl-2 Interacting Killer (BIK) in COVID-19 Pathogenesis
- 319 PRMT1 Deficiency in Airway Epithelial Cells Promote Lung Fibrotic Niche Formation Through Adenosine
- 320 Cigarette Smoke Induces 3'-degradation of a Tumor Suppressor MicoRNA-1
- 321 Mitochondrial Adenine Nucleotide Translocase 1 (ANT1) Deficiency Accelerates Senescence and Airway Remodeling in Lung Aging
- 322 Early-life Respiratory Syncytial Virus Infection Induces Persistent Airway Hyperresponsiveness Via Upregulating the Bruton's Tyrosine Kinase Mediated Pathway

- 323 Sustained Activation of Yap/Taz After Injury Leads to Aberrant Alveolar Differentiation and Fibrotic Remodeling
- 324 Deciphering C/EBP $\alpha$ 'S Role in Fate Plasticity in Murine and Patient Tissue Derived AT2 Cells
- 325 Spatial Transcriptomics Identify Region-specific Pathogenesis of Bronchiolar and Alveolar Disease in Primary Ciliary Dyskinesia Lungs

### BASIC • CLINICAL • TRANSLATIONAL

### POSTER DISCUSSION SESSION

## D109 THE NEW NORMAL? EARLY SIGNS OF CHRONIC LUNG DISEASE

11:00 a.m. - 1:00 p.m.

Moscone Center

Room 301-302 (South Building, Level 3)

Poster Viewing 11:00-11:45

Discussion 11:45-1:00

- 401 Assessing Post-Transplant Lung Function Alterations Using Free-Breathing Hyperpolarized Xenon MRI
- 402 Assessing the Stability of the Healthy Never-smoking Subgroup Over 12 Years and Its Effect on Reference Equations for Lung Function in a Prospective Cohort Study: The Multi-ethnic Study of Atherosclerosis Lung Study
- 403 Comparison of Healthy Reference Models for  $^{129}\text{Xe}$  Pulmonary Gas Exchange
- 404 The Impact of Transition to Race-Neutral Global Lung Function Initiative Reference Equations on Spirometry Interpretation: Marked Differences Based on Race
- 405 Exploring Small Airway Dysfunction in Pre-COPD: Insights From Parametric Response Mapping, Impulse Oscillometry, and Airway Inflammatory Profiles - A Prospective Cohort Study in an East Asian Population
- 406 Association Between Intrathoracic Fat Depots and Airway Wall Thickness: The Framingham Heart Study
- 407 Diagnostic Utility of Bronchoprovocation Tests Versus Bronchodilator Response With Feno in Asthma Diagnosis



- 408 XeLHC: Initial Impressions From Hyperpolarized  $^{129}\text{Xe}$  MRI Measurements of Regional Lung Health in Participants From the Lung Health Cohort
- 409 Subclinical Small-airway Abnormalities in Healthy Volunteers With High Type-2 Inflammation Biomarkers
- 410 Reclassification of Lung Function Using GLI Global Identifies Patients With Higher Healthcare Utilization
- 411 Multi-site Analysis of Functional Gas Exchange Measures on  $^{129}\text{Xe}$  MRI Among Healthy Volunteers
- 412 Integrative Use of Mucus Brushes, Induced Sputum, and Broncho-alveolar Lavage: Towards a Holistic Profiling of Mucins and Regional Lung Biomarkers
- 413 Quantitative CT Measures of Electronic Nicotine Delivery System Users: Investigating Structural Changes and Function
- 414 Possible Reference Ranges for Normal Pleural Fluid pH
- 415 Detecting Mirror Patients in Clinical Trials: An AI-based Approach for Identifying Implausible Similarities Across Patients
- 416 Race-Neutral Versus Race-Specific GLI Reference Equations on Spirometry Interpretation in the General Population
- 417 Association of Longitudinal Trajectory of Albuminuria With Lung Function Decline
- 418 Measurement of Airway Resistance to Identify Individuals at Risk of COPD in a Population-based Cohort Study - The Hamburg City Health Study (HCHS)
- 419 Emphysema Severity Index (ESI) in a General Population Sample: A New Spirometric Parameter
- 420 High Resolution Computed Tomography Ventilation-Perfusion Analysis in Healthy, Active Individuals With Post-COVID-19 Dyspnea
- 421 The Age-dependent Upper Limit of Normal for Hyperpolarized  $^{129}\text{Xe}$  MRI Ventilation Defect Percent in Healthy Individuals Using a Multi-center Database
- 422 Combined Effects of Air Trapping and Arterial Stiffness on Cardiovascular Response to Exercise; Occupational Secondhand Smoke Exposure

