

Conference Program



San Diego, CA | May 17-22
conference.thoracic.org

Welcome to San Diego and the ATS 2024 International Conference!

The conference attracts investigators, educators, and clinicians and is truly the destination for adult and pediatric pulmonary, critical care, and sleep medicine professionals at every level of their careers.

You won't want to miss the opportunities to learn, network, and connect, including the Networking Super Center and International Participants Center. The ATS International Conference draws a large, diverse group of participants, representing many disciplines and continents. We are a dedicated and collegial community helping the world to breathe.

By virtue of its size — ATS 2024 will feature more than 6,500 original research projects and case reports, 400-plus sessions, and over 1,000 speakers — participants can attend sessions and special events from early morning to the evening. At ATS 2024 there will be something for everyone.

Don't miss the following important events:

- Saturday's **Opening Ceremony** featuring a keynote presentation by William Flanary, MD — aka Dr. Glaucomflecken. Dr. Flanary is an ophthalmologist and comedian. He moonlights as "Dr. Glaucomflecken," a social media personality who creates medical-themed comedy shorts for more than 5 million social media followers.

- Celebrate the 20th anniversary of The **ATS Research Program at the Benefit** on Saturday evening where you can reconnect with old friends and make new ones.
- The **Keynote Series** Sunday through Tuesday mornings features incredible talks on AI in medicine, the history of the ICU, and immigrant health care.
- **Respiratory Health Awards** including the Trudeau Medal, Distinguished Achievement Awards, and Amberson Lecture.
- **ATS Plenary Session**, which will feature a discussion of orangutans and respiratory disease.
- **Assembly Membership Meetings and Networking Super Center**, which are open to all attendees and allow for interacting with your peers with similar interests.
- In the **Exhibit Hall** starting on Sunday, May 19, exhibitors will showcase new products and services for clinicians with specialties in pulmonary, critical care, and sleep medicine.
- The **Diversity Forum** focuses on diversity within the fields of pulmonary, critical care, and sleep medicine and research. Get your tickets for this event, which takes place on Sunday, May 19.

These events create a sense of community among the International Conference attendees, which is precisely what our founders hoped

for when they established the world's first respiratory society.

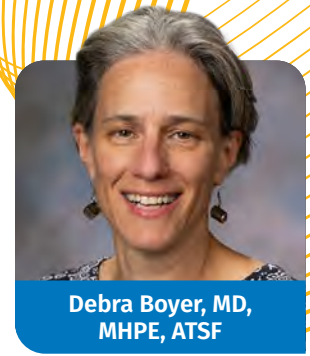
Your ATS 2024 conference registration grants you access to the ATS 2024 Highlights: On Demand including:

- The Opening Ceremony and Plenary Session.
- 13 Live-Streamed Sessions, including the Keynote Series.
- Clinical Year in Review Sessions. Adult Clinical Core Curriculum Sessions.

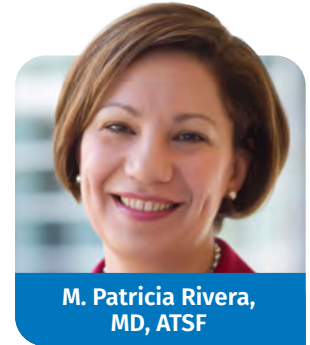
Additional recordings will be available beginning Wednesday, May 29.

Help us acknowledge the hard work and outstanding efforts of our members, our sponsors, the International Conference Committee, the Steering Committee on Advancement and Learning, Assembly Program Committees, and ATS staff. The success of our conference depends on the dedication, creativity, and support of these individuals.

We welcome you to the International Conference and hope you take advantage of all San Diego has to offer. 🍌



Debra Boyer, MD,
MHPE, ATSF



M. Patricia Rivera,
MD, ATSF

M. PATRICIA RIVERA, MD, ATSF
President

DEBRA BOYER, MD, MHPE, ATSF
Chair, International Conference Committee



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 18. Those registering for PG1A will be registered for PG1A and PG1B. Pre-registration and additional fees required. Attendance is limited.

Member: \$1230	In-Training Member: \$935
LMIC Member: \$1,165	LMIC In-Training Member: \$655
Non-Member: \$1640	In-Training Non-Member: \$1060

Assembly on Critical Care

**8:00 a.m. - 4:00 p.m. San Diego Convention Center
Room 9 (Upper Level)**

Target Audience

Providers of critical care or emergency medicine

Objectives

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

- apply ultrasound at bedside to assess critically ill patients
- 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 Welcome and Introduction to Critical Care Ultrasound: Training and Competency**
- 8:20 Basic Physics, Artifacts, and Knobology**
- 8:45 Transthoracic Windows and Views**
- 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

This session and the International Conference are supported by an in-kind grant from FujiFilm/Sonosite, 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
POSTGRADUATE COURSE

PG2 BRONCH DAY 2024: A COMPREHENSIVE, HANDS-ON GUIDE TO BASIC BRONCHOSCOPY, EBUS, AND GUIDED BRONCHOSCOPY

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

Member: \$620	In-Training Member: \$395
LMIC Member: \$435	LMIC In-Training Member: \$280
Non-Member: \$725	In-Training Non-Member: \$520

Assemblies on Clinical Problems; Critical Care; Thoracic Oncology

8:00 a.m. - 4:00 p.m. San Diego Convention Center

Room 8 (Upper Level)

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 and children 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 and navigational 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 Outcomes in High Risk Patients**
- 8:55 Role of Flexible Bronchoscopy in Management of Hemoptysis**
- 9:20 Pediatric Flexible Bronchoscopy for the Adult and Pediatric Bronchoscopist**
- 9:45 Break**
- 10:00 The Fundamentals of Lineal EBUS**
- 10:25 Navigational Bronchoscopy: From Fluoroscopy to Robotics**
- 10:50 Bronchoscopic Lung Volume Reduction**
- 11:15 Lunch**

11:55 Practical Skills Session:

- Bronchoscopy With Biopsy and Needle Aspirataion of Endobroncial Lesion
- Bronchoscopic 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

1:35 Break

3:55 Questions and Wrap-Up

This session and the International Conference are supported by an independent medical educational grant from Olympus Corporation of the Americas.

This session and the International Conference are supported by in-kind grants from ERBE USA Inc, ICU Medical, Olympus Corporation of the Americas, and Pulmonx. 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 HOME MECHANICAL VENTILATION: EVIDENCE AND HANDS ON EXPERIENCE WITH THE EXPERTS

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

Member: \$620	In-Training Member: \$395
LMIC Member: \$435	LMIC In-Training Member: \$280
Non-Member: \$725	In-Training Non-Member: \$520

Assembly on Sleep and Respiratory Neurobiology

8:00 a.m. - 4:00 p.m. San Diego Convention Center

Room 4 (Upper Level)

Target Audience

Health care providers who care for patients with chronic respiratory failure including use of invasive and noninvasive ventilation in the home; physicians, advanced practice providers, nurses, respiratory therapists, fellows

Objectives

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

- know evidence based management of chronic hypercapnic respiratory failure syndromes including neuromuscular disease, hypercapnic COPD, obesity hypoventilation syndrome
- learn strategies in transitioning patients with chronic respiratory failure from hospital to home
- develop expertise on management of non-invasive and invasive ventilation including advanced respiratory assist devices and home mechanical ventilators

This combined didactic and skills-based course aims to highlight state of the art, evidenced based management of chronic respiratory failure syndromes including neuromuscular disease, hypercapnic COPD, obesity hypoventilation, and other hypoventilation disorders. The skills-based section will focus on state of the art management of invasive and noninvasive ventilation including home mechanical ventilation and daytime ventilation practices. Attendees will have the opportunity to become familiar and comfortable with device algorithms, modes, interpretation of device downloads, and apply these skills towards specific disease states to optimize patient care.

- 8:00 Introduction**
- 8:05 Initiation of NIV in Neuromuscular Disease: Lung Function, Insurance Stipulations, and More**
- 8:40 Is the Sleep Lab Needed for Initiation and Titration of NIV?**
- 9:15 Pressures, Volumes, and Algorithms: Does Ventilator Mode Matter?**
- 9:50 Break**
- 10:10 Can PAP and NIV Keep COPD Patients Out of the Hospital?**
- 10:45 Smoothing Transitions From Hospital to Home for Serious Respiratory Disorders**
- 11:20 What Is the Role of Tracheostomy for Chronic Respiratory Failure in 2024?**
- 11:55 Lunch**
- 12:45 Practical Skills Session:**
- Respiratory Assist Devices (ST/VAPS)
 - Home Mechanical Ventilators and Daytime/Sip Ventilation (Vivo45, Luisa, and VOSCN Ventilators)
 - Home Mechanical Ventilators and Daytime/Sip Ventilation (Astral and Evo Ventilators)
 - Mastering Downloads for Home Ventilators
 - Mechanical Airway Clearance Devices

2:30 Break

*This session and the International Conference are supported by in-kind grants from **Baxter and React Health**.*

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CLINICAL

POSTGRADUATE COURSE

PG4 PEDIATRIC ADVANCED DIAGNOSTIC AND INTERVENTIONAL BRONCHOSCOPY

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

Member: \$620

In-Training Member: \$395

LMIC Member: \$435

LMIC In-Training Member: \$280

Non-Member: \$725

In-Training Non-Member: \$520

Assembly on Pediatrics

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

San Diego Convention Center

Room 10 (Upper Level)

Target Audience

Clinicians, Pediatric Pulmonologists, and Clinical Fellows Who Perform Bronchoscopy

Objectives

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

- describe new advanced diagnostic and interventional bronchoscopy techniques in children.
- more appropriately refer and provide care to children who could benefit from advanced diagnostic and therapeutic bronchoscopy procedures.
- define likely complications and management strategies for advanced bronchoscopic procedures in children.

This course will introduce attendees to a broad spectrum of advanced diagnostic and interventional pediatric flexible bronchoscopy techniques including cryotherapy, electrocautery and TEF repair, transbronchial biopsy, endobronchial ultrasound, navigational biopsies, and endobronchial valves. Indications, risks and benefits will be discussed as well as strategies for partnering with adult pulmonologists. This will be followed with hands-on practice under the guidance of leaders in the field of advanced pediatric bronchoscopy. The course will offer insights relevant to both trainees and experienced bronchoscopists.

8:00 The Definition, Growth, and Development of Pediatric Advance Diagnostic and Interventional Bronchoscopy

- 8:30 Flexible Bronchoscopic Cryotherapy
- 9:00 Indications and Outcomes for Endobronchial Valves in Children
- 9:30 Break
- 9:40 Endoscopic Management of Tracheoesophageal Fistulas
- 10:10 Peripheral Lung Nodule Biopsy
- 10:40 EBUS and EUS in Children
- 11:10 Management of the Complications of Advanced Procedures
- 11:40 Lunch
- 12:38 Practical Skills Session:
- Endoscopic Cryotherapy
 - Endobronchial Ultrasound
 - Endobronchial Valves
 - Navigational Biopsy
 - Endoscopic Electrocautery
 - Title Management of Complications From Advanced Procedures
- 2:05 Break

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CLINICAL

POSTGRADUATE COURSE

PG5 LET ME CATCH MY BREATH: BEST PRACTICES IN PULMONARY FUNCTION TESTING

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

Member: \$455	In-Training Member: \$265
LMIC Member: \$320	LMIC In-Training Member: \$190
Non-Member: \$560	In-Training Non-Member: \$395

Assemblies on Respiratory Structure and Function; Clinical Problems

**8:00 a.m. - 4:00 p.m. San Diego Convention Center
Room 1A-B (Upper Level)**

Target Audience

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

Objectives

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

- gain further understanding of the principles and practice of pulmonary function 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 the new technical standards published in the past several years 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 Winds of Change: Updates in Spirometry Measurement and Interpretation

8:50 Step Into My Phonebooth: Interpretation of Static Lung Volumes

9:20 Classy Gases: Diffusing Capacity Assessment and Interpretation

9:50 Break

10:05 Awww! - PFT Application in Pediatrics

10:35 The Exhalation Station – Real-time Demonstration of PFT Assessment and Troubleshooting

11:15 Panting and Ranting: Small Group PFT Case Discussions

12:15 Lunch

1:00 The Future Is Now - Use of Forced Oscillation Technique in Clinical Practice

1:30 Provocateurs in Pipes: Direct and Indirect Bronchial Challenge Testing

2:10 Break

- 2:25 **Respiration Classification - Complex Patterns in Pulmonary Function**
- 2:55 **I'll Huff and I'll Puff: Expert Panel Case Debate**
- 3:55 **Concluding Remarks**

CLINICAL
POSTGRADUATE COURSE
PG6 COPD 2024: STATE OF THE ART

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

Member: \$455	In-Training Member: \$265
LMIC Member: \$320	LMIC In-Training Member: \$190
Non-Member: \$560	In-Training Non-Member: \$395

Assemblies on Clinical Problems; Allergy, Immunology and Inflammation; Pulmonary Rehabilitation; Respiratory Structure and Function

**8:00 a.m. - 4:00 p.m. San Diego Convention Center
Room 2 (Upper Level)**

Target Audience

Clinicians, nurses, other allied health staff, researchers, investigators in basic and clinical pertinent to COPD, and sponsors of research

Objectives

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

- improve knowledge on COPD pathophysiology, clinical presentation, and assessment
- gain competence in providing pharmacological and Non-pharmacological management to patients with COPD
- recognize unmet needs for future research in the field

This course will provide a state of the art update on the understanding of the pathophysiology, clinical course, assessment and management of COPD. It will shed light on recent and ongoing clinical trials and outline evidence-based pharmacological and non-pharmacological management strategies. Attendees will be updated on understanding COPD phenotypes, endotypes and biomarkers as well as recent advances in disease management. The course will also outline unmet and future research needs.

- 8:00 **Welcome and Introduction**
- 8:05 **Immunologic Underpinnings of COPD**
- 8:20 **Shedding Light on Genetics of COPD**
- 8:35 **Role of Microbiome in COPD**

- 8:50 **COPD in Non-Smokers**
- 9:05 **Physiologic Impairment in COPD, Beyond FEV1**
- 9:20 **Questions and Answers**
- 9:35 **Break**
- 10:05 **Diagnosis of COPD: Reclassification Considerations**
- 10:25 **Informative Biomarkers in COPD: Are We There Yet?**
- 10:45 **Update on Radiologic Imaging in COPD**
- 11:05 **Revisiting COPD Exacerbations**
- 11:25 **Questions and Answers**
- 11:40 **Lunch**
- 12:40 **GOLD 2024 - What Is New?**
- 1:00 **Revisiting Inhaled Therapies for COPD**
- 1:20 **Biologics for COPD**
- 1:40 **Questions and Answers**
- 1:55 **Break**
- 2:25 **Advances in Bronchoscopic Approaches to COPD**
- 2:40 **Non-Invasive Ventilation in COPD**
- 2:55 **Telehealth and Home Pulmonary Rehabilitation**
- 3:10 **Inhaled Delivery Systems and Oxygen Therapy in COPD: Progress and Hurdles**
- 3:25 **Managing the Multimorbidity of COPD**
- 3:40 **Questions and Answers**
- 3:55 **Closing Remarks**

BASIC • CLINICAL • TRANSLATIONAL
POSTGRADUATE COURSE
PG7 A PRIMER ON HEALTH EQUITY RESEARCH FOR CLINICAL, TRANSLATIONAL, AND BASIC SCIENTISTS

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

Member: \$455	In-Training Member: \$265
LMIC Member: \$320	LMIC In-Training Member: \$190
Non-Member: \$560	In-Training Non-Member: \$395

**Assemblies on Behavioral and Health Services Research;
Respiratory Cell and Molecular Biology; Health Equity and
Diversity Committee**

8:00 a.m. - 4:00 p.m. San Diego Convention Center

Room 7A-B (Upper Level)

Target Audience

Clinicians and scientists interested in health equity research and basic or translational scientists interested in incorporating social determinants of health into preclinic research.

Objectives

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

- construct a research question grounded in equity theories and frameworks
- propose a research agenda using tailored methods that center marginalized groups
- create a dissemination plan that maximizes reach and policy impact

Marginalized patients with pulmonary, critical care, and sleep-related illnesses often experience poor health outcomes due to structural barriers to high-quality medical care. However, few scientists have formal training in health equity research methods, limiting the conduct of high-quality studies to promote equitable care. The target audience for this postgraduate course is all scientists who are new to health equity research. The overall goal is to share current best practices of health equity research. This session will leverage case studies and facilitated small group exercises to introduce principles of health equity research and allow participants to apply these principles in real time to practice developing or deepen their own research agenda.

8:00 Introduction to Seminar and Learning Objectives

8:15 Lecture and Case Study: Health Equity Research Theory and Framework

8:45 Lecture and Case Study: Hormonal Regulation of Immunity as a Contributor to Health Disparities

9:15 Breakout Session #1: Generating a Health Equity Research Question

9:45 Break

10:15 Lecture: Social Determinants of Health

10:45 Lecture: Centering the Margins

11:15 Lecture: Selecting and Applying Quantitative Methods in Equity Research

11:45 Lecture: Unique Aspects of Qualitative Methods in Equity Research

12:15 Lunch

1:15 Lecture and Case Study: A Mixed-Methods Evaluation of Disparities in Clinician Communication

1:45 Breakout Session #2: Generating a Health Equity Research Agenda

2:10 Break

2:40 Panel Discussion: Unknowns in Health Equity Research Across the Translational Research Spectrum

3:20 Breakout Session #3: Writing a Health Equity Research Proposal

3:45 Review and Wrap-up



PG1B CRITICAL CARE ULTRASOUND AND ECHOCARDIOGRAPHY II

This is part 2 of a two-part course which includes PG1A on Friday, May 17. Pre-registration and additional fees required. Attendance is limited. See PG1A for course fees.

Assembly on Critical Care

8:00 a.m. - 4:00 p.m. San Diego Convention Center

Room 9 (Upper Level)

Target Audience

Providers of critical care or emergency medicine

Objectives

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

- apply ultrasound at bedside to assess critically ill patients
- 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: DVT Evaluation

- 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 Neuro Ultrasound
- 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 CPR
 - Ask the Expert

This session and the International Conference are supported by an in-kind grant from FujiFilm/Sonosite, Inc.

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PG8 BRONCHIECTASIS AND NTM PULMONARY DISEASE: RISK FACTORS, MANAGEMENT, AND RECENT ADVANCES

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

Member: \$455

In-Training Member: \$265

LMIC Member: \$320

LMIC In-Training Member: \$190

Non-Member: \$560

In-Training Non-Member: \$395

Assembly on Pulmonary Infections and Tuberculosis

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

San Diego Convention Center

Room 6A (Upper Level)

Target Audience

Nurses, respiratory therapists, pulmonologists/respirologists, postgraduate trainees, inclusive/advanced practitioner, those seeing patients with NTM and bronchiectasis without easy or frequent access to expert guidance.

Objectives

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

- understand recent developments in translational and clinical studies related to bronchiectasis and NTM pulmonary disease
- review treatment approaches for bronchiectasis, including evolving data on etiologies, exacerbations, and suppressive inhaled antibiotics and macrolides
- become familiar with current guideline-based treatment of NTM pulmonary disease

The diagnosis and management of bronchiectasis and nontuberculous mycobacteria (NTM) pulmonary infections remains challenging due to a paucity of evidence-based management strategies. There have been recent advances in strategies to suppress and manage bacterial infections such as *Pseudomonas aeruginosa* in those with bronchiectasis, but treatment of NTM pulmonary disease remains substantially more complex. The most recent ATS/IDSA treatment guidelines for NTM pulmonary disease have aided in this insight. The session will review our current knowledge of bronchiectasis and NTM pulmonary disease epidemiology, environmental sources, etiologies, microbiome, existing and evolving therapies, and current clinical trials.

- 8:00 Introduction**
- 8:05 Epidemiology of Bronchiectasis and NTM**
- 8:35 Species and Sources of NTM Acquisition**
- 8:55 Etiologies of Bronchiectasis**
- 9:20 Bronchiectasis and the Altered Microbiome**
- 9:45 Break**
- 10:15 Airway Clearance Modalities**
- 10:50 Antimicrobial Management in Bronchiectasis: Guideline and Current Data**
- 11:15 Breakout Discussion: Bronchiectasis Cases**
- 12:00 Lunch**
- 1:00 Host Vulnerability and Screening for NTM Infection**
- 1:25 Guideline-Based Therapy: Management of MAC and MAB PD**

- 1:50 Breakout Discussion: Complex NTM Cases/What to Do When It's Not MAC or Treatment Isn't Working**
- 2:35 Break**
- 3:05 Current Clinical Trials/What Is in the Pipeline: NTM**
- 3:30 Current Clinical Trials/What Is in the Pipeline: Bronchiectasis**
- 3:55 Conclusion**

CLINICAL • TRANSLATIONAL

POSTGRADUATE COURSE

PG9 STATE OF THE ART: LUNG CANCER IN 2024

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

Member: \$455
LMIC Member: \$320
Non-Member: \$560

In-Training Member: \$265
LMIC In-Training Member: \$190
In-Training Non-Member: \$395

Assembly on Thoracic Oncology

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

San Diego Convention Center

Room 10 (Upper Level)

Target Audience

All providers caring for patients with lung nodules/lung cancer (pulmonologist, thoracic surgeons, radiation oncologist, medical oncologist, NP/PA) interested in the translational research being done in this field.

Objectives

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

- better counsel patients on lung cancer screening
- better utilize biomarkers across the spectrum of lung cancer from early detection to treatment response
- better apply recent advances and changes in the treatment of lung cancer to the care of your patients

This course will provide a comprehensive review of topics in the evaluation and management of patients with suspected and known lung cancer. We will discuss recent developments in the areas of tobacco control, updated guidelines for pulmonary nodule management and staging for lung cancer, practical tips for lung cancer screening, invasive diagnostic approaches for patients with lung nodules, biomarkers across the spectrum of lung cancer, and updates in immunotherapy for all stages of lung cancer. Attention will be given to the potential disparities in lung cancer screening, diagnosis, and treatment. Interactive tumor

boards will be held to highlight these topics and encourage participant engagement.

- 8:00 Introduction**
- 8:05 Tobacco Treatment Across the Continuum of Lung Cancer**
- 8:25 Updates in Lung Cancer Screening: Engagement, Progress, Challenges, and Disparities**
- 8:45 Lung Cancer Screening in Asia**
- 9:05 Pulmonary Nodules: Guideline and Management Updates**
- 9:30 Break**
- 9:55 Interactive Tumor Board**
- 10:25 The Molecular Basis of Lung Carcinogenesis**
- 10:50 Biomarkers Across the Lung Cancer Continuum**
- 11:15 Lunch**
- 12:15 Advances in the Bronchoscopic Treatment of Lung Cancer**
- 12:40 Lung Cancer Staging: Changes and Impact on Patient Outcomes**
- 1:05 Updates in the Medical Treatment of Lung Cancer**
- 1:30 Updates in Surgical Treatment of Lung Cancer**
- 1:55 Updates in Radiation Oncology in the Treatment of Lung Cancer**
- 2:20 Break**
- 2:40 Interactive Tumor Board**
- 3:05 The Top 5 in Thoracic Oncology**
- 3:35 Panel Discussion With the Experts**

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

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BEHAVIORAL

POSTGRADUATE COURSE

PG10 WOMEN IN MEDICINE: EMPOWERING AND DEVELOPING THE NEXT GENERATION OF WOMEN LEADERS IN MEDICINE

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

Member: \$455

In-Training Member: \$265

LMIC Member: \$320

LMIC In-Training Member: \$190

Non-Member: \$560

In-Training Non-Member: \$395

Assemblies on Critical Care; Women In Critical Care

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

San Diego Convention Center

Room 7A-B (Upper Level)

Target Audience

Women investigators at all stages (fellows, junior faculty, mid-career, senior) in medicine and leaders in pulmonary medicine invested in increasing the diversity of leadership in pulmonary and critical care medicine and sleep.

Objectives

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

- review the known gender disparities in academic medicine that exist and highlight the extent to which these disparities have been addressed
- identify common barriers to promotion in academic medicine and successful strategies to overcome them
- list actionable items to help continue growing your career in academic medicine as mid- and senior career women

Women in medicine encounter numerous and differing challenges and barriers as they strive to rise through leadership ranks within their place of work. Significant attention, especially at ATS, has focused on early career challenges and transitions from fellowship to independent practice, but little has been done to identify needs of women as they advance through subsequent career transitions and navigate new challenges and opportunities in medicine. In this session, participants will learn from leaders in medicine about the unique challenges encountered across a variety of career stages, lessons learned, and potential solutions to consider. Topics from how to become the next division chief to considering alternative career pathways will be covered.

8:00 Introductions

8:15 Women in Medicine: Where Are We Now?

- 8:35 **Breaking Barriers: Strategies for Interview Success for Division Chief or Chair Positions**
- 9:20 **Panel Discussion**
- 9:35 **How to Prepare to Lead?**
- 9:55 **Navigating Sinkholes While Shattering Glass Ceilings: Getting to Promotion**
- 10:15 **Small Group Breakout**
- 10:45 **Break**
- 10:50 **Protecting and Promoting URiM Women Faculty?**
- 11:10 **How to Get What You Want, When You Want It**
- 11:30 **Should I Leave or Should I Stay?**
- 11:50 **Lunch**
- 12:45 **Is Medicine for Me Anymore?**
- 1:05 **The Duality of Women in Medicine**
- 1:25 **Publish or Perish: The Vicious Cycle of Academic Publishing, and How to Break It**
- 1:45 **Small Group Breakout**
- 2:15 **Break**
- 2:20 **Fertility and Reproductive Health**
- 2:40 **Mid-Career Blues**
- 3:00 **Mentoring the Next Generation: Tips/Tricks**
- 3:20 **Small Group Breakout**
- 3:50 **Closing Remarks**

CLINICAL

POSTGRADUATE COURSE

PG11 STATE OF THE ART IN CARDIOPULMONARY EXERCISE TESTING: PRINCIPLES AND BEST PRACTICES

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

Member: \$455	In-Training Member: \$265
LMIC Member: \$320	LMIC In-Training Member: \$190
Non-Member: \$560	In-Training Non-Member: \$395

Assemblies on Pulmonary Rehabilitation; Clinical Problems; Respiratory Structure and Function

**8:00 a.m. - 4:00 p.m. San Diego Convention Center
Room 1A-B (Upper Level)**

Target Audience

Current and future directors of CPET labs, attending physicians, respiratory therapists, clinical physiologists, research trainees and clinical fellows, industry partners for clinical trials, other interested health care providers.

Objectives

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

- better understand the physiologic principles underlying pulmonary and cardiac function during exercise in cardiopulmonary diseases
- better understand the utility of CPET to assess safety and prescription for exercise training or pulmonary rehabilitation; stratify disease severity or prognosis; or diagnose mechanisms of exercise limitation
- develop confidence in application, practice and interpretation of CPET in clinical practice

This course focuses on cardiopulmonary exercise testing (CPET), combining education on CPET guidelines and quality control with introduction to state of the art methods for assessing the upper airway and central hemodynamics during exercise. Interpretive strategies are covered in didactic sessions and by practice-based learning in an interactive small group setting, led by content experts from around the world. The session will also include a live CPET demonstration to reinforce the practical and multidisciplinary aspects of high-quality CPET performance. The session is distinct and complementary to the postgraduate course on pulmonary function testing: delegates are encouraged to attend both to maximize learning opportunities.

8:00 Physiologic Basis for CPET

8:45 Exercise and the Heart: Invasive CPET

9:30 Break

9:45 Exercise and the Lung: Assessing DH, EIB, and the Upper Airway

10:15 Essential Exercise Assessments for Entry Into Pulmonary Rehabilitation

10:45 Conducting the Test: Practical Issues

11:15 Lunch

11:45 Demonstration: Cardiopulmonary Exercise Test With Q&A

12:30 Quality Control and Troubleshooting

1:00 Data Analysis From Graphic Display

1:30 Break

1:45 Reference Values

2:15 Typical CPET Responses Among Disease States

2:45 Making the Case

BASIC • CLINICAL • TRANSLATIONAL**POSTGRADUATE COURSE****PG12 NAVIGATING LONGITUDINAL CARE TRANSITIONS FOR INFANTS, CHILDREN, AND ADULTS WITH BRONCHOPULMONARY DYSPLASIA****📌 Pre-registration and additional fees required. Attendance is limited.**

Member: \$455	In-Training Member: \$265
LMIC Member: \$320	LMIC In-Training Member: \$190
Non-Member: \$560	In-Training Non-Member: \$395

Assemblies on Pediatrics; Clinical Problems; Critical Care; Pulmonary Circulation**8:00 a.m. - 4:00 p.m. San Diego Convention Center****Room 4 (Upper Level)****Target Audience**

Neonatal, Critical Care and Pulmonary Fellows, Neonatologists, Pediatric Pulmonologists and Critical Care, Adult Pulmonary and Critical Care, Respiratory Therapists, Neonatal, Pulmonary and Critical Care Nurses and Nurse Practitioners, Ethicists

Objectives

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

- apply evidence based approaches to guide escalation and de-escalation between non-invasive and invasive respiratory strategies when treating severe BPD
- identify care needs amongst transitions in longitudinal BPD care, including unique clinical care and support needs in ICU, inpatient, long-term care, and home settings
- identify gaps in care and develop novel integrated strategies to enhance the effectiveness of care over the lifespan as the patient moves through infant, child, adolescent, and adult care settings

This course will explore transitions of care encountered by preterm infants affected by severe bronchopulmonary dysplasia (sBPD) from infancy to childhood to adulthood. Selected topics focus on three major transition periods in patients' lives: neonatal admission/hospitalization, transition to home, and transition from pediatric to adult care. Invited faculty will review the physiological evolution during the early course of sBPD, psychosocial support for transition home with medical technology, and in-hospital through post-hospital management of sBPD at patient-based and system-based levels. The need for longitudinal monitoring and follow-up will be emphasized.

8:00 BPD Pathogenesis and Progression Across the Lifespan

8:30 Transitions From Acute to Chronic Ventilation Within 'Evolving' BPD

9:00 The Psychology of Escalating Respiratory Support: When Re-Intubation is Not a Failure

9:30 Break

9:45 NICU to PICU Transitions: Site-Specific Challenges in Chronic Respiratory Failure Management

10:15 Discharge Planning for Technology-Dependent Infants With BPD

10:45 Psychology of Transitions: How Do Families Manage Early-Life BPD Care Transitions? (Patient Panel)

11:15 Lunch

11:45 Unexpected Transitions: ICU Readmissions for Infants and Children With BPD

12:15 Development of a BPD Bounce Back Team: Addressing a Community Need for a "BPD Medical Home" Within the PICU

12:45 Approaches to Outpatient Ventilator Weaning and Decannulation Timing for Tracheostomy-Dependent Children With BPD

1:15 Should Former Premies Without BPD Be Followed by a Pulmonologist?

1:45 Break

2:00 Development of an Adult BPD Follow-Up Clinic: Is BPD Also Asthma, COPD, or COBPD?

2:30 Adult Cardiopulmonary Manifestations of BPD

3:00 Adolescence and Adult Experience: How Do Adults Living with BPD Manage Adolescent BPD Care Transitions? (Patient Panel)

3:30 Panel Introduction Regarding: A Collaborative Examination of Knowledge Gaps and Opportunities for Improvement

3:40 Panel Discussion: A Collaborative Examination of Knowledge Gaps and Opportunities for Improvement

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

POSTGRADUATE COURSE

PG13 TYPE 2 ASTHMA AND BEYOND: MOLECULAR MECHANISMS, PHYSIOLOGY, AND TREATMENT

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

Member: \$455	In-Training Member: \$265
LMIC Member: \$320	LMIC In-Training Member: \$190
Non-Member: \$560	In-Training Non-Member: \$395

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

8:00 a.m. - 4:00 p.m. San Diego Convention Center

Room 8 (Upper Level)

Target Audience

Clinicians, clinical investigators, and basic investigators focused on immune-mediated airways disease such as asthma and COPD as well as lung immunology in general.

Objectives

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

- understand mechanisms of airway inflammation with a focus on type 2 inflammation. Review methods for scientific investigation in immune-mediated airway disease such as asthma and COPD
- understand the physiology and environmental factors that drive asthma and COPD pathophysiology
- discuss the current and future state of advanced therapies for asthma and COPD. Special sessions dedication to discussion of disparities in therapy and considerations for pediatric asthma

This session will provide a state of the art summary of the current understanding of the mechanisms, physiology and management of immune mediated airway diseases such as asthma and COPD, with a focus on type 2 inflammation. The course will also present a comprehensive review of the factors that influence disease progression and the current management paradigm.

8:00 Welcome

**8:05 The Immunology of Type 2 Inflammation in Asthma:
What a Pulmonologist Needs to Know**

**8:35 Environmental and Microbiome Interactions in
Asthma: Beyond Allergens and Viruses**

9:05 Type 2 Inflammation in COPD

**9:35 Type 2 Inflammation in Non-Asthmatic Disorders -
Vasculitis, CF, Other Organs**

10:05 Break

10:20 Non-Type 2 Asthma - Mechanisms

10:50 Small Airways Dysfunction in Asthma and COPD

11:20 Molecular Phenotyping in Asthma

11:50 Lunch

1:00 Disparities in Asthma Epidemiology and Treatment

**1:30 Pediatric Asthma - Special Considerations and
Treatment**

**2:00 Current Asthma Management Highlights - Which
Biologic for Which Patient?**

2:30 New Therapeutic Targets for Asthma

3:00 Break

3:15 Case Discussion with Faculty Panel

CLINICAL

POSTGRADUATE COURSE

PG14 INTERSTITIAL LUNG DISEASE: IMPLEMENTING GUIDELINES FOR PATIENT CENTERED CARE

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

Member: \$455	In-Training Member: \$265
LMIC Member: \$320	LMIC In-Training Member: \$190
Non-Member: \$560	In-Training Non-Member: \$395

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

8:00 a.m. - 4:00 p.m. San Diego Convention Center

Room 2 (Upper Level)

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 New Guidelines for the Diagnosis of ILD**
- 8:35 Applying the Guidelines: Clinical Evaluation of the New ILD Patient**
- 9:00 Recognizing CT Patterns**
- 9:25 Risk Factors, Natural History of Disease, and Monitoring**
- 9:50 Break**
- 10:20 Critically Ill Patients with ILD and Lung Tx**
- 10:45 Speed MDD**
- 11:55 Lunch**
- 12:55 Therapies for Pulmonary Fibrosis**
- 1:20 Therapies for CTD-ILD**
- 1:45 Non-Pharmacologic Care in ILD**
- 2:10 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.

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**

PG15 YOU'RE THE SWAN THAT I WANT!: A PRIMER ON RIGHT HEART CATHETERIZATION

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

Member: \$225

LMIC Member: \$160

Non-Member: \$280

In-Training Member: \$130

LMIC In-Training Member: \$100

In-Training Non-Member: \$200

Assemblies on Pulmonary Circulation; Critical Care

12:00 p.m. - 4:00 p.m.

San Diego Convention Center

Room 6C (Upper Level)

Target Audience

Current trainees (e.g. residents and clinical fellows) and recent graduates of pulmonary/critical care medicine and critical care medicine fellowships

Objectives

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

- learn expert technique for RHC, including how to identify and prevent complications, troubleshooting, ICU-specific nuances to insertion and data interpretation, and common indications for hemodynamic monitoring in the ICU
- interpret RHC waveforms and hemodynamics, how factors including comorbid disease and mechanical ventilation can affect results, and the benefits and drawbacks of different techniques for cardiac output measurement and exercise challenge
- apply RHC data to the diagnosis and risk stratification of patients, and understand how this information can influence patient management decisions in both the inpatient and outpatient setting

This program will review the technical and procedural considerations when performing right heart catheterizations (RHCs) in the outpatient and intensive care settings, discuss interpretation of hemodynamic data and waveform analysis, and provide an overview of how these data can be synthesized to guide diagnostic and management decisions. The session will also address the emerging utility of exercise during RHC and its clinical applications. Through a combination of didactic instruction and case-based problem solving, participants will build a practical skillset that can be readily implemented in the clinical setting.

12:00 Nuts and Bolts of Performing Right Heart Catheterization

- 12:20 Case Based Discussion
- 12:45 Break
- 12:50 Waveforms, Cardiac Output Calculations and Vasoreactivity Testing, Oh My!
- 1:20 Case Based Stations: Learners Will Breakout Into Small Groups and Rotate Through Expert-Led Case "Stations"
- 1:50 Break
- 2:00 Welcome to the Jungle: RHC Applications in the ICU
- 2:20 Small Group Discussion
- 2:50 Break
- 3:00 Exercise RHC: Who, What, When, Why and How
- 3:30 Case Based Discussion

CLINICAL

POSTGRADUATE COURSE

PG16 FUNCTIONAL ASSESSMENT OF THE LUNG: A STATE OF THE ART REVIEW OF OLD AND EMERGING TOOLS

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

Member: \$225	In-Training Member: \$130
LMIC Member: \$160	LMIC In-Training Member: \$100
Non-Member: \$280	In-Training Non-Member: \$200

Assemblies on Respiratory Structure and Function; Allergy, Immunology and Inflammation; Clinical Problems; Environmental, Occupational and Population Health

12:00 p.m. - 4:00 p.m. San Diego Convention Center

Room 6D (Upper Level)

Target Audience

Clinicians, trainees and clinical researchers in pulmonary medicine, allergy/immunology occupational medicine and general internal medicine

Objectives

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

- describe how each tool assesses pulmonary function
- more appropriately apply each tool to manage individual pulmonary patients
- incorporate the tools and the new guidelines to the diagnosis and treatment of pulmonary patients

This course will use a case-based format to review the clinical tools that are currently available for assessing lung function, including pulmonary function test, oscillometry, ventilation-perfusion scan, CT scan, and functional MRI. Each session will cover the historic and the state of the art aspects of the test so the audience will have a complete understanding in how to apply these tools to their practice.

- 12:00 Pulmonary Function Test: Where Are We Today?
- 12:40 Oscillometry: A Test That Has Come a Long Way to Adults
- 1:40 Break
- 1:50 Ventilation-Perfusion Scan: Its Role in 21st Century Medicine
- 2:20 Mosaic Attenuation on CT Scan: What Does It Mean?
- 3:10 Hyperpolarized 129Xe MRI: What Additional Information Does It Provide?
- 3:50 Panel Discussion

CLINICAL

POSTGRADUATE COURSE

PG17 COMPREHENSIVE APPROACH TO MANAGEMENT OF COMMON PLEURAL DISEASES

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

Member: \$225	In-Training Member: \$130
LMIC Member: \$160	LMIC In-Training Member: \$100
Non-Member: \$280	In-Training Non-Member: \$200

Assembly on Clinical Problems

12:00 p.m. - 4:00 p.m. San Diego Convention Center

Room 6E (Upper Level)

Target Audience

Pulmonologists, thoracic surgeons, hospitalists, APPs and trainees in these fields.

Objectives

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

- apply a patient-centered approach to the management of common pleural diseases
- incorporate newer quality data and guideline recommendations into every day practice

- appropriately determine when we should intervene, when not, and when we should refer

There are some key aspects in the management of common pleural diseases that lack quality data, or for which practice remains institution and physician-dependent. It is for these that certain inaccuracies have been propagated into traditional teaching that are not backed by literature, albeit limited. Through this session, we aim to discuss the best-approach pathways for these common conditions, in an interactive, fun and educational manner.

- 12:00 Initial and Subsequent Evaluation of Pleural Effusion: What Tests Are Needed?**
- 12:20 Pragmatic Approach to Diagnosing Suspected Malignant Pleural Effusions**
- 12:40 Decision-Making Between Pleurodesis and Indwelling Pleural Catheters for the Definitive Management of Malignant Pleural Effusions**Break
- 1:00 Role of Indwelling Pleural Catheters for Palliating Recurrent Benign Pleural Effusions**
- 1:40 VATS Versus Intrapleural Enzyme Therapy First for Empyema?**
- 2:10 Non-Operative Management of Traumatic and Non-Traumatic Chylothorax**Break
- 2:30 Break**
- 2:50 Primary Spontaneous Pneumothorax: When to Intervene and How?**
- 3:10 Algorithmic Approach for Persistent Air Leaks**Case Discussion

BASIC • TRANSLATIONAL

POSTGRADUATE COURSE

PG18 PATHOPHYSIOLOGICAL MECHANISMS IN COPD FROM THE MULTI-OMICS PERSPECTIVE

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

Member: \$225	In-Training Member: \$130
LMIC Member: \$160	LMIC In-Training Member: \$100
Non-Member: \$280	In-Training Non-Member: \$200

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

12:00 p.m. - 4:00 p.m. San Diego Convention Center

Room 6F (Upper Level)

Target Audience

Health professionals who treat patients with COPD, basic researchers with expertise in lung pathophysiology, bioinformaticians with an interest in chronic lung disease.

Objectives

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

- present the latest multiomic findings as they relate to the pathobiology of COPD for all lung cellular compartments (immune, epithelium, endothelium, mesenchymal)
- define clinically relevant cellular molecular states for COPD therapeutics/biomarker development
- discuss applications of different omics modalities and exemplify the implications they can make to clinical practice

This course will shed light on the revolutionary impact that multi-omics technologies have had in understanding the major pathophysiological mechanisms of COPD. By exploring the latest findings, our goal is to highlight the implications of these advancements in clinical practice and equip participants with a comprehensive understanding at a cellular and molecular level. Through didactic lectures and interactive discussions on various technologies, including genomics, proteomics, metabolomics and the microbiome, participants will gain practical knowledge about how these technologies have the potential to impact the diagnosis, classification and development of targeted therapies, ultimately improving patient outcomes and enhancing personalized treatment approaches.

Airway Inflammation and Immunity in COPD

- 12:01 Epigenetic Regulation of Macrophage Populations in COPD**
- 12:18 Functional Remodelling of Neutrophils and Their Progenitors in Early-Stage COPD**
- 12:35 T-cell Subtypes in COPD**
- 12:52 5-Prime Sequencing and the Rold of B Cells in COPD**
- 1:09 Break**

Maintaining Distal Airway and Alveolar Homeostasis in COPD

- 1:35 Transcriptomic Signatures of Airway Inflammation in COPD**
- 1:52 Single-cell Sequencing and Impaired Maintenance of Alveolar Homeostasis**
- 2:09 Cellular Senescence and Its Impact on COPD**

2:26 Impaired Development Pathways and Distal Airway Disease

2:43 Break

Multi-Omics Applications in COPD Research

3:09 Lung Tissue Destruction in COPD With the Lens of Spatial Proteomics

3:26 COPD Genetics and the Role of Fibroblasts

3:43 Microbiome in Health and COPD

NETWORKING SUPER CENTER

Stop by one of the Learning Studios for specialized programming where you can participate in studio talks, panel discussions and networking opportunities

COLLABORATE, EDUCATE, CONNECT AND LEARN

4:30 - 5:30 p.m.

OPENING CEREMONY

San Diego Convention Center

Ballroom 20 B-D (Upper Level)

If laughter is the best medicine, Dr. Glaucomflecken has your prescription ready. William Flanary, MD - aka Dr. Glaucomflecken - will kick off the ATS 2024 International Conference as the Opening Ceremony speaker on Saturday, May 18. Dr. Flanary is an ophthalmologist and comedian. He moonlights as "Dr. Glaucomflecken," a social media personality who creates medical-themed comedy shorts to a social media audience of over five million.

His humor has been shaped by the challenges of medical school and residency, but also by his experiences as a patient. Dr. Flanary is a two-time testicular cancer survivor. He is also a cardiac arrest survivor, whose life was saved by his intrepid wife and her timely CPR. Initially used as a creative outlet to cope with these health challenges, Dr. Flanary's comedy has evolved over time to incorporate biting satire of the U.S. health care system, academic publishing, and interpersonal conflicts pervasive in the medical system. He is a frequent keynote speaker who encourages medical audiences to embrace humor in everyday life.

In his presentation, Dr. Flanary will discuss his experience as a patient and touch on social media advocacy and how to fix health care.

The Opening Ceremony will also feature:

- ATS President M. Patricia Rivera, MD, ATSF, will provide an update on accomplishments over the past year,
- Video celebrating the success of 20 years of the ATS Research Program,
- The latest class of ATS Fellows and Research Program awardees will be recognized, and
- 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.

Be sure to join us for the official kick-off to the ATS 2024 International Conference.

Opening Ceremony Keynote Speaker

William Flanary, MD - aka Dr. Glaucomflecken

Support provided by Boehringer Ingelheim Pharmaceuticals Inc.


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

THE NETWORKING EXCHANGE FOR EARLY CAREER PROFESSIONALS

San Diego Convention Center

Sails Pavilion Terrace

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 the terrace by the Sails Pavilion on Saturday following the Opening Ceremony. This one-hour event allows attendees to network and mingle with peers as well as providing information at the start of the conference.

 This event is free to paid conference registrants



MEET THE EXPERT SEMINARS

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

\$100 Member/Non-Members

\$70 LMIC Member/LMIC Non-Members

11:30 a.m. - 12:30 p.m. Marriott Marquis San Diego Marina

- MTE1 THE CUTTING EDGE OF LEARNING: EXPLORING AI IN MEDICAL EDUCATION**
Del Mar (Level 3, South Tower)
- MTE2 BIOLOGIC THERAPIES IN SEVERE ASTHMA: WHICH AGENT FOR WHAT PATIENT**
Pacific Ballroom 14 (Ground Floor, North Tower)
- MTE3 LUNG TRANSPLANTATION FOR PATIENTS WITH INTERSTITIAL LUNG DISEASE**
Leucadia (Level 1, South Tower)
- MTE4 NAVIGATING THE EVOLVING THERAPEUTICS IN MANAGEMENT OF PULMONARY SARCOIDOSIS**
Balboa (Level 3, South Tower)
- MTE5 REVOLUTIONIZING PNEUMONIA TREATMENT: THE PROMISING ROLE OF BACTERIOPHAGES**
Palomar (Level 3, South Tower)
- MTE6 CAUSATION FROM OBSERVATION: HOW WILL OBSERVATIONAL “TRIALS” INFORM CRITICAL CARE IN 2025?**
Carlsbad (Level 3, South Tower)
- MTE7 CELLULAR ALTERATIONS OF AGED LUNGS AND PULMONARY DISEASES CAUSED BY ENVIRONMENTAL FACTORS**
Missions Hills (Level 3, South Tower)

- MTE8 PATHOPHYSIOLOGY, MANAGEMENT, AND TRANSPLANT CONSIDERATIONS IN PORTOPULMONARY HYPERTENSION**
Point Loma (Level 1, South Tower)
- MTE9 IS EMPYEMA A MEDICAL OR SURGICAL DISEASE IN 2024? A PRO/CON DEBATE.**
Room 29A-D (Upper Level)
- MTE10 PULMONARY HYPERTENSION AND LUNG DISEASE: CURRENT APPROACH**
Santa Rosa (Level 1, South Tower)
- MTE11 CREATING A PIPELINE FOR WORKFORCE DIVERSITY: INCLUSIVE RECRUITMENT STRATEGIES FOR TRAINING PROGRAMS**
Solana (Level 1, South Tower)
- MTE12 FROM FEATHERS TO ANTIFIBROTICS: UPDATES IN EXPOSURES, TREATMENT, AND PROGNOSIS IN HYPERSENSITIVITY PNEUMONITIS**
Cardiff (Level 3, South Tower)

K1: KEYNOTE SERIES

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

San Diego Convention Center
Ballroom 20B-D (Upper Level)

The Fran Comi Keynote Lecture will focus on: **Artificial Intelligence in Medicine**. With the increasing use of AI in healthcare presenters will focus on the general pros and cons of using AI in the healthcare setting.

YEAR IN REVIEW

A1 CLINICAL YEAR IN REVIEW 1

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

San Diego Convention Center

Ballroom 20B-D (Upper Level)

Target Audience

Pulmonary; critical care and sleep providers

Objectives

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

- apply new clinical research knowledge to clinical practice

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

The program will discuss general topics of interest to a broad group of providers, inside and outside of these subspecialties. The program is relevant to not only clinicians, but also to researchers and administrators.

- 9:15 ARDS**
9:37 Asthma
9:59 Health Equity
10:22 Lung Cancer

This session and the International Conference are supported by independent medical educational grants from Boehringer Ingelheim Pharmaceuticals, Inc., Merck & Co., Inc., and United Therapeutics Corporation.

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COMMITTEE SPONSORED

A2 AJRCCM, JAMA, NEJM DISCUSSIONS ON THE EDGE: REPORTS OF RECENTLY PUBLISHED PULMONARY RESEARCH

9:15 a.m. - 11:15 a.m. **San Diego Convention Center**
Ballroom 20A (Upper 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, Journal of the American Medical Association, and the New England Journal of Medicine.

Papers presented will be recent publications, selected by the editors, and 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.

Presentation titles embargoed until Sunday, May 19th.

CLINICAL

CLINICAL TOPICS IN PULMONARY MEDICINE

A3 FELLOWS CASE CONFERENCE

Assemblies on Behavioral and Health Services Research; Training Committee

9:15 a.m. - 10:45 a.m. **San Diego Convention Center**
Room 6A (Upper Level)

Target Audience

Trainees including fellows, residents and students; educators; clinicians; nurses; and researchers aiming to broaden their clinical acumen to facilitate clinical and translational research and education.

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

In this session, five unknown cases will be presented by fellows to a panel of experts in a traditional Clinical Pathology Conference (CPC) format. The panel of experts includes three clinician experts (Anne Dixon, Patricia Rivera, and Eric Schmidt), an expert radiologist (Brett Elicker), and an expert pathologist (Jeffrey Myers). The panel of 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 then use to further the discussion and ultimately make a diagnosis.

- 9:15 Take My Breath Away**
9:27 Angels Among Us: Halos for Everyone
9:39 Paving the Way to ATS
9:51 Hack-a-thon
10:03 Expert Clinicians
10:27 Expert Radiologists

CLINICAL

CRITICAL CARE TRACK

A4 ICU EARLY MOBILIZATION: SHOULD WE KEEP MOVING OR MOVE ON?

Assemblies on Critical Care, Pulmonary Rehabilitation

9:15 a.m. - 10:45 a.m. San Diego Convention Center
Room 6B (Upper Level)

Target Audience

Practicing clinicians in critical care, clinical researchers

Objectives

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

- define the implications of important heterogeneity in the definition, timing, and intensity of ICU early mobilization and rehabilitation within existing rigorous landmark clinical trials
- identify controversies of how, when, and if early mobilization should be implemented
- specify key features of future clinical trials to help address the remaining gaps in knowledge

Clinical trials of early mobilization have produced conflicting results, which has created uncertainty as to whether this highly resource-intensive multidisciplinary intervention still has a place in ICU clinical practice. This symposium will provide a comprehensive and nuanced discussion of the current evidence-base, its limitations, and future directions for clinical practice and research.

9:15 What Is in a Name? The Many Definitions of Early Mobilization in Randomized Trials

9:28 Intensity of Intervention Matters for ICU Rehabilitation

9:41 Timing of ICU Rehabilitation Matters

9:54 If You Build It, We Can Move: Lessons in Implementing Mobilization Programs in Clinical Practice

10:07 Implementation of Mobilization Programs in Low Resource Settings

10:20 The Future State of Randomized Trials of Early Rehabilitation to Address Gaps in Evidence

10:33 Where Do We Go From Here?

BASIC

BASIC SCIENCE CORE

A5 MULTI-OMIC AND SINGLE CELL APPROACHES FOR ELUCIDATING CELLULAR BIOLOGY AND PATHOBIOLOGY OF LUNG DISEASE

9:15 a.m. - 10:45 a.m. Marriott Marquis San Diego Marina
Grand Ballroom 5-6 (Lobby Level, North Tower)

High-throughput technologies have revolutionized biomedical research. The advent of genotyping arrays and whole-genome sequencing enabled large-scale genome-wide association studies that shed light on genetic determinants of health and disease, or genomics. Subsequently, high-throughput methods for measuring DNA methylation, chromatin accessibility, transcript levels, proteins and metabolome gave rise to downstream omic sciences. Each omics profile provides valuable information about specific regulatory and metabolic aspects of a biological system, but simultaneous analysis of multiple omics - multi-omics - is necessary to gain holistic insight into disease risk factors, pathogenesis, and the preclinical and clinical manifestations of disease states. Accordingly, multi-omics analyses have high potential to improve disease prevention, diagnosis, treatment, and prognosis. More recently developed single cell technologies have enabled unprecedented cataloging and characterization of cell populations and their transcriptional profiles; they have become an integral part of studies of pathobiology of lung disease. Building on the success of single cell transcriptomics, methods that enable multi-omic profiling of individual cells are beginning to reveal regulatory and functional mechanisms underlying cell state and activity in health and disease. Finally, spatially resolved omic technologies are providing spatial context and cell-cell interaction data that are critical in understanding disease heterogeneity throughout the lung. This session will highlight recent applications of multi-omic methods, integrated with clinical and other data types, that have made major advances in understanding the role of specific cell types in pathobiology of lung diseases.

9:15 Keynote - Deciphering Lung Disease at Single Cell Resolution

9:45 Identification of Cell Populations That Regulate Normal Lung Development and the Cell Types Driving Abnormal Repair After Injury
**2024 Parker B. Francis Speaker*

10:05 Integrative Multi-Omics to Dissect the Lung Transcriptional Landscape of Pulmonary Arterial Hypertension (PAH)

10:25 **Biology of Lung Macrophage Subsets in Health and Disease**

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

A6 ROLE OF SEX IN PULMONARY DISEASE ACROSS THE LIFESPAN

Assemblies on Pediatrics; Respiratory Cell and Molecular Biology

**9:15 a.m. - 10:45 a.m. San Diego Convention Center
Room 24A-C (Upper Level)**

Target Audience

Physicians, advanced practice providers, researchers

Objectives

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

- apply new knowledge in using translationally relevant experimental models and approaches to interrogate the role of sex chromosomes in lung diseases
- describe the role of X- or Y-chromosomes in mediating lung disease pathophysiology
- define the mechanisms by which sex modulates gene expression and distinct biological pathways leading to sex-specific susceptibility or resilience in lung diseases

Sex-specific differences underlie the pathogenesis of many lung diseases. Sex hormones are often considered to underlie differences in susceptibility or resilience to disease. Mammalian cells show intrinsic sex-specific differences suggesting a role of sex chromosomes in differences in prevalence and susceptibility to lung diseases, particularly since genes on the X and Y chromosomes are differentially expressed between male and female cells because of X-chromosome inactivation, gene dosage, or genomic imprinting. The effect of sex chromosomes (X and Y) on the modulation of pulmonary diseases have been recently highlighted in pulmonary diseases ranging the lifespan. This symposium session will address knowledge gaps in the understanding of the contribution of sex to lung diseases across the lifespan.

9:15 Sex Chromosomes Mediate Sex-Specific Differences in Lung Diseases Across the Lifespans

9:20 Role of Sex Chromosomes in Neonatal Lung Injury

9:36 The Role of Y Chromosome in Pulmonary Hypertension

9:52 **Airway Disorders and the Role of Sex as a Biological Variable**

10:08 **X Chromosome Associations with Chronic Obstructive Pulmonary Disease and Related Phenotypes**

10:24 **Role of Sex on Lung Function Trajectories After Preterm Birth: Links to COPD?**

10:40 **Session Wrap Up**

CLINICAL

SCIENTIFIC SYMPOSIUM

A7 WE'RE REALLY COOKING NOW! PRO-CON DEBATE ON GAS STOVE RISKS TO LUNG HEALTH

Assemblies on Environmental, Occupational and Population Health; Behavioral and Health Services Research; International Health Committee

**9:15 a.m. - 10:45 a.m. Marriott Marquis San Diego Marina
Pacific Ballroom 18-19 (Ground Floor, North Tower)**

Target Audience

Providers of lung health and public health, crossing the majority of respiratory disease states. Particularly interesting to those focused on preventive care, occupational medicine, and air pollution.

Objectives

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

- describe the risks and benefits of cooking with liquified petroleum gas (LPG) in both resource rich and resource poor regions
- better counsel patients on their personal risk of exposure if they use gas stoves and ways to mitigate the risk
- describe health policy implications of promoting or limiting access to gas stoves

Are gas stoves good, bad, or maybe both? In this session, debate will ensue to evaluate the harms and benefits of gas stove cooking in high and low income countries, and the implications of potential policy change to the cooking landscape.

9:15 Are Gas Stoves the Problem? A High-Income Country Pro-Con Debate; Pro: Gas Stoves Cause Lung Disease

9:27 Are Gas Stoves the Problem? Con: Just the Facts, Please

- 9:39 **Rebuttal - Are Gas Stoves the Problem? Pro: Gas Stoves Cause Lung Disease**
- 9:42 **Rebuttal - Are Gas Stoves the Problem? Con: Just the Facts, Please**
- 9:45 **Are Gas Stoves the Solution? Pro: Gas Stoves Are the Best Interim Solution for Household Air Pollution in Low- and Middle- Income Countries**
- 9:57 **Are Gas Stoves the Solution? Con: Randomized Trials of LPG Stoves Have Not Improved Studied Health Outcomes in Low- and Middle- Income Countries**
- 10:09 **Rebuttal - Are Gas Stoves the Solution? Pro: Gas Stoves Are the Best Interim Solution for Household Air Pollution in LMICs**
- 10:12 **Rebuttal - Are Gas Stoves the Solution? Con: Randomized Trials of LPG Stoves Have Not Improved Studied Health Outcomes in LMICs**
- 10:15 **Should We Get Rid of Gas Stoves? A Policy Debate; Pro: Getting Rid of Gas Stoves Will Prevent Asthma in the US**
- 10:27 **Should We Get Rid of Gas Stoves? A Policy Debate; Con: Who Will Pay for Electrification in Homes?**
- 10:39 **Rebuttal - Should We Get Rid of Gas Stoves? A Policy Debate; Pro: Getting Rid of Gas Stoves Will Prevent Asthma in the US**
- 10:42 **Rebuttal - Should We Get Rid of Gas Stoves? A Policy Debate; Con: Who Will Pay for Electrification in Homes?**

BEHAVIORAL • CLINICAL

SCIENTIFIC SYMPOSIUM

A8 CHANGES IN COGNITION AND MOOD; A NEW FRONTIER FOR PULMONARY REHABILITATION

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

9:15 a.m. - 10:45 a.m. Marriott Marquis San Diego Marina

Pacific Ballroom 21-22 (Ground Floor, North Tower)

Target Audience

Clinicians and researchers working with patients with chronic

lung disease given the high prevalence of cognitive impairment and mood alterations in this patient population.

Objectives

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

- appreciate the prevalence of cognitive impairment and mood disorders in patients with chronic lung disease
- understand the clinical implications of cognition and mood on symptoms, daily activities and respiratory exacerbations
- better counsel patients in their practice on available management strategies such as coaching, mindfulness, and psychosocial interventions

The learner will be able to acquire skills to recognize impairments in cognition and mood in patients with chronic lung disease in their clinical and/or research practices. An overview of pulmonary rehabilitation, health coaching and behavioral interventions will be highlighted.

9:15 **Patient Speaker to Share Their Lived Experiences**

9:20 **Effects of Cognition and Dyspnea on Daily Function in Chronic Lung Disease**

9:35 **Importance of Evaluating Anxiety and Depression in Chronic Lung Disease**

9:50 **Psychosocial Interventions in Chronic Lung Disease**

10:10 **Interventions to Facilitate Behavior Change in Chronic Lung Disease**

10:30 **Panel and Audience Discussion**

BEHAVIORAL • CLINICAL

SCIENTIFIC SYMPOSIUM

A9 TRANSFORMING HEALTHCARE: CHATGPT AND LANGUAGE MODELS IN CLINICAL PRACTICE AND SCIENTIFIC RESEARCH

Assemblies on Behavioral and Health Services Research

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

San Diego Convention Center

Room 6C-F (Upper Level)

Target Audience

Nurses, physicians, allied health professionals, junior physicians, hospital administrators, policy makers

Objectives

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

- understand the current landscape of LLMs, including their design and existing applications
- identify the future applications of LLMs in pulmonary and critical care clinical practice and scientific research
- recognize the technical, social, and ethical concerns with LLMs and the need for guardrails to ensure safe and appropriate LLM use

This scientific symposium presents a unique platform for the pulmonary and critical care communities to explore the transformative applications of Language Models (LLMs) in clinical practice and research. We will discuss the potential of LLMs in enhancing diagnosis, treatment, and patient care as well as opportunities for data analysis, clinical decision-making, and risk prediction in pulmonary and critical care medicine. The symposium will also address challenges such as manuscript authorship, data privacy, model interpretability, and integration of LLMs into existing healthcare systems. Speakers will offer their perspectives on the future of LLMs implementation in pulmonary and critical care fields.

- 9:15 Promise and Perils of LLMs in Pulmonary and Critical Care Medicine**
- 9:30 Unleashing the Power of Language Models in Clinical Practice**
- 9:45 The Natural Language of Clinical Education**
- 10:00 From Manuscripts to Machines: Exploring the Changing Landscape of Peer Review with Language Models**
- 10:15 The Quirks of Research Superpowers: Applying LLMs to Qualitative and Quantitative Methods**
- 10:25 Panel Discussion**

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

A10 UNLOCKING THE THERAPEUTIC POTENTIAL OF TRAINED IMMUNITY IN RESPIRATORY DISEASES

Assemblies on Allergy, Immunology and Inflammation; Critical Care; Environmental, Occupational and Population Health; Pulmonary Infections and Tuberculosis; Respiratory Cell and Molecular Biology; Respiratory Structure and Function

9:15 a.m. - 10:45 a.m. San Diego Convention Center

Room 6D (Upper Level)

Target Audience

Pulmonary scientists seeking to gain novel insights into how trained immunity, a durable form of innate immune cell reprogramming, may be modulated to maintain lung health or inhibit existing respiratory disease progression.

Objectives

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

- learn about the latest findings in the field of trained immunity and the evidence for its role in the host response to different infectious and inflammatory stimuli
- understand how knowledge about trained immunity can be translated to address clinical challenges such as vaccine development and modulation of host immune responses to respiratory infections or pathological sterile inflammation
- become aware of new strategies that have the potential to engage both innate and adaptive immune memory to favor enhanced protection against infectious and Non-infectious inflammatory diseases

This symposium will provide the learner with a comprehensive introduction and overview of trained immunity in the context respiratory and systemic inflammatory diseases. The aim is to explore how functional reprogramming of innate immune cell subsets contributes to protective or pathological responses in the lung. The influence of trained immunity on systemic inflammatory diseases such as sepsis will also be discussed. Individual speakers will review the basic concepts and principles of innate immune memory, the roles played by epigenetics and altered cellular metabolism, as well as potential therapeutic approaches to modulate trained immunity.

- 9:15 Harnessing of Trained Immunity for Vaccine Development Against Mycobacterial and Viral Pathogens**
- 9:33 Trained Immunity of Alveolar Macrophages Enhances Resistance to Bacterial Pneumonia**
- 9:51 Trained Immunity in the Asthma Trajectory from Pregnancy to Childhood**
- 10:09 Trained Immunity Exacerbates Diaphragm Pathology in Muscular Dystrophy**
- 10:27 What's Next? Perspectives on Future Scientific and Clinical Opportunities in Trained Immunity**

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

A11 LEVERAGING MULTI-OMICS TO ADVANCE PRECISION MEDICINE IN BRONCHOPULMONARY DYSPLASIA

Assemblies on Pediatrics; Respiratory Cell and Molecular Biology

9:15 a.m. - 10:45 a.m. **Marriott Marquis San Diego Marina**

Grand Ballroom 11-13 (Lobby Level, North Tower)

Target Audience

Pediatrics pulmonologists, neonatologists, clinical translational and basic researchers interested in pulmonary development and molecular mechanisms of lung injury.

Objectives

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

- review cutting edge -omics methods and technologies in the study of infants born preterm at risk for BPD
- develop an understanding of novel insights into the molecular basis of BPD pathogenesis based on recent findings from multi-omic studies
- identify gaps in knowledge and future directions for clinical-translational research programs that accelerate the discovery of precision therapeutics for preterm infants who are at risk for BPD

Bronchopulmonary dysplasia (BPD) prevention and treatment strategies largely adhere to a “one-size-fits all approach” with little regard given to patient level-heterogeneity, differential clinical phenotypes, and anticipated variable responses to interventions. Integration of multi-omics studies provides a comprehensive understanding of molecular changes contributing to normal development, cellular response, and disease. Multi-omic approaches allow construction of comprehensive causal relationships between molecular signatures and phenotypic manifestations of a particular disease. Resulting information can be utilized to inform diagnostic, treatment, and prevention strategies including the discovery of novel biomarkers and precision therapeutics for infants and children with BPD.

9:15 Introduction

9:20 Integrated Single-Cell RNA Sequencing Across Lung Development

**2024 Parker B. Francis Speaker*

9:35 Multi-Omic Characterization of Human Lung Development: Systems-Level Exploration of the Lung Using LungMAP

9:50 Early Airway Microbial Metagenomic and Metabolomic Signatures as Therapeutic Targets for BPD Prevention and Treatment

10:05 Objective Approaches to Multi-Dimensional Phenotyping Infants with Established BPD

10:20 Panel Question and Answer Session

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BEHAVIORAL • CLINICAL

SCIENTIFIC SYMPOSIUM

A12 FORGOTTEN POPULATIONS: DETERMINING RESEARCH PRIORITIES IN HISTORICALLY UNDERSTUDIED VULNERABLE COMMUNITIES

Assemblies on Behavioral and Health Services Research; Health Equity and Diversity Committee

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

San Diego Convention Center

Room 7A-B (Upper Level)

Target Audience

Clinicians practicing in pulmonary and/or critical care settings, health disparities researchers

Objectives

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

- identify common challenges to leading respiratory health equity research among Indigenous, SGM, and incarcerated communities
- understand successful strategies for engaging underrepresented communities through community-based participatory research.
- develop new strategies for implementing community-focused interventions to mitigate health disparities in Indigenous, SGM, and incarcerated communities

Achieving equity in respiratory health is a key component of the ATS mission, yet large gaps exist for disparities among many

priority populations. Intervention development that is specifically relevant to populations identifying as from Indigenous, sexual and/or gender minority, and currently or formerly incarcerated backgrounds is particularly limited. This symposium will achieve the following objectives: 1) highlight the unique challenges to rigorous research that takes place in understudied priority populations; 2) understand successful strategies of needs-focused community-partnered research to facilitate partnership with understudied priority populations; and 3) identify the role that community-based participatory research can play in balancing these numerous tensions.

- 9:15 **Needs Assessment and Introduction of Speakers**
- 9:25 **A Patient's Perspective**
- 9:30 **How to Tailor Smoking-Cessation Interventions to Indigenous Communities**
- 9:45 **Fulfilling Unmet Needs for LGBT Patients Experiencing Palliative Illness: Safeguarding End-of-Life Care Equity in Sexual and Gender Minority Communities**
- 10:00 **Equitable and Ethical Research for Patients Behind Bars**
- 10:15 **Community-Based Participatory Research: Equitable Solutions Generated by Patients Themselves**
- 10:30 **Panel Discussion**

CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

A13 TOWARDS IMPLEMENTATION: NEW BIOMARKERS IN ILD

9:15 a.m. - 11:15 a.m. **Marriott Marquis San Diego Marina**
Grand Ballroom 8-9 (Lobby Level, North Tower)

Oral Presentations:

- 9:15 **Blood Transcriptomics Differentiates Fibrotic Hypersensitivity Pneumonitis From Idiopathic Pulmonary Fibrosis**
- 9:27 **Lung Ultrasound as a Screening Tool in Rheumatoid Arthritis**
- 9:39 **Mass Spectrometry-Based Proteomics to Evaluate the Circulating Proteome in Idiopathic Pulmonary Fibrosis (IPF)**

- 9:51 **Developing a Machine Learning Algorithm That Analyzes Voice Patterns to Identify Risk of Aspiration**
- 10:03 **Prediction of Disease Type and Severity in Interstitial Lung Disease Via Machine Learning Analysis of Exhaled Volatile Organic Compounds**
- 10:15 **Biological Age, Chronological Age, and Survival in Pulmonary Fibrosis: A Causal Mediation Analysis**
- 10:27 **Classification of Patients With Idiopathic Pulmonary Fibrosis According to Blood Biomarker Signatures by Consensus Cluster Analysis: A Multiple Machine Learning Approach**
- 10:39 **Combination of Multigene Profiles and Clinical Factors Improves Prediction of Short-term Outcomes in Idiopathic Pulmonary Fibrosis**
- 10:51 **In Vivo Assessment of Fibrotic Collagen Orientation Using Polarization-sensitive Endobronchial Optical Coherence Tomography to Predict Progression in Idiopathic Pulmonary Fibrosis**
- 11:03 **Identification of Molecular Endotypes With Differential Anti-fibrotic Response in Idiopathic Pulmonary Fibrosis: A Latent Class Analysis of Two Multi-center Observational Cohorts**

CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

A14 BUILDING LEGO(LAND): LESSONS LEARNED FROM LARGE SCALE CLINICAL TRIALS IN PAH

9:15 a.m. - 11:15 a.m. **San Diego Convention Center**
Room 29A-D (Upper Level)

Oral Presentations:

- 9:15 **Interim Results From the Phase 1B and Phase 2 TORREY Open-label Extension Study of Seralutinib in Pulmonary Arterial Hypertension (PAH)**
- 9:27 **Results of a Planned Analysis of the Effects of Genetic Background on Sotatercept for the Treatment of Pulmonary Arterial Hypertension (PAH)**
- 9:39 **HS135, A Novel Activin and GDF Trap, Is Highly Efficacious in Models of Group 1 and Group 2 Pulmonary Hypertension (PH)**

- 9:51 Prognostic Value of the Multicomponent Improvement (MCI) Endpoint in Patients With Pulmonary Arterial Hypertension (PAH) Treated With Sotatercept
- 10:03 Effect on Exercise Capacity and Long-Term Safety and Tolerability of Macitentan and Tadalafil as a Single-tablet Combination in Patients With Pulmonary Arterial Hypertension From the A DUE Open-label Interim Analysis
- 10:15 Initial Therapy in Pulmonary Arterial Hypertension and Cardiovascular Comorbidities: Monotherapy or Dual Combination?
- 10:27 Platelet-derived Growth Factor-BB (PDGF-BB) Antagonist Monoclonal Antibody as a Therapy for Pulmonary Arterial Hypertension
- 10:39 Early Home Rehabilitation Improves Activity and Quality After Acute Pulmonary Embolism
- 10:51 Metabolomic Signatures of Pulmonary Hypertension Associated With Interstitial Lung Disease: A Post-hoc Analysis of the INCREASE Study
- 11:03 Synthetic External Controls in Pulmonary Arterial Hypertension (PAH) Using Individual Participant Clinical Trial Data

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

A15 PEDIATRIC ASTHMA - CLINICAL AND TRANSLATIONAL RESEARCH

9:15 a.m. - 11:15 a.m. San Diego Convention Center

Room 2 (Upper Level)

Oral Presentations:

- 9:15 Childhood Respiratory Outcomes Using Different Racial-ethnic Reference Equations for Spirometry
- 9:27 Association of Maternal Diet With the Maternal Gut Microbiome and Childhood Asthma
- 9:39 Exposure to Violence and Airway Epithelial Transcriptomic Profiles in Puerto Rican Youth
- 9:51 EHR-based Survival Analysis to Examine the Impact of the COVID-19 Pandemic on Severe Asthma Outcomes in Pediatrics
- 10:03 Association Between Hemoglobin A1c and Asthma Outcomes Among Children With Asthma
- 10:15 Ethnic Variation in Asthma Prevalence Across Childhood in the Asian American and Pacific Islander Population
- 10:27 Untargeted Metabolomic Profiling Identifies Potential Disease-specific Biomarkers in Urban Children With Obesity-related Asthma
- 10:39 Elevated Neutrophilic Responses in Infants Admitted for Bronchiolitis and Subsequent Lung Function
- 10:51 Metformin Use Is Associated With Reduced Acute Asthma Outcomes in Pediatric Population

Featured Speaker Presentation:

- 11:03 Drivers of Asthma Outcomes: Looking Inside and Outside of the Lungs

BASIC • CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

A16 NTM WITH A SIDE OF BRONCHIECTASIS

9:15 a.m. - 11:15 a.m. Marriott Marquis San Diego Marina

Pacific Ballroom 24-26 (Ground Floor, North Tower)

Oral Presentations:

- 9:15 Changes in Blood Immune Cell Transcriptomes Associate With Disease Severity, Infection, and Inflammation in Bronchiectasis Patients: Data From the EMBARC-BRIDGE Study
- 9:27 Sputum Microbiota Composition and Metabolome in Adults With COPD-Bronchiectasis Association: A Prospective Cohort Study
- 9:39 Change in Patient Reported Respiratory Symptoms in a Randomized, Double-blind, Trial of Amikacin Liposome Inhalation Suspension in Adults With Newly Diagnosed or Recurrent Mycobacterium Avium Complex Lung Disease: The ARISE Study
- 9:51 Microbiologic Outcomes From a Randomized, Double-blind Trial of Amikacin Liposome Inhalation Suspension in Adults With Newly Diagnosed or Recurrent Mycobacterium Avium Complex Lung Disease: The ARISE Study

- 10:03 Disease Phenotype in Bronchiectasis (NTM- and NTM+) Is Associated With Lower Airway Dysbiosis and Neutrophil Extracellular Traps
- 10:15 Intermittent Versus Daily Treatment for Noncavitary Nodular Bronchiectatic Mycobacteria Avium Complex Lung Disease With Rifampicin, Ethambutol, and Clarithromycin (iREC): An Open-label, Multicenter, Randomized Controlled Trial
- 10:27 Investigating the Impact of Azithromycin on the Lung Microbiome and Immune Response in Patients With Bronchiectasis
- 10:39 Clinical Efficacy of Anti-glycopeptidolipid-core IgA Test for Screening Nontuberculous Mycobacterial Infection in Bronchiectasis: A Multicenter European Study
- 10:51 Net and Cell Count Differentials Among NTM +/- Bronchiectasis Patients With Cavitory and Non-cavitory Disease

Featured Speaker Presentation:

- 11:03 Breathing into the Future: Innovations in Bronchiectasis and NTM Management

BASIC • TRANSLATIONAL**MINI SYMPOSIUM****A17 COPD CHRONICLES: DECODING THE PATHOGENESIS OF A COMPLEX DISEASE**

9:15 a.m. - 11:15 a.m. Marriott Marquis San Diego Marina

Grand Ballroom 2-4 (Lobby Level, North Tower)

Featured Speaker Presentation:

- 9:15 Deciphering Lung Immunity in Emphysema: One T Cell at a Time

Oral Presentations:

- 9:27 Muc5b Suppresses Alveolar Regeneration by Club Cells in COPD
- 9:39 Effect of Mucus Plugging on Bronchial Gene Expression
- 9:51 Paraseptal Emphysema Is Characterized by a TLR-Th17-driven Adaptive Immune Response

- 10:03 Genetically Driven Cell Specific Splicing of CROCCP2 Is Associated With COPD Case Control Status
- 10:15 X Chromosome Methylation Patterns and Sex-dosage Imbalance: Implications for COPD Susceptibility and Severity
- 10:27 Novel Role of the Chromatin Remodeling Protein HMG5 in Driving COPD Susceptibility
- 10:39 Peroxiredoxin 6 Protects Pulmonary Epithelial Cells From Cigarette-related Ferroptosis Via Inhibition of Oxidative Stress
- 10:51 Failure of Alveolar Regeneration Following Cigarette Smoke-induced Chronic Lung Injury
- 11:03 Inhibition of Membrane-bound MUC1 Mucin Attenuates Cigarette Smoke-induced Mucus Hypersecretion

BASIC • TRANSLATIONAL**MINI SYMPOSIUM****A18 FIXING WHAT'S BROKEN: NOVEL THERAPEUTICS FOR LUNG REMODELING**

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

San Diego Convention Center

Room 8 (Upper Level)

Oral Presentations:

- 9:15 A First-in-human Study in Healthy Volunteers Investigating the Safety, Tolerability, Pharmacokinetics, and Pharmacodynamics of AZD5055, A Novel Oral Porcupine Inhibitor Under Development as a Treatment for Pulmonary Fibrosis
- 9:27 Therapeutic Efficacy of Olaparib in a Sheep Model of Pulmonary Fibrosis
- 9:39 Mimecan and a Functional Fragment Hereof as a Novel Regenerative Agent for COPD
- 9:51 Impact of Mepolizumab on Airway Remodelling in Severe Eosinophilic Asthma
- 10:03 Effect of Dupilumab on Pulmonary Vascular Volume in Patients With Moderate-to-Severe Asthma

- 10:15 Co-transplantation of Alveolar Macrophages Improves the Efficacy of Endothelial Progenitor Cell Therapy in Mouse Model of Bronchopulmonary Dysplasia
- 10:27 Lipofibroblast-Conditioned Media Suppresses Fibrogenesis in Pulmonary Myofibroblasts
- 10:39 Buloxibutid, A Novel Angiotensin II Type 2 Receptor Agonist, Stabilized and Improved Lung Function in Individuals With Idiopathic Pulmonary Fibrosis in the 36-week Phase 2 AIR Trial
- 10:51 ENV-101, A Novel Hedgehog Inhibitor, Increases Lung Function, and Reduces Lung Fibrosis in Patients With Idiopathic Pulmonary Fibrosis: Results From a Randomized, Double-blind, Placebo-controlled Phase 2 Trial
- 11:03 Clinical Stage Drug Candidate LAU-7b Shows Potent Antifibrotic Properties in Several Preclinical Models of Pulmonary Fibrosis

CLINICAL

MINI SYMPOSIUM

A19 THE FRONTLINE SLEEP APNEA: INNOVATIONS IN OSA

9:15 a.m. - 11:15 a.m. San Diego Convention Center

Room 32A-B (Upper Level)

Oral Presentations:

- 9:15 Individualized Treatment Effects of CPAP in Obstructive Sleep Apnea: A Post-hoc Machine Learning Analysis in Save
- 9:27 Stepwise and Targeted Therapy to Treat Sleep Apnea: A Novel, Physiology-informed, Personalised Approach Using Oral Appliance Therapy Plus Combination Therapy in Incomplete Responders
- 9:39 An Optogenetics-based Therapy for Obstructive Sleep Apnea
- 9:51 Combination Drug Therapy With Acetazolamide, Eszopiclone +/- Venlafaxine for Obstructive Sleep Apnea: A Randomized, Controlled Clinical Trial
- 10:03 Treatment of Sleep-disordered Breathing With Adaptive Servo-ventilation (READ-ASV) in Opioid Users: A European Registry

- 10:15 Assessment of Sleep Apnea-specific Hypoxic Burden (SASHB) With Novel Oral Appliance Optima and Oral Positive Expiratory Pressure Accessory ExVent
- 10:27 A Novel Sensor to Track Transient Blood Pressure Changes During Sleep
- 10:39 Site of Collapse Probability Determined Using Airflow Shapes Is Associated With REM Sleep
- 10:51 Percutaneous Approaches to Hypoglossal Nerve Stimulation: A Pilot Study During Drug-Induced Sleep Endoscopy
- 11:03 The Effect of Ansa Cervicalis Stimulation on Upper Airway Patency: A Structure-based Analysis

BEHAVIORAL • CLINICAL

POSTER DISCUSSION SESSION

A21 HEALTH SERVICES RESEARCH: HIGHLIGHTS OF EPIDEMIOLOGY, POPULATION HEALTH, COST, AND OUTCOMES

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

San Diego Convention Center

Room 25A-C (Upper Level)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

- 401 Trends in All-cause Mortality Among U.S. Veterans With Sarcoidosis From 2004-2022
- 402 Care Patterns of Patients With Connective Tissue Disease-related Interstitial Lung Disease
- 403 Evaluating the Impact of Supplemental Oxygen Therapy on Clinical and Economic Outcomes in Patients With Fibrosing Interstitial Lung Disease
- 404 Lung Cancer Mortality Trends and Disparities: A Cross-sectional Analysis 1999-2020
- 405 Characteristics, Outcomes, and Healthcare Resource Utilization of Patients Hospitalized With Vaping Related Lung Injury in the US, 2020
- 406 Portable Oxygen Concentrators and Level of Mobility in Long-term Oxygen Therapy Patients in France. A Nationwide Health Claims Database (SNDS) Study

- 407 Supplemental Oxygen Reassessment: The Impact of the Choosing Wisely Campaign Recommendations on Clinical Practice
- 408 Practices in Corticosteroid Dosing for Acute Exacerbations of Idiopathic Pulmonary Fibrosis and Association With In-hospital Mortality
- 409 Practice Patterns of Non-steroidal Immunosuppressive Agent Use in Patients With Sarcoidosis: 2016-2023
- 410 Understanding the Facilitators and Barriers to Oxygen Therapy for Individuals With Interstitial Lung Disease
- 411 Cost Differences Among Patients Diagnosed With Pulmonary Arterial Hypertension Based on Medicare Low-Income Subsidy Eligibility
- 412 Loss of Productivity Among Commercially Insured Patients Treated for Pulmonary Arterial Hypertension
- 413 Understanding the Factors Influencing Pulmonary Hypertension Trials Outcome: A Comprehensive Analysis of Trial Completion and Termination Reasons
- 414 Trends in Donor Cause of Death for Lung Transplants: An Expanded Analysis
- 415 Post-transplant Outcomes in Lung Transplant Recipients Who Underwent Inpatient Expedited Transplant Evaluation
- 416 Trends in Cardiovascular Mortality in Patients With Sleep Apnea in the United States From 1999 to 2020
- 417 8-year Trends in Obesity, Type 2 Diabetes, and Glucagon-like Peptide-1 (GLP-1) Use in Patients With Obstructive Sleep Apnea
- 418 Re-evaluating Lung Cancer Screening Recommendations: An Analysis of Lung and Bronchus Cancer Incidence by Age Group
- 419 Financial Toxicity After Hospitalization for Pneumonia From 2017-2019
- 420 Systemwide Patterns of Service Use, At-risk Patients, and the Hospital Readmissions Reductions Program
- 421 Lung Function in Active-duty Marines After COVID-19 Infection
- 422 Adaptations of Health System Infrastructure to Care for Hospitalized COVID Patients After Discharge: A Qualitative Study of Ten U.S. Health Systems
- 423 Excess Mortality for Non-COVID-19 Conditions in 2020
- 424 Lung Cancer Screening Completion Rates Demonstrate Disparity Between Patient Populations
- 425 Implementation of Centralized Support for Community Care Lung Cancer Screening

BEHAVIORAL • CLINICAL
RAPID POSTER DISCUSSION SESSION
**A22 CRITICAL CARE MEDICINE:
ADVANCING BEHAVIORAL SCIENCES
AND HEALTH SERVICES RESEARCH**

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

San Diego Convention Center

Room 28C-E (Upper Level)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

- 302 Advantages and Caveats of Using the SpO₂/FiO₂ Ratio to Identify Hypoxemia
- 303 Automated Electronic Health Record Based Identification of ARDS
- 304 Hospital Variation in the Use of Intravenous Benzodiazepines for Sedation During Early Mechanical Ventilation
- 305 Hospital Variation in Delivery of Skilled Rehabilitation to Mechanically Ventilated Older Adults With Acute Respiratory Failure
- 306 Practice Variation and Outcomes in Asthma Exacerbations Among Mechanically Ventilated Patients in Pediatric Intensive Care Units (ICUs) Vs. Adult ICUs
- 307 Perspectives of Family Decision-Makers Around Prolonged Ventilatory Support
- 308 Estimating the Probability of a Future Short-term Non-elective, Sepsis or Suspected Infection (SI) Hospitalization Following an ED or a Clinic Visit
- 309 Demarcating "Time-zero" of Sepsis Onset Among Patients With Hospital-onset Sepsis Using Adult Sepsis Event Criteria

- 310 Preventable Mortality Among Previously Healthy Patients With Sepsis
- 311 Changes in Continuity of Care and Resident Well-Being With Transition to 12-hour Resident ICU Shifts: A Pilot Study
- 312 Critical Care Fellows' Training Experiences With Obstetric Critical Care: A Cross-sectional Survey
- 313 Implementing an Intensive Care Unit Workplace-Based Assessment Tool (ICU-WBAT), A Step Towards Measuring Entrustment
- 314 An Intensive Care Unit Rapid Educational Asynchronous Digital Resource for Intern Year (ICU-READY) Curriculum Improves ICU Knowledge and Clinical Entrustment
- 315 Advancing Critical Illness Recovery Care Through Learning Collaborative Engagement: Qualitative Insights From the Critical and Acute Illness Recovery Organization (CAIRO)
- 805 COVID-19 Across Pandemic Variant Periods: The Severe Acute Respiratory Infection - Preparedness (SARI-PREP) Study
- 806 Evaluating and Comparing Prognostic Scores in Patients With Respiratory Tract Infections at the Emergency Department
- 807 Community-acquired Pneumonia in Elderly Patients Admitted to the Emergency Department With Acute Dyspnea: A Prognostic Multimarker Study
- 808 Characteristics and Long-Term Outcomes of Patients With Acute Respiratory Failure Due to Severe Gram-Negative Infection in Northeastern Thailand
- 809 A Delphi Consensus to Prioritize the Next Steps to Address Racial Disparities Through Critical Care Research
- 810 Hispanic Patients Are Underrepresented in Clinical Trials for Acute Hypoxemic Respiratory Failure: A Systematic Review

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

A23 INVESTIGATING HETEROGENEITY IN SEPSIS AND PNEUMONIA: TRIALS, COHORTS, AND PATIENT-ORIENTED RESEARCH

9:15 a.m. - 11:15 a.m. San Diego Convention Center

Room 31A-C (Upper Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

- 801 Glucagon-Like Peptide-1 Receptor Agonists Are Associated With Reduced Sepsis and Organ Injury in Adults Hospitalized With Infection
- 802 Circulating Glucagon-Like Peptide 1 Predicts Mortality in Critically Ill Patients With Acute Respiratory Failure
- 803 An Evaluation of the Adult Sepsis Event (ASE) Definition on Emory Healthcare Data
- 804 A Comparison of Antibiotic Prescription Patterns and Outcomes in Microbiology-positive and Microbiology-negative Pneumonia Cases
- 811 Gender and Access to Care Predict Sepsis 30-day Readmission
- 812 Angiotensin II Treatment Is Associated With Improved Oxygenation in ARDS Patients With Refractory Distributive Shock: Secondary Analysis of a Randomized Trial
- 813 Anti-CD14 Treatment and Mortality in Severe COVID-19: A Secondary Subgroup Analysis by Baseline Plasma Presepsin Levels in the I-SPY COVID Adaptive Platform Trial
- 814 Hemoglobin Levels and the Effect of Lower and Higher Oxygen Saturation Targets on Outcomes
- 815 Sepsis Patients With Hyperinflammatory and Hypoinflammatory Phenotypes Respond Differently to Polymyxin B Compared to Sham in a Secondary Analysis of Euphrates
- 816 Tolerance, Resistance, and Damage Pathways in Clinical Sepsis Subtypes
- 817 Relationship Between Temperature Trajectories and Cardiac Function in Patients With Infection
- 818 Multimorbidity Subphenotypes in Sepsis Have Differential Host Responses and Mortality Outcomes
- 819 Impact of Interventions on Cytokine Cluster Phenotype in Patients With Septic Shock