- 423 E-cigarette and Vaping Practices and Patterns Among U.S. Millennial Adults: A Preliminary Report From the American Lung Association Lung Health Cohort Study

## CLINICAL

## POSTER DISCUSSION SESSION

### D110 BEYOND THE COMMON: CHALLENGING DIAGNOSES IN THORACIC ONCOLOGY

11:00 a.m. - 1:00 p.m.

Moscone Center

Room 203-204 (South Building, Level 2)

Poster Viewing 11:00-11:45

Discussion 11:45-1:00

- 101 Double Primary Lung Adenocarcinomas Differentiated by Next-generation Sequencing: A Case Report
- 102 A Unique Case of Endobronchial Cancer and Tracheobronchial Amyloidosis
- 103 Cavitory Lymphoma: A Rare Case of a Necrotizing Pulmonary PTCL-NOS in a Young Hispanic Woman
- 104 Pembrolizumab-induced Reactivation of ANCA-associated Vasculitis Presenting With Hemoptysis and Pauci-immune Glomerulonephritis in a Patient With Metastatic Non-small Cell Lung Cancer
- 105 Can Benign Tumors Spread? A Case of Pulmonary Benign Metastatic Leiomyoma
- 106 Pulmonary Epithelioid Hemangioendothelioma Presenting as Adenocarcinoma
- 107 A Young Male With an Intrathoracic Mass: Hair in the Bronchus
- 108 Trichoptysis - A Pathognomonic Presentation of Anterior Mediastinal Teratoma
- 109 When Benign Meets Malignant: A Rare Case of Pericardial Cyst and Lung Adenocarcinoma
- 110 Choriocarcinoma Syndrome Secondary to Non-gestational Choriocarcinoma of Pulmonary Origin
- 111 Rare Presentation of Metastatic Choriocarcinoma

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- 112 **Not Just for Children: The First Reported Case of Adult Pulmonary Lipoblastoma**
  - 113 **A Case of Encasement: Pulmonary Artery Intimal Sarcoma Presenting as Submassive Pulmonary Embolism**
  - 114 **A Case of Primary Pulmonary Angiosarcoma Mimicking E-cigarette or Vaping Use-Associated Lung Injury (EVALI)**
  - 115 **Triple Threat: A Unique Case of Simultaneous Malignancies**
  - 116 **Dyspnea and Nonresolving Cough Without B-type Symptoms Leading to a Diagnosis of Fetal Adenocarcinoma of the Lung (FLAC) in Absence of Neuroendocrine Markers**
  - 117 **Thoracic Chordoma: A Rare Cause of Airway Compromise**
  - 118 **Artificial Intelligence (AI)-powered Chest X-ray in Primary Care Accelerates Time to Lung Cancer Diagnosis**
  - 119 **Coronary Air Embolism During Robotic Bronchoscopy**
  - 120 **A Rare Case of Metastatic Solitary Fibrous Tumor**
  - 121 **What Is Glowing in Your Chest?**
  - 122 **Extensive Small Cell Lung Cancer in Setting of Respiratory Papillomatosis**
  - 123 **Confusion About the Effusion: A Rare Presentation of Malignant Mesothelioma**