- 820 Association Between Inotrope Choice and All-cause Hospital Mortality in Patients With Sepsis and Cardiogenic Shock
- 821 Assessing the Efficacy and Safety of Corticosteroids for the Management of Pediatric Patients With Sepsis and Septic Shock: A Systematic Review and Meta-Analysis of Randomized Controlled Trials
- 822 Impact of Fluid Overload on Cytokine Signature Clusters and Mortality in Patients With Septic Shock
- 823 Estimation of Volume Status With a Modified Point-of-Care Ultrasound Protocol
- 824 Acetaminophen and Clinical Outcomes in Sepsis: A Retrospective Propensity Score Analysis of the Ibuprofen in Sepsis Study
- 825 Assessment of Clinical Sepsis Subtypes and Individualized Treatment Effects in a Multicenter Trial of Early Goal Directed Therapy
- 606 A Case of Bronchobiliary Fistula Mimics as Pneumonia
- 607 A Case of Acute Respiratory Failure Following Lymphangiography
- 608 “Twisted Fate of Lung”: Spontaneous Lung Torsion Due to Pseudomonas Aeruginosa Pneumonia
- 609 A Rare Cause of Acute Respiratory Distress Syndrome (ARDS) in Young Patients
- 610 A Rare Case of Acute Hypoxic Respiratory Failure Due to Traumatic Tapia Syndrome Requiring Tracheostomy
- 611 Spontaneous Lung Intercostal Herniation Aggravated by Positive Pressure Ventilation
- 612 Acute Respiratory Distress Syndrome From Transfusion Transmitted Babesiosis in a Trauma Patient With Systemic Lupus Erythematosus
- 613 A Fatal Encounter With Blastomycosis-induced Acute Respiratory Distress Syndrome in an Immunocompetent Host

CLINICAL

POSTER DISCUSSION SESSION

A24 EVERY BREATH YOU TAKE: RESPIRATORY FAILURE CASE REPORTS

9:15 a.m. - 11:15 a.m. San Diego Convention Center

Room 5A-B (Upper Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

- 601 ARDS Due to Ruxolitinib Discontinuation Syndrome in a Patient With Primary Myelofibrosis
- 602 The Gift of a Heart, With Strings Attached: A Case of Strongyloides Stercoralis Hyperinfection Syndrome With Fulminant Respiratory Failure
- 603 Peak Pressures, Pulmonary Artery Grafts, and a Pig Bronchus; A Unique Case of Extrinsic Compression
- 604 Recurrent Pleural Effusions: Think About the Esophagus!
- 605 Neurally-Adjusted Ventilatory Assist (NAVA) for Monitoring the Return of Diaphragm Activity in Infantile Botulism: A Case Report
- 614 Lung Volume and Biomarker Based Early Diagnosis and Treatment of Neurogenic Pulmonary Edema After Subarachnoid Hemorrhage: A Case Report
- 615 Beyond Conventional Care: Prolonged Venovenous ECMO in COVID-19 Patients With High BMI - A Dual Case Study on Resilience and Innovation
- 616 Rodent Invasion! A Case of Hantavirus in an Immunocompromised Patient Causing Hantavirus Pulmonary Syndrome
- 617 A Case of Advanced Pulmonary Alveolar Microlithiasis Leading to Successful Lung Transplantation
- 618 Fentanyl Induced Chest Wall Rigidity Syndrome
- 619 A Sticky Situation: Unusual Foreign Bodies Found in an Intubated Patient
- 620 Hemophages in BAL Fluid?—An Unique Finding in a Patient With Secondary HLH
- 621 A Case of Pulmonary Renal Syndrome Following Endovascular Insult
- 622 ECMO as a Facilitator for the Diagnosis of Pulmonary Alveolar Proteinosis Complicated by Acute Respiratory Failure
- 623 Prone Positioning for ARDS: A Double-Edged Sword

- 624 Negative Pressure Pulmonary Hemorrhage, an Uncommon Complication of Airway Obstruction
- 625 Neurogenic Pulmonary Edema in the Setting of Intracerebral Hemorrhage: A Case Report

BEHAVIORAL • CLINICAL
RAPID POSTER DISCUSSION SESSION
A25 WORDS MATTER: COMMUNICATION AND PARTNERSHIP IN THE ICU

9:15 a.m. - 11:15 a.m. Marriott Marquis San Diego Marina
Pacific Ballroom 15-17 (Ground Floor, North Tower)

Viewing/Discussion 9:15-10:00

Abstract Summaries 10:00-11:15

- 101 Picturing Empathy in the ICU: Patient Photographs at an Urban Community Teaching Hospital
- 102 Written Communication and the ICU Team Experience (WRITE): An Implementation Study
- 103 Characterizing the Variation in Decisional Conflict Among Surrogate Decision Makers of Mechanically Ventilated Patients
- 104 Family Engagement in the ICU: A Qualitative Framework Analysis
- 105 Family Satisfaction With ICU Care and Family Characteristics
- 106 The Intersection of Race, Frailty, and Illness Acuity on Do Not Resuscitate Status in Patients Receiving Organ Support
- 107 Copy-paste and Documentation Errors in Resident Physician Notes in the Medical Intensive Care Unit (MICU)
- 108 Unclear Trajectory and Uncertain Benefit: Creating a Lexicon for Clinical Uncertainty in Patients With Critical or Advanced Illness Using a Delphi Consensus Process
- 109 Cultural and Linguistic Adaption of Three Behavioral Interventions for ICU Populations to Latin American Spanish: Methods, Insights, and Lessons Learned

- 110 Comparing Gender Based Differences in Letters of Recommendation for Pulmonary Critical Care Fellowship Across Multiple Sites: A Cross-sectional Study
- 111 Disagreement in the ICU: An Institutional Analysis of Factors Leading to Resident and Nursing Conflict
- 112 Structured ICU Rounds Improve Team Performance
- 113 Weekly Debriefing in the Medical Intensive Care Unit (MICU): A Novel Trainee-centered, Palliative Care Led Intervention
- 114 Optimizing Palliative Care Delivery in the Intensive Care Unit: A Qualitative Study of Palliative Care Clinicians' Views of Their Role in the ICU
- 115 Estimating Time in Patient Rooms and Movements of Physicians and Other Healthcare Providers in an Intensive Care Unit Using a Sensor Network

CLINICAL • TRANSLATIONAL
POSTER DISCUSSION SESSION
A26 IMPROVING OUTCOMES IN SARCOIDOSIS, RARE LUNG DISEASE AND LUNG TRANSPLANT

9:15 a.m. - 11:15 a.m. San Diego Convention Center
Room 30C-E (Upper Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

- 701 Healthcare Burden of Pulmonary Alveolar Proteinosis
- 702 Development of a Novel Laboratory Test for the Detection of GM-CSF Antibodies to Aid in the Diagnosis of Individuals At-risk for Autoimmune Pulmonary Alveolar Proteinosis (aPAP)
- 703 Patient- and Provider-Perceived Risks and Benefits of Remote Exercise in Lymphangiomeiomyomatosis
- 704 Analysis of Tumor Necrosis Factor Inhibitor Levels and Anti-drug Antibodies in Sarcoidosis Patients With Poor Clinical Treatment Response
- 705 Baseline Pulmonary Function Phenotypes Associated With Race and Disease Progression in Sarcoidosis

- 706 The Diagnostic Performance of the CD4/CD8 Ratio in Sarcoidosis Patients With More Severe Disease
- 707 New and Old Definitions of Pre-capillary and Severe Pulmonary Hypertension: Predicting Mortality in Sarcoidosis Associated Pulmonary Hypertension
- 708 Sarcoid Type Mediastinal Lymphadenopathy in Patients Treated With Immunotherapy: Clinical Characteristics and Prognostic Significance
- 709 Experience of Pulmonary Sarcoidosis at an Urban Safety-net Hospital: An Analysis of 100 Cases
- 710 Efficacy and Safety of Avacopan Versus Prednisone Taper in Patients With ANCA-Associated Vasculitis With Lung Involvement: A Post Hoc Analysis of the ADVOCATE Trial
- 711 Pulmonary Involvement and Persistent Pulmonary Damage in Eosinophilic Granulomatosis With Polyangiitis (EGPA): A Retrospective Analysis of US Health Insurance Claims Data
- 712 Racial Disparities in Lung Transplant Waitlist Mortality and Transplantation for ILD Patients
- 713 Real-time and Non-invasive Acute Lung Rejection Diagnosis Using Confocal Laser Endomicroscopy in Lung Transplant Recipients
- 714 Racial and Ethnic Differences in Human Leukocyte Antigen Sensitization and De Novo Donor Specific Antibodies in Lung Transplantation
- 715 Differential Expression of Urine Intercellular Signaling and Cell Adhesion Proteins Are Associated With Perioperative Acute Kidney Injury Post-lung Transplant
- 716 Lower Airway Dysbiosis After Lung Transplantation Is Associated With Primary Graft Dysfunction and Host Transcription of Innate Inflammatory Canonical Pathways
- 717 X-ray Velocimetry in Assessing Chronic Lung Allograft Dysfunction Post-lung Transplantation
- 718 Lung Allograft Function and Clinical Outcomes Following Treatment for Antibody Mediated Rejection
- 719 Plasma Levels of Angiopoietin-2, but Not Mitochondrial or Nuclear DNA, Are Associated With Acute Kidney Injury After Lung Transplantation

- 720 Quantification of Pulmonary Edema in Lung Transplant Recipients Using RALE Score Is Associated With Poor Clinical Outcomes
- 721 Increased Incidence of Squamous Cell Carcinoma in Idiopathic Pulmonary Fibrosis Lung Transplant Recipients With Short Telomeres
- 722 Association Between De Novo Donor Specific Antibodies and Baseline Lung Allograft Dysfunction
- 723 Clinical Outcomes of Lung Transplant Recipients with Idiopathic, Familial and Progressive Pulmonary Fibrosis and Shortened Telomeres - A Retrospective Observation in a Case Series at the University of Washington Medical Center, Seattle, USA
- 724 Dynamic Contrast-Enhanced Lung MRI in Lung Transplant Recipients With Chronic Lung Allograft Dysfunction

CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

A27 EMERGING TREATMENTS AND THERAPEUTIC STRATEGIES IN COPD: RESULTS OF CLINICAL TRIALS AND OBSERVATIONAL STUDIES

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

San Diego Convention Center

Room 33A-C (Upper Level)

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|----------------|---|
| Poster Viewing | 9:15-10:00 |
| Discussion | 10:00-11:15 |
| 901 | Impact of Race-neutral Spirometry Reference Equations on Eligibility for Chronic Obstructive Pulmonary Disease (COPD) Clinical Trials |
| 902 | Impact of Biologics on Exacerbation Burden and Pulmonary Function Tests in Patients With COPD and ACOS: A Real-world, Single-center Review |
| 903 | Dupilumab Improves Pre-bronchodilator Lung Function Measures in Patients With Chronic Obstructive Pulmonary Disease (COPD) With Type 2 Inflammation: Data From the Phase 3 Boreas Trial |

- 904 Dupilumab Improves Post-bronchodilator Lung Function in Patients With Moderate-to-Severe Chronic Obstructive Pulmonary Disease (COPD) With Type 2 Inflammation: Data From the Phase 3 Boreas Trial
- 905 Dupilumab Does Not Impact Blood Eosinophil Levels in Patients With Moderate-to-Severe COPD and Type 2 Inflammation: From the Phase 3 Boreas Trial
- 906 In The Phase 3 Boreas Trial, Dupilumab Reduced FeNO Levels Over Time in Patients With Moderate-to-Severe COPD With Type 2 Inflammation
- 907 Efficacy of Mepolizumab in Patients With COPD and an Eosinophilic Phenotype With Chronic Bronchitis - A Post Hoc Analysis of the METREX & METREO Phase 3 Studies
- 908 Post Hoc Analysis of Quantitative HRCT Imaging Parameters in Astegolimab (anti-ST2) Treated COPD Patients Associates Airway Wall Thickness With Clinical Outcomes
- 909 Ensifentrine, A Novel, Selective Inhibitor of PDE3 and PDE4, Improved Dyspnea in Subjects With Symptomatic, Moderate-to-Severe COPD Over 24 Weeks
- 910 Ensifentrine Added on to LAMA Therapy Improved COPD Symptoms and Quality of Life in Subjects With Symptomatic Moderate-to-Severe COPD
- 911 Ensifentrine Added on to LABA/ICS Therapy Reduced Dyspnea and Improved Quality of Life in Subjects With Symptomatic Moderate-to-Severe COPD
- 912 Optimizing the Initiation of Inhaled Corticosteroids in COPD Management: An In-depth Exploration of Prescription Strategies and Clinical Outcomes
- 913 Effect of Triple Inhaled Therapy With Budesonide/Glycopyrrolate/Formoterol Fumarate on Cardiopulmonary Events in Chronic Obstructive Pulmonary Disease: A Post-hoc Analysis of ETHOS
- 914 Cost-effectiveness of Budesonide/Glycopyrrolate/Formoterol Fumarate (BGF) Versus Fluticasone Furoate/Umeclidinium/Vilanterol (FF/UMEC/VI) to Treat COPD Based on Mortality Risk Reduction From a Matching-adjusted Indirect Treatment Comparison
- 915 Alvelestat (MPH966) for the Treatment of Alpha-1 Antitrypsin Deficiency (ATALANTa): A Phase 2, Multicenter, Double-blind, Randomized, Placebo-controlled Study to Evaluate Efficacy, Safety, and Tolerability of Alvelestat in Alpha-1 Antitrypsin Deficiency
- 916 Protease Inhibitory Specificity Profile of the Recombinant Human Alpha-1 Antitrypsin (AAT)-Fc Fusion Protein INBRX-101
- 917 Pharmacokinetics, Safety, and Tolerability of Tanimilast Following Single Administration in Subjects With Mild, Moderate, and Severe Renal Impairment
- 918 Pharmacokinetics, Safety, and Tolerability of Tanimilast Following Single Administrations in Subjects With Mild, Moderate, and Severe Hepatic Impairment
- 919 In Silico Lung Deposition Profiles of Three Single-inhaler Triple Therapy Combinations Assessed With Functional Respiratory Imaging (FRI) at a Low Inspiratory Flow Rate
- 920 Lung Exposure Bioequivalence With Budesonide/Glycopyrrolate/Formoterol Fumarate With the Next Generation Propellant Hydrofluoroolefin-1234ze Versus Hydrofluoroalkane-134a in Healthy Adults: A Charcoal Block Study
- 921 Utilizing Flow Profiles to Monitor and Improve pMDI Drug Delivery in Patients With COPD and Asthma
- 922 Bronchoscopic Lung Volume Reduction With Zephyr Endobronchial Valves Improves Lung Function and Symptoms in Chronic Obstructive Pulmonary Disease Patients With Alpha-1 Antitrypsin Deficiency
- 923 Bronchial Rheoplasty Reduces Mucus Plugging in Patients With Chronic Bronchitis
- 924 Phase III Two Arm, Multi-centre, Open Label, Parallel-group Randomised Designed Clinical Investigation of the Use of a Personalised Early Warning Decision Support System to Predict and Prevent Acute Exacerbations of Chronic Obstructive Pulmonary Disease:
- 925 Autologous Transplantation of P63+ Lung Progenitor Cells for Chronic Obstructive Pulmonary Disease Therapy: An Open-label, Controlled, First-in-Human Trial

CLINICAL

POSTER DISCUSSION SESSION

A28 INTERVENTIONAL PULMONOLOGY IN THE PEDIATRIC AGE

9:15 a.m. - 11:15 a.m. San Diego Convention Center
Room 1A-B (Upper Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

- 201 Comprehensive Assessment of Pediatric Flexible Bronchoscopy in a Tertiary Pediatric Center
- 202 Exploring Associations of Lower Airway Lymphocytosis and Mucosal Cobblestone Appearance in Children Undergoing Flexible Bronchoscopy
- 203 Measures of Tracheomalacia in Children Undergoing Flexible Bronchoscopy
- 204 Use of Bronchial Balloon Occlusion to Aid in Surgical Planning for Congenital Lobar Overinflation
- 205 Maintaining Airway Patency With Interventional Bronchoscopy, A Case in Pediatric Chronic Granulomatous Disease
- 206 Complete Unilateral Endoscopic Lung Volume Reduction in a Pediatric Patient via Endobronchial Valve Placement
- 207 A Teenage Girl With Myhre Syndrome Resulting in Recurrent Tracheal and Lingula Stenosis After Multiple Interventional Procedures Successfully Treated With Vactosertib
- 208 Endobronchial Valve Placement for Persistent Air Leak Due to Polymicrobial Infection Following Synovial Tumor Resection
- 209 Mycobacterium Avium Complex Diagnosis by CT Navigation-Guided Bronchoalveolar Lavage in a Lung Transplant Recipient
- 210 Balloon Dilation of Right Upper Lobe Bronchial Stenosis in a Patient With Granulomatosis With Polyangiitis
- 211 Cryoprobe and Urology Basket Extraction of an Aspirated Tooth in a Pediatric Patient

- 212 A Case of Successful Use of Intraoperative Electromagnetic Navigational Bronchoscopy (IENB) in a Pediatric Patient With Malignancy
- 213 Successful Treatment of Pediatric Non-malignant Tracheobronchial Stenosis Using Endoluminal Spray Cryotherapy as an Adjunct Measure
- 214 Bronchial Artery to Pulmonary Artery Fistula: A Rare Pediatric Presentation of Hemoptysis
- 215 Endobronchial Valve Placement for Treatment Refractory Bronchopleural Fistula in a Pediatric Patient
- 216 Transbronchial Lung Cryobiopsy in a Pediatric Renal Transplant Patient With Diffuse Lung Disease
- 217 The Safety and Utility of Flexible Bronchoscopy in the Neonatal Intensive Care Unit
- 218 Flexible Bronchoscopy With Cryobiopsy in a Pediatric Patient With Tracheal Sloughing After Endotracheal Intubation
- 219 Eosinophilic Plastic Bronchitis Requiring Serial Cryoextraction via Flexible Bronchoscopy
- 220 Necessity Is the Mother. An Airway Foreign Body Removal Using a Nitinol Stone Retrieval Device
- 221 Get to the Point, Are We Going to Have to Cut It Out? Bronchoscopic Foreign Body Extraction to Prevent Lobectomy

BASIC • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

A29 WHAT IS YOUR DAMAGE? IMAGING-BASED PHENOTYPES OF COPD

9:15 a.m. - 11:15 a.m. San Diego Convention Center
Room 6E (Upper Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

- 1001 Quantitative CT Imaging and Machine Learning-based Normal Reference Prediction Evaluate Acinar-scale Hyper- and Hypo-functioning in COPD

- 1002 Pulmonary Arterial Dyanapsis Evaluated in Smokers With COPD Via Contrast Enhanced Dual Energy CT
- 1003 Investigating the Contribution of Sex Differences to Small Airways Disease in Chronic Obstructive Pulmonary Disease (COPD) Using Ultra-high Resolution Imaging
- 1004 Expiratory-inspiratory Ratios of Cross-sectional Lumen Diameter and Longitudinal Length of Spatially Matched Proximal Airway Branches on CT in Patients With COPD
- 1005 Airway Mucus Plugging in Upper Versus Lower Lobes and Associations With Outcomes in COPD
- 1006 The Impact of High Ratio of Airway Luminal Volume to Blood Volume in the Lungs on Exacerbations in Chronic Obstructive Pulmonary Disease
- 1007 CT-based Vascular Surface Area-to-Volume Ratio as an Imaging Marker to Phenotype Subjects With Predominant Vascular Loss Versus Narrowing in COPD
- 1008 Prevalence of Pulmonary Vascular Abnormalities in Smokers With and Without COPD
- 1009 Regional Lung Perfusion of Computed Tomography Emphysema Subtypes on Co-registered Computed Tomography and Magnetic Resonance Imaging Scans: The MESA COPD Study
- 1010 Validation of Combined Bronchitic-Apical Emphysema, A Novel CT Emphysema Subtype, Using Ultra-resolution Micro-CT Imaging
- 1011 Subtyping Emphysema into Mechanically Impaired Vs. Preserved: Associations With Lung Function, Disease Progression, and Mortality
- 1012 Proteomics of CT Emphysema Subtypes. The Subpopulations and Intermediate Outcome Measures in COPD Study (SPIROMICS)
- 1013 Paired Magnetic Resonance and Computed Tomography Assessment of Dyanapsis. The Subpopulations and Intermediate Outcome Measures in COPD and Heart Failure Study (SPIROMICS HF)
- 1014 Quantifying the Impact of Cannabis Smoking in Lungs of Young Adults Using CT and ¹²⁹Xe MRI
- 1015 Tracheal Lumen Eccentricity Is Associated With Respiratory Morbidity and Mortality in COPD
- 1016 Advanced 4D Hyperpolarized Gas Imaging of Ventilation and Dissolved Gas Biomarkers in COPD
- 1017 Six-month Longitudinal Changes in 129-XE and HRCT Imaging Metrics Tend to Associate With On-study COPD Exacerbations
- 1018 High Resolution Endotyping of COPD by Evaluating Pulmonary Micro-compartmental Functions With Hyperpolarized ¹²⁹Xenon Magnetic Resonance Imaging
- 1019 Stability and Reproducibility of X-ray Velocimetry for Ventilation Phenotyping in Patients With Chronic Obstructive Pulmonary Disease: A Longitudinal Study (STRIVE-COPD Study)
- 1020 Effect of Inhaled Triple Therapy on Small Airway Remodelling in Patients With Moderate to Severe COPD Accessed by Endobronchial Optical Coherence Tomography

BEHAVIORAL • CLINICAL

POSTER DISCUSSION SESSION

A30 CHALLENGES AS OPPORTUNITIES TO IMPROVE LUNG CANCER DIAGNOSIS AND CARE

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

San Diego Convention Center

Room 11A-B (Upper Level)

- Poster Viewing 9:15-10:00
- Discussion 10:00-11:15
- 501 Nationwide Analysis of Lung Cancer Incidence Spanning Four Decades
- 502 Comorbid Heart Failure With Preserved Ejection Fraction (HFpEF) and Lung Cancer: Prevalence, Trends, and Impact on Outcomes From the National Inpatient Sample 2016-2020
- 503 Evaluating the Effect of Telehealth on the Quality of Shared Decision Making Conversations for Lung Cancer Screening
- 504 Perceived Barriers to Lung Cancer Screening in Asian Americans
- 505 Non-malignant Resection Rate in Lung Cancer Screening: A Cross-Sectional Analysis
- 506 The Characteristics of Genetic Variants in LAINS

- 507 The Dilemma of Patients Who “Age-out” of Lung Cancer Screening
- 508 Implementation of Navigator-Centric Lung Cancer Screening Program in a Large, Urban Safety Net Healthcare System
- 509 San Francisco Veterans Affairs Lung Cancer Screening Program: Impact of Recently Added Support From Veterans Health Administration’s Lung Precision Oncology Program
- 510 National Survey of Communication of Lung Cancer Screening Results in Veterans Health Administration Facilities
- 511 Stage Shift in Military Veterans Enrolled in Lung Cancer Screening Programs
- 512 Racial Disparity in Lung Cancer Screening and Detection Amongst Asians
- 513 A Tailored Decision Aid for Shared Decision Making Improves Understanding of Lung Cancer Screening in People With HIV
- 514 Inpatient Capture: A Community Based Mixed Methods Study to Develop an Inpatient Lung Cancer Screening Program at a Safety Net Hospital
- 515 Impact of a Secondary Review Process on a VA Lung Cancer Screening Program
- 516 Lung Cancer Screening for Individuals With Peutz Jeghers Syndrome
- 517 6 Month Follow Up of a Pilot Trial of Delayed Versus Immediate Financial Incentives for Smoking Cessation
- 518 Emergency Diagnosis of Lung Cancer Among Patients With Chronic Obstructive Pulmonary Disease in the United States
- 519 Association Between Race and Insurance Status With Follow-up Rates in Incidental Lung Nodules
- 520 Analysis of Demographics, Clinical Characteristics, and Outcome of Patients With Incidental Lung Nodules
- 521 Implementation and Impact of Virtual Multidisciplinary Consult Review on Timeliness of Care for Veterans With Thoracic Malignancy
- 522 Impact of Synoptic Reporting on Completeness of Systematic Endoscopic Lymph Node Sampling in Non-small Cell Lung Cancer Patients: A Post-hoc Analysis From the SEISMIC Study

- 523 Impact of Pretreatment Prognostic Nutritional Index (PNI) on Overall Survival in Patients With Metastatic Lung Cancer
- 524 Chronic Obstructive Pulmonary Disease Severity After Immune Checkpoint Inhibitor Treatment in Patients With Lung Cancer

BASIC • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

A31 IMMUNE CELL MOLECULAR ACTIVATION SWITCH IN LUNG INJURY AND INFLAMMATION

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

San Diego Convention Center

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P329 Dendritic Cells Activation in the Lungs of Mice Exposed to Aerosols of Flavored Vaping Liquid
- P330 Single-cell RNA Sequencing Analysis of Oncostatin M-Oncostatin M Receptor Signaling in the Lungs
- P331 Nasal Aspirate Cytokine Levels in Children Hospitalized With Rhinovirus A and Rhinovirus C Infections
- P332 Poly I:C Led to the Recruitment of Immunomodulatory, M2-like Monocyte-derived Macrophages into the Lungs in a Murine Asthma Model
- P333 Dysregulation of Bmal1 in Airway Epithelial Cells Caused a Decrease in Response to Glucocorticoid in HDM-induced Asthma
- P334 Patients With Methamphetamine-induced Pulmonary Hypertension Display Derangement in DNA-sensing Pathway in Myeloid-derived Cells
- P335 The Functional Immune Effects of the Platelet Storage Lesion
- P336 Effect of Dietary Fat on Lung Injury in a Murine Lung Ischemia-Reperfusion Model
- P337 Sleep Fragmentation Disrupts the Immune Landscape in the Murine Lungs

- P338 Glutamine-mediated Changes in the Activity of Alveolar and Bone Marrow-derived Macrophages
- P339 Three-dimensional Label-free Morphology of T Cells as a Biomarker for Immune Status in Lung Transplantation Patients
- P340 Bronchoalveolar Lavage Fluid Eosinophilia Is Associated With Worse Outcomes After Lung Transplant
- P341 Exertion of Lung TRM CD4⁺T Cells Might Ameliorate Pulmonary Nontuberculous Mycobacterial Disease
- P342 Piezo1 Ca²⁺ Channel Activity Is Augmented by *P. Aeruginosa* Flagellin Through TLR5-MyD88 to Promote RAC1-dependent Bacterial Clearance
- P343 Single-cell RNA Sequencing Analysis Identifies Long-term Alterations in Lung Epithelial Cell Distribution and Phenotype After EL-RSV Infection
- P344 The Anti-inflammatory Interaction of Human Surfactant Protein D (SP-D) With Monocyte-derived Dendritic Cells in Allergic Asthma
- P345 The Complex Interplay Between Glucagon-like Peptide-1 Receptor (GLP-1R) Signaling, Gut-lung Microbiome Axis and Bariatric Surgery in Obese, Chronically Allergen-challenged Mice
- P346 Patient-Level Insights into Maintenance of Good Inhaler Technique Over Time With Use of a Digihaler System
- P347 Intrapulmonary T Cells Are Sufficient for *Schistosoma*-induced Pulmonary Hypertension
- P348 Gut Barrier Dysfunction From Chronic Binge Alcohol Influences the Lung Response to Infection
- P349 T Cell Responses to Valley Fever
- P350 Lung Interstitial Macrophage Responses During and After Recovery From Pneumococcal Respiratory Infection
- P351 Inhibition of Inflammation and Fibrosis by Febuxostat Administration in a Mouse Model of LPS-induced Lung Injury
- P352 Early Diagnosis for *Bordetella Pertussis* and *Bordetella Parapertussis* Infection With Pertussis Antibody IgM, IgA, and IgM/IgA Ratio
- P353 When Control Mortality Rate Is High, Nicotinamide (NAM) Treatment Reduces Weight Loss and Increases Survival in a Mouse Hepatitis Virus-1 (MHV-1) Challenged Mouse Pneumonia Model: Results of a Randomized and Blinded Exploratory Study
- P354 Pulmonary and Hemodynamic Effects of Intratracheal Challenge With Rat Sialodacryoadenitis Coronavirus (RCoV-SDAV) in a Rat Pneumonia Model
- P355 The Effects of Nicotinamide Adenine Dinucleotide (NAD) Metabolite Treatment in Animal Models of Microbial and Microbial Toxin Challenges: A Systematic Review and Meta-analysis
- P356 Elucidating PERK Mediated Cytokine Release During Influenza Infection
- P357 Analysis of Murine Stool Reveals Significant Alteration of the Fecal Metabolome in Tryptophan Metabolism

BASIC • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

A32 BENCH TO BEDSIDE IN ILD

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

San Diego Convention Center

Area L (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1339 Clinical Factors for Development of Rheumatoid Arthritis in the Interstitial Lung Disease Cohort With Anti-cyclic Citrullinated Peptide Antibody
- P1340 Baseline Characteristics of Patients Enrolled in FIBRONEER™-IPF, A Phase III Randomized Placebo-controlled Trial of the Preferential PDE4B Inhibitor Nerandomilast (BI 1015550) in Patients With Idiopathic Pulmonary Fibrosis
- P1341 A Unique Phenotype of Sarcoidosis With Elevated Serum IgG4
- P1342 Automated 3D Body Composition Analysis (BCA) as a Potential Predictor of Overall Survival in Patients With Nonspecific Interstitial Pneumonia (NSIP)

- P1343** Toll Interacting Protein (TOLLIP) Gene Polymorphisms in Patients With Systemic Sclerosis (SSc) With and Without Interstitial Lung Disease (ILD): Association With Outcome and Survival
- P1344** Murine Multiple Challenge Bleomycin-Induced Model of Lung Fibrosis Features Elements of Human Idiopathic Pulmonary Fibrosis and Is Reverted by Nintedanib Treatment
- P1345** Microbiome Features in Bronchoalveolar Lavage Fluid of Patients With Idiopathic Inflammatory Myopathy Related Interstitial Lung Disease
- P1346** Differential Upregulation of Interferon-induced Genes in Monocytes of Connective Tissue Disease-related Interstitial Lung Disease
- P1347** Identifying a Genetic Link Between Lung Function and Psoriasis
- P1349** Dental Dyspnea Among Prosthodontists Is Associated With Amalgam Inhalation
- P1350** Studying How Aging Related Macrophage Changes in Transcriptional Regulatory Networks Drive Pulmonary Fibrosis
- P1351** Preclinical Interleukin Profile of RSBT-001: A First-in-Class, Steroid-free Immune Modulator in Development for Idiopathic Pulmonary Fibrosis
- P1352** Altered NKT Cell Populations in the Airways of Patients With IPF
- P1353** Evaluation of Fibrotic RNA-seq Signature Profile in a PPAR- γ Deficient Murine Model of Fibrosis
- P1354** Predictors of Mortality in Idiopathic Pulmonary Fibrosis: Forced Vital Capacity Decline and Other Surrogate Endpoints - A Literature Review
- P1355** Gut Microbiota Induce Pulmonary IL-6 Expression Through HIF-1 α Signaling in Murine ILD Models
- P1356** Effects of Antifibrotic Drugs on Transcriptome Analysis of Peripheral Blood Mononuclear Cells in Idiopathic Pulmonary Fibrosis
- P1357** Time-course of Eosinophilia Attenuated by Systemic Corticosteroid in Chronic Eosinophilic Pneumonia
- P1358** Quantitative Computed Tomography Predicts Outcomes in Fibrotic Hypersensitivity Pneumonitis

- P1359** Sputum Levels of Extracellular DNA Are Increased in Rheumatoid Arthritis-associated Interstitial Lung Disease and Correlate With Sputum Levels of Transforming Growth Factor- β
- P1360** A Multinational Phase 2, Randomized, Double-blinded, Placebo-controlled, Multiple-dose Study to Evaluate the Safety and Efficacy of FP-045, An Aldehyde Dehydrogenase 2 Activator in Patients With Pulmonary Hypertension Associated With Interstitial Lung Disease
- P1361** Sting Regulates the Progression of Pulmonary Fibrosis Via Glut1-dependent Glycolysis

BASIC • CLINICAL • TRANSLATIONAL
THEMATIC POSTER SESSION
A33 PUSHING THE IMMUNE SYSTEM TO THE LIMIT: CASE STUDIES

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

San Diego Convention Center

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P359** Common Variable Immunodeficiency: Experience of a Respiratory Service
- P360** Reporting a Case of Common Variable Immunodeficiency Presenting as Bronchiectasis
- P361** Unmasking Common Variable Immunodeficiency (CVID) Presenting as Asymptomatic Fluctuating Pulmonary Nodules: A Case Report
- P362** Aseptic Meningitis Unmasking a Diagnosis Common Variable Immunodeficiency (CVID) and Granulomatous Interstitial Lung Disease
- P363** A Landscaper's Worst Nightmare
- P364** A Case of Delayed Pleuropericarditis After Bilateral Lung Transplantation
- P365** Immune Cell Recovery in an Adult CGD Patient After T Cell Depleted Vertebral Bone Marrow Transplant (BMT) Following Bilateral Orthotopic Lung Transplant (BOLT) From the Same Partially HLA-matched Cadaveric Donor

- P366 West Nile Encephalitis: A Case of Severe Encephalitis Causing Flaccid Paralysis and Guillain-Barre Like Syndrome
- P367 Where Are the Antibodies? A Case of Prolonged COVID19 Infection in an Immunocompromised Patient Status Post Rituximab Therapy
- P368 A Drug Reaction Waking Up a Virus
- P369 Unmasking of Connective Tissue- Interstitial Lung Disease (ILD) Following COVID-19 Infection
- P370 Two Cases of Slowly-Progressive Anti-MDA-5 ILD Post COVID-19 Infection
- P371 Shot and Clot: With a Genetic Twist Unveiled
- P372 A Rare Case of Candida Pneumonia in a Patient With Presumed Idiopathic CD4 Lymphopenia
- P373 Opening the Pandora's Box: Unveiling Severe Immune Dysregulation and Coinfections in an HIV-positive Male
- P374 High-Risk Pulmonary Embolism and Acquired Protein C and S Deficiency in a Person With HIV/AIDS
- P375 Iris Associated HLH: Determining Appropriate Treatment Based on Underlying Etiology
- P376 Fluconazole Associated DRESS Syndrome in Patient With Coccidioidomycosis Pneumonia
- P377 Lamotrigine Induced Drug Reaction With Eosinophilia With Systemic Symptoms (DRESS) With HHV-6 Reactivation Causing Severe Encephalitis and Status Epilepticus
- P378 A Luminating Reaction: Anaphylactic Shock Following Lumason Administration
- P379 Nystatin Induced Laryngeal Edema - First Reported Case
- P380 Amlodipine: Not an Ace in the Hole
- P381 Indomethacin-induced Angioedema: A Rare and Challenging Case
- P382 A Case Report of Statin-induced Necrotizing Autoimmune Myopathy With Extramuscular Involvement
- P383 Hydroxychloroquine Induced Hypoglycemia
- P384 An Intriguing Case of Isolated Acute Severe Neutropenia Resistant to G-CSFS (Filgrastim) Can Cefazolin Be a Cause

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

A34 LATE BREAKING ABSTRACTS IN ASTHMA AND ALLERGIC INFLAMMATION

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

San Diego Convention Center

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P386 A Comparative Analysis of Angiotensin-Converting Enzyme (ACE) Inhibitor-Induced Angioedema Versus Other Causes to Assess the Overall Burden
- P387 The Nigerian Asthma Registry: Initial Insights and Emerging Trends
- P388 Evaluation of Clinical Remission Indicators in Asthma Patients Treated With Biologics in a Real-world Setting
- P389 De Novo Asthma in Post COVID-19 Patients in Lima, Peru
- P390 Plasma Pharmacometabolomics of Inhaled Corticosteroids-related Adrenal Suppression in Asthma
- P391 Safety of Mepolizumab With 7429 Patient-years of Exposure: Pooled Analysis From 4175 Patients in 32 Clinical Studies Across Multiple Indications
- P392 Hypertension in Asthma: Something to Pay Attention To?
- P393 Plasma and Pulmonary Lipidomic Analysis of Post-Tuberculosis Lung Disease: From TB Diagnosis to Microbiologic Cure
- P394 Breaking News: Latest Update on LQ036 - The First-in-Class Inhaled IL-4R α Single Domain Antibody
- P395 Relative Attenuation of Mannitol Challenge by Anti-IL5RA or Anti-IL4RA in Severe Uncontrolled Asthma
- P396 A First-In-Human Study of ARO-RAGE, A Novel Inhaled RNA-Interference Therapy for Asthma

- P397** Impact of Asthma on the Severity of COVID-19 Infection: 2020 National Inpatient Sample Analysis
- P398** Systemic Application of Pam3-FSL-1 Alters Antibody Isotype Composition and Reduces Experimental Allergic Airway Inflammation in Mice
- P399** Post-translational Modification of Human IL-33 Mediated by Protein Kinase C Family Impacts Cytokine Inflammatory Activity
- P400** Transforming Asthma Diagnosis: Point of Care (POC) Breath Test With Deep Neural Networks (DNNs) and Nanosensors
- P401** Advancing Asthma Management: Recurrent Neural Networks (RNNS) and Nanosensors for Precision Forecasting of Indoor Air Pollution
- P402** Oral Corticosteroid-sparing Effects of Mepolizumab in Eosinophilic Granulomatosis With Polyangiitis (EGPA): Results Up to 7.4 Years From the Long-term Access Programme
- P403** Cysteinyl Leukotrienes Are Required for Rhinovirus-induced Mucous Metaplasia in Immature Mice
- P404** 8-iso-prostaglandin F2alpha as a Biomarker of Type 2-Low Airway Inflammation and Remodeling in Adult Asthma
- P405** Effect of Dupilumab Treatment on Mucus Plugging and Mucus Volume in Type 2 Asthma: The Phase 4 VESTIGE Trial
- P406** Phase 1 Safety and Efficacy of AZD8630/AMG 104 Inhaled Anti-TSLP in Healthy Volunteers and Patients With Asthma on Medium-High Dose Inhaled Corticosteroid (ICS) and Long-Acting Beta-agonist (LABA) With Elevated Baseline Fractional Exhaled Nitric Oxide (FeNO)
- P407** Sympathetic Nervous Regulation of Lung Adaptive Immunity
- P408** Pathogenic Potential of CD8+ TEMRA^{hi} in Severe Asthma

BEHAVIORAL • CLINICAL**THEMATIC POSTER SESSION****A35 ASTHMA AND COPD: EPIDEMIOLOGY, TREATMENT, OUTCOMES, AND SOCIAL DETERMINANTS****9:15 a.m. - 4:15 p.m.****San Diego Convention Center****Area B (Hall A-B2, Ground Level)****Viewing:** Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees**12:30-1:15** Authors will be by their posters for individual discussion with attendees

- P111** Developing a Risk Calculator Tool to Reduce Respiratory Viral Transmission in Classrooms
- P112** Measuring Meaningful Change in Patients With Asthma Using the Asthma Daytime and Asthma Nighttime Symptom Diaries
- P113** Real-world Adherence to Biologics and Association With Health Outcomes in Patients With Asthma: A Systematic Literature Review
- P114** Experience With Biologic Therapy for Asthma in an Urban Hospital
- P115** Patient Characteristics and Treatment Patterns With Tezepelumab in the United States: An Early Claims Data Study
- P116** De-escalation of Asthma Therapy After Initiation of Biologics for Severe Asthma in an Ambulatory Setting
- P117** Assessing Inhaler Technique With Innovative Sensor Technology
- P118** Performance of a Portable Spacer Compared to the Metered Dose Inhaler Alone and a Commonly Recommended Spacer
- P119** Evaluation of Child-mask Spacers Using an Oro-nasopharynx Model for the Aerosol Delivery of a Widely Prescribed Corticosteroid
- P120** Patients' Views of Reliever Budesonide-formoterol Inhalers for Mild Asthma in the United States
- P121** Sales Trend Analysis of SABA, LABA/ICS and ICS Isolated in Brazil: A 2019-2022 Series
- P122** Timely Outcomes

- P123 Impact of Race on Adverse Outcomes From Asthma: Survey Results
- P124 Future Exacerbation and Patterns in Asthma Medications Among Patients With a History of ER Visit-related Exacerbation a 5-year Retrospective Longitudinal Study
- P125 Revisits Study: Evaluating for Enrollment Bias Across Diverse US Hospitals
- P126 Effectiveness of a Virtual Patient Simulation at Improving Identification of Worsening COPD and Referral for Endobronchial Valve Assessment
- P127 Clinical Pathways; Do They Make a Difference?
- P128 Racial Differences in End-of-Life Care Among Adults With Chronic Obstructive Pulmonary Disease
- P129 Examining Alignment of Patient Medication-taking Behaviors With Inhaler Usage Recommendations in Chronic Obstructive Pulmonary Disease and Asthma
- P130 Patterns in Patient and Provider Characteristics Over Time Among Patients Initiating Alpha-1 Proteinase Inhibitors
- P131 Observations From Real World Evidence: Uncovering Bias in Alpha-1 Antitrypsin Deficiency Testing
- P132 Comparison of 1-year Mortality Between Chronic Obstructive Pulmonary Disease (COPD) Vs Non-COPD Patients Undergoing Palliative Care
- P133 Association Between Serial Spirometric Improver Phenotype (Improved FEV1 Over Time) Versus Decliner Phenotype in Healthcare Utilization in Chronic Obstructive Pulmonary Disease
- P134 Hospitalizations for Respiratory Disease in Patients With Schizophrenia: Insights From a Large National Database in the United States
- P135 Evolution and Clinical Outcome of Small Airway Dysfunction (SAD)
- P136 Factors Predicting the Survival and the Type of Oxygen-Delivery Device Prescription in Long-term Oxygen Therapy Patients in France: A Nationwide Health Claims Database (SNDS) Study
- P137 Biologic Therapies for Moderate-to-Severe Asthma and Its Comorbidities: What Can Medical Education Reveal About Barriers to Their Adoption?

- P138 Forecasting Cost and Hospitalization Reduction in COPD Care Through Monte Carlo Simulations With Use of an AI-driven Clinical Decision Support System
- P139 Enrollment in Hospice and Outcomes Following a COPD Hospitalization

BEHAVIORAL • CLINICAL
THEMATIC POSTER SESSION
A36 PROGRESS IN LUNG CANCER AND LUNG CANCER SCREENING

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

San Diego Convention Center

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P713 Elemental Assessment of Educational Videos on the Awareness and Preventive Role of Low-dose CT Scan for Early Diagnosis of Lung Cancer in Smoker Population
- P714 Prevalence, Trends, and Impact of Cannabis Use Disorder on Hospitalization Outcomes of Lung Cancer Patients: A Nationwide Perspective 2016-2020
- P715 TiMeToAct: Text Messaging to Advance Lung Cancer Screening
- P716 Formative Development of a Population Management Approach to Engage High-benefit Veterans in Lung Cancer Screening
- P717 How to Improve Lung Cancer Screening Rates: Lessons From a University of Michigan Quality Improvement Initiative
- P718 Estimating Lung Cancer Screening Rates in a Large Academic Healthcare System
- P719 Disparities in Lung Cancer Screening Within an Integrated Healthcare System
- P720 Proposed Solutions to Improve Lung Cancer Screening Codesigned With Primary Care

- P721 Aortic Aneurysms (AA) as an Incidental Finding on Low Dose Computed Tomography (CT) for Lung Cancer Screening
- P722 Association of Race and Emergency Department Usage and Hospital Readmission Among Lung Cancer Patients
- P723 Differences in Patient Characteristics and Outcomes as a Factor of Race and Ethnicity Among Lung Cancer Screening Patients at an Academic Institution
- P724 Patient and Primary Care Provider Language Discordance and Lung Cancer Screening Referrals Among Spanish-speaking Patients
- P725 Impact of a Virtual Reality Anatomy Trainer on Endobronchial Ultrasound Performance
- P726 The Impact of Long-acting Liposomal Bupivacaine (LALB) on Pain Management for Chronic Opioid Users After Minimally Invasive Lung Resections
- P727 Trends in Opioid Use After Minimally Invasive Lung Resections: A Retrospective Analysis of Single Institution from 2017 to 2022
- P728 Electromagnetic Navigational Bronchoscopy Versus Robotic Bronchoscopy in the Evaluation of Peripheral Lung Nodules: A Retrospective Analysis
- P729 Lung Cancer 5-year Overall Mortality Differences by Stage and Race/Ethnicity in California
- P730 Testing the Assumption of Solid Nodule Attenuation When Nodule Attenuation Is Not Specified
- P731 Epidemiologic Study of Overall Survivability of Individuals Diagnosed With Lung and Bronchus Cancer in Michigan Between the Years 1996 to 2017
- P732 Underutilization of Low-dose Computed Tomography Scan for Lung Cancer Screening
- P733 County Vulnerability and Health Care Disparities Impact on Lung Cancer Incidence and Mortality in New York State

BEHAVIORAL • CLINICAL

THEMATIC POSTER SESSION

A37 SLEEP MEDICINE IN THE 21ST CENTURY

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

San Diego Convention Center

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P735 Obstructive Sleep Apnea Screening and Diagnostic Barriers
- P736 Predicting the Effect of Mandibular Advancement Device on Obstructive Sleep Apnea by Neck Computed Tomography
- P737 Evaluating the Cost-effectiveness of Different Diagnostic Approaches for Patients With Moderate to Severe Obstructive Sleep Apnea
- P738 Tailoring Social Support to Improve PAP Therapy Usage in Obstructive Sleep Apnea
- P739 Evaluation of the Diagnostic Accuracy of Automatic Polygraphy Analysis Versus Manual Analysis in Obstructive Sleep Apnea
- P740 Understanding Unique Diagnosis and Management Experiences of Shift Workers Living With Obstructive Sleep Apnoea (OSA) and Comorbid Sleep Apnoea and Insomnia (COMISA)
- P741 Mortality in Middle-aged and Older Adults Can Be Predicted by Their Self-reported Sleepiness
- P742 Breathful Nights, Awake to Wellness: A Physician-centered Quality Improvement Odyssey in Bridging Gaps in Awareness and Basic Approach to Obesity Induced Obstructive Sleep Apnea in a Community Hospital
- P743 The Obesity Conundrum: Can Obstructive Sleep Apnea Impact the Outcomes in Atrial Fibrillation Patients Undergoing Catheter Ablation? Analysis From the National Inpatient Sample 2017 - 2019
- P744 Patient Perception of CPAP During Hospitalization and Treatment of Newly Diagnosed Sleep Apnea

- P745 The Impact of Narcotics on Hospitalized Patients at Risk of Obstructive Sleep Apnea (OSA): A Retrospective Cohort Study
- P746 Impact of CPAP Termination on Permanent Work Disability in Obstructive Sleep Apnea: A French Nationwide Alaska Database Analysis
- P747 Respiratory Problems in Children With Down Syndrome: Experience in a Tertiary Center
- P748 Using Natural Language Processing for Qualitative Research: Insights From a Real-world Analysis
- P749 Improvement in Dyspnea and Sleep Disorders Following Bariatric Surgery as Measured by a New Heart Failure-specific Health-related Quality of Life Instrument

BEHAVIORAL • CLINICAL
THEMATIC POSTER SESSION
A38 HIGHLIGHTS OF BEHAVIORAL SCIENCE AND HEALTH SERVICES RESEARCH

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area L (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1363 Smoking Cessation Program to Implement Education, Prevention, Respiratory Health, and Early Respiratory Disease Detection in Vulnerable Minorities - Inspire Program
- P1364 Descriptive Analysis of Varenicline Use in Vulnerable Population
- P1365 Virtual Learning in GME: Adapting the Pandemic Staple to Suit the Post Pandemic Era
- P1366 The Treatment Landscape for Bronchiolitis Obliterans Syndrome (BOS) After Lung Transplant (LTx) in a Patient Sample From the United States
- P1367 Association of Community Distress With Transplant Waitlist Acceptance
- P1368 Validity and Patient Understanding of Symptom Verbal Response Scales in Chronic Rhinosinusitis With Nasal Polyps
- P1369 Care Fragmentation Among Veterans With Amyotrophic Lateral Sclerosis
- P1370 Clinical Evaluation of Artificial Intelligence Supported Software in the Interpretation of Spirometry Results in a Primary Care Setting
- P1371 High-quality FVC Through Automated AI-based Detection of Early Termination in Spirometry: A Comparative Analysis
- P1372 Is Onsite Spirometry Quality Predicting the Quality of Home Spirometry?
- P1373 Do Pulmonary Function Measures Added to the Veterans Aging Index Improve All-cause Mortality Prediction?
- P1374 Hospital-Level Variation in Advanced Treatments for Patients With Intermediate- and High-Risk Pulmonary Embolism
- P1375 3D Printing the Pleura: A Novel Solution to the Pleural Procedure Simulation Problem
- P1376 Projected Savings on Inhalers Purchased Via Mark Cuban Cost Plus Drug Company (MCCPDC) Versus Medicare Part-D
- P1377 Illness Uncertainty and Illness Communication Preferences Among Patients Undergoing Lung Transplant Evaluation
- P1378 Polysubstance Use Diminishes Lung Function in People With HIV
- P1379 Gabapentin as a Benzodiazepine-sparing Agent for Alcohol Withdrawal in the Inpatient Setting: A Retrospective Cohort Study
- P1380 Balancing Restorative and Comfort-oriented Care During Patient's Terminal Hospitalization: An Empirical Study
- P1381 Healthcare Disparities in Clinical Outcomes After Lung Transplantation
- P1382 Evaluating Gender-Neutral Vs. Gender-Specific FEV1 Indices to Predict All-Cause Mortality
- P1383 Eating Speed in Smokers Affects Lipid Abnormalities More Than Exercise Habits
- P1384 A Higher Dimensional Approach to Analyzing Veteran Burn Pit Examination Outcomes

- P1385** Experience of the First 105 Patients Seen at the Breathlessness Clinic a Joint Palliative Care and Advanced Lung Disease Clinic
- P1386** Utilization of the No One Dies Alone Program to Provide Support at the End of Life
- P1387** Impact of Discharging Hospitalized Patients With Chronic Hypercapnic Respiratory Failure on Non-invasive Ventilation in a Rural Appalachian Population
- P1388** Improving the Use of Telemetry Monitoring in Non-critical Patients
- P1389** Respiratory Rate Monitoring Using Acoustic Resonance and Kinematic Data From a Chest Wearable Patch
- P1390** Improving Care One Call at a Time: Using a Software-based, RT-directed, Remote Respiratory Program Reduces Hospitalizations by 62% in a Home Oxygen Patient Population
- P1391** Leveraging Tableau Dashboards for Enhanced Inpatient Pulmonary Care: A Data-driven Approach at the Mount Sinai Health System
- P1392** Awareness and Use of Water-pipe (Sisha) and E-cigarettes Use Among Medical Students in Nigerian Universities
- P1393** Outcomes of Electronic Medical Record (EMR) Intervention to Improve Vaccination Rates Among High Risk Patients With Pulmonary Disease
- P1395** Impact of a Structured Cadaveric Airway Training Course on Pulmonary and Critical Care Fellow Performance in Difficult Airway Scenarios in the Simulation Laboratory
- P1396** The Longitudinal Impact of an Airway Management Curriculum on Knowledge Acquisition and Maintenance in a Pulmonary and Critical Care Fellowship Program in Chicago
- P1397** A Comparison of Ventilator Interpretation Skills Between Attending Intensivists and Incoming Critical Care Fellows
- P1398** Impact of a Summer Mechanical Ventilation Course on Critical Care Attending and Fellow Ventilator Knowledge
- P1399** Assessment of Mechanical Ventilation Education Among Internal Medicine Residents
- P1400** Breathing Easy: A Simulation-Based Approach to Medical Education in the Intensive Care Unit
- P1401** No Longer a Resident, Not Yet an Attending: Creation of a Medical Education Track in Fellowship
- P1402** A Survey of Resident Education at Night in the Medical Intensive Care Unit
- P1403** Implementing a Structured Multidisciplinary Critical Care Curriculum for Critical Care Fellows at a Large Academic Medical Program
- P1404** Assessing the Quality of Internal Medicine Resident-led Code Status Discussions: A Multi-center Cross-sectional Study
- P1405** The Concept “Pathography”: A Qualitative Study With a Scaffolding Questionnaire Survey Among Healthcare Professionals
- P1406** The Impact of a Multimodal Teaching Intervention on Resident Physicians’ Knowledge About the ABCDEF Bundle and the Barriers to Its Implementation They Could Identify
- P1407** Moving Towards Interprofessional Teaching in the ICU: A Mixed Methods Study
- P1408** Poor Correlation Between Confidence and Competency in Central Line Insertions Among Junior Residents
- P1409** Training the Trainer: Simulation Curriculum to Prepare Residents to Supervise Central Line Insertions

BEHAVIORAL • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

**A39 EDUCATING THE EDUCATORS:
ADVANCES IN CRITICAL CARE
MEDICAL EDUCATION**

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area L (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: **11:30-12:30** Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1410 Evaluating MICU Orange: A Novel Procedural Training Format for Internal Medicine Resident Physicians
- P1411 Enhancing Confidence and Proficiency of Residents in Central Venous Catheter Placement: A Simulation-based Training Curriculum
- P1412 A Resident Championed Point of Care Ultrasound Critical Care Bootcamp for Internal Medicine Interns
- P1413 Early Recognition of Post-operative Atelectasis Using Lung Ultrasound Score. How Good Can We Get With a Brief Training of Trainees?
- P1414 Assessing the Efficacy of a Point-Of-Care Ultrasound Curriculum Delivered Via a Two-week Elective
- P1415 Effect of Lung Ultrasound Didactics on Trainees' Interpretation of Lung Sonograms
- P1416 Implementing a Novel Framework for Point of Care Ultrasound Education
- P1417 The Longitudinal Effectiveness of a Renal Point of Care Ultrasound Curriculum for Residents
- P1418 Analysis of an Advanced Point of Care Ultrasound Elective for Internal Medicine Residents
- P1419 Comparative Assessment of CO₂ Emissions in Various Delivery Methods of the Certain Critical Care Education Program
- P1420 Differences in Perceptions of Difficulties Facing Trainees Who Are Under Represented in Medicine Between Training Program Leaders and Trainees
- P1421 Evaluation of Non-Technical Resuscitation Skills in the ICU Using In-Situ Simulation Video
- P1422 A Novel Augmented Reality, Artificial Intelligence Bronchoscopic Positioning Tool Improves Bronchoscopy Performance Skills Compared With Instructor Delivered Feedback - A Randomised Controlled Trial

BEHAVIORAL • CLINICAL

THEMATIC POSTER SESSION

A40 IMPLEMENTING BEST PRACTICES IN THE ICU

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

San Diego Convention Center

Area L (Hall H, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1424 Nurse Knowledge and Attitudes Towards the Use of Peripherally Administered Vasoactive Medications
- P1425 A Descriptive Overview of Deviations From an Institutional Peripheral Vasopressor Protocol Across an Academic Health System
- P1426 Safety of Peripheral Venous Catheter Administration of Vasopressors
- P1427 Safety and Efficacy of Hypertonic Saline Administration Through Midline Catheters
- P1428 Collaborative Practice: Implementing a Vancomycin Pharmacy Consulting Service and Education Curriculum
- P1429 Reducing Carbapenem Resistant Enterobacterales (CRE) Hospital Acquired Infections by Implementing a Prevention Bundle
- P1430 The ICU Line Cart: A QI Initiative to Address Supply Waste and Procedural Time
- P1431 The Effects of Remodeled Respiratory Departments in Treating COVID-19 Patients During Omicron Period in West China: A Propensity Score-matched Study
- P1432 Prospective Study Assessing Pulse Oximetry Accuracy on Diverse Population of Critically-ill Adults
- P1433 Twice Daily Extubation Readiness Assessment to Promote Timely Extubation, ICU Delirium Prevention and LOS Reduction
- P1434 Appropriateness and Adequacy of Oxygen Prescription and Delivery Practices at University of Nigeria Teaching Hospital (UNTH) Ituku-ozalla, Enugu in South East Nigeria

- P1435 **A Guide to Electrolyte Repletion in the Intensive Care Unit: A Quality Improvement Project**
- P1436 **Health Equity and Order Set Use in Sepsis Patients**
- P1437 **Optimizing Early Enteral Feeding Initiation in Mechanically Ventilated Patients: The Efficacy of Resident-Driven Interventions**
- P1438 **Pathway for the Screening and Treatment of Patients With Eating Disorders in an Adult Hospital**
- P1439 **Characterizing the Most Common Diagnostic and Treatment Orders in Patients With Clinical Deterioration and Association With Patient Outcomes**
- P1440 **Predictors of Post-ICU Disposition for Patients With Diabetic Ketoacidosis**
- P1441 **“Downgrading With a Purpose”: A Single-center Quality Improvement Project Attempting to Streamline ICU Downgrades and Maximize Resource Efficiency**
- P1442 **Post ICU Care Syndrome (PICS): How Far Behind We Are?**
- P1443 **Strategic Health Systems Investments to Improve Critical Care Capacity and Pandemic Response in Low- and Middle-income Countries**
- P1444 **ID to IV: An Alternative Electronic Process Measure to SEP-1 Associated With Improved Mortality Risk**
- P1447 **Characterization of Longitudinal Mortality Risk Across Putative Glycemic Ranges in Elderly Patients With Sepsis or Septic Shock Who Underwent Critical Care Medicine: A Learning Health Care System Initiative**
- P1448 **Hypoglycemia During ICU Stay Is Associated With Increased Risk of One-year Death in Critically Ill Patients**
- P1449 **Hypoglycemia in Non-diabetic ICU Patients Is Associated With Higher Mortality**
- P1450 **The Impact of Pancreatitis on Inpatient Outcomes and Intensive Care Utilization During Hospitalizations for Hyperglycemic Crises**
- P1451 **Outcomes in Patients With End-Stage Liver Disease and Rapid Response Activation**
- P1452 **Complementarity of the Modified Nutrition Risk in Critically Ill (mNUTRIC) Score and the Global Leadership Initiative on Malnutrition (GLIM) Criteria to Predict Hospital Mortality in Critically Ill Patients**
- P1453 **Gender-based Disparities in Outcomes of Hemophagocytic Lymphohistiocytosis Related Hospitalizations: A Propensity Matched National Study**
- P1454 **Clinician Perspectives on Recognizing and Responding to Oncologic Sepsis at a Comprehensive Cancer Center**
- P1455 **Temporal Trends in Critical Care Utilization and Outcomes in Allogeneic Hematopoietic Stem Cell Transplant Recipients**
- P1456 **CAR T-cell Patients in the ICU: Not the Surge of Patients We Were Expecting**
- P1457 **Incidence of Cardiac Complications in the Intensive Care Unit After Blood or Marrow Transplantation**
- P1458 **Effect of Plasmapheresis (PLEX) on In-hospital Outcomes of Vasopressor Dependent Septic Shock (VDSS) in a Nationwide Readmission Database (NRD)**
- P1459 **Prevalence and Characteristics of Anemia After Intensive Care**
- P1460 **Venous Thromboembolism (VTE) in Patient Undergoing Abdominal Cancer Surgery: Risk Factors, Risk Models, and Outcomes**
- P1461 **Balancing Budgets and Bleeding: Analyzing Teg’s Economic Impact in the ICU**

BEHAVIORAL • CLINICAL • TRANSLATIONAL
THEMATIC POSTER SESSION
**A41 REVIEWING ALL THE SYSTEMS:
ADVANCES IN NON-PULMONARY
CRITICAL CARE**

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area L (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1446 **Stress-induced Hyperglycemia Was Associated With In-hospital Mortality in Critically Ill Medical Patients**

- P1462 A Model of Prolonged Pre-renal Azotemia Is Feasible and Is Associated With Increased Serum IL-6 and Pulmonary Neutrophil Accumulation
- P1463 Artificial Intelligence in Continuous Renal Replacement Therapy
- P1464 The Impact of Haloperidol on the Intensive Care Unit Delirium Outcomes: A Systematic Review and Meta-analysis of Randomized Controlled Trials
- P1465 Retrospective Review of Patients Intubated in the Emergency Department for Airway Protection
- P1466 An Exploration of Alcohol Withdrawal Protocols With a Focus on the Use of Phenobarbital
- P1467 Prevalence and Diagnoses Associated With In-hospital Mortality After Intensive Care Unit Admission Related to Substance Use
- P1468 Recent Methamphetamine Use in Critically Ill Patients: Hospital Course, Outcomes, and ICU Interventions
- P1469 Comparing Length of Stay Between Adult Patients Admitted to the Intensive Care Unit With Alcohol Withdrawal Syndrome Treated With Phenobarbital Versus Lorazepam
- P1470 Impact of the COVID-19 Pandemic on Analgesia Practices: A Retrospective Single Center Analysis
- P1471 Health Care Disparities and Neuro Critical Care Illnesses Related Mortality in the United States
- P1472 Clinical Features and Factors Associated With Increased Mortality in Patients Admitted With Traumatic Brain Injury in a Multidisciplinary ICU: A Single-center Retrospective Cohort
- P1473 Improvement of Stroke Outcomes in Critical Care and Intermediate Care Patients
- P1474 Bleeding Events in a Midline Versus Lateral Approach for Paracentesis
- P1475 Optimizing Nutritional Support in the Critically Ill: Evaluation of a Dedicated Team Approach to Placement of Nasojejunal Feeding Tubes
- P1476 Pharmacokinetics of Phenobarbital in Ex-vivo Extracorporeal Membrane Lung

BEHAVIORAL • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

A42 TREATING THE WHOLE PERSON IN AND AFTER THE ICU: HOLISTIC ICU CARE, TEAM COMMUNICATION, AND LONG-TERM OUTCOMES

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

San Diego Convention Center

Area L (Hall H, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1478 Implementation of ICU Diaries at an Academic Medical Center: A Pilot Project
- P1479 A Trip to Paris - Post-acute Respiratory Illness Service to Combat Post Intensive Care Syndrome
- P1480 Neuropsychiatric Outcomes Following Extracorporeal Support
- P1481 No Association of Sedation and Memory Type With Post-intensive Care Psychological Distress
- P1482 "We're Mind, Body, and Spirit:" Listening and Attending to Patients' Spiritual Needs in the Medical Intensive Care Unit
- P1483 Incidence of Long COVID in Patients With COVID-19 Requiring Invasive Mechanical Ventilation
- P1484 Expectations for Recovery in Patients With COVID-19 Versus Non-COVID19 Acute Respiratory Failure
- P1485 An Expanding Gap: Future Practice Plans and Propensity for Service in Underserved Areas Among Internal Medicine Fellowship Graduates
- P1486 Perceptions of Resident Physicians and Hospitalists on Handoff Documentation Quality During Patient Transitions From MICU to Ward
- P1487 Rapid Response, A Quality Improvement Project Focusing on Improving Communication Amongst Nurses and Physicians
- P1488 Impact of Resident Led Daily Quality Improvement Goal Sheets on Patient Management During Multidisciplinary ICU Rounds

- P1489** The Impact of Patient-Provider Communication on Stress in a Hospital Setting
- P1490** Life After Critical Illness: A Descriptive Study of Clinical Characteristics and Discharge Locations of Adults After ICU Hospitalization
- P1491** Developing Consensus Methods to Analyze Patient-centered Outcomes Missing Due to Death in Clinical Trials
- P1492** An Advance Care Planning Clinic for High-risk Patients: A Feasibility Study

CLINICAL

THEMATIC POSTER SESSION

A43 SHOCK AND AWE: NOVEL SHOCK CASES IN THE ICU

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area K (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1169** New Silver Bullet for the Management of Shock? A Case of Refractory Mixed Septic and Cardiogenic Shock Treated With PMX Hemofiltration
- P1170** A Fatal Case of Fulminant Lymphocytic Myocarditis Caused by Staphylococcal Toxic Shock Syndrome
- P1171** The Brash Syndrome: A Self-perpetuating Cycle Associated With Hemodynamic Compromise
- P1172** Shocking and Dangerous Racing of the Heart
- P1173** Carotid Hypersensitivity From a Peritonsillar Abscess
- P1174** Echocardiography for Dissection Flap in Descending Thoracic Aorta
- P1175** Weil's Disease Manifesting as Possible Cholangiocarcinoma With Shock and Cardiac Complications
- P1176** Total Colonic Necrosis and Small Bowel Ischemia in a Patient With Acute Severe Pancreatitis
- P1177** When Your Skin Makes You Sick: Toxic Shock Syndrome Following Eczema Herpeticum
- P1178** Critical Hemodynamic Considerations for Adult Patients With Tetralogy of Fallot and Prior Blalock-Thomas-Taussig Shunt Surgery
- P1179** Aortic Insufficiency: A Hit to the Heart
- P1180** Deadly Air - Fatal Trio of Pneumopericardium, Pneumomediastinum and Pneumoperitoneum
- P1181** Coxsackievirus B Cardiomyopathy as an Underlying Cause of Unexplained Heart Failure and Rapid LV Function Deterioration
- P1182** Brugada Syndrome Discovered After Cardiac Arrest
- P1183** Rapid Development of Cardiogenic Shock From Coxsackie Virus B5 Dilated Cardiomyopathy
- P1184** The Right Side of Cardiogenic Shock: A Case of Beta-Blocker Induced Cardiogenic Shock in a Female With Suspected Pulmonary Hypertension
- P1185** BRASH: A Deadly Acronym
- P1186** Myxedema Coma Triggering BRASH Syndrome
- P1187** Unmasking the Enigma: Spontaneous Coronary Artery Dissection Unveiling a Complex Case of Cardiac Arrest
- P1188** Influenza Induced MIS-A With Refractory Shock in a Patient With Preexisting Pituitary Hypophysitis
- P1189** Fatal Case of Systemic Capillary Leak Syndrome in Acute Diverticulitis
- P1190** Silent Suffering: Substance Use and Anchoring Bias
- P1191** Unmasking Toxic Shock Syndrome: A Silent Threat
- P1192** Role of Methylene Blue in Patients With Refractory Shock
- P1193** Streptococcal Toxic Shock Syndrome Masquerading as Stroke Alert
- P1194** Multiorgan Failure in Acute Chest Syndrome A Rare Subtype of ACS
- P1195** Lower Extremity Cellulitis Resulting in Strep Pyogenes Bacteremia With Toxic Shock Syndrome Complicated by Multisystem Organ Failure
- P1196** Streptococcal Toxic Shock Syndrome Masquerading as Necrotizing Fasciitis: A Case Report
- P1197** Elevated Inflammation Sepsis Phenotype as a Potential Risk Factor for Propofol Related Infusion Syndrome: A Case Report

- P1198 Beware of Sneaky Lymphomas, When Sepsis Is Not Sepsis!
- P1199 A Case of Dermatologic Dilemma With Shock
- P1200 Cardiogenic Shock From Capnocytophaga Canimorsus in an Immunocompetent Host
- P1201 Refractory Anaphylactic Shock to Rattlesnake Bite Envenomation
- P1202 Wait a Secondary... Severe Septic Shock in the Setting of Secondary Bacterial Peritonitis
- P1203 Catastrophic Convergence: Refractory Septic Shock and Multisystem Failure in a Case of Hidradenitis Suppurativa Complicated by Fournier's Gangrene and Bilateral Pulmonary Embolism
- P1204 Unmasking Postoperative Sepsis: The Importance of Considering Postoperative Sepsis in the Afebrile Patient
- P1205 Disseminated Histoplasmosis - A Rare Cause of Shock in Non-HIV Patient
- P1206 Rare Cardiac Metastasis of Lung Cancer Mimicking Aneurysm and Tamponade
- P1207 Go With Your Heart or Go With Your Gut - A Shocking Conundrum
- P1208 Fatal Cardiac Tamponade From Loculated Pericardial Effusion
- P1209 Pulse Pressure Variation: An Underutilized Resource in Critical Care
- P1210 Hypothermic Coma: Should the Arctic Sun Be Utilized More Instead of Invasive Management?
- P1211 Multifactorial Shock: Managing a Patient With Septic Shock and Left Ventricular Outflow Tract Obstruction
- P1212 Spontaneous Coronary Artery Dissection in a 22 Year Old Male With Ulcerative Colitis
- P1213 A Sepsis as a Primary Issue; A Case Report of Reversible Stress Induced Cardiomyopathy
- P1214 An Unusual Presentation of Cardiac Tamponade and Opportunities for Early Identification in Rural and Community Hospital Settings
- P1215 A Slow Beat and a Dizzying Feat: COVID-19 Related Bradyarrhythmia - A Case Report
- P1216 Running Out of Time: A Quick Assessment of Hypovolemic Shock
- P1217 Lumason Administration Leading to Anaphylactic Shock
- P1218 A Rare Cause of Toxic Shock Syndrome
- P1219 A Case of Emphysematous Gastritis With Septic Shock and Clostridioides Difficile
- P1220 A Rare Case of Septic Shock: The Weil-D Side of Leptospirosis
- P1221 Bladder Dome Perforation Presenting as Refractory Septic Shock and Acute Abdomen
- P1222 Exertional Heat Stroke Leading to Acute Liver Failure and Transplant Evaluation
- P1223 Prognostication Uncertainty Can Result in Preventable Deaths in Critically Ill Patients: Time Is of Essence

CLINICAL

THEMATIC POSTER SESSION

A44 4/4 BOTTLES OF WHAT?! ENDOCARDITIS AND BACTEREMIA CASE REPORTS

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

San Diego Convention Center

Area K (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: **11:30-12:30** Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1225 IV Drug Use and Infectious Endocarditis With Tricuspid Aortic Valve Infection and Acquired Gerbode Defect
- P1226 An Uncommon Presentation of Opportunistic Enterococcus Raffinosus Bacteremia in a Critically Ill Patient
- P1227 Heart Block Is a Rare Complication of Mitral Valve Endocarditis: Awareness Is a Key
- P1228 A. Defective Mitral Valve: A Rare Bacterial Endocarditis
- P1229 Pacemaker Failure and Severe Bioprosthetic Valve Endocarditis Treated With Angiovac to Obtain Negative Cultures

- P1230 **Stuck to the Heart: A Rare Case of Candida Endocarditis With Pericardial Involvement**
- P1231 **Unmasking the Unusual: Cryptococcal Pericarditis in a Patient With Liver Failure - A Rare Occurrence**
- P1232 **Greetings From New York: A Fatal Case of Septic Shock Caused by Sporosarcina Newyorkensis**
- P1233 **Guillain-Barré Syndrome With Concurrent Implantable Cardioverter-Defibrillator Related Endocarditis: All Hands on Deck**
- P1234 **Biventricular Implantable Cardiac Defibrillator Endocarditis Requiring Explant and Prolonged Antibiotic Course Due to Recurrent Septic Thromboemboli**
- P1235 **Follow the Lead: A Case of Septic Shock Caused by Culture Negative Endocarditis Requiring Pacemaker Explantation**
- P1236 **A Case of Infective Endocarditis Complicated by Intracardiac Fistula and Systemic Embolization**
- P1237 **Pseudoendocarditis, An Uncommon Mimic**
- P1238 **Elizabethkingia Meningoseptica Pneumonia and Bacteremia With Septic Shock: A Case Report**
- P1239 **Acute Epiglottitis Due to Combined COVID-19 Infection and Haemophilus Influenzae Bacteremia**
- P1240 **Austrian Syndrome Ended With Hearing Loss**
- P1241 **A Case of Heart Murmur and Hemorrhage-diffuse Alveolar Hemorrhage Caused by Infective Endocarditis**
- P1242 **You Heard Me Right! A Rare Case of Proteus Mirabilis Endocarditis**
- P1243 **It Starts With a Rash: Cutaneous Symptoms of Candidemia in a Pancytopenic Critically Ill Patient**
- P1244 **Persistent Candida Auria Fungemia in a New Left Ventricular Assist Device Recipient**
- P1245 **Neisseria Flavescens Bacteremia in an Otherwise Immunocompetent Host**
- P1246 **A Rare Bug Leaving Its Mark on the Heart**
- P1247 **Monomicrobial Clostridium Difficile Bacteremia: An Exceptionally Rare Presentation of Bowel Ischemia**
- P1248 **A Rare Case of Shewanella Algae Bacteremia**
- P1249 **Native Valve Corynebacterium Endocarditis With Concurrent Prosthetic Valve: Why This Valve?**
- P1250 **Clostridium Difficile Bacteremia: Going Beyond the Gut**
- P1251 **A Trifecta of Challenges: A Case Report of Triple Valve Endocarditis**
- P1252 **A Rare Case of Candida Auris Fungemia Leading to Cardiac Arrest**
- P1253 **Having a Leg up From Chronic Stasis Dermatitis: A Rare Case of Myroides Bacteremia in an Immunocompetent Host**
- P1254 **Clostridium Subterminale Bacteremia in a Patient With Metastatic Pancreatic Adenocarcinoma - A Culprit or Colonizer?**
- P1255 **Unearthing Septic Pulmonary Emboli in the Absence of Endocarditis**
- P1256 **The Centor Criteria - A Pain in the Neck? A Case of Lemierre Syndrome Following Presumed Viral Pharyngitis**
- P1257 **A Day on the Beach, a Risk for Vibrio Vulnificus Septicemia**
- P1258 **Can MRSA Really Do That? A Rare Case of Acute Cholecystitis With MRSA Bacteremia**
- P1259 **Yellow Fin and Vibio: Fishing Misadventures on the Alabama Gulf Coast**
- P1260 **Lemierre Syndrome - Forgotten but Fatal**
- P1261 **Persistent Methicillin-Susceptible Staphylococcus Aureus Bacteremia Secondary to an Infected Internal Jugular Vein Thrombus: Diagnosis and Management**
- P1262 **Intraparenchymal Hemorrhage From Infective Endocarditis: A Case of Double Trouble**
- P1263 **Aortic Root Abscess and Bivalvular Endocarditis: The Importance of Clinical Suspicion and Management of Risk**
- P1264 **Austrian Syndrome in the Intensive Care Unit: The Forgotten Osler's Triad**
- P1265 **Rare Case of Prosthetic Aortic Valve Endocarditis**
- P1266 **A Devastating Case of Septic Pulmonary Emboli**
- P1267 **Saved by Sepsis? A Type B Aortic Dissection Complicated by Clonidine Withdrawal Masked by MRSA Bacteremia**

- P1268 From Cryptic Peritonitis to Disseminated Cryptococcal Disease and Multiple-Species Fungemia in an Immunocompetent Host
- P1269 To Bite or Not to Bite: A Case of Non-bite Pasteurella Multicoda Resulting in Severe Septic Shock
- P1270 The Unintended Consequences of Man's Best Friend: Cardiac Arrest and Septic Shock in the Setting of Capnocytophaga in an Immunocompromised Patient
- P1271 Silent Threat in the ICU: Achromobacter Xylosoxidans' Deadly Grip
- P1272 Aerococcus Urinae: A Rare Urinary Bacterium With Fatal Cardiac Complications
- P1273 From the Sea to the ICU: The Unexpected Journey of Vibrio Vulnificus Compartment Syndrome
- P1274 Disseminated Cryptococcosis in an HIV Negative Patient on Hemodialysis
- P1275 Staphylococcal Isolated Anterior Mediastinal Abscess of Unknown Origin
- P1276 Guardian's Revenge: When an Infected Watchman Device Became the Enemy
- P1281 Pneumopericardium Due to Esophagopericardial Fistula
- P1282 Pericardial Tamponade With Obstructive Shock as the Presenting Feature of Metastatic Adenocarcinoma of Lung
- P1283 Diagnostic Dilemma of Pericardial Effusion. A Heart Under Attack!
- P1284 Bewildering Boerhaave's Syndrome: Esophageal Perforation Leading to Bilateral Empyema Amidst Substance Use Disorder
- P1285 Esophageal Perforation-induced Spontaneous Hydropneumothorax Secondary to a Large Hiatal Hernia
- P1286 BRAF VUS Mutation in a Newborn With Chylothorax: Therapeutic Response to Trametinib/MEK1 Inhibition
- P1287 Chylothorax in the Setting of Multi Vessel Upper Extremity Deep Vein Thrombosis
- P1288 An Extremely Rare Case of Spontaneous Idiopathic Hemothorax
- P1289 A Case of Discrepancy Between Machine-Generated and Clinically Observed QTc
- P1290 A Case of Long QT Syndrome Masquerading as Epilepsy
- P1291 Factitious Elevation of Plasma Free Hemoglobin in a Patient Undergoing VV-ECMO With Hypertriglyceridemia
- P1292 Pulmonary Artery Catheter Directed Alteplase Infusion to Treat Prosthetic Mitral Valve Thrombosis in a Patient on ECMO
- P1293 A Case of Acute Limb Ischemia in a Patient Compliant With Anticoagulation for a Previous COVID Related Venous and Arterial Thromboemboli
- P1294 Critical Illness in Pregnancy: A Peri-partum Approach
- P1295 Boerhaave Syndrome: A Rare Cause of Pleural Effusion
- P1296 Rare Case of Rasmussen's Bronchial Aneurysm Rupture
- P1297 Know Your Enemy: A Rare Case of Diabetic Myonecrosis With Simultaneous Upper and Lower Extremity Involvement

CLINICAL

THEMATIC POSTER SESSION

A45 VARIETY IS THE SPICE OF LIFE: CRITICAL CARE CASE REPORT POTPOURRI

9:15 a.m. - 4:15 p.m. **San Diego Convention Center**
Area K (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1278 When Changing Perspectives Takes Your Breath Away: A Case of Positional Intracardiac Shunt
- P1279 Large Pericardial Cyst in a Lung Transplant Patient
- P1280 Primary Chylopericardium: Unveiling an Atypical Presentation

- P1298 **The Hidden Lesion: A Case of Post-Obstructive Pneumonia From Squamous Cell Carcinoma Noted on BAL**
- P1299 **Blood Stretched Thin: Hemorrhaging and Coagulating in a Jehovah's Witness**
- P1300 **Case Report of Angioimmunoblastic T-Cell Lymphoma Presenting as Spontaneous Lysis Tumor Syndrome and Hemolytic Anemia**
- P1301 **Cascading Complexities: A Remarkable Case of AML With Recurrent Strokes and Diffuse Alveolar Hemorrhage**
- P1302 **Systemic Amyloidosis in Multiple Myeloma: A Case of Rapid Multiorgan Deterioration**
- P1303 **A Rare Cause of Acute Tumor Lysis Syndrome: Intravascular Diffuse Large B Cell Lymphoma**
- P1304 **The Chamber Plops: A Case of a Right Atrial Fibroelastoma**
- P1305 **Cause and Effect: Long Covid and High-grade B-cell Lymphoma**
- P1306 **The Role of Anchoring Bias in the Delayed Diagnosis of Metastatic Angiosarcoma**
- P1307 **Rare Presentation of Spontaneous Tumor Lysis Syndrome in a Patient off Chemotherapy for Metastatic Invasive Ductal Carcinoma of the Breast**
- P1308 **Idiopathic Mega Esophagus Causing Airway Obstruction**
- P1309 **Minimally Invasive Management of Large Pancreatico-pleural Fistula in Acute Pancreatitis**
- P1310 **Unique Case of Scrotal Fistula Complicating Severe Necrotizing Pancreatitis**
- P1311 **Anchoring in the Abdomen - An Unusual Presentation of Perforated Bowel**
- P1312 **Gastrointestinal Sarcoidosis: A Rare Clinical Presentation**
- P1313 **Unveiling the Hidden Threat: Acute Liver Injury in Influenza A Infection**
- P1314 **An Unexpected Cause of Acute Liver Failure**
- P1315 **A Rare Case of Hemobilia Due to Varices**
- P1316 **Duodenal Varices: A Rare Cause of Upper Gastrointestinal Bleeding**
- P1317 **The Narrower, the Puffier: SVC Syndrome Presenting as Recurrent Angioedema**
- P1318 **A Rare Case of Non-traumatic Splenic Rupture Following Portal Vein Thrombosis**
- P1319 **A Unique Presentation and Treatment of Prosthetic Aortic Valve Thrombosis in the Setting of Malignancy Induced Hypercoagulability**
- P1320 **Atrial Fibrillation With Rapid Ventricular Response in Pediatric Lupus Carditis Following Pulse Steroid Therapy**
- P1321 **An Interesting Case of Atrial Fibrillation Induced by Cold Drinks**
- P1322 **Unmasking the Brugada Pattern: A Unique Case of Brugada Pattern Emergence in a Patient With Acute Diverticulitis**
- P1323 **Unveiling the Enigma: Coronary Artery Dissection in Fibromuscular Dysplasia - A Rare Yet High Stakes Threat**
- P1324 **A Storm is Brewing: A Case of Occult Giant Cell Arteritis-Induced Aortitis**
- P1325 **The Role of Point of Care Ultrasound in Congestive Heart Failure**
- P1326 **Microcephalic Osteodysplastic Primordial Dwarfism Type II and Acute Coronary Syndrome**
- P1327 **Subvalvular Aortic Membrane**
- P1328 **A Curious Case of Presumed Cardiac Amyloidosis**
- P1329 **Takotsubu Cardiomyopathy in the Setting of COVID-19 With Tachycardia/Bradycardia Syndrome**
- P1330 **Large Left Atrial Myxoma Discovered During Restaging of Breast Cancer**
- P1331 **On the Fast Track to Accurate Diagnosis: POCUS for Rapid Detection of Venous Thrombus**
- P1332 **Mechanical Thrombectomy for a Clot in Transit With Adherence to the Tricuspid Valve**
- P1333 **Unprovoked Sub-Massive PE With Associated Large Right Atrial Thrombus in a 39 Male With History of Drug Use**
- P1334 **Managing Intermediate High-Risk Pulmonary Embolism in a Patient With Deep Venous Thrombosis: A Case Report**
- P1335 **Carbamazepine-Induced Drug Rash With Eosinophilia and Systemic Symptoms (DRESS) Syndrome and Pneumocystis Jirovecii Infection: A Case Report**

- P1298 **The Hidden Lesion: A Case of Post-Obstructive Pneumonia From Squamous Cell Carcinoma Noted on BAL**
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- P831 Pulmonary Manifestations in Psoriasis: A Single Center Experience
- P832 Interdisciplinary Collaboration in the Care of Patients With Connective Tissue Disease-related Interstitial Lung Disease: An Interview Study
- P833 The Safety Profile of Transbronchial Lung Biopsy in Patients With ILD Undergoing Tissue Collection for the Envisia Genomic Classifier
- P834 Assessment of Clinical Status Post Envisia Genomic Analysis in a Cohort With Parenchymal Infiltrates
- P835 Adding an Exposure History and BAL Fluid Analysis to an Envisia Genomic Classifier Test Enhances IPF Diagnostic Confidence
- P836 Clinical Significance of Bronchoalveolar Lymphocytosis and Genomic Classifier in Interstitial Lung Disease
- P837 Impact of the COVID-19 Pandemic on a Longitudinal Program to Screen for Subclinical Familial Pulmonary Fibrosis
- P838 Predictors of Pulmonary Hypertension in Patients With Interstitial Lung Disease
- P839 Assessing the Utility of Serological Markers and Patient Demographics in Connective Tissue Disease Interstitial Lung Disease (CTD-ILD) Diagnosis: A Retrospective Analysis
- P840 Anti-Mi-2-associated ILD: A Unique Disease or a Mixed Picture?
- P841 Predictors of Relapse of Aminoacyl tRNA Synthetase Syndrome Associated Interstitial Lung Disease
- P842 Comparison of Diagnostic Accuracy Between Pre- and Post-Transplant ILD Diagnosis in Patients Referred From Sub-specialty ILD Clinics Versus Community
- P843 Six-minute Walk Test: Clinical Significance in Pulmonary Hypertension in Patients With Idiopathic Pulmonary Fibrosis
- P844 Breathless Battle: Unmasking Immune Checkpoint-inhibitor Pneumonitis in Cancer Patients - A Case Series
- P845 Reliability of Inspiratory Crackles in Patients With Pulmonary Fibrosis: A Prospective, Longitudinal Study
- P846 Improved Time to Diagnosis for Ultra Rare Lung Diseases in a National Referral Centre
- P847 The Pattern of Cardiac Lesions' Onset in Sarcoidosis Patients
- P848 Impact of Instilled Saline Volume on Adequate Bronchoalveolar Lavage Sample in Interstitial Lung Disease Diagnosis
- P849 Challenges in Detecting Progressive Pulmonary Fibrosis in Patients With Primary Sjögren's Syndrome-associated Interstitial Lung Disease
- P850 A Preliminary Conceptual Model of Cough Symptoms and Impacts in Interstitial Lung Disease
- P851 Acute Exacerbation of Idiopathic Pulmonary Fibrosis Triggered by COVID-19 Infection: Semi-Quantitative Evaluation With Computed Tomography
- P852 Multiple Breath Washout (MBW) Testing to Determine Pre-clinical Airway Involvement in Patients With Systemic Sclerosis (SSc) Without Lung Disease as a Risk Factor for Developing Interstitial Lung Disease (ILD)
- P853 The Impact of CT Manufacturer and Slice Thickness on the Ability of ScreenDx, An AI-based Algorithm, to Detect Incidental Pulmonary Fibrosis
- P854 Remote Patient Monitoring of ILD Patients Using Oxygen

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

A47 ILD OUTCOMES

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

San Diego Convention Center

Area H (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P856 Patterns and Prevalence of Progressive Pulmonary Fibrosis in Combined Pulmonary Fibrosis and Emphysema

- P857** Analyzing Outcomes in COPD Patients With Coexistent Interstitial Lung Disease Admitted for COPD Exacerbation: A Population-based Study Using the National Inpatient Sample
- P858** Exploring the Influence of Protein-energy Malnutrition in Patients With Interstitial Lung Disease: A Nationwide Inpatient Analysis
- P859** Sexual Dysfunction Is Common in Patients With Fibrotic Interstitial Lung Disease: A Mixed Methods Study
- P860** Long-term Air Pollution Exposure Is Associated With Increased Severity of Idiopathic Pulmonary Fibrosis in the IPF-PRO Registry
- P861** Clinical Impact of Small Airway Dysfunction in Idiopathic Pulmonary Fibrosis
- P862** 3-month Change in Hyperpolarized ¹²⁹Xe MRI Membrane Uptake Predicts 6-month Change in Lung Function in Patients With Idiopathic Pulmonary Fibrosis
- P863** Impact of COVID-19 on Exacerbations and Mortality in Interstitial Lung Disease at Long-term Follow-up: A Nationwide Population-based Cohort Study
- P864** Small Airways Disease on Computed Tomography Is Associated With Interstitial Lung Abnormality Presence and Progression
- P865** Multidimensional Severity Index to Pneumoconiosis: The BCDS Score
- P866** Survival in Familial Pulmonary Fibrosis According to the Phenotype
- P867** The Characteristics and Outcomes of Interstitial Lung Disease With Preserved Pulmonary Function
- P868** Incremental Burden of Pulmonary Hypertension Among Patients With Non-connective Tissue Disease-related Interstitial Lung Disease in the Real-world Setting
- P869** Incremental Burden of Pulmonary Hypertension Among Patients With Connective Tissue Disease-related Interstitial Lung Disease in the Real-world Setting
- P870** Interstitial Lung Disease as an Emerging Contributor to Mortality in Patients With Inflammatory Bowel Disease: An Epidemiologic Analysis
- P871** Malnutrition Associated With Worse Outcomes in Patients Admitted With Idiopathic Pulmonary Fibrosis Exacerbation
- P872** The Clinical Impact of Heart Failure With Preserved Ejection Fraction in Interstitial Lung Diseases
- P873** Post-operative Outcomes in Patients With Pulmonary Sarcoidosis in Relation to Lung Explant Pathology
- P874** How the 2022 European Society of Cardiology (ESC) and European Respiratory Society (ERS) Guidelines Affect Our Understanding of Mortality in Non-IPF ILD
- P875** Significance of Pulmonary Vasculopathy in Idiopathic Pulmonary Fibrosis Diagnosed by Surgical Lung Biopsy
- P876** The Effect of Race on Diagnosis and Clinical Outcomes for Anti-synthetase Syndrome Associated Interstitial Lung Disease- A Single Center Study
- P877** Frailty, Sarcopenia, and Multimorbidity as Predictors of Adverse Outcomes in Older Veterans With Idiopathic Pulmonary Fibrosis on Antifibrotics
- P878** Pulmonary Complications and Bronchoscopy Utilization in Patients With Lung Cancer Receiving Immune Checkpoint Inhibitor Therapy
- P879** Prevalence, Characteristics and Progression of Interstitial Lung Abnormalities in Patients With Lung Cancer Resection: A Single Center Report
- P880** Impact of Resources in Reducing Depression in Patients With Chronic Fibrosing Interstitial Lung Disease
- P881** The Prevalence and Risk Factors of Progressive Interstitial Lung Abnormalities in a Large Health Checkup Population in Japan
- P882** Exertional Hypoxemia Post COVID
- P883** A Comparison Between COVID-19 Patients With Underlying Connective-Tissue Disease Related Interstitial Lung Disease Versus Idiopathic Interstitial Lung Disease: A Nationwide Analysis 2019-2020
- P884** Organizing Pneumonia in Hospitalized COVID-19 Patients: Risk Factors and Long-term Outcomes
- P885** Comparative Outcomes of Patients With Interstitial Lung Disease With and Without Atrial Fibrillation: A Nationwide Study From 2011-2018

- P886 A Real-world Study of Patients With Combined Idiopathic Pulmonary Fibrosis and Lung Cancer
- P887 Minimal Impact of Age \geq 80 on Outcomes in Veterans With Idiopathic Pulmonary Fibrosis Receiving Antifibrotic Therapy
- P888 The Effect of Frailty on Patient Engagement and Outcomes Using Remote Digital Monitoring in Interstitial Lung Disease
- P889 Progression of Shadows and Prognosis After Lung Cancer Surgery in Cases With Interstitial Lung Abnormalities
- P890 Changing Pattern of Clinical Features and Prognosis in Newly Diagnosed Idiopathic Pulmonary Fibrosis
- P891 Changes in Lung Function and Changes in Patient-reported Outcomes in Patients With Idiopathic Pulmonary Fibrosis (IPF)
- P892 Diabetes: A Potential Modifiable Risk Factor for Patients With Pulmonary Hypertension and Sarcoidosis
- P893 Predicting Survival of Patients With Connective Tissue Disease-associated Interstitial Lung Disease Using GAP Model
- P894 Argentine Patients With Autoimmune Related Interstitial Lung Diseases: First Results From the EPIMAR II Registry
- P895 Factors Associated With Progression of Interstitial Lung Disease in Patients With Systemic Sclerosis (SSc-ILD)
- P896 Factors Associated With Symptomatic Interstitial Lung Disease in Patients With Systemic Sclerosis (SSc-ILD)
- P897 Respiratory-Related Hospitalization and Mechanical Ventilation in Patients With Idiopathic Pulmonary Fibrosis: Data From the IPF-PRO Registry
- P898 Development of a Prediction Model for Acute Exacerbation in Idiopathic Pulmonary Fibrosis: A Study of the Korea IPF Cohort Registry
- P899 Prognostic Prediction for Patients With Idiopathic Interstitial Pneumonia: Nationwide Prospective Registry, Japanese Idiopathic Interstitial Pneumonias (JIPS) Registry (NEJ030)
- P900 Pleuroparenchymal Fibroelastosis: Natural History and Pharmacotherapy in a Tertiary Center Cohort
- P901 Combined Pulmonary Fibrosis and Emphysema :highlitings Through Risk Factors for Poor Patient Outcomes
- P902 Prevalence of Depression in Participants With ILD Versus COPD in a Large Metropolitan Health System
- P903 Acute Exacerbation of Interstitial Lung Disease Specific Comorbidity Index (AEILD-CI) to Assess the Risk of In-hospital Death: A Prospective Cohort Study
- P904 Risk Factors at Baseline Evaluation Associated to Initiation of Long Term Oxygen Therapy on Follow Up in Fibrotic Interstitial Lung Disease
- P905 Evaluating Lung Cancer Risk Factors in Adults With Interstitial Lung Disease
- P906 Sociodemographic Associations for Early Hospital Readmission Following Hospital Admission for Interstitial Lung Disease in a Large National Database in the United States
- P907 Clinical, Radiological, Physiological, and Histological Impact of Cigarette Smoking on Appalachian Coal Miners
- P908 Evaluation of Pre-treatment Risk Factors for Development of Trastuzumab Deruxtecan Associated Pneumonitis

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

A48 COPD EXACERBATIONS AND HOSPITALIZATIONS: DETERMINANTS AND DRIVERS

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

San Diego Convention Center

Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

P141 Multivariable Prediction of Exacerbations in a COPD Population: A Prospective Analysis

P142 Modified COPD Exacerbation Recognition Tool for Recognition of the Exacerbations of COPD in China

- P143 Treatment Patterns and Determinants of Maintenance Therapy for Patients With Stable and Exacerbated COPD: Insights From a Multi-center Cohort Study in China
- P144 Frequent Productive Cough in COPD Patients Without Exacerbation History Is Associated With Increased Risk of Exacerbations and a Treatment Benefit From Budesonide/Glycopyrrolate/Formoterol Fumarate: A Post Hoc Analysis of Kronos
- P145 Lactate Dehydrogenase Isoenzymes (LDH) as Biomarker for Prediction of Acute Exacerbation and Mortality of Chronic Obstructive Pulmonary Disease (COPD)
- P146 Diffusing Capacity for Carbon Monoxide Values as a Prognostic Factor for Acute Exacerbation and Exercise Performance in Chronic Obstructive Pulmonary Disease Patients
- P147 Impact of COPD Exacerbations and CT-Emphysema on Presence of Pleural Adhesions in Patients Undergoing Video-Assisted Thoracoscopic Surgery (VATS) Lung Resection
- P148 Is Hypercapnic COPD Exacerbation an Indicator to Look for Pulmonary Hypertension?
- P149 Treatment of Acute Exacerbations of COPD at the Emergency Departments in Israel
- P150 Relation Between Blood Platelet Count and Clinical Parameters in Chronic Obstructive Pulmonary Disease (COPD): A Nationwide Cohort in Korea
- P151 Association of Acute Exacerbations With Exercise Performance in Chronic Obstructive Pulmonary Disease (COPD) Patients: A Three-year Follow-up Study
- P152 The Relation Between Pulmonary Artery to Aorta Ratio and Poor Clinical Outcomes in Patients Hospitalized With Acute Exacerbation of Chronic Obstructive Pulmonary Disease
- P153 Malnutrition Associated With Worse Outcomes in Patients Admitted With Acute Chronic Obstructive Pulmonary Disease Exacerbation: A Nationwide Study
- P154 Demographic and Clinical Characteristics Predictive of Hospital Readmission for Acute COPD Exacerbation After 1 and 3 Months Post-Discharge
- P155 In-hospital Outcomes for Patients on Long-term Systemic Steroids Admitted With Acute Exacerbation of Chronic Obstructive Pulmonary Disease
- P156 Impact of the COVID19 Pandemic on the Outcomes and Mortality of COPD Exacerbation Patients: A Retrospective Study of the National Inpatient Sample
- P157 The Impact of Hispanic Ethnicity on Mortality in Veterans With COPD and Palliative Care Consultation in the South Texas Veterans Health Care System
- P158 Frailty on In-hospital Death in Older Patients With Acute Exacerbation of Chronic Obstructive Pulmonary Disease: A Real-world Prospective Cohort Study
- P159 Association Between Severe Cardiovascular Events and Time Following Exacerbations of COPD: Meta-analyses of EXACOS-CV Observational Studies From 8 Countries
- P160 Exacerbations of Chronic Obstructive Pulmonary Disease and Cardiovascular Diseases (EXACOS-CV): A Database Study in China on Mortality and Severe Cardiovascular Events

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

A49 RESEARCH STUDIES AND CASE REPORTS IN INTERVENTIONAL PULMONARY AND PLEURAL DISEASE

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

San Diego Convention Center

Area C (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees.

P197 Video Games and Procedural Skills Acquisition in Pulmonology and Critical Care Medicine: A Systematic Review

P198 Creation and Implementation of a Dedicated Curriculum for Pulmonary Fellows Rotating in an Interventional Pulmonary Service Based on Educational Goals of Trainees and Program Directors

- P199 Association Between Pulmonary Hypertension and Bleeding in Transbronchial Biopsy at the Altitude of Bogota**
- P200 Utility of 3D Mobile Fluoroscopy for Guiding Transbronchial Lung Cryobiopsy**
- P201 Autologous Endobronchial Blood Patch in Two Middle Age Male Patients From Puerto Rico**
- P202 Whole Lung Lavage in Treatment of Primary Alveolar Proteinosis**
- P203 Video-Enabled Double-Lumen Tube: Innovative Use in Whole Lung Lavage in Pulmonary Alveolar Proteinosis**
- P204 Diagnostic Yield and Complication Rates in High-risk Patients Undergoing Robotic Bronchoscopy for Workup of Lung Nodules**
- P205 Investigating Diagnostic Yield and Complications When Sampling Central Versus Peripheral Lung Nodules With Navigational Bronchoscopy: A Single Center Analysis**
- P206 An Apocalyptic Dilemma: With the Rise of the Robot, Are We Doing Biopsies of Every Last of Us?**
- P207 Revolutionizing Lung Lesion Assessment: Robotic Navigation Bronchoscopy's Potential for Concurrent Evaluation of Cavitory Lesions and Peripheral Nodules**
- P208 Lymphomatoid Granuloma Due to EBV Presenting as an Isolated FDG Avid Pulmonary Nodule Diagnosed by Robotic Bronchoscopy in an Immunocompetent Person**
- P209 Detection of Post-procedural Pneumothorax Using Lung Ultrasonography**
- P210 A New Ultrasound Standard for Evaluating Pleural Line Thickness**
- P211 The Value of Hand Held Portable Ultrasound in the Early Detection of Pneumothorax Following Lung Biopsy**
- P212 Clinical Outcomes of Inpatient Compared to Outpatient Placement of Indwelling Pleural Catheters**
- P213 Intrapleural Fibrinolytic Therapy in Loculated Malignant Pleural Effusion: A Case Series**
- P214 Outcomes of Non-specific Pleuritis in Patients With Undiagnosed Exudative Pleural Effusion at a Tertiary Care Center**
- P215 Improving Eligibility Assessment for Bronchoscopic Lung Volume Reduction: A Critical Analysis of Lehigh Valley Health Network's Screening Procedures**
- P216 CT Screening for Severe Emphysema Using Automated QCT Software - What Are We Missing?**
- P217 Improving Pleural Fluid pH Accuracy: A Quality Improvement Project**
- P218 Efficacy and Safety of a New Type of Intraairway Hemostatic Balloon Catheter in the Treatment of Hemoptysis**
- P219 Are Single-use Thin and Ultrathin Bronchoscopes Effective Tools to Help You Treat Critically Ill Patients?**
- P220 Current Issues in Availability of Reusable Thin and Ultrathin Bronchoscopes in Bronchoscopy**
- P221 Evaluation of the Suction Capabilities of Currently Available Single-use Flexible Bronchoscopes: A Bench Study**
- P222 Comparative Performance of Novel Single-use Thin and Ultrathin Bronchoscopes**
- P223 Experimental Model of Chest Trauma: A Clinically Relevant Model of Retained Hemothorax Amenable to Testing Intrapleural Fibrinolytic Therapy**
- P224 Bacteraemia Following Endo-bronchial Ultrasound (EBUS) Guided Trans-bronchial Needle Aspiration (TBNA) - Incidence and Implications From a Prospective Single Center Study**
- P225 Value of Repeating Diagnostic Work Up on Pleural Fluid in Patients With Recurrent Pleural Effusion**
- P226 Novel Use of Mini Convex EBUS Bronchoscope for Diagnosis and Staging of Thymic Neoplasms**
- P227 Use of Endoscopic Ultrasound to Diagnose Mesothelioma**
- P228 Bronchoscopic Cryoablation via Cone-Beam Computed Tomography-Guided Electromagnetic Navigation: A Novel Approach for Mycetoma Management**

- P229 Bronchoscopic Removal of Recurrent, Bilateral Aspergillomas in a Person With Cystic Fibrosis (Pwcf) Who Underwent Double Lung Transplant With Polymicrobial Pulmonary Colonization and a Trial of Preprocedural Antibiotics
- P230 Correlation With Pneumothorax (Spontaneous and Secondary) and Weather Change
- P231 Characterizing GVHD Serositis
- P232 Optimal Bronchoscopy Specimens to Diagnose Pulmonary Coccidioidomycosis Using Ion Robotic Bronchoscopy in an Endemic Population
- P233 Risk Factors for a Prolonged Inpatient Stay in a Retrospective Bacterial Empyema Patient Cohort
- P242 Pancreaticopleural Fistula: A Rare Cause of Recurrent Pleural Effusion
- P243 Pancreatitis as a Pulmonary Pathology: A Rare Case of a Pancreaticopleural Fistula Presenting as Recurrent Pleural Effusions Causing Mediastinal Shift
- P244 Pancreatic Pleural Effusion: A Rare Complication of Chronic Pancreatitis
- P245 Inflammatory Interloper: A Case of Intrathoracic Pancreatic Pseudocyst Leading to Respiratory Failure
- P246 Left-Side Mystery: Unusual Cause of Chest Fluid - A Case Report

CLINICAL

THEMATIC POSTER SESSION

A50 ALL ABOUT EFFUSIONS: BILE, CHYLE, URINE, PANCREATIC FLUID, AND OTHER RARE CASE REPORTS

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area C (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P235 Recurrent Chylothorax as a Manifestation of Pleural Kaposi Sarcoma
- P236 Throwing Up a Chylothorax
- P237 A Case of Yellow Nail Syndrome With Recurrent Pleural Effusion Treated With Indwelling Plural Catheters and Vitamin E
- P238 A Hearty Lung Problem: Constrictive Pericarditis as a Cause for Chylothorax: A Case Report
- P239 Milky Way of the Thorax: A Unique Case of Chylothorax in Seropositive Rheumatoid Arthritis
- P240 Chylothorax Following Partial Nephrectomy - A Case Report of a Rare Cause of Chylothorax
- P241 Transudative Chylous Pleural Effusion and Chylous Ascites: A Rare Manifestation of Liver Cirrhosis
- P247 Triple Whammy: Pleural Puzzle in Pancreatic Pseudo-cyst and Diabetes Mellitus
- P248 Iatrogenic Bilothorax Following Dislodgment of Cholecystostomy Tube
- P249 A Case of Bilothorax in a Patient With a Hepatic Abscess
- P250 A Rare Case of Urinothorax in the Setting of Acute Renal Failure Secondary to Bilateral Ureteropelvic Junction Obstruction
- P251 Exudative Urinothorax in a Renal Transplant Patient With Graft Rejection
- P252 Parapneumonic Effusion Arising Due to Long Standing Biliary Disease
- P253 Not All Pleural Effusions Are Bloody: The Rare Cause and Therapy of a High-Flow Chylothorax
- P254 Got Milk-y Lavage?
- P255 Non-Eosinophilic Exudative Pleural Effusion Induced by Valproic Acid
- P256 Dressler's Syndrome Is Making a Comeback: Massive Pleural Effusion After Atrial Fibrillation Ablation
- P257 A Case of Dexlansoprazole Induced Lupus Presenting With Pericardial and Pleural Effusions
- P258 A Breath-Taking Triad, Rare Case of Pseudo-Meigs Syndrome in a Patient With Benign Leiomyoma
- P259 An Unusual Cause of Pleural Effusion
- P260 Sometimes Less Is More. A Case of Dasatinib Induced Pleural Effusion in a Patient With Chronic Myelogenous Leukemia

- P261 An Uncommon Cause of Pleural Effusion Due to Ovarian Hyperstimulation Syndrome: A Case to Report
- P262 Eosinophilic Effusion: A Classic Finding in a Nonclassic Presentation
- P263 A Case of Pulmonary Amyloidosis Presenting as Right Sided Pleural Effusion
- P264 Persistent Pleural Effusions With AL Amyloidosis
- P265 Extra Pleural Hematoma vs Hemothorax: A Unique Case of Ambiguous CT Findings
- P266 Isolated Cryptococcus Neoformans Empyema Presenting as Hydropneumothorax
- P267 The Great Masquerader: Whipple's Disease Mediated Mucosa Associated Lymphoid Tissue as a Pleural Effusion
- P268 Known Complication With Unknown Mechanism: Dasatinib Induced Pleural Effusion
- P269 Pleural Effusion Associated With Polyostotic Fibrous Dysplasia Improving With Non-steroidal Anti-inflammatory Drugs
- P270 A Case of Adalimumab-induced Pleuritis
- P271 Massive Goiter Causing Chylothorax in a Medically Complex Patient
- P272 A Case of Kaposi Sarcoma Masquerading as Bilateral Pleural Effusions in a Patient With Orthotopic Heart Transplant
- P273 Methimazole-Induced Hypothyroidism Presenting as Recurrent Thoracic Cavity Effusions and Ascites
- P274 Atypical Sjogren's Disease Presenting as an Isolated, Exudative, Lymphocytic Pleural Effusion
- P275 A Rare Cause of Unilateral Bloody Lung: Thoracic Endometriosis Syndrome
- P276 Decoding the Enigma of Eosinophils in Pleural Fluid
- P277 Eosinophilic Pleural Effusion Secondary to Spontaneous Splenic Rupture
- P278 Eosinophilic Pleural Effusion and Eosinophilic Pneumonia Following Prolonged Daptomycin Administration
- P279 Clinical Puzzle Unveiled: Cholangiocarcinoma in Pleural Fluid a Rare Case Report
- P280 When You Hear Hooves...

- P281 The Missing Link Between Hypoxia and Thrombocytopenia
- P282 Metastatic Papillary Thyroid Carcinoma Discovered by Paramalignant Effusion
- P283 A Curious Case of Pleural Effusion
- P284 Loculated Pleural Effusion Due to Differentiation Syndrome in a Patient With Acute Myeloid Leukemia on Enasidenib

CLINICAL

THEMATIC POSTER SESSION

A51 CASE REPORTS IN AUTOIMMUNE-RELATED LUNG DISEASE

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

San Diego Convention Center

Area A (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1 A Perfect Storm: A Perilous Presentation of Systemic Lupus Erythematosus
- P2 Asymptomatic and Slowly Progressive Anti-MDA5 ILD
- P3 Plasma-Exchange Treatment for Fulminant Anti-Nuclear Matrix Protein 2 Positive Dermatomyositis
- P4 Multi-vessel Ischemia: A Rare Manifestation of Polymyositis
- P5 Slowly Resolving Pneumonia in Primary Care Setting: Interstitial Lung Disease Associated With Antisynthetase Syndrome: A Case Report
- P6 Weak Muscles May Mean a Strong Case for Interstitial Lung Disease
- P7 A Case of Refractory Interstitial Lung Disease in Anti-Synthetase Syndrome With Isolated Anti-Ro-52
- P8 Mass-Like Lesions on Chest CT in a Woman with Quiescent Crohn's Disease
- P9 Nintedanib for Progressive Pulmonary Fibrosis in Anti-Aminoacyl-tRNA Synthetase (ARS) Positive Dermatomyositis

- P10** Nonspecific Interstitial Pneumonia Associated With Undifferentiated Connective Tissue Disease: A Challenging Case
- P11** Lip and Cheek: Sjogren's Syndrome Complicated by Lymphocytic Interstitial Pneumonia and Parotid Mucosal Associated Lymphoid Tissue Lymphoma
- P12** Celebrating Discovery: From Enigma to Enlightenment - The Anti-Cyclic Citrullinated Peptide Antibody (Anti-CCP) Trail in Rheumatoid Arthritis-Associated Interstitial Lung Disease (RA-ILD) Diagnosis
- P13** A Rare Case of Pulmonary Amyloidosis Causing Cystic Lung Disease in Sjogren's Syndrome
- P14** Precapillary Pulmonary Hypertension in Dermatomyositis: Multiple Mechanisms of Disease
- P15** A Case of Asymptomatic "Limited" Scleroderma Causing Interstitial Lung Disease
- P16** ILD Associated Dermatomyositis vs COVID Organizing Pneumonia
- P17** Anti-U3 RNP Positive Interstitial Lung Disease in a Patient Without Systemic Sclerosis
- P18** Early Diagnosis and Treatment of Rapidly Progressive Interstitial Lung Disease Caused by Clinical Amyopathic Dermatomyositis
- P19** Acute Pulmonary Manifestations and Management of Idiopathic Inflammatory Myopathies
- P20** A Wolf in Sheep's Clothing: Drug Induced Lupus Masquerading as Pleural Sepsis
- P21** Catastrophic Antiphospholipid Syndrome as a Unique Trigger for Rapidly Progressive Interstitial Lung Disease
- P22** Progressive Interstitial Lung Disease Associated With Anti-MDA5 Positive Dermatomyositis
- P23** Recurrent Secondary Diffuse Alveolar Hemorrhage in an Immunocompromised Scleroderma Patient With Recent Aspergillus Infection
- P24** An Unusual Association of Respiratory Bronchiolitis and Ankylosing Spondylitis: A Case Report
- P25** When the Vocal Cord Speaks the Truth: A Complex Case of Extra-articular Rheumatoid Arthritis
- P26** A Rare Case of Steroid-dependent Rheumatoid Lung Disease Without Joint Manifestations
- P27** Immune-mediated Myositis With Bulbar Involvement Leading to Respiratory Failure: A Rare Adverse Effect of Pembrolizumab
- P28** Shrinking Lung Syndrome With Diaphragm Myopathy and Phrenic Neuropathy
- P29** Systemic Lupus Erythematosus Presenting Primarily as Pulmonary Arterial Hypertension?
- P30** A Rare Case of Anti- Melanoma Differentiation-associated Gene-5 Dermatomyositis With Acute Interstitial Lung Disease
- P31** Anti-Ro52 Antibody Positive Interstitial Lung Disease in an Elderly Male
- P32** Cyclophosphamide in the Treatment of Shrinking Lung Syndrome
- P33** Rituximab for Rapidly Progressive MDA5 Dermatomyositis-Associated Interstitial Lung Disease
- P34** Don't Be Fooled! Acute on Chronic Respiratory Failure in Polymyositis - A Case Report
- P35** A Rare Disease in an Unlikely Patient: Initial Presentation of Anti-OJ Positive Antisynthetase Syndrome in the ICU
- P36** Weakness and Weight Loss: An Atypical Presentation of Interstitial Lung Disease Related to Rheumatoid Arthritis and Anti-Synthetase Syndrome Overlap
- P37** Plasmapheresis Exchange as Rescue Therapy in Rapidly Progressive Anti-synthetase Syndrome: A Case Report
- P38** Loculated Rheumatoid Effusions Treated With Alteplase-dornase
- P39** Pleural Disease and Systemic Lupus Erythematosus Associated With Breast Implant Illness
- P40** Unmasking the Rash and Breathlessness Puzzle: A Dermatopulmonary Conundrum
- P41** MDA-5 Associated Dermatomyositis: A Case of Delayed Care and Dire Consequences
- P42** Lymphocytic Interstitial Pneumonia in a Patient With Sjogren's Disease
- P43** Pulmonary Nodulosis Secondary to Leflunomide in a Patient With Rheumatoid Arthritis Overlap Follicular Bronchiolitis

CLINICAL

THEMATIC POSTER SESSION

A52 CASE REPORTS IN DRUG-INDUCED LUNG DISEASE

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area A (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P45** **Crimson Clouds of Cocaine: Diffuse Alveolar Hemorrhage Related to Cocaine Intoxication**
- P46** **Breathing Blue: Sulfasalazine-Induced Methemoglobinemia and Hypoxemia**
- P47** **Minocycline Induced Parenchymal Lung Disease with Peripheral Eosinophilia**
- P48** **Sirolimus Safely Used in a Patient After Everolimus-induced Pneumonitis: A Case Report**
- P49** **A Case of Acute Eosinophilic Pneumonia Secondary to Daptomycin**
- P50** **Intramuscular Progesterone: A Cause of Acute Eosinophilic Pneumonitis**
- P51** **Amiodarone-induced Acute Respiratory Distress Syndrome After Atrial Fibrillation Catheter Ablation and Watchman Device Implant**
- P52** **Daptomycin-induced Lung Injury**
- P53** **A Popping Case of Fibrotic Interstitial Lung Disease in the Setting of Inhaled Amyl Nitrite Use**
- P54** **Who's to Blame? A Case of Drug-Induced Pneumonitis With Multiple Potential Culprits**
- P55** **Diffuse Alveolar Hemorrhage Secondary to Hydralazine-induced Vasculitis Causing Pulmonary-renal Syndrome**
- P56** **Case Report of Methotrexate Induced Pneumonitis**
- P57** **Amiodarone Pulmonary Toxicity or Fulminant Mycoplasma: The Dilemma With Ground Glass Opacities**
- P58** **Eosinophilic Storm: Unraveling Daptomycin Induced Eosinophilic Pneumonia**
- P59** **Breathless on Ibrutinib: A Rare Case of Drug Induced Pneumonitis**
- P60** **Cracking the Code: A Case of "Crack Lung" in a Grandmother With a "Crazy Paving" Pattern on Chest Computed Tomography**
- P61** **Immunotherapy's Double-edged Sword: Deciphering Pneumonitis With Elahere**
- P62** **Community Acquired Pneumonia or Hydralazine-Induced Vasculitis - A Clinical Dilemma**
- P63** **A "Tail" of Caution: Pioglitazone Induced Recurrent Pleural Effusion**
- P64** **Diaphragmatic Involvement of Pembrolizumab - Induced Myopathy Leading to Type II Respiratory Failure**
- P65** **A Case of Penicillin Induced Acute Eosinophilic Pneumonia With Diverse Symptoms**
- P66** **Hydroxyurea Induced Interstitial Pneumonia: A Rare Clinical Entity**
- P67** **Acute Hypoxic Respiratory Failure Secondary to Daptomycin-induced Eosinophilic Pneumonia**
- P68** **Adalimumab-Induced Desquamative Interstitial Pneumonia in a Nonsmoker**
- P69** **A Rare Case of Hydralazine-Induced Diffuse Alveolar Hemorrhage**
- P70** **From Relief to Risk: Menace of Injecting Crushed Antihistamine Pills: A Case Report**
- P71** **Daptomycin-Induced Eosinophilic Pneumonia (DIEP)**
- P72** **Naltrexone: An Unexpected Infectant**
- P73** **When in Doubt, Examine the Medication List: A Rare Case of Daptomycin-Induced Lung Injury**
- P74** **Hyperacute Presentation of Amiodarone Induced Pulmonary Toxicity**
- P75** **A Rare but Potentially Fatal Reaction in Plain Sight: Trimethoprim-Sulfamethoxazole Induced Acute Lung Injury**
- P76** **Amiodarone Not the Only Anti-arrhythmic Wreaking Havoc on the Lung: A Case of Flecainide Induced Pneumonitis**
- P77** **Hydralazine Induced Pleuropericarditis With Bilateral Eosinophilic Pleural Effusions**

- P78 A Rare Presentation of Daptomycin-induced Eosinophilic Pneumonia in a Patient With Klinefelter's Syndrome
- P79 Hydralazine to Pulmonary Hemorrhage: A Case of Drug Induced Vasculitis
- P80 Azith and the Myth
- P81 Acute Onset of Multiorgan Toxicity With Bilateral Pleural Effusions Within 6 Weeks of Initiation of Amiodarone Therapy
- P82 Crack Lung: A Case Report of a Rare but Serious Complication of Crack Cocaine Smoking
- P83 Whippet Too Hard: Nitrous Inhalant Abuse Leading to Acute Lung Injury
- P84 A Case of Non-cardiogenic Pulmonary Edema Secondary to Fentanyl Overdose
- P85 Beyond the High: The Association Between Cocaine Use and Severe Pulmonary Arterial Hypertension in a 48-year-old Patient
- P86 No-lax-zone: Side Effects That Can Steal Your Breath Away
- P87 Oxidants Happen - A Case of Acquired Methemoglobinemia Due to AZO Overuse
- P88 Rare Case of Life-threatening Angioedema Induced by DPP-4 Inhibitor
- P290 Combined Pulmonary Fibrosis and Emphysema in Appalachia
- P291 Organizing the Haziness: A Case of Cryptogenic Organizing Pneumonia
- P292 Improvement in Pulmonary Function in a Patient With ILD Following Semaglutide Therapy
- P293 Progressive Refractory Interstitial Lung Disease Due to Recurrent Aspiration in Bulimia Nervosa
- P294 It's All in History
- P295 Cryptogenic Organizing Pneumonia and Concomitant Usual Interstitial Pneumonia: An Unusual Presentation With an Accelerated Time-course
- P296 Rituximab Induced Organizing Pneumonia: A Case Report
- P297 Unravelling the Unexplained: Cancer of Unknown Origin Presenting as Interstitial Lung Disease
- P298 Rising From the Shadows: A Case of Delayed Organizing Pneumonia in Granulomatosis With Polyangiitis Post-mild COVID-19
- P299 Intravenous Administration of Umbilical Cord-derived Mesenchymal Stem Cells in Idiopathic Pulmonary Fibrosis: A Case Report
- P300 Rituximab Meets COVID-19: When Lung Tales Take an Unexpected Twist!

CLINICAL

THEMATIC POSTER SESSION

A53 CASE REPORTS IN ILD

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area C (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P286 Early Diagnosis of Usual Interstitial Pneumonia Using Cardiopulmonary Exercise Test
- P287 A Case of the Vanishing Metastatic Cancer
- P288 Cancrorum Ducere Fibra
- P289 An Autopsy Case of Acute Fibrinous and Organizing Pneumonia
- P301 A Case of Overlapping Syndrome and Interstitial Lung Disease
- P302 Sleeping With the Enemy: Foam in Bedding Can Cause Hypersensitivity Pneumonitis
- P303 Unveiling a Mystery: Cryptogenic Organizing Pneumonia Emergence Post-COVID-19
- P304 Rethinking the Reverse Halo Sign
- P305 Crying Scars: A Case of Cryoglobulinemia and Idiopathic Pulmonary Fibrosis
- P306 Idiopathic Pleuroparenchymal Fibroelastosis- Yet Another Unfair Matchup Between Graft Versus Host?
- P307 Pillow Talk: A Tale of Hypersensitivity Pneumonitis
- P308 Early Interstitial Pulmonary Fibrosis Manifesting With High-altitude Dyspnea and Pulmonary Edema
- P309 The Great Imitator: Organizing Pneumonia in Polymyalgia Rheumatica

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

- P310** An Unusual Association of Idiopathic Syndrome of Inappropriate Antidiuretic Hormone Secretion With Interstitial Lung Disease
- P311** Relapsing Cryptogenic Organizing Pneumonia: What Comes After Steroids?
- P312** Restrictions in Diagnosing Lung Diseases; The Importance of Broad Differential
- P313** Respiratory Bronchiolitis in a Nonsmoker - How Common Is It?
- P314** Acquired Mounier-Kuhn Syndrome From Idiopathic Pulmonary Fibrosis Presenting With Hemoptysis and Alveolar Hemorrhage
- P315** Idiopathic Pulmonary Fibrosis, A Finding After COVID-19: A Case Report
- P316** A Silent Ambush of Lungs: A Rare Case of Organizing Pneumonia Associated With Primary Biliary Cirrhosis
- P317** When Abdominal Pain and Pseudo-stemi Unleash Paroxysmal Granulomatosis
- P318** Cryptogenic Organizing Pneumonia in a Rare Miliary Pattern
- P319** The Complexity of Diagnosing Secondary Organizing Pneumonia
- P320** Sudden Death of a Patient With Pleuroparenchymal Fibroelastosis
- P321** Not All Pneumonia Is Infectious: A Case of Diffuse Large B Cell Lymphoma Presenting as Progressive Dyspnea With Features of Organizing Pneumonia
- P322** Evaluation of Fibroblast Activation Protein-Specific PET/CT in a Patient With Post-COVID Pneumonitis
- P323** Organizing Pneumonia Presenting as Bilateral Cavitory Lung Disease - An Interesting Discussion
- P324** Breathless in the Coop: Pigeon Fancier's Lung Masquerading as Asthma
- P325** Interstitial Pneumonia With Autoimmune Features Mimicking Paradoxical Responses in a Patient Under Treatment for Tuberculosis: A Case Report
- P326** A Case of Progressive Post-s-19 Interstitial Lung Disease Requiring Prolonged Hospitalization
- P327** Atypical Presentation of Acute Exacerbation of Interstitial Lung Disease: A Diagnostic Challenge

A54 EXPLORING ASTHMA AND COPD: DIVERSE INSIGHTS FROM GLOBAL PERSPECTIVES

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

San Diego Convention Center

Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P162** Nine Year Trend in the Prevalence of Allergic Diseases and Their Associated Factors in Young Adults
- P163** The Impact of COVID-19 in Children With a Chronic Lung Disease in Denmark
- P164** Clinical Presentation and Diagnosis of Respiratory Symptoms During the COVID 19 Pandemic
- P165** The Effect of Neighborhood-level Opportunity, Vulnerability, and Deprivation on Asthma Outcomes in Children With Severe Asthma
- P166** Characterizing Adult Asthma: Insights From the Canadian Primary Care Sentinel Surveillance Network
- P167** Blood Eosinophil Counts in a Population-representative Adult Sample in Western Sweden
- P168** Asthma Medication Adherence, Control, and Psychological Symptoms: A Hospital-based Study in Saudi Arabia
- P169** Obesity Prevalence and Association With Lung Function and Clinical Profile of Patients With Chronic Obstructive Pulmonary Disease in Saudi Arabia
- P170** Unveiling the Clinical Profiles for Patients With Asthma and Chronic Obstructive Pulmonary Disease Starting Single-inhaler Triple Therapy With Fluticasone Furoate/Umeclidinium/Vilanterol (FF/UMEC/VI)
- P172** Real-World Treatment and Exacerbation Patterns Prior to FF/UMEC/VI Initiation Among Patients With Asthma Stepping Up From ICS/LABA in the United States

- P173 Higher Asthma Mortality in Elders and Female Subjects in Brazil: A 10-year Series
- P174 Safety of Biological Treatments in Asthmatic Patients With Active SARS-CoV-2 Infection: A Systematic Review
- P175 Obesity and Female Gender May Be Protective Factors in Acute Asthma Exacerbation: Observations From National Inpatient Sample Database
- P176 The Impact of Sex on Asthma Exacerbation and Beta-blocker Usage: A Population-based Analysis
- P177 Relationship and Outcomes of Patients Admitted With an Asthma Exacerbation With Concomitant H. Pylori Infection
- P178 Relationship and Outcomes of Patients Admitted With a COPD Exacerbation With Concomitant H. Pylori Infection
- P179 Impact of Protein-Energy Malnutrition on Asthma Exacerbation Hospitalizations: Insights From the National Inpatient Sample
- P180 Work Productivity Reduction and Use of Sick Leave Among Japanese Workers Diagnosed With Asthma: The Japanese Red Cross Kumamoto Study
- P181 Quantification of Precision and Quality Control for Endotoxin Exposure Analysis in Asthma Cohort Studies
- P182 Prevalence of Chronic Obstructive Pulmonary Disease Among Nonsmokers in India: A Systematic Review and Meta-analysis
- P183 Reliability and Validity of a Case-finding Strategy for People With Chronic Obstructive Pulmonary Disease in a Brazilian Population: Preliminary Results
- P184 Sociodemographic Correlates With Prevalence of Comorbidities in Patients With Chronic Obstructive Pulmonary Disease: Findings From a Chinese National Survey
- P185 Association of Air Pollutants and Causative Respiratory Viruses in Exacerbation of Chronic Obstructive Pulmonary Disease
- P186 Exacerbation of Chronic Obstructive Pulmonary Disease Exacerbations in the Setting of Wildfires
- P187 Feasibility of Continuous Home PM2.5 Monitoring and Lung Mechanics in Patients With COPD Exposed to Wood Smoke
- P188 Self-reported Cat, Dog, Mouse, and Cockroach Exposure and Skin Prick Test Reactivity in Eosinophilic COPD
- P189 Socioeconomic Deprivation Is Associated With Prevalence and Persistence of Airway Mucus Plugs in Patients With COPD
- P190 Decline in Muscle Mass Index Predicts Lung Function Decline in the General Population
- P191 Effect of Heterozygote Alpha-1-antitrypsin Gene on the Development of Pulmonary Fibrosis and Mortality
- P192 EXACOS CARBON: Describing the Greenhouse Gas Emissions of Healthcare Resource Utilization by Frequency and Severity of COPD Exacerbation in England
- P193 Direct Health Care Costs Associated With Asthma Hospitalizations Before and During the COVID-19 Pandemic: A Nationwide Inpatient Sample Analysis
- P194 A Nationwide Glance on How Pulmonary Artery Hypertension Impacts Mortality, Length of Stay, Resources Utilization, Endotracheal Intubation on Patients Admitted Due to Asthma

CLINICAL

THEMATIC POSTER SESSION

A55 MEDICAL MAYHEM: CASE REPORTS OF LUNG INJURY IN VAPING, MARIJUANA, AND COCAINE USE

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

San Diego Convention Center

Area A (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

P90 **Marijuana Mayhem: A Rare Cause of Pulmonary Langerhans Cell Histiocytosis**

P91 **New-onset Refractory Status Epilepticus Induced by Synthetic Marijuana: A Case Report**

- P92 Not All Alveolar Hemorrhage Is Autoimmune in Nature. A Case of Menthol-Related Pneumonitis Complicated by Alveolar Hemorrhage
- P93 Rapid, Progressive Nodular-appearing CT Changes: A Unique Presentation of EVALI
- P94 Can You Recognize Me? A Case of Organizing Pneumonia and E-cigarette, or Vaping Associated Lung Injury
- P95 E-Cigarettes and Vaping Devices - The New Pulmonary Villains on the Block
- P96 Crisis in the Lungs: EVALI Unveiled in a Young Male Patient
- P97 Recurrent Primary Spontaneous Pneumothoraces Associated With High Frequency E-cigarette Use in a 19-year-old Male: A Case Report
- P98 First Known Case Report of Vaping-Induced Pneumomediastinum in a Human Immunodeficiency Virus Patient
- P99 A Breathless Encounter: Pneumothorax in an Ehlers-danlos Syndrome Patient Due to E-cigarette Overuse
- P100 Vaping and VATS: Pneumothorax, Fibrosis and Emphysema in a Young Healthy Male
- P101 A Rare Case of Spontaneous Pneumomediastinum Secondary to Vaping in Asthma Exacerbation
- P102 A Rare Case: Pulmonary Embolism Caused by Hookah in a Young Woman
- P103 Pulmonary Embolism in a Chronic Nitrous Oxide Abuser: The Role of Homocysteine and Vitamin B12 Deficiency in Venous Thromboembolism
- P104 Breathing Life into Differential Diagnosis: Cocaine-induced Pneumomediastinum
- P105 Acute Methamphetamine-Induced Alveolar Hemorrhage: A Case Report
- P106 IVDU, I Can't Hear You: Sudden Hearing Loss After Fentanyl Use
- P107 Zieve Syndrome: A Rare Cause of Hemolytic Anemia in Alcohol Use Disorder
- P108 A Rare Case of a Bronchocutaneous Fistula After Xylazine Use
- P109 An Electronic Cigarette Pod System Delivering 6-methyl Nicotine, A Synthetic Nicotine Analog, Marketed in the United States as "PMTA Exempt"

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

A56 BUZZING THE TOWER: NOVEL DIAGNOSTIC AND MONITORING TOOLS IN PH

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

San Diego Convention Center

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session**Discussion:** 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P593 Development of a High-Quality Assessment Instrument for a Novel Pulmonary Hypertension Curriculum
- P594 Efficacy of Ventilation-perfusion Photo Emission Computed Tomography/Computed Tomography for Classifying Pulmonary Hypertension
- P595 Functional Respiratory Imaging and Rapid Deposition Analysis Predict Enhanced Lung Deposition of Imatinib With the AER-901 Inhalation System in Pulmonary Hypertension
- P596 SPECT ERNA: Providing a Different View on Ventricular Volumes in Pulmonary Arterial Hypertension
- P597 Breath Analysis as a Prognostication Tool in Pulmonary Hypertension
- P598 Plasma Catecholamines in Patients With Unexplained Dyspnea Undergoing Invasive Cardiopulmonary Exercise Testing With or Without Preload Insufficiency
- P599 Assessment of Submaximal Cardiopulmonary Hemodynamics in Patients With Exercise Pulmonary Hypertension
- P600 Respiratory Variability of Pulmonary Arterial and Pulmonary Capillary Wedge Pressure as a Measure for Intrathoracic Pressure in Group I Pulmonary Hypertension Patients With Obesity
- P601 Getting More Out of the 6-minute Walk Test Through Metabolic and Heart Rate Monitoring

- P602 Quantitative CT Measures of the Pulmonary Vasculature to Distinguish Between Pulmonary Hypertension Groups
- P603 Comparison of Echocardiogram-derived Markers of Pulmonary Hypertension Before and After COVID-19 Infection
- P604 Rapid Inpatient Parenteral to Oral Prostacyclin Transition Therapy in High Risk PAH Patients With Relative Contraindications to Outpatient Intravenous Therapy: A Retrospective Case Series
- P605 Interobserver Reliability and Accuracy of the Visual Assessment of Interventricular Septal Flattening in Pulmonary Hypertension
- P606 Efficacy and Safety of Tadalafil and Sildenafil in Pulmonary Arterial Hypertension: Results of a Systematic Literature Review
- P607 Finding PH -developing a Referral System for Pulmonary Hypertension Evaluation Based on Echocardiographic Findings
- P608 Therapeutic Regimen Practices for Pulmonary Arterial Hypertension (PAH) Patients at a Tertiary Academic PAH Center in South Texas
- P609 Insulin Resistance as a Marker of Pulmonary Arterial Hypertension
- P610 The Utility and Pitfalls of Cardiopulmonary Exercise Testing Diagnosis of Pulmonary Hypertension in the Long COVID Era
- P611 Cardiopulmonary Exercise Testing Evaluation of Long COVID

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

A57 SOCIAL GROUPIES IN PH: GROUP 2 PH AND LEFT HEART DISEASE

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P613 Coronary Microvascular Dysfunction in Group 2 Pulmonary Hypertension
- P614 Guideline-based Pre-test Probability Strategy to Detect Patients With Left Heart Disease-associated Pulmonary Hypertension
- P615 Nocturnal Hypoxemia and Sleep-Disordered Breathing in Postcapillary Pulmonary Hypertension
- P616 “Bridging the Gap: How SGLT2 Inhibitors Are Transforming HFpEF Outcomes” a Systemic Review and Meta Analysis
- P617 Differential Blood Pressure and Heart Rate Response to 6-minute Walk Testing in Patients With Group 1 Vs. Group 2 Pulmonary Hypertension
- P618 Phosphodiesterase-5 Inhibitors in Pulmonary Hypertension From Left Heart Disease: A Systematic Review

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

A58 EXPANDING OUR RE(PERT)OIRES IN SAN DIEGO: NOVEL CLINICAL DISCOVERIES IN PULMONARY EMBOLISM

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P620 Thrombectomy Vs Thrombolysis for the Management of Acute Pulmonary Embolism: A Propensity Matched National Analysis
- P621 The Safety of Transcatheter Interventions for Acute Pulmonary Embolism in End Stage Renal Disease: A Propensity Matched National Study
- P622 Safety of Transcatheter Interventions for Acute Pulmonary Embolism in Liver Cirrhosis: A Propensity Matched National Study
- P623 Bidirectional Two-sample Mendelian Randomization Study Identifies Renal Function Is Causally Associated With Pulmonary Embolism in East Asian Population

- P624** Effects of the Renin-Angiotensin-System (RAS) Inhibitors on Right Ventricular Function in Patients With Acute Pulmonary Embolism
- P625** Prognostic Value of Tricuspid Annular Plan Systolic Excursion/Right Ventricular Systolic Pressure Ratio in Acute Pulmonary Embolism
- P626** The Association of Acute Pulmonary Embolism Severity With Subsequent Post-Pulmonary Embolism Dyspnea
- P627** Under Pressure: Pulmonary Artery to Aorta Ratio, A Marker of Clot Chronicity
- P628** Predictors of Residual Pulmonary Vascular Obstruction After Acute Pulmonary Embolism Based on Patient Variables and Treatment Modality
- P629** A Comparison of Catheter-based Interventions for Management of Intermediate and High-risk Pulmonary Embolism in a Community Hospital
- P630** Retrospective Analysis of Pulmonary Embolism Managed With Advanced Therapies Compared to Anticoagulation Stratified by PESI Score
- P631** Hospitalization for Low-risk Acute Pulmonary Embolism Is Not Associated With Improved Outcomes: Early Data From the Pulmonary Embolism Outpatient (POEM) Study
- P632** Extracorporeal Membrane Oxygenation as Support for Acute Central Pulmonary Embolism: A Nationwide Study
- P633** Prevalence and Clinical Impact of Mild Interstitial Lung Disease in Pulmonary Arterial Hypertension
- P634** Right Ventricular Free Wall Strain to Predict Clinical Outcomes in Pulmonary Embolism
- P635** Contrast Reflux into Inferior Vena Cava Correlates With News Score in Acute Pulmonary Embolism
- P636** Interhospital Transfer for Acute Pulmonary Embolism: Investigation of Process Metrics, Including Transfer Times, and Outcomes
- P637** Pulmonary Embolism Response Team Managed Acute Pulmonary Embolism Patients Requiring Inter-hospital Transfer Is Safe and Effective
- P638** A Metropolitan Veterans Affairs Medical Center Submassive Pulmonary Embolism Outcomes After Initiation of a Multidisciplinary Pulmonary Embolism Response Team
- P639** D-dimer as a Predictive Value for Pulmonary Embolism in COVID-19 Infection
- P640** H-X Model: A Novel Tool to Predict Pulmonary Embolism in Lung Cancer
- P641** A Question of Anticoagulation: Mortality of Pulmonary Embolism in the Intensive Care Unit
- P642** Call the Ex-PERT: Outcomes of Mechanical Circulatory Support in Patients With High-risk Pulmonary Embolism After Institution of a PE-Response Team (PERT)
- P643** Aspirin Versus Heparin Products for VTE Prophylaxis in Post-operative Orthopedic Patients: A Systematic Review and Meta-analysis
- P644** Utilizing a Novel Pert Framework to Track Outcomes in Low Risk PE
- P645** White Blood Cell Count as an In-hospital Prognostic Indicator in Acute Pulmonary Embolism
- P646** Treatment Decisions in Acute Pulmonary Embolism: How Often Are They Made Prior to Echocardiography?
- P647** Interobserver Reliability Grading Inferior Vena Cava Contrast Reflux in Acute Pulmonary Embolism
- P648** A Novel Nomogram for Predicting All-cause Mortality in Pulmonary Embolism Patients: A Clinical Study Based on the MIMIC-IV and PE Database
- P649** Long Term Outcomes in Patients With Massive Pulmonary Embolism
- P650** Utility of the Pulmonary Embolism Response Team at a Tertiary Care Center
- P651** Impact of Time to Catheter-directed Thrombectomy on Patient Outcomes for Patients With Acute Pulmonary Embolism at a Single Tertiary Care Center
- P652** Paradox or Principal: The Effect of BMI on Length of Hospital Stay in Patients With Pulmonary Embolism
- P653** Pulmonary Infarcts in Low-risk Pulmonary Emboli, Do They Make a Difference?
- P654** Patient Outcomes After Mechanical Suction Thrombectomy for Pulmonary Embolism at a Community Hospital in Santa Barbara: A Retrospective Study

BASIC • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

**A59 WAITING FOR SUNSET AT LA JOLLA:
LATE BREAKING ABSTRACTS**

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P656 Clinical Characteristics and Risk Factors of New-onset Atrial Fibrillation in Patients With Acute Pulmonary Embolism**
- P657 A Single-Center Retrospective Study of Catheter-Directed Thrombectomy in Acute Massive Pulmonary Embolism**
- P658 Outcomes of COVID-19 in Patients With Prior Acute Pulmonary Embolism, A Multicenter Cohort Study**
- P659 Association Between the Pulmonary Artery Pulsatility Index and Mortality Outcomes in Group 1 and 4 Pulmonary Hypertension**
- P660 Mitigation of Lung Injury by Therapeutically Targeting 8-oxoguanine DNA Glycosylase 1 in Chlorine Exposed Mice**
- P661 Optimizing Pulmonary Hypertension Diagnosis: Bridging Discrepancies Between Echocardiography and Right Heart Catheterization for Enhanced Accuracy**
- P662 GATA6 Regulates TLR3 Signaling in Human Pulmonary Artery Endothelial Cells**
- P663 Characterization of Factors in Exosomes of GATA6 Knockdown Pulmonary Artery Endothelial Cells (PAECs) That Contribute to Dysregulation of Pulmonary Artery Vascular Smooth Muscle Cells (PAVSMCs) and Fibroblasts**

CLINICAL

THEMATIC POSTER SESSION

**A60 REACHING FOR NEW (SHERMAN)
HEIGHTS: INTERESTING CASES IN
PULMONARY THROMBOEMBOLIC
DISEASE**

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P665 Approach to Pulmonary Thromboendarterectomy for Chronic Thromboembolic Pulmonary Hypertension in Patients With Cold Agglutinin Disease**
- P666 Pulmonary Thromboendarterectomy for Endocarditis? A Rare Case of Septic Chronic Thromboembolic Disease**
- P667 High Risk Pulmonary Embolism in an Early Pregnancy: A Multifaceted Clinical Conundrum**
- P668 Hiding in Plain Sight: A Case of Pulmonary Tumor Emboli**
- P669 Tumoral Pulmonary Hypertension in a Patient With Metastatic Breast Cancer: Diagnostic Opportunity of the Right Heart Catheterization**
- P670 Pulmonary Intimal Angiosarcoma as a Pulmonary Embolism Mimic**
- P671 A Case of Pulmonary Embolism Cardiac Arrest Treated With Tenecteplase in Between Pre- and Postcontrast CT Angiogram Imaging and Subsequent Use of a Percutaneous Right Ventricular Assist Device**
- P672 A Critical Confluence: Acute Pulmonary Embolism Complicating Systemic Sclerosis-Associated Pulmonary Arterial Hypertension**
- P673 Success of Mechanical Circulatory Support as a Bridge to Treatment in Acute Right Ventricular Failure**
- P674 Caught in Transit: A Thrombus Gone Rogue**

- P675 Recurrent Pulmonary Embolism Secondary to Hyperhomocysteinemia Due to Heterozygous A1298C Variant of MTHFR Gene
- P676 Clot or Not? Persistent Pulmonary Artery Filling Defects After Ablation for Atrial Fibrillation
- P677 When Nothing Else Is Amiss... Using End Tidal CO₂ (ETCO₂) to Help Diagnose Silent Pulmonary Embolism
- P678 Acute Pulmonary Hypertension Caused by Uterine Artery Embolization for Placenta Accreta
- P679 HIT Me Baby One More Time: A Case of Superimposed Heparin-Induced Thrombocytopenia on Acute on Chronic Thromboembolic Disease
- P680 Variable Presentations of Polymethylmethacrylate Pulmonary Embolism
- P681 Surviving the Silent Threat: A Rare Case of Asymptomatic Air Embolism
- P682 A Cystic Peril for a Pulmonary Embolism
- P683 Ligamentum Arteriosum Infection Associated Pulmonary Embolism
- P684 How Many Times Must We Rule Out Pulmonary Embolism? A Representative Case
- P685 Use of Multiple Treatment Modalities for Management of High-Risk Pulmonary Embolism Complicated by Clot-In-Transit
- P686 Pulmonary Cement Embolism: A Dreadful Complication of Kyphoplasty
- P687 Janssen COVID-19 Vaccine: Case of Thrombosis With Thrombocytopenia Syndrome in a Male Patient
- P688 Atrial Septal Defect With Eisenmenger Physiology in a Patient With Down Syndrome: A Case Report
- P689 Lung Transplant With Pulmonary Artery Stenosis Stenting
- P690 Vasoreactivity in Interstitial Lung Disease (ILD) Associated Pulmonary Hypertension - A Case of Robust Response to Inhaled Nitric Oxide (iNO)
- P691 Cardiac Arrest After a Diagnostic Pericardiocentesis in a Patient With Severe Pulmonary Arterial Hypertension
- P692 Post-Thrombectomy Reperfusion Pulmonary Edema
- P693 A Case of Tumoral Pulmonary Hypertension Resulting in Right Ventricular Failure
- P694 To Anticoagulate or Not to Anticoagulate, That Is a Question
- P695 Pulmonary Tumor Thrombotic Microangiopathy: A Rare Complication of Gastric Cancer
- P696 A Rare Case of Pulmonary Emboli in a 22 Year Old Female Started on Combined Oral Contraceptive
- P697 Air Where It Does Not Belong: Incidental Detection of Venous Air Embolism
- P698 Saddle Pulmonary Embolism and Stroke Following Prolonged Face-Down Positioning and COVID19
- P699 Thrombotic Enigma: A 38-year-old's Maze of Clots
- P700 Massive Pulmonary Embolism Associated With Factor V Leiden Mutation in a Young Female on Oral Contraceptive Pills: A Case Report
- P701 Navigating Antiphospholipid Syndrome- Failure of Suction Thrombectomy and Recurrent Saddle Embolus
- P702 Clinical Suspicion for Pulmonary Embolism Despite of Low Wells Score and Negative D-dimer
- P703 Chasing Time: Late Thrombectomy in Intermediate-risk Pulmonary Embolism
- P704 Pulmonary Cement Embolism

CLINICAL**THEMATIC POSTER SESSION****A61 PEDIATRIC INFECTIONS**

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

San Diego Convention Center

Area J (Hall H, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

P1067 Rates of Respiratory Syncytial Virus Lower Respiratory Tract Infection Among Children With Down Syndrome

P1068 Differential Heavy Chain Hyaluronan Accumulation in Primary Bronchial Epithelial Cell and Lung Fibroblast Cocultures Following Respiratory Syncytial Virus Infection

- P1069 A Pilot Investigation of the Pediatric Host Inflammatory Response to Rhinovirus in Critical Bronchiolitis
- P1070 Evidence Circulating Microclots and Activated Platelets Contribute to Hyperinflammation Within Pediatric Post Acute Sequela of COVID
- P1071 COVID-19-associated Croup: A Systematic Review and Meta-analysis
- P1072 Predictors and Outcomes of Bronchodilators in Critical Bronchiolitis
- P1073 Impact of Human Metapneumovirus in an Italian Pediatric population: Pilot, Monocentre, Retrospective Study
- P1074 Paediatric Empyema: New Insights into Treatment and Management
- P1075 Respiratory Oscillometry Lung Function in South African Children With Tuberculosis: A Longitudinal Cohort Study
- P1076 A Rare Presentation of Hydropneumothorax in a Previously Healthy Adolescent
- P1077 Treat or Resect: A Case of Endobronchial Obstruction From Endobronchial Tuberculosis
- P1078 Multiple Large Pulmonary Nodules in a Newborn
- P1079 A Pediatric Case of Histoplasmosis-Related Immune Reconstitution Inflammatory Syndrome
- P1080 Cat Got Your Lungs? An Uncommon Cause of Chronic Cough in an Immunosuppressed Child
- P1081 A Catastrophic Case of Necrotizing Pneumonia Secondary to Streptococcus Pneumoniae in an Unvaccinated Child
- P1082 A 2-month-old Infant With Unusually Severe Apnea in Parapertussis Infection
- P1083 Necrotizing Pneumonia: The Road to Recovery in Two Severe Pediatric Cases
- P1084 An Unusual Case of Pyo-Pneumothorax Caused by Streptococcus Constellatus in a Pediatric Patient
- P1086 Postinfectious Bronchiolitis Obliterans in a 6-year-old With Post-mortem Histopathology of Lung Tissue
- P1087 A Descriptive Study of Clinical Respiratory Outcomes and Pneumonia in Children Living With Congenital Zika Syndrome

- P1088 Post-infectious Persistent Tachypnea in 3-Year-Old: Sometimes It Is a Zebra

BEHAVIORAL • CLINICAL • TRANSLATIONAL
THEMATIC POSTER SESSION
A62 PULMONARY INVOLVEMENT IN PEDIATRIC SYSTEMIC DISEASE
9:15 a.m. - 4:15 p.m.
San Diego Convention Center
Area J (Hall H, Ground Level)
Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1091 Asthma Prevalence in Children With Sickle Cell Disease: A Sibling Comparison Study
- P1092 Comparing Depression Rates in Children With Sickle Cell Disease With and Without History of Acute Chest
- P1093 Biomarkers to Determine the Onset of Acute Chest Syndrome Versus Vaso-occlusive Crisis in Children With Sickle Cell Disease
- P1094 Haemoptysis as an Uncommon Presentation of Celiac Disease in a Paediatric Patient
- P1095 A Case of Pulmonary Embolism With Normal D-dimer in a Child With Nephrotic Syndrome
- P1096 A Unique Presentation of Pediatric Systemic Lupus Erythematosus (SLE): Alveolar Hemorrhage Complicated by Pneumothorax
- P1097 Pulmonary Cavitory Lesions as a Presenting Sign of Systemic Lupus Erythematosus
- P1098 A 15-year-old Girl Presenting With Acute Respiratory Failure and Pneumocystis Jirovecii Pneumonia as an Initial Presentation of Systemic Lupus Erythematosus
- P1099 Clinical Correlates of Disease and Prognosis in Pulmonary Capillaritis: A Retrospective Case Series
- P1100 Iterative Endoscopic Dilatation in an Adolescent With Polyangiitis Granulomatosis (GPA) and Multiple Bronchial Stenoses
- P1101 A Unique Case of Systemic Sclerosis With Bronchiolitis Obliterans

BEHAVIORAL • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

**A63 CHILDHOOD INTERSTITIAL AND
DIFFUSE LUNG DISEASES**

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

San Diego Convention Center

Area J (Hall H, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees**12:30-1:15** Authors will be by their posters for individual discussion with attendees

- P1102 Atypical Granulomatosis With Polyangiitis With Severe Rapidly Progressive Obstructive Lung Disease Requiring Lung Transplantation
- P1103 An Unusual Association of Diffuse Alveolar Hemorrhage in a Pediatric Patient
- P1104 Idiopathic Pauci-Immune Pulmonary Capillaritis in a Patient With Autoimmune Hemolytic Anemia and Mowat Wilson Syndrome
- P1105 Hole-Y Hemoptysis! How a Workup for Hemoptysis Lead to a Hole-Y Unexpected Discovery and Continued Clinical Conundrum
- P1106 Trametinib and Lymphangiectasia in Noonan Syndrome: A Success Story
- P1107 A Case of Refractory Hypoxemia in a Pediatric Patient Due to Hemoglobin Lansing-Ramathibodi
- P1108 A Case of PYCR-1 Related Cutis Laxa With Mounier-Kuhn Syndrome
- P1109 Hereditary Hemorrhagic Telangiectasia: A Rare Cause of a Common Symptom
- P1110 Pulmonary Manifestations in IBD: A Case Series
- P1111 Atypical Pediatric Presentation of Severe Portopulmonary Hypertension
- P1112 A Case of Hepatopulmonary Syndrome Worsening After Liver Transplantation
- P1113 A Rare Presentation of Hepatopulmonary Syndrome in the Setting of Chemotherapy Associated Steatohepatitis
- P1114 Breath and Bile: A Diagnosis of Broncho-biliary Fistula
- P1115 The Liver Is Leaving Them Breathless
- P1116 A 6 Year Old With Severe Asthma, Recurrent Pneumonia, Chronic Rhino-sinusitis and Peripheral Eosinophilia
- P1117 Feasibility of Remote Initiation of Home Spirometry in the Transpire Research Study
- P1118 Improving Nocturnal Non-invasive Positive Pressure Support Adherence in Children and Young Adults With Duchenne Muscular Dystrophy
- P1119 Morbidity and Mortality of Technology Dependent Children During the COVID-19 Pandemic

- P1121 Scarce as Hen's Teeth: An Uncommon Cause of Shortness of Breath in Children
- P1122 Rare Case of Acute Idiopathic Pulmonary Hemorrhage of Infancy and Alveolar Growth Abnormality
- P1123 Unmasking Idiopathic Pulmonary Hemosiderosis: A Rare Cause of Recurrent Alveolar Hemorrhage in a Pediatric Patient
- P1124 Diffuse Alveolar Hemorrhage in IgA Vasculitis: A Case Report
- P1125 Features of Severe Lung Disease in Systemic Juvenile Idiopathic Arthritis: A Case Report
- P1126 Non-specific Interstitial Pneumonia Diagnosed in a Patient With Trisomy 21 Presenting With Diffuse Alveolar Hemorrhage
- P1127 A Rare Combination of Aseptic Splenic Abscesses and Pulmonary Nodules - More Than Meets the Eye
- P1128 Rare Case of Inherited Surfactant Protein C Deficiency in an Infant of Panama Descent With a Heterozygous I73T (c.218tC) Mutation
- P1129 A Novel Mutation in Pulmonary Alveolar Microlithiasis With Disseminated Pseudomonas Infection
- P1130 Surfactant Function Disorders: Genetics Is Just the Tip of the Iceberg
- P1131 Advanced Interstitial Lung Disease in a Young Child With Langerhans Cell Histiocytosis
- P1132 Prolonged High-Dose Steroid Use in an Infant With Surfactant Protein-C Deficiency and Multiple Complications

- P1133 Respiratory Distress in the Setting of a Right Diaphragmatic Eventration in a Newborn With a Pathogenic FLNA Gene Mutation
- P1134 Is It Children's Interstitial Lung Disease (chILD)?
- P1135 Clinical Characteristics and Treatment Outcomes for Pediatric Patients Treated With Rituximab for Idiopathic Pulmonary Capillaritis
- P1136 "Cast Away": Journey of a Healthy 7-Year-Old Rescued From Bilateral Airway Casts Due to Plastic Bronchitis
- P1137 Pediatric Diffuse Lung Disease Leading to Recurrent Respiratory Failure
- P1138 Impact of Consanguinity on the Spectrum of Clinical and Genetic Features of Primary Ciliary Dyskinesia
- P1139 Genetic Testing Utilization in the U.S. Registry for Childhood Interstitial and Diffuse Lung Diseases
- P1140 Diffuse Interstitial Lung Disease With Organizing Pneumonia in 12-year-Old Female With TNFRSF13B Monoallelic Common Variable Immunodeficiency
- P1141 Identifying Neuroendocrine Cell Hyperplasia of Infancy (NEHI): A Case Series
- P1142 Pulmonary Hemorrhage With Multifocal Lymphoid Aggregates in a Pediatric Patient
- P1143 Diagnostic and Therapeutic Challenges in Childhood Interstitial Lung Diseases: Comparative Report of Two Cases
- P1144 Respiratory Risk of All-Terrain Vehicles - Inhalation of Foxtail Grass Leading to Pulmonary Nodules in a Teenager
- P1145 Anti-MDA5 Antibody-associated Juvenile Dermatomyositis and Rapidly Progressive ILD: A Pediatric Case Report
- P1146 Cystic Lesions and Parenchymal Attenuation on Chest Computed Tomography in a Patient With Rhizomelic Chondrodysplasia Punctata Type 1
- P1147 Clinical Presentation and Characterization of Childhood Interstitial Lung Diseases Most Common in Infancy
- P1148 Is This an Aspiration Pneumonia: Case of Rare Interstitial Lung Disease
- P1149 Fibroblast Growth Factor 10 (FGF10) Related Diffuse Lung Disease in a Neonate
- P1150 CT, BAL, and PFT Findings in Two Teenagers With Nonfibrotic Hypersensitivity Pneumonitis
- P1151 Gazing into the Crystal Ball: Correlating ATP-binding Cassette Protein A3 (ABCA3) Pathogenic Variant Genotypes and Phenotypes
- P1152 Pulmonary Capillary Hemangiomatosis: A Rare Disorder With a Nonspecific Presentation
- P1153 Long-term Respiratory Outcomes in Children With Neonatal Lung Disease and Monoallelic ABCA3 Variants
- P1154 A Case of Trimethoprim-sulfamethoxazole Associated Fulminant Respiratory Failure in a 15-year-old Male
- P1155 A Case of Persistent Tachypnea in a Two-month-old Infant
- P1156 A Rare Case of Sevoflurane-associated Diffuse Alveolar Hemorrhage
- P1157 Cyclic Adenosine Monophosphate (cAMP) Signaling Attenuates Titanium Dioxide-induced Human Airway Epithelial Barrier Disruption
- P1158 sn-RNA-seq Analysis Shows GRN Associated Childhood Interstitial Lung Disease Is Similar to NPC2 Associated Childhood Interstitial Lung Disease

BEHAVIORAL • CLINICAL

THEMATIC POSTER SESSION

A64 TACKLING TUBERCULOSIS: INSIGHTS AND INNOVATIONS

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

San Diego Convention Center

Area I (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

P945 Clinical Characteristics of Hospitalized Patients With Pulmonary Tuberculosis in Central Japan, 2009-2021

P946 Post Tubercular Bronchial Asthma in a Developing Country: From Epiphenomenon to Clinically Distinct Phenomena

- P947** Retrospective Evaluation of Active Tuberculosis Cases in Our City in Terms of Chemoprophylaxis Indication
- P948** Recurrence of Tuberculosis: Incidence Rate and Associated Risk Factors
- P949** Challenges in Pulmonary Tuberculosis Diagnosis: Identifying Alternate Conditions in Clinically Diagnosed Patients
- P950** The Role of Whole-body CT and MRI Imaging to Aid a Diagnosis of Tuberculous Meningitis in a Low Incidence Setting
- P951** Identifying the Occurrence of Overseas Tuberculosis Screening Among Foreign Born Patients Diagnosed With Latent and Active Tuberculosis
- P952** Tuberculosis Before and After COVID-19 in Hospitalized Patients: A Multicentre Study
- P953** Characterizing Multidrug- Resistant Tuberculosis (MDR-TB) in Madagascar: A Real Threat to Health Security
- P954** Prevalence of Perceived Tuberculosis Stigma and Its Associated Factors in Newly Diagnosed Cases of Tuberculosis- A Cross-sectional Study in South India
- P955** Pericardial Tuberculosis: A 17-year Retrospective Observational Study in East London, United Kingdom
- P956** Extrapulmonary Tuberculosis (EPTB): A Comparison of UK and Non-UK Born Patients
- P957** The Association Between Chest Radiographic Abnormalities and Subsequent Tuberculosis in Adults
- P958** The Use of an Electronic Order Set to Improve Latent Tuberculosis Screening Among Hospitalized Patients Who Are Initiating Immunosuppression: A Cross-sectional Analysis
- P959** HIV Positive Status Is Protective Against Radiographic Lung Damage in Tuberculosis
- P960** TB Survivors Experiencing Catastrophic Costs: Preliminary Results From a Prospective Cohort in Uganda
- P961** Characterization of Post-TB Lung Disease and Its Impact on Quality of Life in Uganda: A Prospective Cohort Study
- P962** Patterns of Anti Tuberculosis Drug Related Hepatotoxicity and Outcome at St. Peter Specialized Hospital Addis Ababa Ethiopia
- P963** Clinical and Diagnostic Profiling, and Outcome Assessment of Disseminated Tuberculosis Patients
- P964** Atypical Presentation of Multidrug Resistant Disseminated Tuberculosis Mimicking Mesothelioma
- P965** Genitourinary Tuberculosis Resulting in Hydronephrosis
- P966** Sarcoid vs TB, or Both? Disseminated TB in the Setting of Sarcoidosis
- P967** Unveiling the Uncommon: Late Presentation of Central Nervous System Tuberculosis
- P968** When TB Becomes Good News: A Rare Presentation of TB Lymphadenitis
- P969** Miliary Tuberculosis With Debilitating Cachexia in an Immunocompetent Patient
- P970** Cobblestone Airway From Mycobacterium Tuberculosis
- P971** Unpredictable Onset of Active Tuberculosis in a Patient on TNF Inhibitors: A Case of Delayed Onset Tuberculous Pleural Effusion Following Latent Tuberculosis Treatment
- P972** Tuberculoma in an Immunocompetent Patient in a Non-endemic Country - A Case Report
- P973** Breast and Lymph Node Masses; Tuberculous Mastitis or Breast Cancer?
- P974** A User-centered Strategy to Improve the Implementation and Effectiveness of Tuberculosis Contact Investigation in Uganda: A Stepped-wedge, Cluster-randomized Trial
- P975** The Effect of Mycobacterium Tuberculosis Lineage on Extrapulmonary Tuberculosis

CLINICAL

THEMATIC POSTER SESSION

A65 FUNGI CHRONICLES

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area I (Hall H, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P977 Rare Aspergillosis Versicolor Lung Infection in Immunocompetent Patient
- P978 Coccidiomycosis Presenting as a Complicated Parapneumonic Effusion, Causing Acute Respiratory Distress Syndrome
- P979 A Case of Broncho-mediastinal Fistula Due to Endobronchial Aspergillosis in the Setting of Anaplastic Large Cell Lymphoma
- P980 Laryngeal Blastomycosis: A Rare Cause of Dysphonia
- P981 Bronchoscopic Debridement of Endobronchial Rhizopus With 1.1 Mm Cryoprobe in Lung Transplant Recipient
- P982 What Is Growing in the Garden? A Case of Severe Blastomycosis in Poorly Controlled Diabetes Mellitus
- P983 Rituximab Alone: A Rare Case of Pneumocystis Jiroveci Pneumonia in a Patient on Rituximab Monotherapy
- P984 Mystery of a Pulmonary Nodule: A Case of Cladosporium-related Non-necrotizing Granuloma Diagnosed With Robotic Assisted Cryobiopsy
- P985 Pneumocystis Pneumonia After Chimeric Antigen Receptor T-cell Therapy
- P986 Challenges in Managing Coccidioidomycosis-Associated Pleural Effusion
- P987 A Fungus Among Us: A Case of Locally Obstructive Mediastinal Adenitis Due to Histoplasmosis
- P988 The Hidden Danger: Fungal Infection in a Patient With Bacterial Pneumonia
- P989 The Worst Cough in HISTORy
- P990 An Indolent Case of Chronic Cavitory Pulmonary Aspergillosis
- P991 Unlikely Friends: Coinfection of a Malignant Cavitory Lesion With Aspergillus and Actinomyces
- P992 Rare Cryptococcal Pneumonia in an Immunocompetent Patient with Uncontrolled Diabetes and CKD
- P993 A Growing Concern: Solitary Pulmonary Nodule Caused by Pneumocystis Jirovecii in an Immunocompromised Patient
- P994 PCP or THC?: A Case of a 26 Year Old Man With a History of Lymphoma and Marijuana Vaping Found to Have Pneumocystis Jiroveci Pneumonia
- P995 A Rare Presentation of a Common Infection: Histoplasma Causing Endobronchial Lesions Mimicking Lung Cancer
- P996 Unmasking the Imposter: Pneumocystis Jirovecii Pneumonia (PJP) Disguised as E-Cigarette or Vaping-Associated Lung Injury (EVALI)
- P997 Pulmonary Nodules in Immunosuppressed Patient
- P998 Mucormycosis - A Rare Etiology of Empyema Necessitans
- P999 The Diagnostic Challenges of Allergic Bronchopulmonary Aspergillosis
- P1000 Advanced Care in Rheumatoid Arthritis With Biologic Agents: The Role of Pneumocystis Jirovecii Pneumonia Prophylaxis
- P1001 Treatment of Mucormycosis Infection With Combination Therapy Using Echinocandin and Amphotericin B
- P1002 From Mucor to the Lung Core: A Case Presentation of a 61-Year-Old Immunocompromised Male With a Recent Solid Organ Transplant Presenting With a Persistent Cough
- P1003 Coccidioidomycosis, The Great Impersonator
- P1004 Pneumocystis Pneumonia in a Patient With Prolonged Steroid Therapy
- P1005 A Rare Case of Disseminated Coccidioidomycosis in an Immunocompetent Individual
- P1006 Unique Case of Chronic Pulmonary Aspergillosis: Unraveling Potential Risk Factors in an Immunocompetent Patient With Marijuana Use and Malnutrition

- P1007 **A Rare Presentation of Hydropneumothorax Secondary to Coccidioidomycosis**
- P1008 **Could This Be Coccidioidomycosis? A Complex Empyema**

CLINICAL**THEMATIC POSTER SESSION****A66 BACTERIA CASES UNLEASHED**

9:15 a.m. - 4:15 p.m. **San Diego Convention Center**
Area I (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1010 **Management of Thoracic Actinomycosis Via Minimally Invasive Thoracotomy**
- P1011 **Beneath the Surface: Unmasking the Intriguing Link Between Pleural Effusion, Tunneling Breast Mass, and Hyponatremia in the Intensive Care Unit**
- P1012 **Life in the Acid-fast Lane: A Case of Elusive Nocardia Pneumonia in a Renal Transplant Recipient**
- P1013 **Persistent Pseudomonas Aeruginosa Pneumonia Due to Antimicrobial Resistance Development Requiring Lobectomy**
- P1014 **Mediastinal Lymphadenitis Due to Chronic Indolent Disseminated Methicillin-susceptible Staphylococcal Infection**
- P1015 **Nocardiosis in a Bone Marrow Transplant Patient With Nonresolving Pneumonia**
- P1016 **A Rare Case of Bordetella Bronchiseptica Pneumonia in a Viral-Suppressed Human Immunodeficiency Virus (HIV) Patient With a Normal CD4 Count**
- P1017 **Klebsiella Pneumonia Invasive Syndrome, A Liver Abscess With Metastatic Infection**
- P1018 **Nocardia Cyriacigeorgica: A Challenging and Time-Consuming Diagnosis**
- P1019 **Kartegener Syndrome Presenting With Acute Bronchiectasis Exacerbation Secondary to Achromobacter Xyloxiidians Infection**
- P1020 **Polymicrobial Empyema - The Unusual Suspects**
- P1021 **A Rare Case of Necrotizing Pneumonia Caused by Prevotella Infection in an HIV-Positive Patient**
- P1022 **Mediastinal Lymph Node Abscess Due to Strep Viridans Masquerading as a Malignancy**
- P1023 **Barking up the Right Tree: A Case of Staphylococcus Schleiferi in Bronchoalveolar Lavage in an Immunocompromised Male**
- P1024 **Pasteurella Multocida-induced Empyema in an Immunocompromised Patient - A Case Report**
- P1025 **A Rare Case of an Isolated Pulmonary Nocardiosis in an Immunocompetent Adult**
- P1026 **A Rare Case of Pulmonary Granulomatous Inflammation Caused by Chronic Cutibacterium Acnes Infection**
- P1027 **Culture Negative Infective Endocarditis Secondary to Septic Emboli of Lung**
- P1028 **Divergent Findings, Convergent Treatments: Two Cases of Pulmonary Actinomyces**
- P1029 **Nocardiosis With Rapid Radiographic Progression**
- P1030 **Hafnia Alvei Pneumonia: A Rare Case of Septic Shock**
- P1031 **Disseminated Nocardiosis in a Sarcoidosis Patient Off Pneumocystis Pneumonia Prophylaxis**
- P1032 **Pulmonary Nocardiosis in an Asthmatic Patient on Inhaled Corticosteroid (ICS) Therapy: Is ICS Use a Risk Factor?**
- P1033 **Under the Radar: A Case Report of Nearly Overlooked Pneumonic Tularemia**
- P1034 **Eosinophilic Pneumonia With Concomitant Cavitating MRSA Pneumonia**
- P1035 **Mending Fences: A Rare Case of Cavitory Pneumonia Due to Raoutella Planticola in an Immunocompetent Individual**
- P1036 **An Emergent Infectious Cause of Rhabdomyolysis With Acute Kidney Failure: Legionella Pneumonia**
- P1037 **A Case of SARS-CoV-2 With Two Unusual Complications: Lemierre Syndrome and Thyroid Storm**
- P1038 **A Devastating Diagnosis of Necrotizing Pneumonia Presenting as a Complication From a Recurrent Hepatopulmonary Fistula**

- P1039 Streptococcus Mitis-induced Pneumonia in an Immunocompetent Adolescent: A Rare Pediatric Case Emphasizing Diagnostic Challenges
- P1040 Management of Complicated Empyema With Urgent Video Assisted Thoracoscopic Surgery (VATS)
- P1041 Winning the Wrong Powerball - A Rare Case of Actinomyces Odontolyticus Pneumonia in an Immunocompetent Host
- P1042 Not Your Flavor - A Case of Neisseria Flavescens Mimicking Malignancy
- P1043 Mycoplasma... An Unexpected and Deadly Complication
- P1044 Mounier-Kuhn Syndrome Unveiled: A Culprit in Recurrent Pneumonias
- P1045 Streptococcus Pyogenes-induced Empyema: Uncommon but Clinically Significant - A Case Report Highlighting Successful Treatment With VATS Decortication
- P1046 Trick or Spirochete: Leptospira Infection With Negative Serology
- P1047 A Noxious Mimic - Pulmonary Nocardiosis Presenting as a Lung Mass in an Orthotopic Liver Transplant Patient
- P1048 Hidden Within, Pulmonary Nocardiosis in an Immunocompetent COPD Patient
- P1049 Intrathoracic Nontyphoidal Salmonellosis: An Atypical Presentation
- P1050 Salmonella Pneumonia and Empyema in a Patient with End - Stage Liver Disease
- P1051 Hidden in Plain Sight: The Elusive Diagnosis of Pseudomonas Stutzeri in Respiratory Distress
- P1052 An Uncommon Complication of Pacemaker Lead Endocarditis
- P1053 Lung Abscess Masquerading As Left Hilar Mass
- P1054 An Aberrant Case of Idiopathic Pulmonary Fibrosis Surviving Legionella Pneumonia
- P1055 Confoundingly Persistent Pneumonia in a Heart Transplant Patient
- P1056 Don't Staph on My Heart and Strep Away My Lungs
- P1057 A Rare Case of Necrotizing Pneumonia in an Immunocompromised Patient
- P1058 A Unique Case of Unresolved Streptococcus Intermedius Parapneumonic Effusion With Negative Bronchoscopy Cultures
- P1059 Opportunistic Empyema Due to Actinomyces Meyer
- P1060 A Rare Case of Empyema Secondary to Actinomyces Turicensis Mimicking Pulmonary Metastasis

CLINICAL

THEMATIC POSTER SESSION

A67 COUGH, VENTILATORY CONSTRAINTS, AND NEURAL VENTILATORY CONTROL: IMPLICATIONS TO PULMONARY REHABILITATION

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

San Diego Convention Center

Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P411 Preference and Clinical Practice of Family and Pulmonary Physicians to Prescribe Cough and Sputum Devices for Chronic Obstructive Pulmonary Disease: An Observational Study
- P412 The Impact of an Oscillating Positive Expiratory Pressure (OPEP) Device on Mucus Plugs: A Case Study Using Functional Respiratory Imaging (FRI) and a COPD Patient
- P413 Inspiratory Muscle Training in Patients With a Chronic Respiratory Disease: An Overview of Systematic Reviews
- P414 Inspiratory and Expiratory Lag Times for a Novel Phrenic Nerve Stimulation Device
- P415 Discordance Simulation Testing of a Novel Phrenic Nerve Neurostimulation Device
- P416 Paresis of the Right Hemidiaphragm and Anhidrosis of the Right Hemithorax: A Case Report

P417 The Effect of Body Mass Index on Ventilatory Parameters During Cardiopulmonary Exercise Testing

P418 Ventilatory Constraints in Patients With HFpEF During Exercise: Impact of Lung Size and Upper Body Adiposity

BASIC • TRANSLATIONAL

THEMATIC POSTER SESSION

A68 UNVEILING NOVEL AVENUES IN IPF THERAPIES

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

P420 Analysis of Local Distribution and Residence Time of Nintedanib in Fibrotic Lung Tissue Using Mass Spectrometry Imaging

P421 Anti-Fibrotic Agent, Drug #765, Ameliorates Fibrosis by Inhibiting Lysyl Oxidase Like-2 Activity

P422 Apelin-APJ Signaling Is Reduced in IPF Lungs and Attenuates TGF- β 1-induced Lung Fibrosis

P423 Tryptophan Metabolite Indole-3-acetic Acid Ameliorates Pulmonary Fibrosis by Regulating Lung Microbiota and Inducing Autophagy Via Inhibition of the PI3K/AKT/MTOR Pathway

P424 Targeting the Extracellular Cyclic AMP Pathway in Idiopathic Pulmonary Fibrosis

P425 Attenuation of Pulmonary Fibrosis by Targeting IL-33 Precursor Protein With Cell-permeable Decoy Peptides in the Bleomycin Model

P426 Ex-vivo Evaluation of the Potential for Narrow Spectrum Kinase Inhibitors as a Treatment for Idiopathic Pulmonary Fibrosis

P427 The Effect of Novel Autotaxin Inhibitor, 2-carba Cyclic Phosphatidic Acid, in Lung Fibrosis

P428 Melatonin Ameliorates Bleomycin-induced Pulmonary Fibrosis by Down-regulating Galectin-3 Expression

P429 Treprostinil Inhibits Human Lung Fibroblast Matrix Production Via the IP Receptor Independently of cAMP

P430 TRIM36 Degrades Phosphorylated AKT to Suppress Pulmonary Fibrosis

P431 The Effect of Adrenalectomy on Bleomycin-induced Pulmonary Fibrosis in Mice Model

P432 Specific Modified mRNA Translation System (SMRTS) for the Attenuation of Pulmonary Fibrosis

P433 Galectin-3 Promotes Fibroblast-myofibroblast Differentiation Idiopathic Pulmonary Fibrosis

P434 Targeting Gremlin2 Is a Promising Approach for Treating Pulmonary Fibrosis

P435 A Novel Target for Idiopathic Pulmonary Fibrosis, A Kinase Anchoring Protein 13 (AKAP13), Is Required for TGF- β -Induced Extracellular Matrix Production by Promoting the Phosphorylation of CREB-1 and Increasing SMAD-3 Levels

P436 Identification of Characteristic Pathways and Groups of Marker Molecules in IPF With Machine Learning Using Cryobiopsy RNASeq Data

P437 Assessing Challenges and Opportunities for Biomarker, Device, and Pre-clinical Drug Development/Commercialization in the Pulmonary Arena

P438 The Effect of Nintedanib on the cav2-null Mouse Model of Pulmonary Fibrosis

P439 Post-hoc Analysis of Biomarkers of Interstitial Lung Disease Progression in Participants With Idiopathic Pulmonary Fibrosis Receiving Bexotegrest Over 12-weeks in INTEGRIS-IPF

P440 Anti-WISP1 (MTX-463) as a Novel Potential Therapy for Idiopathic Pulmonary Fibrosis

P441 Targeted Therapeutic Disruption of the Focal Adhesion Scaffold Inhibits Bleomycin Induced Fibrosis

BASIC • TRANSLATIONAL

THEMATIC POSTER SESSION

A69 PATHOGENESIS OF INTERSTITIAL AND PLEURAL DISEASES

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P443** The Collagen Endocytic Receptor MRC2 in Lung Fibroblast Proliferation
- P444** WNT5A Isoforms Are Dynamically Regulated in Lung Development and Fibrosis
- P445** Role of the Metallopeptidase ADAMTS14 in Mechanoactivation of Primary Human Lung Fibroblasts
- P446** S100a4 Is a Novel Mechanoeffector That Mediates Fibroblast Migration Via Its Effects on Peripheral Actomyosin in a Context-dependent Manner
- P447** Myocardin Is Involved in Cytoskeletal Remodeling of IPF Fibroblasts During Myofibroblast Differentiation
- P448** Developmental Gene SIX1 Knockout in Fibroblasts Improves Lung Function in Pulmonary Fibrosis
- P449** PGE₂- and FGF2-elicited Myofibroblast Dedifferentiation Are Accompanied by Collagen I Degradation and Uptake
- P450** Adenovirus TGFβ1-induced Profibrotic Responses in Human Lung Fibroblasts - Potential Role of Circadian Clock Component REV-ERBa
- P451** Mechanistic Target of Rapamycin and Activating Transcription Factor 4 Regulate TGF-β-induced Transcription in Lung Fibroblasts
- P452** Wound Infiltrating Adipocytes Are Not Myofibroblasts
- P453** GOLM1 Promotes Pulmonary Fibrosis Through Upregulation of NEAT1
- P454** Mitogen-Activated Protein Kinase Mediates Survival Mechanisms in Idiopathic Pulmonary Fibrosis
- P455** MAGI2 Is Involved in the Pathogenesis of Pulmonary Fibrosis
- P456** The Unique Role of ARPC2, A Subunit of the ARP2/3 Complex, in Idiopathic Pulmonary Fibrosis (IPF)
- P457** Cell Types Associated With Disease Severity in COPD and IPF Lungs
- P458** Neutrophils in Idiopathic Pulmonary Fibrosis Have a Distinct Biomechanical Phenotype of Systemic Activation That Correlates With Disease Severity
- P459** Mast Cell Expressed Membrane Protein 1 (MCEMP1) Is Essential Required for Murine Pulmonary Fibrosis by Regulating Monocyte Chemotaxis and Migration
- P460** Pulmonary Macrophage Programming Is Conserved in Healthy Repair and Fibrosis
- P461** Th17 Cells Mediate Senescence in Radiation-induced Pulmonary Fibrosis (RIPF) Murine Model
- P462** Lung Derived-Extracellular Matrix Hydrogels Promote Inflammation and Migration in Alveolar Epithelial Type 2 Cells
- P463** The Effect of GRB2 Deletion in Cx3Cr1⁺Cells on TGFβ1 Induced Mouse Lung Fibrosis
- P464** Alveolar Macrophages Secrete Anti-fibrotic Bioactivity That May Contribute to Fibrosis Resolution
- P465** Elevated Aβ_{x-40} in Transudative Pleural Effusions
- P466** Potential Role of Extracellular Vesicles in the Pathogenesis of Pleural Fibrosis
- P467** TWF1 and LMOD1 Are Novel Down-stream Effectors of TGF-β-MyoCD Signaling and Participate in Mesothelial Mesenchymal Transition by Regulating Actin Cytoskeletal Remodeling
- P468** Investigating the Role of Tuffelin 1 in Mesothelial Mesenchymal Transition and Pleural Fibrosis
- P469** Short Linear Peptides Protect Fibrinolysis From Inactivation With Up To 8-fold PAI-1 In Vitro
- P470** Sputum Versus Bronchoalveolar Lavage Fluid on a Flow Cytometric Platform
- P471** Kinesin-1 (KIF5) Transports PAI-1 Containing Vesicles in Myofibroblasts Derived From Human Pleural Mesothelial Cells

- P472** Building a Toolbox for Fibrotic Tissue Recovery Using Aged Bleomycin Mouse Model
- P473** Expression of Exposed CLDN1 Is Linked to Early Pathological Lesions in Idiopathic Pulmonary Fibrosis
- P474** Endothelial-specific Sox17 Depletion Mitigates Bleomycin-Induced Lung Fibrosis Through T Cell Modulation
- P475** CXCL10+ Monocyte-derived Macrophages Are Potential Drivers of TH17.1 Inflammation in Pulmonary Sarcoidosis
- P476** Influence of Tensin1 Knockdown on Cytokine Secretion in the Bleomycin Mouse Model of Lung Injury

BASIC • TRANSLATIONAL**THEMATIC POSTER SESSION****A70 MOLECULAR INSIGHTS INTO ILD PATHOGENESIS**

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area H (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P910** Disruption of GM-CSF Signaling in Pdp Increases Lymphoid Lineage Commitment and Pulmonary Lymphocytosis
- P911** Kinase-dependent Regulation of Lymphangiomiomatosis (LAM)-cell Invasion in Multicellular Human Spheroid Models That Mimic LAM Nodules
- P912** Evaluation of the Viability and Utility of Long-Term Stored Human Lymphangiomiomatosis(LAM) Lung Samples
- P913** Negative Influence of OX40 Pathway on Regulatory T Cells in Pulmonary Sarcoidosis
- P914** Elevated IL-18 Disrupts Tight Junctions in Sarcoidosis Airway Epithelia
- P915** Diagnostic Efficacy of e-NOSE in Differentiating Sarcoidosis From Tuberculosis: A Pilot Study

- P916** The Role of Mirnas in the Differential Diagnosis of Sarcoidosis and Tuberculosis With Granulomatous Lesions
- P917** Lung and Skin Scleroderma Myofibroblast Dedifferentiation Is Achieved Via Cyclic AMP Through Ligation of Distinct G-alpha-stimulatory Receptors
- P918** MicroRNA Signatures Are Associated With Severe Skin and Pulmonary Involvement in Systemic Sclerosis
- P919** Lung-derived cfDNA Among Patients With Interstitial Lung Disease- Preliminary Results
- P920** Distinct Differences in Megakaryocyte Gene Signature Enrichment Among Chronic Lung Diseases
- P921** Bridging Science and Care: Investigating Neutrophil Extracellular Traps in Hermansky Pudlak Syndrome Through Community Clinics
- P922** Mitochondrial Fragmentation as a Feature of Disrupted BLOC3 Function in Hermansky Pudlak Syndrome Type 1 (HPS1)
- P923** The Prevalence and Clinical Significance of Eosinophilia in Bronchoalveolar Lavage Fluid in Patients With Interstitial Lung Disease
- P924** Characteristics of Selected Specialized Proresolving Mediators (SPMs) in Connective Tissue Disease Related Interstitial Lung Disease (CT-ILD)
- P925** Identification of Novel Gene Variants Contributing to Interstitial Lung Diseases in Homogenic Finnish Population
- P926** Nuclear P62 Localization in Epithelial Cells From Idiopathic Pulmonary Fibrosis and Hypersensitivity Pneumonitis Lungs
- P927** Autophagy Induction After Lung Exposure to Saccharopolyspora Rectivirgula in a Mouse Model of Hypersensitivity Pneumonitis
- P928** Telomere Attrition Is Associated With Sarcoidosis
- P929** Innate Immune Effects of α 1-adrenoreceptor Antagonism in Sarcoidosis

BASIC • TRANSLATIONAL

THEMATIC POSTER SESSION

A71 CUTTING EDGE TECHNOLOGIES FOR LUNG DISCOVERY

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P478** Multiplexative Imaging Localizes Interstitial Macrophage Subsets Within Human Lung Structures
- P479** Secretion of Mesenchymal Stromal Cells-derived Exosomes Is Enhanced by Culturing on Lung Extracellular Matrix Hydrogels
- P480** The Development of Novel Tunable Polymeric Nanoparticles for Gene Therapies Directly into Pulmonary Capillary Endothelial Cells
- P481** Direct Lung Explant Culture Is an Efficacious Model for Testing Therapeutics in Primary SSC-ILD Tissue
- P482** Identification of Antifibrotic N23Ps' Mode of Action (MoA) by Advanced 3D Human Fibrosis Models
- P483** Engineered Lung Microtissues to Model Macrophage Mechano-activation in Pulmonary Fibrosis and Anti-fibrosis Therapies
- P484** Determination of Surfactant Secretion in Precision-Cut Slices of Mouse Lung
- P485** Bleomycin Induces Senescence and Cell Death in Novel Induced-Usual Interstitial Pneumonia (iUIP) Mouse Precision-Cut Lung Slices
- P486** Ex Vivo Testing of Antifibrotic Drugs in a Long-term Culture of Precision-cut Lung Slices (PCLS)
- P487** Airway and Alveolar Organoids From Bronchoalveolar Lavage Fluid
- P488** A 3D Human Alveolar Model of Idiopathic Pulmonary Fibrosis to Understand Mechanisms That Initiate Fibrogenesis and Screen Therapeutics
- P489** Generation of a Mouse Model of Lung Fibrosis With Accumulation of Basal-like Cells
- P490** Establishment of a Human In Vitro Model to Study Airway Epithelial Injury and Regeneration
- P491** Live Lung Imaging to Define the Cell Specificity of Alveolar Defense
- P492** Disease Modeling of Pulmonary Alveolar Microlithiasis Using Human Induced Pluripotent Stem Cells
- P493** Preclinical Murine Model for Airway Cell Transplantation
- P494** Stiffness Sensitizes Mouse Precision Cut Lung Slices to TGF- β Induced Fibrogenesis: Benchmarking PF670462 Using Global Proteomics
- P495** The Creation of In-vitro Cellular Model for Interstitial Lung Disease
- P496** CRISPR/Cas9 Genome Editing Allows Generation of the Mouse Lung in a Rat
- P497** Emerging Volumetric Imaging Coupled to Multi-omics: Probing Cellular Dynamics and Tissue Niches of Human Lungs in Health and Disease
- P498** Molecular Imaging With Fibrogenesis-targeted Positron Emission Tomography Quantifies disease Activity in an Experimental Model of Pulmonary Fibrosis
- P499** Chip Cytometry for Simultaneous Measurement of Protein and mRNA Markers on Single Cell Level
- P500** Effective Pharmacological Modulation of Biomarkers in Lung Tissue of Pulmonary Fibrosis Patients Ex Vivo
- P501** Testing the Viability and Efficacy of Small Molecule Inhibitors in T-cells in Cryopreserved Precision Cut Lung Slices: New Insights for Long Term-storage Lung Organoids
- P502** Genetic Locus Associated With Bleomycin Induced Lung Fibrosis in Mice
- P503** Exhaustive Exercise Alters Exhaled Breath Volatile Organic Compounds: Insights From Elite Ultra-marathon Runners
- P504** Real-Time Confocal Imaging of Alveolar Barrier Recovery After Staphylococcal Lung Injury
- P505** Analysis of Alveolar Epithelial Regeneration in Two Acute Lung Injury Models Using Lineage Tracing

- P506** Human Induced Pluripotent Stem Cell-derived Lung Epithelial Cells in Micro-patterned Culture Distinguish SARS-COV-2 Variant Strains
- P507** Benchmarking of Single Cell RNA Sequencing Technologies: Evaluation of Cell Type Capture Efficiency in Human Lung Tissue and the Superiority of FRP in Conserving High Cellular Diversity
- P508** Impact of Expansion Medium on Progenitor Potential of Tracheospheres
- P509** The Successful Cryoconservation of Precision Cut Lung Slices (PLCS) Facilitates Translational Lung Research
- P510** Unraveling Invasion Modes: Extracellular Matrix Stiffness and Fibroblast Dynamics in 3D Lung Cancer Model
- P511** Generation of Fully Functional 2D and 3D Human Small Airway Models
- P512** Mirna Detection Using Particles in Exhaled Air (PExA): Development and Validation for Investigating Pulmonary Disorders
- P513** Developing Tissue Engineering Techniques for the Study of Crosstalk Between Healthy Cells and Fibrotic Extracellular Matrix in Idiopathic Pulmonary Fibrosis
- P516** Movement of Epithelial Cells in Idiopathic Pulmonary Fibrosis (IPF) Is Associated With the Extent of Lung Fibrosis
- P517** Increased Susceptibility to Injury of Rat Alveolar Epithelial Cells after Exposure to Nanoparticles
- P518** MMP-24 Is a Novel Profibrotic Factor Produced by KRT5+/ TP63+ Lung Basal Cells
- P519** Alveolar Basal Cell Differentiation Is Associated With MMP7 Expression and Affected by Fibroblast-secreted Factors
- P520** Nuclear Factor E2-related Factor 1 (Nrf1) and ER-associated Degradation (ERAD) Coordinate the Proteasome Response to Surfactant Protein C Aggregates in Alveolar Epithelial Cells
- P521** Analysis of Functional Dynamics of Healthy Type 2 Alveolar Epithelial Cells as Progenitor Cells in Response to Type 1 Alveolar Epithelial Cell Specific Lung Injury
- P522** Idiopathic Pulmonary Fibrosis Alveolar Epithelial Type 2 Cells Are a Putative Cell of Origin for Basal-Like Cells in Distal Lung
- P523** Screening of Multiple Signaling Pathways Converting Alveolar Type 2 to Type 1 Cells Using Human Induced Pluripotent Stem Cells
- P524** Impaired DNA Damage Repair in Alveolar Type II Cells in Idiopathic Pulmonary Fibrosis
- P525** Stress Fibers Are Present in Aberrant Senescent Epithelial Cells in Idiopathic Pulmonary Fibrosis, and Inhibition of Their Formation Prevents Cell Senescence In Vitro
- P526** Long-term ATP Exposure During Differentiation Induces a Profibrotic Profile in Small Airway Epithelial Cells but Not Bronchial Epithelial Cells
- P527** Cellular Genomics of Bronchoalveolar Lavage Reveals Insight into Mechanisms of Human Pulmonary Fibrosis
- P528** The Inhibitory Mechanism of Erythrocyte Membrane Protein Band 4.1-like 3 on Transforming Growth Factor- β -Induced Epithelial-Mesenchymal Transition

BASIC • TRANSLATIONAL**THEMATIC POSTER SESSION****A72 EPIHELIAL CELLS: KEY CULPRITS IN PULMONARY FIBROSIS**

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session**Discussion:** 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P515** Investigating the Impact of Sex Hormones on the Onset of Pulmonary Fibrosis Using Human Induced Pluripotent Stem Cell-derived Alveolar Epithelial Type 2 Cells

BASIC • TRANSLATIONAL

THEMATIC POSTER SESSION

A73 GENOMICS AND EPIGENOMICS IN LUNG DISEASES

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P530** Lnc RNA T-536 and RNA Binding Protein RBM25 Interactions in the Development of Pulmonary Arterial Hypertension
- P531** Long Non-coding RNA in IPF: Regulatory Players in Lung Fibrosis
- P532** A Novel Basal Cell Variant Committed to Honeycomb Cysts in IPF Across MUC5B Haplotypes
- P533** In Idiopathic Pulmonary Fibrosis (IPF), MUC5B Promoter Variant Rs35705950 Correlates With DNA Hypomethylation in the Gene Promoter Area
- P534** Impact of the IPF-associated Variant rs62025270 on Lung Epithelial Cells: Modulation of AKAP13 Expression and Its Implications
- P535** Single-cell RNA Sequencing Analysis Reveals Regulatory T Cell Activation and Cell-cell Interactions in Idiopathic Pulmonary Fibrosis Lungs
- P536** Imbalance of DNA Methyltransferases (DNMTs) and Ten-eleven Translocation (TET) Enzymes Contribute to the Altered DNA Methylation Profile of Fibrotic Lung Fibroblasts
- P537** Maintenance of DNA Methylation Patterns by UHRF1 and DNMT1 in Normal and IPF Lung Fibroblasts
- P538** Lncrna Norad Promotes Pulmonary Fibrosis by Interacting With HNRNPK to Regulate ITGBL1
- P539** Digital Spatial Gene Expression Profiling of Fibrosing Interstitial Lung Diseases
- P540** Cross-species Transcriptome Comparison Revealed Shared Similarities Between Ferret Sustained Pulmonary Fibrosis Model and Human Idiopathic Pulmonary Fibrosis

BASIC • TRANSLATIONAL

THEMATIC POSTER SESSION

A74 MITOCHONDRIA AND METABOLISM IN LUNG HEALTH AND DISEASE

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P542** SGLT2 Inhibitor Attenuates Pulmonary Arterial Remodeling Through PPAR γ Activation
- P543** Mitoneet and Its Regulation of Mitochondrial Metabolism in Pulmonary Hypertension
- P544** The Effect of Mitotempo Treatment on HIF-1 α Stabilization and Hypoxia-induced Pulmonary Hypertension in Mice
- P545** Cellular Communication by Abnormally High Lactate Enhances Myofibroblast Differentiation Via G Protein-Coupled Receptor 81 and Cyclic Adenosine Mono Phosphate Under Hypoxia
- P546** Metabolomics Analysis of Irradiated Human Lung Fibroblasts and Mouse Lung Tissue Suggests That Overaccumulation of Lactate in Fibrosis Originates From Alanine-derived Pyruvate Rather Than Glycolysis-derived Pyruvate
- P547** Elevated Cell-free Hemoglobin Disrupts Pulmonary Endothelial Function and Is Associated With Mitochondrial Dysfunction in Sepsis Patients
- P548** Parkin Deficiency Exacerbates PM-induced Injury by Enhancing Airway Epithelial Necroptosis
- P549** GM-CSF Is Required for Regulation of Mitochondrial Fusion, Fission, and Mitophagy in Macrophages
- P550** PERK-mediated Metabolic Reprogramming by Interaction of ATF4 and ATF3 on Ppargc1a Promoter in Pulmonary Fibrosis
- P551** Tetrandrine Inhibits Alveolar Epithelial Type 2 Cells Senescence Via Regulation of Mitophagy and Attenuates Pulmonary Fibrosis

- P552 Repositioning of Basimglurant (mGluR5 Antagonist) for the Treatment of Idiopathic Pulmonary Fibrosis
- P553 PGK1 Mediates Deficient Pyruvate Utilization and Bioenergetic Compromise in Lung Fibroblasts in Age-related Lung Fibrosis
- P554 M2 Form of Pyruvate Kinase in Stiffness Induced Myofibroblast Differentiation in Lung Fibrosis
- P555 Sphingosine-1-phosphate Receptor 3 Induces Endothelial Mitochondrial Dysfunction in Ventilator-induced Lung Injury
- P556 Upregulation of Glutathione S Transferase P in Lung Epithelial Cells Augments interleukin 1 Beta (IL1B)-induced Pro-inflammatory Signaling in Association With Oxidation of Ovarian Tumor Deubiquitinase 1 (OTUB1); Implications of Aberrant Epithelial Cells in
- P557 The Effect of S100A3 and S100A13 Mutations on the Expression of Mitochondrial Proteins in Atypical Pulmonary Fibrosis
- P558 Inhibition of Serine Glycine One Carbon Metabolism Attenuates Pulmonary Fibrosis in Mice
- P559 Mitochondrial one Carbon Metabolism Regulates RNA Methylation in Human Lung Fibroblasts
- P560 Loss of Glutaminase in Alveolar Macrophages Enhances Type I Interferon Response In Vitro and Improves Mortality During Influenza A Infection
- P561 Fumarate Metabolism Is an Unexpected Factor in the Success of Staphylococcus Aureus as a Pulmonary Pathogen
- P562 Treprostinil Palmitil Conversion Sites in the Lung
- P563 A Step Towards Precision Medicine: Using the Ratio Between Sphingolipid and Steroid Metabolites as a Predictor of Asthma Exacerbations
- P564 LPCAT1 Protects the Functions of Alveolar Type II Cells by Modulating Lipid Metabolism
- P565 Fibroblast Specific Shh Regulate Lung Macrophage Phenotype and Metabolic Reprogramming
- P566 Comparing the Effects of Oxidised and Non-oxidised Lipids on Fibrogenesis in IPF
- P567 The Role of Resident Alveolar Macrophage Lipid Homeostasis in Pulmonary Fibrosis

- P568 Unveiling Mitochondrial Changes and Metabolic Pathways in Fibroblasts From Patients With Idiopathic Pulmonary Fibrosis Under Hypoxic Stress
- P569 Reduced Epithelial NUPR1 Negatively Impacts Mitochondrial Function and Metabolism, and Increases Susceptibility to Emphysema

CLINICAL • TRANSLATIONAL
THEMATIC POSTER SESSION
A75 REVISITING CURRENT METHODS IN PULMONARY FUNCTION TESTING

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

San Diego Convention Center

Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P571 Hidden Obesity and Preserved Ratio Impaired Spirometry in Subjects Participating Health Checkup Program
- P572 Preoperative Physiologic Pulmonary Evaluation Before Lung Resection: Impacts of Using the New Global Lung Function Initiative (GLI) Reference Values
- P573 COMPAIR: A Comparison of Clinic-based Versus Home-based Coached Spirometry
- P574 Time-Series Machine Learning Model Classifies Lung Function Using Spirometry Flow-Volume Loops Alone
- P575 Differentiation of Airways Disease From Mass-loading in Obese Patients Utilizing BMI-adjusted Normative Oscillometric Values
- P576 Aerosol Generation Using Different Delivery Methods During Simulated Bronchodilator Challenge Testing in the Pulmonary Function Laboratory
- P577 Preserved Ratio Impaired Spirometry in the Ugandan Link Cohort: A Longitudinal Follow Up

- P578 Alignment of Existing Reference Equations With Equipment-specific Values for Lung Clearance Index Sourced From Two Laboratories
- P579 Home-based Spirometry - Is One Blow Enough?
- P580 Breathing Life into Diagnosis: Novel Spirometric Parameters in the Diagnosis of Obstructive Pulmonary Diseases
- P581 The Back-extrapolated Volume Acceptability Criterion for FVC in Clinical Trials for IPF Inappropriately Calls FVCs Unacceptable and Increases Repeat Testing and Screen Failures
- P582 The Next Step in Lung Function Testing - Non-Contact Lung Function Testing With the New Deep Plethysmography (DPG)
- P583 The Impact of Applying the 2019 ATS/ERS Quality Control Criteria for Spirometry on a Large Population Cohort Study Compared With the 2005 Standard
- P584 Work of Breathing and Respiratory Mechanics in the Prone Versus Supine Position in Healthy Adults
- P585 Simplifying the DLCO Test: Is One Maneuver Enough?
- P586 Waist-to-Hip Ratio and Hand Grip Significantly Impact Pulmonary Function in People With Human Immunodeficiency Virus (HIV)
- P587 Spirometry Patterns in Sickle Cell Disease: An Observational Study
- P588 Difference in Prevalence of Obstructive and Restrictive Ventilatory Defects Using Race-neutral and Race-based Spirometry in Candidates for Liver Transplantation: PVCLD2
- P589 Prediction of Mortality From Spirometry Data Using a Machine Learning: PM-spy
- P590 Identifying Obstructive Airway Disease in Adults Via a Neural Network-based Diagnostic Classifier Employing Lung Oscillometry
- P591 Contrasting Pulmonary Volumes Measured by Helium Dilution Technique at Different Altitudes
- P592 The Impact of Applying GLI Global Equations on Longitudinal FEV1 Values and the Response to Inhaled Corticosteroids in Childhood Asthma

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

A76 ASSESSING RISKS AND OUTCOMES IN INTERSTITIAL LUNG DISEASE

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

San Diego Convention Center

Area H (Hall H, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P931 Analysis of the Phase-shifted Forced Oscillation Technique Parameters as the Adjunctive Diagnostic Indicators for Idiopathic Pulmonary Fibrosis/Usual Interstitial Pneumonia
- P932 Deep Learning-based Classification of Usual Interstitial Pneumonia on Computed Tomography Is Associated With Progression of Interstitial Lung Abnormalities in the COPDGene Study
- P933 Impact of Revised ESC Pulmonary Hypertension Criteria on Lung Transplantation Waitlist Outcomes in Idiopathic Pulmonary Fibrosis Patients
- P934 Fibrosis Reduces Ventilation in the Periphery and Lung Bases in Subjects With ILD
- P935 Impact of Deep-learning-based Lung Imaging Analysis for Estimation of Pulmonary Hypertension in Idiopathic Pulmonary Fibrosis
- P936 The Modified 1 Minute Sit to Stand Test: An Alternative to the 6 Min Walk Test in Pulmonary Fibrosis?
- P937 Automated Deep Learning-based Airway Count Associates With Lung Function in Interstitial Lung Disease
- P938 Clinical Impact of EGFR and Its Ligands in Idiopathic Interstitial Pneumonia
- P939 The Potential for Baseline Spirometry Variability to Generate Increased Treatment Response in IPF
- P940 Adjusting Changes in Lung Function Over Time for Changes in Body Weight in Patients With Idiopathic Pulmonary Fibrosis: Does It Make a Difference?
- P941 Risk Factors for Acute Respiratory Deterioration in Idiopathic Pulmonary Fibrosis

P942 Machine Learning Based Biomarker of Airway Morphology Predicts 63-week Mortality in Fibrotic Interstitial Lung Diseases

BASIC • TRANSLATIONAL

THEMATIC POSTER SESSION

A77 **DECODING THE MOLECULAR MAZE OF SLEEP APNEA**

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P751** Reduced Endothelial Protection Against Complement in Obstructive Sleep Apnea: A Protective Function of Derlin-1
- P752** Combined Sustained and Intermittent Hypoxia Modeling COPD/OSA Overlap Increases Sympathetic Nervous System Activation
- P753** Combined Sustained and Intermittent (Overlap) Hypoxia in Hepatocyte Spheroids Increases Oxidative Stress and Reduces LDL Uptake
- P754** Association of Obstructive Sleep Apnea Severity and White Blood Cell Count in a Multi-centre Cohort
- P755** Apnea-hypoxia Index Is Positively Associated With Serum Interferon-gamma Levels in People Living With HIV
- P756** Exploring Metabolic Changes in Sleep Apnea: A Multi-omics Analysis of Adipose Tissue Reveals Intermittent Hypoxia-induced Shift to Lipid Dominance In Vivo and In Vitro
- P757** Transcriptomic Signature of Intermittent Hypoxia in Pre-clinical Disease Models - A Bioinformatic Meta-analysis
- P758** Effect of Exosomes From Human Glioblastoma Cells Exposed to Intermittent or Sustained Hypoxia on an In Vitro BBB Model
- P759** Multi-omics Analysis of Gut Luminal Exosome Cargos in a Murine Model of Sleep Apnea

P760 Multi-omics Analysis of Luminal Exosomes in Young and Old Male and Female Mice

P761 Brainstem Transcriptomes Reveal Gene Products Associated With Ventilatory Stability in In-bred Mouse Strains

P762 Experimental Setting for Simultaneously Subjecting Rodents to Different Circadian Cycles of Light, Food, and Temperature in Sleep Apnea Models

P763 How Does Surgical Hyoid Bone Repositioning Influence Tracheal Displacement Outcomes on the Upper Airway? A Finite Element Modeling Study

P764 The Effect of Angiotensin-Converting Enzyme Inhibitors Therapy on Quality of Sleep

CLINICAL

THEMATIC POSTER SESSION

A78 **THE SPACE BETWEEN: PLEURAL CASES**

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P766** A Crystal Clear Diagnosis in a Patient With a Lung Mass
- P767** Pleural Fluid Analysis in the Diagnosis of Malignant Pleural Mesothelioma
- P768** Refractory Chylothorax in Metastatic Squamous Cell Carcinoma and B Cell Lymphoma: A Case Report
- P769** Rare Pathology, Dire Prognosis: Pulmonary Involvement in HIV-related Kaposi Sarcoma
- P770** A Case of an Unusually Large Solitary Fibrous Tumor of the Pleura
- P771** Mesothelioma: Frequently Heard, Seldom Seen: A Unique Case Presentation
- P772** Primary Pleural Leiomyosarcoma Presenting as a Large Pleural Effusion

- P773 Extramedullary Plasmacytoma of the Pleura With Myelomatous Pleural Effusions
- P774 Transudative Malignant Pleural Effusion
- P775 Primary Melanoma in the Pleura
- P776 Metastatic Angiosarcoma: An Uncommon Cause of Hemoptysis and Nontraumatic Hemothorax
- P777 Late Isolated Pleural Recurrence of Cutaneous Melanoma
- P778 Amyloidosis: The Great Mimicker, A Rare Pleural Presentation
- P779 Tapping into a Breathtakingly Rare Diagnosis: Primary Peritoneal Carcinoma Presenting as Massive Pleural Effusion
- P780 Malignant Urinothorax as a Complication of Pelvic T Cell Lymphoma With Unilateral Hydronephrosis: A Case Report
- P781 A Case of Bilateral Pleural Effusion; Chylous Pleural Effusion on the Left Side and Malignant Pleural Effusion on the Rt Side
- P782 Pulmonary Sarcomatoid Carcinoma Mimicking Tuberculous Empyema: A Diagnostic Challenge
- P783 A Rare Cause of Pleural Effusion
- P784 Unilateral Pleural Effusion: A Rare Case of Malignant Mesothelioma With Positive Rheumatoid Serology
- P785 Abnormal Pleural Fluid Cytology in Primary Pulmonary Synovial Sarcoma: A Singular Diagnostic Dilemma
- P786 A Very Rare Case of Primary Pleomorphic Liposarcoma of Pleura
- P787 Mesothelioma as the Cause of Unilateral Effusion and Lung Entrapment in a Patient With End-Stage Renal Disease
- P788 Spontaneous Malignant Mesothelioma - A Diagnostic Dilemma
- P789 Rare Subpleural Lipoma in a Patient With Rheumatoid Arthritis
- P790 Pleural Invasion by a Rare Malignancy
- P791 Asbestosis Says What?
- P792 A Hidden Threat: Malignant Pleural Effusion in T-cell Acute Lymphoblastic Leukemia

- P793 Metastatic Angiosarcoma From Scalp Presenting as Bilateral Spontaneous Pneumothorax: A Case Report
- P794 Now That's Thick - Case of a Diffusely Thickened Pleura in a Young Female Patient

BASIC • TRANSLATIONAL
THEMATIC POSTER SESSION
A79 DEFINING LUNG CANCER DEVELOPMENT AND CHARACTERISTICS

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

San Diego Convention Center

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P796 Study on the Regulatory Mechanisms of Bacterial Lysate Product on the Immune Microenvironment in Early Lung Adenocarcinoma
- P797 Decoding Tumor Marker Profiles: Pathways to Targeted Therapies in Brain-metastatic Lung Cancer
- P798 Immune Profile of Malignant Pleural Effusion Between Lung Adenocarcinoma Patients With and Without Effusion Recurrence
- P799 Review of 25-hydroxyvitamin D Deficiency and Epithelial Growth Factor Receptor Mutations in Lung Adenocarcinoma: A Cross-sectional Study in National Respiratory Center Persahabatan Hospital, Indonesia
- P800 Prognosis of Patients With Small Cell Lung Cancer With or Without Interstitial Pneumonia Treated With Postoperative Chemotherapy: A Retrospective Study
- P801 Tracheobronchoesophageal Fistulae in Esophageal Carcinoma
- P802 Sarcoid-like Reactions to Immune Checkpoint Inhibitors: A Rare and Poorly Characterized Complication

- P803 Pulsed Magnetic Fields and the Lung Cancer Glycocalyx: A New Biophysical Frontier**
- P804 Grape Seed Procyanidin Extract Increases Serum Acylcarnitine Levels in Heavy Active and Former Smokers - Potential Role Against Lung Cancer**
- P805 Clinical Response to Immune Checkpoint Inhibitors Is Associated With Response to Prior Platinum-based Chemotherapy in Non-small Cell Lung Cancer With Low or Negative Programmed Death Ligand-1 Expression**

MEDICAL EDUCATION SEMINAR

ME101 RESCUING THE STRUGGLING LEARNER: BEST PRACTICES FOR REMEDIATION

10:30 a.m. - 11:30 a.m. **Marriott Marquis San Diego Marina**
Marina Ballroom E (Level 3, South Tower)

Objectives

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

- identify the struggling learner in multiple levels of graduate medical education training
- improve assessment skills for a struggling fellow to aid in remediation efforts
- develop a collaborative intervention for a struggling learner

Remediation of struggling learners in pulmonary and critical care fellowship programs is a challenge, even for experienced medical educators. This session will use a combined didactic and case-based approach to increase participants' confidence in fellow remediation, and improve their communication skills to aid in delivering formative feedback to different levels of learners.

11:45 a.m. - 1:15 p.m.

DIVERSITY FORUM

Manchester Grand Hyatt San Diego

Seaport ABC Ballroom (Second Level, Seaport Tower)

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.



ATS 2024
International
Conference

ATS 2024 San Diego, CA

Sunday Mid-day, May 19

CLINICAL

ADULT CLINICAL CORE CURRICULUM

CC1 ADULT PULMONARY CLINICAL CORE CURRICULUM

11:30 a.m. - 1:00 p.m. **San Diego Convention Center**
Ballroom 20B-D (Upper Level)

Objectives

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

- integrate current guidelines into the care of people with community acquired pneumonia
- discuss the management of infectious complications in people with bronchiectasis
- describe the current identification and management of people with pulmonary tuberculosis
- 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 Put on Your Thinking CAP: The Latest Evidence in Community-Acquired Pneumonia
- 11:55 Cough It Up: Infectious Causes and Complications of Bronchiectasis
- 12:20 Atypical Situation: What's New in the World of Non-Tuberculous Mycobacteria
- 12:45 Question and Answer

SPS1 SPOTTING BRONCHIECTASIS TREATMENT NEEDS: FOCUS ON DIAGNOSIS AND EXACERBATIONS

12:00 p.m - 1:00 p.m. San Diego Convention Center

Room 6A (Upper Level)

- 12:00 Bronchiectasis: Diagnostic Challenges
- 12:30 Exasperating Exacerbations

SPS2 CONTRASTING CONCURRENT GUIDELINES AND MAKING SENSE OF THEIR DIFFERENCES - ATS AND ESICM ARDS GUIDELINES

12:00 p.m. - 1:00 p.m. San Diego Convention Center

Room 6B (Upper Level)

- 12:00 Summary of ESICM ARDS Guidelines
- 12:15 Summary of ATS ARDS Guidelines
- 12:30 Unpacking Trustworthy Guidelines
- 12:45 Panel Discussion

ASSEMBLY ON AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY

MID-DAY SESSION

MD1 RED IN ACTION I: LUNG RESEARCH HIGHLIGHTS FROM AJRCMB

Assembly on American Journal of Respiratory Cell and Molecular Biology

12:00 p.m. - 1:00 p.m. San Diego Convention Center

Room 30A-B (Upper Level)

Target Audience

Individuals interested in basic mechanisms and pathobiology of lung disease; individuals who publish basic mechanistic and translational lung research; individuals interested in the peer review and editorial process for Am J Respir Cell Mol Biol

Objectives

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

- describe new findings about emerging breakthroughs of molecular 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 interaction.
- better understand the features of mechanism-deciphering lung pathobiology research, and elements that create potential for future impact in the field.

The audience-interactive session will include both the early career author presentations of exemplary recent and in-press articles on basic mechanisms of lung disease in the American Journal of Respiratory Cell and Molecular Biology and will highlight the review process for these articles. Chaired by Associate Editors, novelty and relevance of the work will be highlighted alongside critical comments from external reviewers that were addressed to achieve acceptance. Discussion will highlight how the authors were able to meet reviewer requirements.

12:00 Session Summary

12:04 Associate Editor Summary of Review Process and Potential Impact of Featured Paper

12: PM Lung Epithelium Releases Growth Differentiation Factor 15 in Response to Pathogen-mediated Injury

12:29 Author - Editor Panel Discussion

12:36 Associate Editor Summary of Review Process and Paper Impact

12:41 Tissue-Resident Alveolar Macrophages Reduce Ozone-induced Inflammation via MerTK Mediated Efferocytosis

12:56 Author - Editor Panel Discussion

AMERICAN LUNG ASSOCIATION

MID-DAY SESSION

MD2 STUDY UPDATES FROM THE AMERICAN LUNG ASSOCIATION'S AIRWAY CLINICAL RESEARCH CENTERS NETWORK

12:00 p.m. - 1:00 p.m. Marriott Marquis San Diego Marina

Pacific Ballroom 24-26 (Ground Floor, North Tower)

Target Audience

Physicians, clinical scientists, nurses, paraprofessionals, educators, health care providers

Objectives

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

- apply bronchodilator responsiveness to treatment of patients with uncontrolled asthma
- better diagnose early onset and precursors of chronic lower respiratory disease in young adults.
- apply social network strategies for identification and enrollment of participants for clinical research studies

The purpose of the session is to discuss ongoing research initiatives within the American Lung Association Airways Clinical Research Centers network.

12:00 Introduction

12:05 Social Media Recruitment Strategies in an Online Asthma Trial

12:15 Improving Medication Adherence with Telehealthcare Medication Therapy Management to Change Health Care Outcomes in Adolescents and Young Adults (MATCH)

12:25 LEEP / COVID Part 2

12:35 Bronchodilator response in asthma

12:45 Questions

NATIONAL HEART, LUNG, BLOOD INSTITUTE, NIH

MID-DAY SESSION

MD3 COPDGENE: UPDATES IN COPD EPIDEMIOLOGY, IMAGING, AND BIOMARKERS

12:00 p.m. - 1:00 p.m. Marriott Marquis San Diego Marina

Grand Ballroom 8-9 (Lobby Level, North Tower)

Target Audience

Researchers, medical trainees, those with an interest in COPD pathogenesis

Objectives

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

- learn about how COPD is affected by social determinants of health
- learn about imaging in the COPDgene study
- learn about COPD epigenetics and other omics

Genetic Epidemiology of COPD (COPDgene) is an NHLBI-funded multi-site longitudinal cohort study of current and former smokers to better understand risk factors, natural history, and genetic contributions of COPD as well as other smoking-related diseases. COPDgene uses extensive longitudinal imaging, physiology, and Omics molecular data in combination w/genetics in the COPDgene cohort to identify high-risk subgroups with distinct diagnostic, prognostic, and therapeutic implications. Funded for 15 years, COPDgene originally enrolled 10,000 participants w/significant smoking history. COPDgene study investigators will describe progress and recent findings ranging from how social determinants of health impact COPD to identifying COPD subtypes using omics data.

12:00 COPDgene Progress and Clinical Translation

12:12 Social Determinants of Health and COPD

12:24 Advances in COPD Imaging

12:36 Innovation, Advances and Opportunities in COPD Epigenetics

12:48 COPD Subtyping with Omics

NIEHS

MID-DAY SESSION

MD4 PRECISION ENVIRONMENTAL HEALTH AND ALL OF US: AN OPPORTUNITY FOR PULMONARY MEDICINE

12:00 p.m. - 1:00 p.m. San Diego Convention Center
Room 32A-B (Upper Level)

Target Audience

Clinicians, clinician scientists, basic research scientists, fellows and residents

Objectives

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

- gain knowledge on the intersection between genetic predisposition and exposure to environmental agents/chemicals that may initiate and/or exacerbate preexisting pulmonary morbidities.
- educating and promoting participation of diverse populations into All of Us prospective cohort and access to data for evaluating genetic and exposure relationships in pulmonary diseases.
- tools for integrating large data sets from cohorts, clinical, genetic, and health data as well as geospatial exposure data for predicting exposure-response relationships in disease etiology.

The NIH All of Us Research Program aims to enroll more than one million participants to build a large-scale health database in the USA. The overarching goal of All of Us is to understand risk factors, ranging from environmental factors, lifestyle choices, and family health history, that may associate with disease at the individual level. The NIEHS is collaborating with All of Us to integrate precise exposure data that will help unravel the complexities of environmental factors in the etiology and predisposition to diverse morbidities. This session will focus on opportunities for access to characterize environmental influences in pulmonary morbidity.

12:00 Introduction

12:05 Leveraging the All of Us Research Program to Advance Pulmonary Disease Research

12:22 Disentangling Racial Disparities in Asthma Readmission using a Causal Inference Approach in the All of Us Research program

12:39 Incorporating Environmental Exposure Data Into Established Cohorts

12:56 Q&A

NHLBI

MID-DAY SESSION

MD5 PRECISIONS - APPLYING PRECISION MEDICINE APPROACHES TO PULMONARY FIBROSIS

12:00 p.m. - 1:00 p.m. San Diego Convention Center
Room 24A-C (Upper Level)

Target Audience

Those with research interests or clinical responsibilities focused on interstitial lung disease

Objectives

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

- discuss the central goals of precision medicine and what is being done in the field of pulmonary fibrosis to meet these goals.
- highlight the PRECISIONS-IPF trial rationale, status, and key outcomes to be tested.
- learn new multi-omics findings generated by the PRECISIONS study and derived from the PFF foundation biobank.

PRECISIONS is a research program with an overall objective of bringing a precision medicine approach to pulmonary fibrosis. This session at ATS will provide the following information: (1) an overview of the PRECISIONS research program and its mission, (2) resources and data generated that are available for other investigators with particular encouragement for early-stage investigators, and (3) data generated by PRECISIONS ancillary studies related to different omics platforms and disease monitoring approaches in idiopathic pulmonary fibrosis and other interstitial lung disease types.

12:00 Introduction and Rationale for the PRECISIONS-IPF Study

12:15 Multi-Omics in PRECISIONS-IPF

12:30 Home Spirometry in PRECISIONS-IPF

12:45 Ancillary Studies in PRECISIONS-IPF and Concluding Remarks

ATS, AARC, ERS

MID-DAY SESSION

MD6 CURRENT STATE OF PATIENT-VENTILATOR INTERACTIONS: NOMENCLATURE, RESEARCH, AND OUTCOME

12:00 p.m. - 1:00 p.m. San Diego Convention Center

Room 7A-B (Upper Level)

Target Audience

Clinical Science Translational Clinicians Data Scientists All attendees Biomedical Engineers Medical Educators Nurses

Objectives

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

- diagnose the presence of mechanical ventilator-patient discordance. The learner will recognize the patterns and will be able to highlight differences in nomenclature leading to improved patient care and outcomes.
- have new targets to implement research regarding patient-ventilator interactions and recognize best practices when quantifying them.
- learn the current state of the field of patient ventilator interactions and how these affect patient outcomes.

Critical Care providers must be knowledgeable in patient-ventilator interactions as this has implications in patient experience and outcomes. Although there is a large amount of literature published on the topic, there is discrepancy in nomenclature, methods to measure and quantify and how we define outcomes. This session will highlight current knowledge and discuss future research strategies and organization to promote homogeneity in nomenclature and to define meaningful end-point parameters to be used in such clinical research on interventions to reduce ventilator-patient discordances. A joint session amongst the leading societies in critical care and respiratory care will help pave the way for a unified statement.

- 12:00** The Current State of Nomenclature in Patient-Ventilator Interactions
- 12:15** How Do We Define and Measure Synchrony
- 12:27** Linking Patient-Ventilator Discordances to Patient Outcomes
- 12:39** Current areas of clinical uncertainty and research direct in Patient-ventilation Interactions
- 12:53** Questions and Discussions for Presenters

NHLBI, NIH

MID-DAY SESSION

MD7 THE MOLECULAR ATLAS OF LUNG DEVELOPMENT (LUNGMAP), PHASE 2

12:00 p.m. - 1:00 p.m. San Diego Convention Center

Room 28A-B (Upper Level)

Target Audience

Providers of lung health, medical fellows in training, and basic and clinical researchers interested in lung biology, developmental biology, pediatric lung disease, multi-omics, bioinformatics, and systems biology

Objectives

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

- learn the newest datasets of LungMAP that could inform lung research
- learn the innovative technologies for molecular profiling, imaging, and data analysis of the developing lung.
- learn how to access and use the LungMAP resources.

Molecular Atlas of Lung Development (LungMAP) is an NHLBI-sponsored program. The overall goal of this program is to establish an open-access reference resource by creating a comprehensive molecular atlas of the late-stage developing human lung with data and reagents available to the research community. Speakers will demonstrate how developmental biology, multi-omics technologies, and bioinformatic approaches can be used to inform processes in development that are recapitulated in disease and repair. The session will illustrate the LungMAP data pipeline which integrates high resolution multi-omics and imaging data.

- 12:00** Single-Cell Mapping of Bronchopulmonary Dysplasia
- 12:12** Multi-Omics Analyses of the Developing Lung in Health and Disease
- 12:24** Revealing Endothelial Subtypes in Pulmonary Versus Systemic Circulation
- 12:36** Exploring Spatial Heterogeneity in Chronic Lung Disease
- 12:48** History and Future of the LungMAP BRINDL Biorepository to Advance Human Lung Research

USDA

MID-DAY SESSION

MD8 PULMONARY UPDATE FROM THE US FOOD AND DRUG ADMINISTRATION

12:00 p.m. - 1:00 p.m. **San Diego Convention Center**
Room 6D (Upper Level)

Target Audience

Clinicians in practice, academic researchers, pharmacists, pharmaceutical representatives, international regulators

Objectives

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

- provide a better understanding of the regulatory considerations regarding chronic cough drug development programs
- provide an update regarding regulatory considerations around drug development programs in fibrotic lung disease, e.g. IPF
- provide an update of regulatory activities over the past year

The most recent FDA actions, including recent drug approvals for pulmonary and critical care diseases, research endeavors, safety issues, and other hot topics that we have navigated over the past year in the Division of Pulmonology, Allergy, and Critical Care will be presented and discussed.

- 12:00** **Regulatory Considerations for Chronic Cough Drug Development Programs**
- 12:20** **Regulatory Considerations for IPF Drug Development Programs**
- 12:40** **Hot Topics in the Division of Pulmonology, Allergy, and Critical Care**
- 12:50** **Question and Answer**

NIAID

MID-DAY SESSION

MD9 AIRWAY DISEASE ENDOTYPING USING OMICS

12:00 p.m. - 1:00 p.m. **San Diego Convention Center**
Room 29A-D (Upper Level)

Target Audience

Clinicians, basic and clinical researchers

Objectives

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

- describe the circulation patterns of common respiratory viruses during the pandemic and their influence on SARS-CoV-2 susceptibility, as well as airway gene expression patterns that predispose to SARS-CoV-2 infection.
- describe differential methylation patterns in nasal epithelia defining the endotype frequent asthma exacerbations in a pediatric cohort, and the potential role of the nervous system in the frequent exacerbator asthma phenotype.
- define inverse relationships between T2 genes and antimicrobial genes in children with allergic asthma and rhinitis

This session will highlight NIAID-funded programs utilizing airway omics to endotype lung diseases, including viral respiratory infection, exacerbation prone asthma and the relationship between allergic rhinitis and asthma.

- 12:00** **Human Rhinoviruses Influence SARS-CoV-2 Infection Through Modulation of Airway Interferon Levels**
- 12:20** **Omics of the Asthma Frequent Exacerbator**
- 12:40** **Type-2 Inflammation Inversely Associates with Antimicrobial Immune Responses in the Airway Epithelium**

CDC - NATIONAL INSTITUTE FOR
OCCUPATIONAL SAFETY AND HEALTH

MID-DAY SESSION

MD10 NIOSH OCCUPATIONAL RESPIRATORY DISEASE HEALTH HAZARD EVALUATIONS AND FIELD STUDIES

12:00 p.m. - 1:00 p.m. **San Diego Convention Center**
Room 8 (Upper Level)

Target Audience

Providers of lung health, those interested in preventing occupational respiratory disease

Objectives

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

- counsel patients with work-related respiratory disease about whether and how to seek a NIOSH health hazard evaluation in their workplace.

- recognize when blastomycosis should be considered as a potential cause for outbreaks of pneumonia.
- describe new findings about silicosis related to working with engineered stone.

The session will provide attendees with an overview of NIOSH's unique authorities to study and address occupational respiratory diseases through health hazard evaluations and field studies and examples of efforts to address contemporary work-related outbreaks of blastomycosis and engineered stone-related silicosis.

12:00 Introduction to Session

12:03 Overview of NIOSH Authority to Conduct Health Hazard Evaluations and Industry-Wide Studies

12:22 Health Hazard Evaluation: Blastomycosis Outbreak in a Paper Mill

12:41 Industry-Wide Study: Respirable Crystalline Silica Exposure and Silicosis in Engineered Stone Workers

NIH/NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

MID-DAY SESSION

MD11 SYSTEMS BIOLOGY IN INFECTIOUS DISEASES

**12:00 p.m. - 1:00 p.m. San Diego Convention Center
Room 2 (Upper Level)**

Target Audience

Pulmonary, critical care and infectious diseases researchers, clinical/translational and basic sciences

Objectives

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

- apply a systems biology approach to studying clinical infectious disease outcomes.
- define strategies to improve the ability to model lung immunity.
- increase their awareness of NIH resources for studies of host immunity and microbial pathogenesis.

The NIH/NIAID employs a variety of funding mechanisms to support research in serious infections, including severe viral, fungal, tuberculosis, and antibiotic-resistant bacterial pathogen infections. A systems biology approach to these pathogens, host

response, and diseases relevant to the pulmonary and critical care community will be illustrated.

12:00 T Cell Responses During Severe SARS-CoV-2 Pneumonia

12:13 Decoding Persistent MRSA and Candida Bloodstream Infections

12:26 Dissecting the Viral Immunosphere Using Systems Serology and Viral Genomics

12:39 Code-A-Thon As a Model to Handle Big Data Analysis

12:52 Questions

NHLBI, NIH

MID-DAY SESSION

MD12 THE NHLBI LUNG TRANSPLANT CONSORTIUM

**12:00 p.m. - 1:00 p.m. Marriott Marquis San Diego Marina
Grand Ballroom 11-13 (Lobby Level, North Tower)**

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.

This session will review recent research findings generated by investigators within the NHLBI Lung Transplant Consortium, which encompasses a series of observational cohort studies that aim to understand the impact of site-specific lung transplant selection criteria and clinical management strategies on donor lung utilization and/or early post-transplant outcomes in recipient

12:00 The PROMISE-LUNG Study

- 12:15 CATCH: Creating Access To Transplant For Candidates Who Are High Risk**
- 12:30 Lung Transplant Recipient Exosome Phenotypes and the Risk Of Primary Graft Dysfunction and sAcute Lung Allograft Dysfunction**
- 12:45 Vaccination Responses In Lung Transplant Recipients**

NHLBI, NIH

MID-DAY SESSION

MD13 TWO DECADES OF PROGRESS FROM THE GENETIC DISORDERS OF MUCOCILIARY CLEARANCE CONSORTIUM

**12:00 p.m. - 1:00 p.m. Marriott Marquis San Diego Marina
Pacific Ballroom 18-19 (Ground Floor, North Tower)**

Target Audience

Physician scientists, health providers, researchers, clinicians, nurses and educators interested in primary ciliary dyskinesia, non-cystic fibrosis bronchiectasis and other disorders of mucociliary clearance. Junior professionals interested in rare lung disease

Objectives

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

- learn new technologies to investigate the pathogenic mechanisms and prediction of rare suppurative lung diseases
- understand the pathogenesis, genetic, and risk factors for exacerbations in rare suppurative lung diseases in order to have new strategies to manage the care of patients with these diseases
- improve clinical phenotyping for rare suppurative lung diseases to be able to better diagnose patients with these diseases

This session will focus on rare lung disease research with presentations highlighting past and recent progress from cohort studies within the Genetic Disorders of Mucociliary Clearance Consortium (GDMCC). Study teams will provide a summary of diverse disease phenotypes, genetics, disease burden and influence of exacerbation risk factors for rare suppurative lung diseases. The scientific talks from the GDMCC will focus on progress made during the last five years from three cross-sectional and/or longitudinal studies. The session will

conclude with a general discussion on future directions and needs for rare lung disease research.

- 12:00 Introduction to the GDMCC**
- 12:05 Cross-Sectional Study Defining the Genetic Bases of Non-Cystic Fibrosis Suppurative Lung Disease**
- 12:20 Longitudinal Study Assessing the Effect of Respiratory Exacerbations on Quality of Life and Disease Progression**
- 12:35 Cross-Sectional Study Examining and Comparing the Clinical Impact of the Otolaryngological Manifestations of PCD and PID**
- 12:50 Discussion**

PEDIATRIC CLINICAL CORE CURRICULUM

PCC1 PEDIATRIC CLINICAL CORE CURRICULUM 1

**12:00 p.m. - 1:00 p.m. San Diego Convention Center
Ballroom 20A (Upper Level)**

Target Audience:

All attendees

Objectives

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

- discuss the management of pediatric ARDS, massive hemoptysis, and severe asthma in the ICU
- explain the role of the pediatric pulmonologist in a cardiovascular ICU
- identify strategies to approach discussions around tracheostomy and for planning effective transition out of the ICU

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 Staying Current: Updates in Pediatric ARDS Diagnosis and Management**
- 12:25 Navigating Severe Asthma in the PICU**
- 12:50 Question and Answer**



ADULT CLINICAL CORE CURRICULUM

CC2 ADULT SLEEP CLINICAL CORE CURRICULUM

2:15 p.m. - 3:45 p.m.

San Diego Convention Center

Ballroom 20B-D (Upper Level)

Objectives

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

- describe the use of currently available wearable monitors in the evaluation and management of sleep disorders
- discuss updates in the management of sleep disorders in pediatric and underserved populations
- explain current approaches to managing hypersomnia, insomnia, and circadian rhythm 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 "But My Watch Says...": Wearables and Sleep

2:40 New Therapeutics on the Block: Hypersomnia Disorders

3:05 Taking Sleep to the People: Expanding Sleep Access in Underserved Areas

3:30 Question and Answer

SPS3 ATS/NHLBI INCLUSIVE PRACTICES IN CLINICAL TRIAL RECRUITMENT (PART 1)

2:15 p.m - 3:15 p.m. Marriott Marquis San Diego Marina

Marina Ballroom E (Level 3, South Tower)

2:15 Welcoming Remarks and Opening Talk

2:25 Patient Advocate Story

2:30 Summary of Prior Workshop Findings

2:40 The Community Engagement Alliance Consultative Resource (CEACR)

2:50 Panel Q&A

SPS4 NHLBI/ATS INCLUSIVE PRACTICES IN CLINICAL TRIAL RECRUITMENT (PART 2)

12:00 p.m. - 1:00 p.m. San Diego Convention Center

Room 6B (Upper Level)

3:15 Roundtable Discussions

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

YEAR IN REVIEW

A81 PEDIATRIC YEAR IN REVIEW

Assembly on Pediatrics

2:15 p.m. - 3:45 p.m. San Diego Convention Center

Room 6B (Upper Level)

Target Audience

Any provider of lung health for children, as well as clinical and translational researchers who study pediatric respiratory health and disease.

Objectives

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

- learn about the latest advances in cystic fibrosis, asthma, primary ciliary dyskinesia, and respiratory manifestations of neuromuscular disorders
- better understand the role of “omics” technologies and personalized medicine in improving clinical outcomes in pediatric patients with respiratory disease
- discuss the impact of access to care and medication costs on patient outcomes and health disparities

This session will provide an update with state-of-the-art information on four topics in Pediatric Pulmonary Medicine: (1) cystic fibrosis, (2) asthma, (3) primary ciliary dyskinesia and bronchiectasis, and (4) neuromuscular disorders.

- 2:15 Introduction
- 2:17 Advances in Cystic Fibrosis
- 2:36 Questions - CF
- 2:39 Precision Medicine in Asthma: Omics and Biologics
- 2:58 Questions – Asthma
- 3:01 Management of Neuromuscular Disorders in Children
- 3:20 Questions - Neuromuscular Disorders
- 3:23 Updates in Primary Ciliary Dyskinesia and Non-CF Bronchiectasis
- 3:42 Questions - PCD and Bronchiectasis

COMMITTEE SPONSORED

A82 NEJM, JAMA, AJRCCM DISCUSSIONS ON THE EDGE: REPORTS OF RECENTLY PUBLISHED CRITICAL CARE RESEARCH

2:15 p.m. - 4:15 p.m. San Diego Convention Center

Ballroom 20A (Upper Level)

This session will provide a forum for attendees to interact with the authors and editors about papers published in the New England Journal of Medicine, Journal of the American Medical Association, and the American Journal of Respiratory and Critical Care Medicine.

Papers presented will be recent publications, selected by the editors, to be of significant importance to the field of critical care medicine. Attendees will have the opportunity to hear presentations directly from the author and address questions to both the authors and editors. The discussion is intended to provide a unique insight into these papers, the selection process, and how the research applies directly to the field of critical care medicine.

Presentation titles embargoed until Sunday, May 19th.

CLINICAL

CLINICAL TOPICS IN PULMONARY MEDICINE

A83 GREAT CASES: CLINICAL, RADIOLOGIC, AND PATHOLOGIC CORRELATIONS BY MASTER CLINICIANS

2:15 p.m. - 3:45 p.m. San Diego Convention Center

Room 6A (Upper Level)

Target Audience

Clinicians in adult and pediatric PCCM

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

Pulmonary fellows or medical residents present interesting cases to a multidisciplinary panel of master clinicians to demonstrate a team approach to diagnosing and managing challenging clinical cases. The session will shed light on both common and rare pathologies in pulmonary and critical care medicine enhancing medical knowledge, diagnostic and management skills.

- 2:15 Knew You Were Trouble**
2:27 Everything Has Changed
2:39 Anti-Hero
2:51 Pediatric Case: Cruel Summer
3:03 Master Clinician
Master Pathologist
Master Radiologist

CLINICAL • TRANSLATIONAL

CLINICAL TOPICS IN PULMONARY MEDICINE

A84 COMBINED PULMONARY FIBROSIS AND EMPHYSEMA: FROM PATHOGENESIS TO DIAGNOSIS AND THERAPEUTIC IMPLICATIONS

Assembly on Clinical Problems

2:15 p.m. - 3:45 p.m. Marriott Marquis San Diego Marina

Grand Ballroom 8-9 (Lobby Level, North Tower)

Target Audience

Providers who see patients with chronic obstructive pulmonary disease (COPD) and/or interstitial lung disease (ILD) and researchers with a basic or clinical research background in COPD and/or ILDs

Objectives

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

- define new strategies to manage the care of patients with combined pulmonary fibrosis and emphysema in order to improve their quality of life and symptom burden
- better diagnose patients with combined pulmonary fibrosis and emphysema
- integrate/incorporate new guidelines from the official 2022 ATS research statement on CPFE into current practice

Combined pulmonary fibrosis and emphysema (CPFE) is a clinical entity that is not well defined as discussed in the ATS/ERS/JRS/ALAT Research Statement published in 2022. This session is well suited for both clinicians and researchers who want to gain a deeper understanding into the pathogenesis and biologic mechanisms behind the development of fibrosis and emphysema, key radiologic signatures of disease and available therapeutic options for CPFE patients. This knowledge base will help us define critical research priorities, the crucial next step given the known poor outcomes in this patient population who unfortunately have an underdiagnosed and understudied disease.

- 2:15 Patient Speaker**
2:20 Combined Pulmonary Fibrosis and Emphysema: What We Know and Need to Know
2:25 Diagnostic Categorization of Combined Pulmonary Fibrosis and Emphysema
2:35 Questions for Dr. Vincent Cottin
2:39 Biological Implications and Pathways of Fibrosis and Emphysema Development
2:49 Questions for Dr. Timothy Blackwell
2:53 Clinical Manifestations of the Syndrome of Combined Pulmonary Fibrosis and Emphysema
3:03 Questions for Dr. Tamera Corte
3:07 Imaging Features in Combined Pulmonary Fibrosis and Emphysema and Quantifying Disease Severity
3:17 Questions for Dr. Rachel Putnam
3:21 Therapeutic Options for Patients with Combined Pulmonary Fibrosis and Emphysema
3:31 Questions for Dr. Sara Tomassetti
3:35 Panel Discussion

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

BASIC SCIENCE CORE

A85 FROM MECHANISM TO PREDICTION: APPLICATION OF METABOLOMICS ACROSS THE PULMONARY/CRITICAL CARE SPECTRUM

2:15 p.m. - 3:45 p.m. Marriott Marquis San Diego Marina

Grand Ballroom 5-6 (Lobby Level, North Tower)

Target Audience

Objectives

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

- Learn cutting-edge approaches in the study of metabolism.
- Appreciate the breadth of impact of metabolism across multiple different pulmonary and critical illnesses.
- Have new translational strategies to characterize disease mechanisms and high risk patient populations.

Impaired metabolism is implicated in numerous disease states. Advanced technologies for mitochondrial and metabolomic assessment are increasingly applied to pulmonary and critical care diseases, allowing for enhanced characterization of disease mechanisms as well as clinical prognostication. Often "omics" feel inaccessible to clinicians and clinical researchers due to the vast volume of data, and can be difficult to apply to clinically meaningful outcomes for basic scientists. The goal of this session is to allow all audience members to see how these state-of-the-art techniques can be applied across disease states, informing disease mechanisms as well as enhancing prognostication across various pulmonary and critical care diseases.

2:15 Translational Metabolomics to Define Mechanisms in Sepsis

2:45 Spatial Assessment of Metabolism in the Lung

3:05 Application of Polymetabolite Risk Scores to Predict Outcomes in Pulmonary Vascular Disease

3:25 Using Metabolomics to Connect Genetic and Environmental Factors to Phenotype in Asthma

CLINICAL

CRITICAL CARE TRACK

A86 BEYOND THE BUNDLE: SEPSIS CARE BEFORE ARRIVAL AND AFTER SURVIVAL

Assemblies on Critical Care; Behavioral and Health Services Research

2:15 p.m. - 3:45 p.m. Marriott Marquis San Diego Marina

Grand Ballroom 2-4 (Lobby Level, North Tower)

Target Audience

Clinicians, researchers, trainees, and other providers, including nurses, social workers, and physical therapists, who care for patients with sepsis across the course of their illness- from before hospital arrival through recovery.

Objectives

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

- identify opportunities for performance improvement at two key understudied time points in sepsis: before hospital arrival and after survival
- describe new research findings about pre-hospital sepsis management, including sepsis prevention and pre-hospital interventions
- improve the recovery and quality of life of sepsis survivors by applying evidence-based tools to de-escalate invasive care and recognize and treat post-sepsis syndrome

Despite improvement over the past few decades, sepsis remains a major cause of morbidity and mortality worldwide. Sepsis research and quality improvement initiatives have traditionally focused on recognition and prompt treatment upon arrival to the hospital. The pre-hospital and recovery periods are also important, yet understudied, time points for interventions. Specifically, this session will highlight opportunities for improving sepsis care before arrival to the hospital and after survival, both in the hospital and post-discharge, leveraging novel technologies and system-based and global interventions.

2:15 Sepsis: A Patient's Journey

2:20 Stopping Sepsis Before It Starts: Addressing the Global Burden of Sepsis through Prevention

2:32 Moving Care Upstream: Pre-Hospital Sepsis Trajectories and Interventions

2:44 Your Patient Turned the Corner, Now What?

- 2:56 **Staying on the Right Path: Promoting Recovery and Preventing Re-Admission**
- 3:08 **Catching Patients Downstream: Starting Post-Sepsis Care Pre-Discharge**
- 3:20 **The Road to Recovery: Lessons Learned from Post-ICU Interventions**
- 3:32 **Panel Discussion and Questions**

BASIC • BEHAVIORAL • CLINICAL

SCIENTIFIC SYMPOSIUM

A87 IS IT IN THE AIR? EMERGING RISKS FOR LUNG CANCER

Assemblies on Thoracic Oncology; Environmental, Occupational and Population Health; Tobacco Action Committee

2:15 p.m. - 3:45 p.m. **Marriott Marquis San Diego Marina**

Pacific Ballroom 18-19 (Ground Floor, North Tower)

Target Audience

Clinicians with patients who vape or smoke cannabis or are at risk for lung cancer. Those with clinical, research, or administrative responsibilities related to lung cancer risk. Researchers interested in inhalational exposures.

Objectives

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

- identify established lung cancer risk factors beyond combustible tobacco
- increase understanding of life-course implications of secondhand smoke exposure
- describe mechanisms for how novel exposures increase carcinogenesis

The proportion of lung cancers diagnosed in never tobacco users is nearing 20% and is expected to continue to rise, while tobacco use also does not account for all cancer risk in patients who have smoked. Emerging evidence supports a causal role of air pollution and other life-course exposures in lung cancer risk. New recreational products and the expanded legality of cannabis have implications for respiratory tract cancers in the future as more people habitually use these products. This session will discuss emerging evidence about risks for lung cancer other than personal combustible tobacco use. The session will feature a patient perspective related to non-smoking related lung cancer

and a Q and A discussion about bridging research gaps to help inform future clinical practice.

- 2:15 **Introduction: Lung Cancer Not Attributable to Smoking**
- 2:18 **Lung Cancer in Persons who Have Never Smoked: A Patient Perspective**
- 2:23 **Patterns of Vaping and Cannabis Product Use: New Products, New Challenges**
- 2:36 **What Did I Just Inhale? Vaping, Cannabis Use and the Risk of Cancer**
- 2:49 **Air Pollution and PM-2.5 as a Potential Environmental Lung Carcinogen**
- 3:02 **Secondhand Smoke and Other Inheritable and Non-Inheritable Risks**
- 3:15 **Deployment-Related Risks for Lung Cancer: Lessons Learned from Veteran Research**
- 3:28 **Q&A-Summing it up**

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CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

A88 POST-TB LUNG DISEASE: FROM GLOBAL BURDEN TO MOLECULAR MECHANISMS

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

2:15 p.m. - 3:45 p.m. **San Diego Convention Center**

Room 6C-F (Upper Level)

Target Audience

Researchers, clinicians, and public health practitioners who study or care for people with TB and post-TB chronic lung disease.

Objectives

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

- describe current understanding of the burden and clinical nature of post-TB lung disease
- describe current understanding of molecular mechanisms of tissue damage after TB infection in model systems

- provide data to better diagnose post-TB lung disease and care for TB survivors

This symposium will provide a review of recent advances in the field of post-TB lung disease, from the burden and epidemiology to the clinical overlap with diseases such as NTM pulmonary disease, COPD, bronchiectasis, and fibrotic lung diseases to the pathogenesis, biomarkers and potential therapeutics to improve long-term outcomes among TB survivors.

- 2:15 Post-TB Lung Disease: Assessing the Global Burden**
- 2:30 Patterns of Post-TB Lung Disease: Overlap with COPD, Bronchiectasis, and Fibrotic Lung Diseases**
- 2:45 Post-TB Pathogenesis: Matrix Destruction and Remodeling**
- 3:00 Circulating Biomarkers and Potential Therapeutics for Post-TB Lung Disease**
- 3:15 Patient-Reported Outcomes After TB and Caring for TB Survivors**
- 3:30 Round Table Q&A**

BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

A89 MECHANICAL FORCES IN LUNG DISEASE

Assemblies on Respiratory Structure and Function; Respiratory Cell and Molecular Biology; PhD; Basic and Translational Scientist Working Group

2:15 p.m. - 3:45 p.m. Marriott Marquis San Diego Marina
Pacific Ballroom 21-22 (Ground Floor, North Tower)

Target Audience

Scientists and Physician Scientists interested in understanding how mechanical forces in the lung alter the lung environment in health and disease.

Objectives

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

- identify the gaps in our knowledge about the functional impact of mechanical forces in lung disease
- identify the importance of researching the functional impact of mechanical forces to elucidate its role in lung pathology. These studies are integral for the development of targeting treatment strategies

- identifies the current experimental methods for examining mechanotransduction with the goal of spurring more research and collaborations in this field

Multiple endothelial, epithelial and mesenchymal mechanotransducers have been identified, including those in cell adhesion protein complexes, primary cilia, mechanically gated ion channels and integrin-related cell-ECM interactions. In addition to their role in normal respiration, physical forces are also integral for the development and progression of acute and chronic lung diseases. The experts presenting at this symposium will provide insight into the contribution of biophysical forces to the normal function of the lung as well as how the perturbations in these forces both drive and reinforce lung disease. In addition, the presenters will highlight novel cutting-edge molecular techniques to study these forces in vitro and in vivo.

- 2:15 The Role of Matrix Stiffness on the Regulation of the Fibrotic Response**
- 2:30 Fibroblast-Extracellular Matrix Interactions and Modulation of the Mechanical and Biochemical Microenvironment**
- 2:45 Microenvironmental Cues at the Alveolar Capillary Barrier in Lung Injury**
- 3:00 Microenvironmental Mechanics and Alveolar Epithelial Cells Synergistically Drive Fibroblast Activation in 3D Lung Models**
- 3:15 Stiffness, Contraction, and Stretch-Responsiveness of Human Precision Cut Lung Slices**
- 3:30 Crystal Ribcage: A Platform To Probe Lung Mechanobiology**

BASIC

SCIENTIFIC SYMPOSIUM

A90 METABOLITE INTERACTIONS IN HEALTH AND DISEASE: UNVEILING THE MUTUAL FEEDING BETWEEN HOST AND MICROBIOTA

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

2:15 p.m. - 3:45 p.m. Marriott Marquis San Diego Marina
Grand Ballroom 11-13 (Lobby Level, North Tower)

Target Audience

Basic and translational researchers, clinicians

Objectives

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

- learn how integrative analysis of multi-omic data sets, in this case, 16s sequencing and metabolite profiling can be integrated in lung disease- e.g. asthma and COPD
- determine how, if you have a multi-omic data set and you have some microbe hits or metabolites that have been identified, to bring it to the next level mechanistically to see if your observations are worth pursuing therapeutically
- gain an overview of the current methods needed to study small metabolites in the airspaces as well as specific pathogens- correcting one pathogen at a time in chronic lung disease

This session aims to offer a detailed and systematic understanding of the metabolic interaction between the host and microorganism within the airspaces of the lung.

- 2:15 The Interplay of Microbiome, Metabolism, and Immune Response in Asthma and COPD**
- 2:33 Unveiling Active Microbial Metabolism through Functional Genomic Profiling of the Lower Airways**
- 2:51 Harnessing Itaconate: Pseudomonas Aeruginosa’s Strategy of Redirecting Host-Derived Metabolite to Fuel Biofilm Formation**
- 3:09 Metabolomic Profiles in Serum that Indicate Defects in Fatty Acid Oxidation Distinguish Subphenotypes of Acute Respiratory Distress Syndrome**
- 3:27 Exploiting Host-Derived Metabolites as Weapons Against Antibiotic Resistance**

CLINICAL

SCIENTIFIC SYMPOSIUM

A91 WHAT ARE THE GREATEST GLOBAL CHALLENGES TO LUNG HEALTH?

Assembly on International Health Committee

2:15 p.m. - 3:45 p.m. San Diego Convention Center
Room 29A-D (Upper Level)

Target Audience

Attendees from various backgrounds and levels of expertise can benefit from the discussion. All individuals with a general interest

in global health or those seeking to expand their knowledge on the topic should be encouraged to attend.

Objectives

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

- describe major challenges to global lung health
- define how local context affects the magnitude of the problem and effective solutions
- define strategies for how global respiratory societies can work together to improve global lung health and decrease disparities

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% residing outside the United States. Common challenges face members in all countries although context matters. This symposium invites perspectives from peer respiratory societies to address the question, “What are the greatest global challenges to lung health?”

- 2:15 Opening Remarks**
- 2:20 Equitable Access to Treatment and Health Care**
- 2:37 Air Pollution**
- 2:54 Tobacco**
- 3:11 Poverty**
- 3:28 Panel Discussion**

BEHAVIORAL • CLINICAL

MINI SYMPOSIUM

A93 CRITICAL CARE AND ACUTE CARE MEDICINE: DISPARITIES, QUALITY IMPROVEMENT, AND OUTCOMES

2:15 p.m. - 4:15 p.m. San Diego Convention Center
Room 7A-B (Upper Level)

Oral Presentations:

- 2:15 Significant Disparities Exist in Primary Care Provider Follow-up After Veterans Experience Sepsis**
- 2:27 Area Deprivation Index and Likelihood of Presenting to ED With Sepsis**
- 2:39 Examining the Association Between Hospital Environments and Intersectional Disparities in Mechanical Ventilation Outcomes**

- 2:51 Looking to “Level The Field”: A Qualitative Study of How Clinicians Contextualize Social Determinants in Critical Care
- 3:03 Subtyping Physician Practice Patterns in the Intensive Care Unit
- 3:15 Patient Dignity in Long-term Recovery Among Survivors of Acute Respiratory Failure: A Prospective Cohort Study
- 3:27 Development and Implementation of Electronic Health Record-embedded Clinical Decision Support to Reduce Central Line-associated Bloodstream Infections
- 3:39 Lactated Ringer’s Versus Normal Saline Resuscitation Among Patients Hospitalized With Sickle Cell Disease Vaso-occlusive Episodes
- 3:51 Drivers of Decision-making for Adult Tracheostomy for Prolonged Mechanical Ventilation: A Qualitative Study
- 4:03 Chaos and Confusion: Antipsychotic Use in the ICU Within the Veterans Healthcare System During the COVID Pandemic
- 3:03 Understanding Decision-Making Regarding Intubation in the Prehospital Setting for Acutely Ill People Living With Dementia
- 3:15 Hospital Policy Variation in Addressing Decisions to Withhold and Withdraw Life Sustaining Treatment
- 3:27 Association of Specialist Palliative Care Use and Treatment Intensity in Patients With Critical Illness: A Population-based Cohort Study
- 3:39 Did Hospital Critical Care Infrastructure Impact COVID-19 Survivability During Caseload Surges? A Natural Experiment of Resilience to Inform Future Care Delivery, 620 U.S. Hospitals, July-November 2021
- 3:51 Regret: A Survey Among ICU Health Care Workers
- 4:03 Beyond ICU-PAUSE: Post-implementation Analysis of Barriers and Facilitators to Adoption of a Standardized ICU-to-Ward Transfer Tool

BEHAVIORAL • CLINICAL

MINI SYMPOSIUM

BEHAVIORAL • CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

A94 OPTIMIZING ICU PRACTICE, TEAMS, AND INFRASTRUCTURE

2:15 p.m. - 4:15 p.m. San Diego Convention Center
Room 32A-B (Upper Level)

Oral Presentations:

- 2:15 Temporal Trends of Physical and Occupation Therapy in Mechanically Ventilated US Adults: 2008-2021
- 2:27 A Cost-effectiveness Analysis of Early Mobilization in Critically Ill Patients: An Economic Evaluation Alongside the Team Trial
- 2:39 Comparison of Adverse Event Rates With Early Mobilization and Usual Care: A Blinded Post-hoc Secondary Analysis of a Randomized Clinical Trial
- 2:51 Effect of a Three-Component Geriatrics Bundle on Incident Delirium Among Critically Ill Older Adults

A95 CLIMATE CHANGE AND HEALTH DISPARITIES IN LUNG DISEASE

2:15 p.m. - 4:15 p.m. San Diego Convention Center
Room 24A-C (Upper Level)

Oral Presentations:

- 2:15 Extreme Heat and Asthma Hospitalizations in Children in California (2017-2020)
- 2:27 Greenness, Foliage, and Pm2.5-attributable Asthma-related Emergency Department Visits in Richmond, California (2011-2017): An Ecologic Study
- 2:39 Indoor Air Quality in Eastern Massachusetts During the 2023 Wildfire Season
- 2:51 Changes in Particulate Matter Cardiopulmonary Health Effects After a Fossil Fuel Emission Source Intervention
- 3:03 Prevalence and Prognosis of Subclinical Lung Pathology on Computed Tomography (CT) Scan Among Adults Meeting Lung Function Reference Population Eligibility Criteria

- 3:15 Impacts of Reference Sex Choice on Spirometry Interpretation and Classification: Considerations for Transgender and Gender-Diverse People
- 3:27 The Impact of Race, Social Determinants of Health (SDOH), Patient Choice, and Surgical Candidacy on Interventions for Early-stage Lung Cancer
- 3:39 Tenant Reports of In-home Asthma Triggers and Neighborhood Emergency Department Asthma Visit Rates in Boston, MA
- 3:51 Social Vulnerability Index and Asthma in a Prospective Study of Puerto Rican Youth
- 4:03 Prognostic Implications of Living Closer to a Major Highway in Never-smoker Patients With Interstitial Lung Disease

BEHAVIORAL • CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

A96 IMPROVING THE CARE OF PATIENTS WITH DIVERSE PULMONARY CONDITIONS AND SLEEP DISORDERED BREATHING

2:15 p.m. - 4:15 p.m. San Diego Convention Center
Room 8 (Upper Level)

Oral Presentations:

- 2:15 The State of Home Health Nursing for Medically Complex Children in the United States
- 2:27 Overtreatment and Competing Causes of Death: Does This Contribute to Poor Outcomes in the National Lung Screening Trial (N=18,463)
- 2:39 Continuous Positive Airway Pressure (CPAP) Adherence in Women: Associations With Insomnia, Fatigue, Depression, and Excessive Daytime Sleepiness
- 2:51 Respiratory Symptoms and Disease in Sjögren's Syndrome: Patient Experience and Impact on Quality of Life
- 3:03 Comparison of Mindfulness Levels in Community-dwelling Adults With Chronic Obstructive Pulmonary Disease (COPD)

- 3:15 EHRI-NCS: Initial Evaluation of an NIH-funded Research Training Workshop for Nurse and Clinician Scientists
- 3:27 Gender Differences in the Effects of Acute Exacerbations of COPD on Physical Activity: A Secondary Qualitative Study
- 3:39 Assessing the Persistent Impact of Redlining on Cardiopulmonary Health in North Birmingham, Alabama
- 3:51 Financial Toxicity of Adults With Long-COVID: A Comparative Analysis
- 4:03 Stepping Stones to Adolescent Asthma Self-management

CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

A97 IT'S (NOT) A SMALL WORLD: MOLECULAR AND PHYSIOLOGIC EPIDEMIOLOGY IN PAH

2:15 p.m. - 4:15 p.m. San Diego Convention Center
Room 6D (Upper Level)

Oral Presentations:

- 2:15 The Impact of Reproductive History on Pulmonary Hypertension: Insights From the Pvdomics Study
- 2:27 Individualized Interactomes Derived from Pulmonary Endothelial Transcriptomics Collected at Point-of-Care Personalize Therapeutic Repositioning in Pulmonary Arterial Hypertension
- 2:39 The Use of Pulmonary Hypertension Targeted Medical Therapy in Chronic Thromboembolic Pulmonary Hypertension (CTEPH) Patients Undergoing Pulmonary Thromboendarterectomy: Observations From the United States CTEPH Registry
- 2:51 Multi-omic Risk Prediction in Pulmonary Arterial Hypertension
- 3:03 Identifying Features Associated With Pulmonary Artery Aneurysm Development and High-Risk Growth in PAH

- 3:15 Demographic, Hemodynamic, Health-related Quality of Life, and Longitudinal Outcomes Differences Between Connective Tissue Disease-associated and Idiopathic PAH (Pulmonary Arterial Hypertension): The Pulmonary Hypertension Association Registry
- 3:27 The Long-term Impact of Birth Weight on Right Ventricular Structure and Function After Preterm Birth
- 3:39 Combining Hyperpolarized ^{129}Xe MR Imaging and Spectroscopy to Estimate Pulmonary Vascular Resistance
- 3:51 Perivascular Radiomic Markers From CT Scans: A Novel Approach for Characterizing Pulmonary Hypertension
- 4:03 Candidate Gene-based and Genome-wide Association Study of Pulmonary Vascular Pruning in Framingham Heart Study

BEHAVIORAL • CLINICAL
MINI SYMPOSIUM
A98 BEST INTERVENTION ABSTRACTS IN PULMONARY REHABILITATION

2:15 p.m. - 4:15 p.m. San Diego Convention Center
Room 30A-B (Upper Level)

Oral Presentations:

- 2:15 Effects of Home-based Pulmonary Rehabilitation on the Symptoms of People With Exacerbations of COPD: A Mixed-methods Randomized Controlled Trial
- 2:27 Increasing Adherence to Early Pulmonary Rehabilitation After COPD-related Hospitalization
- 2:39 Feasibility of a Home-based Cognitive-physical Exercise Program in Patients With Chronic Obstructive Pulmonary Disease: Feasibility and Pilot Randomized Controlled Trial
- 2:51 Virtual Rehabilitation for Individuals With Long COVID: A Randomized Controlled Trial
- 3:03 Outcomes for a Randomized Controlled Trial of Mobile Health (mHealth) Exercise in Idiopathic Pulmonary Fibrosis Are Related to Extent of Hypoxemia During Training Sessions

- 3:15 Effects of Physical Training on Mitochondrial Function in Pulmonary Arterial Hypertension
- 3:27 Effects of Osteopathic Manipulative Treatment Alone or in Combination With Respiratory Training on Chest Wall Expansion, Functional Mobility, and Dyspnea Level in Patients With Pulmonary Arterial Hypertension
- 3:39 The Effect of Helmet Ventilation During Eccentric Cycling Training on Functional Capacity in Chronic Respiratory Disease Patients
- 3:51 Inspiratory Muscle Training for the Management of Dyspnea in Patients With Hypermobile Ehlers-Danlos Syndrome and Generalized Hypermobility Spectrum Disorder: Pilot and Feasibility Randomized Controlled Trial
- 4:03 Clinical and Cost-effectiveness of Space for COPDc Delivered as a Maintenance Programme on Pulmonary Rehabilitation Discharge: A Randomised Controlled Trial

CLINICAL • TRANSLATIONAL
MINI SYMPOSIUM
A99 LOOKING UNDER THE HOOD: DIAGNOSTIC TOOLS TO PHENOTYPE SEVERE ASTHMA

2:15 p.m. - 4:15 p.m. Marriott Marquis San Diego Marina
Pacific Ballroom 24-26 (Ground Floor, North Tower)

Oral Presentations:

- 2:15 Thickening of the Basement Membrane Zone in Asthma Is Associated With Type 2 Inflammation and Increased Bronchomotor Tone
- 2:27 Defining Structure-function Consequences of T2 Inflammation in Asthma by qCT Machine Learning in the Severe Asthma Research Program (SARP3)
- 2:39 Quantification of Small Airways Disease in Severe Asthma Using a Novel, Fast-response Capnometer and Interpretable Machine Learning
- 2:51 Proximal Mucus Plug Formation Is Associated With Downstream Air Trapping in Severe Asthma
- 3:03 Persistence of Mucus Plugging in Severe Asthmatics Treated With Biologics

- 3:15 Transforming Asthma Management: Advancing Towards Precision Care With Spectral and Intra-breath Oscillometry
- 3:27 Are There Pulmonary Vascular Differences in GINA 4 and GINA 5 Asthma Severity?
- 3:39 Magnetic Resonance Imaging Ventilation Phenotypes of Severe Asthma
- 3:51 Quantitative CT and Computational Fluid Dynamics Cluster Analysis Discriminated Three Asthma Phenotypes
- 4:03 Spatial Profiling of Bronchial Airways in Asthma and COPD
- 707 The Role of DUOX1 in the Development of Cigarette Smoke-induced Emphysema and Pulmonary Hypertension
- 708 Mitochondrial Cytochrome C Oxidase Subunit 4 Isoform 2 Regulates T-cell Activation and Hyperinflammation During Virus-induced Exacerbation Following Smoke Exposure
- 709 Alveolar Matrix Metalloproteinases Transcripts Uniquely Contribute to Respiratory Morbidity Among PI*MZ Individuals in the Genomic Research in Alpha-1 Antitrypsin Deficiency and Sarcoidosis Study
- 710 Whole-genome Sequencing Analyses of Imaging Phenotypes of Chronic Obstructive Pulmonary Disease
- 711 A Stop-gain in FUT2 Associates With Several COPD Related Phenotypes and Clinical Outcomes
- 712 Quantitative Computed Tomography Characteristics of Persistent Airflow Obstruction in Asthma Patients in the Severe Asthma Research Program
- 713 Healthcare Resource Utilization and Disease Burden in Chronic Obstructive Pulmonary Disease (COPD) Patients With Type 2 Inflammation in the United States: Real-world Evidence
- 714 Role of Monoclonal Antibodies in Patients With Eosinophilic Subtype COPD: A Meta-analysis of Randomized Controlled Trials
- 715 Inflammatory and Anti-inflammatory Effects of E-cigarette Aerosol Inhalation on Allergic Inflammatory Airways Disease in Mice
- 716 Identification of Protein Biomarkers Associated With Emphysema Progression
- 717 Multiple Event-time Analysis: A New Approach for Event Based Clinical Trials in Obstructive Airway Diseases
- 718 Activator Protein Transcription Factors Regulate Human IL-33 Expression and Splicing From Non-canonical Promoters in Chronic Airway Disease
- 719 Modulating Bronchial Vascular Remodeling in an Experimental Asthma-COPD Overlap Model Through IL-17 Inhibition

BASIC • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

A101 FULL METAL JACKET TARGETING COPD AND CHRONIC AIRWAYS DISEASE

2:15 p.m. - 4:15 p.m. San Diego Convention Center

Room 30C-E (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 701 Fully Automated Mucus Plug Quantification on Chest CTs and Its Correlation With All-cause Mortality
- 702 Cross-sectional Analysis of Automated Mucus Plug Quantification and Airway Wall Thickness in COPD Using AI-based Detection
- 703 Tissue-resident Eosinophils Are Associated With Reduced Lung Function in Chronic Obstructive Pulmonary Disease
- 704 Improvements in Breathlessness, COPD Symptoms and Quality of Life Reported With Ensifentrine in a Pooled Analysis of the ENHANCE Trials
- 705 Tezepelumab in Adults With Moderate to Very Severe Chronic Obstructive Pulmonary Disease (COPD): Efficacy and Safety From the Phase 2a COURSE Study
- 706 Autoantibodies to Collagens Are Associated With Altered Lung Function and Increased Mortality Risk

- 720 Anti-TSLP Treatment Modulates Pulmonary Response in an Experimental Model of Asthma COPD Overlap
- 721 Cell-Free DNA to Predict Severe Exacerbations in Chronic Obstructive Pulmonary Disease
- 722 The Prevalence of Type 2 Airway Inflammation in COPD Based on Bronchoalveolar Lavage Fluid
- 723 On-chip Reconstitution of Hematopoietic Niche for Real-time Leukocyte Mobilization Analysis
- 724 Leveraging Machine Learning and Real-world Data to Predict Chronic Obstructive Pulmonary Disease Exacerbations

BASIC • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

A102 EVALUATING THE INTERSECTION BETWEEN AUTOIMMUNITY, IMMUNODEFICIENCY, AND INTERSTITIAL LUNG DISEASES

2:15 p.m. - 4:15 p.m. San Diego Convention Center

Room 31A-C (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 801 Efizofitimid Is an Immunomodulator of Myeloid Cell Function and Novel Therapeutic Candidate for Interstitial Lung Diseases
- 802 Longitudinal Effects of Localized Radiotherapy on Interstitial Lung Disease: Proof-of-Concept Study in Animal Models
- 803 Biologic Prescribing Patterns in ABPA: Data From a Large Academic Center
- 804 C-reactive Protein as a Biomarker for Systemic Sclerosis-associated Interstitial Lung Disease: Re-envisioning Clinical Trial Enrichment Strategies Based on Evidence
- 805 Tacrolimus in a U.S. Cohort of Myositis Related Interstitial Lung Disease
- 806 Serum Protein Levels of the CXCL9, CXCL10, and CXCL11 Chemokines Reflect Sarcoidosis Disease Severity in the GRADS Cohort

- 807 Enhanced T Cell 'Stem-ness' in Secondary Lymphoid Compartment of Patients With Idiopathic Pulmonary Fibrosis
- 808 A Genome-wide Association Study of Eosinophilic Granulomatosis With Polyangiitis Identifies Two Novel Disease Susceptibility Loci
- 809 Association of Interstitial Lung Disease With a Severe Pulmonary and Immunological Phenotype in Common Variable Immunodeficiency
- 810 Calcaratarin D, A Labdane Diterpenoid, Attenuates Bleomycin-induced Pulmonary Fibrosis by Blocking WNT/beta-catenin Signaling Pathway
- 811 Quantification of Myositis-specific Autoantibodies in Idiopathic Inflammatory Myopathy-associated Interstitial Lung Disease Using the Luciferase Immunoprecipitation System (LIPS): Implications for Disease Severity and Treatment Response
- 812 Dysregulated Host Response Is Seen in Idiopathic Pulmonary Fibrosis and Is Associated With Reduced Transplant-free Survival
- 813 Quantitative Digital Pathology and AI Method Characterize the Histologic Phenotypes of Fibrosis Severity in Bleomycin-Induced Lung Fibrosis Mouse Model
- 814 Vaccination With the BNT162b2 mRNA Vaccine as an Immune Stimulus Highlights Variable Cell Proportion Trends in Sarcoidosis
- 815 Airway Epithelial Responses to Cutibacterium Acnes in Sarcoidosis
- 816 Discovery of the Novel Selective and Orally Bioavailable CXCR7 Modulator for the Treatment of Idiopathic Pulmonary Fibrosis
- 817 Hedgehog Activation Promotes Fibroblast-macrophage Interaction in the IPF Lung
- 818 Inhibition of Protein Disulfide Isomerase A3 and Osteopontin Attenuates Influenza-induced Lung Fibrosis
- 819 Gut Microbiota Induces Pulmonary CD4+ IL-6+ Expression Through PD-1/HIF-1 α Signaling in Mice

BASIC • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

A103 DYSREGULATED PATHWAYS IN SEPSIS AND LUNG INJURY: SEARCHING FOR TREATABLE TRAITS

2:15 p.m. - 4:15 p.m. San Diego Convention Center

Room 1A-B (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 201 Distinct Neutrophil Phenotypes in Sepsis Patients and Associations With Disease Severity, Comorbidities, and Neutrophil Extracellular Traps (NETs)
- 202 A Population of Human Leukocyte Antigen - DR Isotype Expressing Low Density Granulocytes in Critical Illness
- 203 Increased Susceptibility to Pseudomonas Aeruginosa Pneumonia in Overventilated Lungs Is Caused by Airspace Acidification Via NHE1
- 204 CD40 Costimulatory Inhibition Modulates Immune Inflammation in Human Septic Peripheral Blood Mononuclear Cells
- 205 Metabolic Adaptation and Remodeling of the T Cell Compartment in Critical Illness and Severe Sepsis
- 206 Alveolar Th2 Cytokine Upregulation in Patients With Acute Respiratory Distress Syndrome (ARDS) and Non-dependent Consolidation
- 207 Circulating Heparan Sulfate Levels Correlate With Endothelial Dysfunction Biomarkers In Pediatric Acute Respiratory Distress Syndrome
- 208 ABO Modified VWF-ADAMTS13 Axis and STM Are Associated With ARDS Mortality in Critically Ill Patients With Sepsis
- 209 Elevated Circulating Cell-free Hemoglobin Drives Endothelial Glycocalyx Destruction and Inflammation in Sepsis
- 210 Alternative Pathway Complement Activation and Low Circulating Inhibitors Associate With Severity and Mortality in COVID-19 and Non-COVID Sepsis

- 211 A Novel Transcriptomics-based Method for Quantifying Circulating Endothelial Cells for Pathogenesis and Prognosis in Respiratory Failure and Acute Respiratory Distress Syndrome
- 212 Red Cell Aggregation Size and Velocity Predicts the Presence and Rate of Recovery of Renal Failure in the Critically Ill Septic Patient: A Phenomenon of Mechanical Damage to the Microvascular Endothelium
- 213 Extracellular Vesicles From In Vitro Models of Bacterial-induced Acute Lung Injury Induce Endothelial Dysfunction in Naïve Pulmonary Endothelial Cells
- 214 Validation of Estrogen-responsive Tissue Inhibitor of Metalloproteinases-1 as a Sex-specific Biomarker for Acute Lung Injury
- 215 The Melanocortin System Attenuates Inflammation During Sepsis
- 216 Association of Plasma Histone 3.1 With Disease Severity in Pediatric Severe Acute COVID-19 and Multisystem Inflammatory Syndrome in Children
- 217 Admission Plasma Nuclear DNA Concentration Is Associated With ARDS in Critically Ill Patients
- 218 Extracorporeal Membrane Oxygenation for Severe Acute Respiratory Failure Increases Plasma Levels of Citrullinated Histone H3, A Specific Marker of Neutrophil Extracellular Traps
- 219 Genomics and Machine Learning in the ICU: Defining Transcription Factor Activity Endotypes Associated With COVID-19 ARDS Severity
- 220 Supervised Multi-Omics Integration Identifies Differential Biomarkers of COVID Versus Non-COVID Acute Respiratory Distress Syndrome
- 221 Deep Phenotyping of Permeability Edema in COVID-19 Acute Respiratory Distress Syndrome (ARDS)
- 222 Inhalation of Nicotinamide Riboside Improved Metabolomic and Transcriptomic Bioenergetic Signatures in a Murine Sepsis Model
- 223 In-vivo and Ex-vivo Analysis of Tissue S-nitrosothiols in Pediatric Sepsis
- 224 Impact of Extended Lung Protection During Mechanical Ventilation on Lung Recovery in Patients With COVID-19 ARDS: A Phase II Randomized Controlled Trial
- 225 Lung Mechanics May Mediate Pro-fibrotic Signaling in Mechanically Ventilated Patients With ARDS

CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

A104 ADVANCES IN THE DIAGNOSIS AND TREATMENT OF ILD

2:15 p.m. - 4:15 p.m. San Diego Convention Center
Room 33A-C (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 901 Association of Criteria Defining Progressive Pulmonary Fibrosis With Mortality and Disease Progression
- 902 Prevalence and Clinical Significance of Pulmonary Progressive Fibrosis in Myositis-associated Interstitial Lung Disease
- 903 Racial Disparities in Interstitial Lung Disease (ILD): How Race-specific Reference Equations Classify Forced Vital Capacity (FVC) Along the Care Continuum
- 904 How Community Care CT Reports Compare to Thoracic Radiologist Overread in Identifying Radiographic Features of Fibrosis - A Real-world Cohort Study
- 905 Disparities in Baseline Lung Function and Pulse Oximetry Correlation at Interstitial Lung Disease Diagnosis Across Racial and Diagnostic Subgroups
- 906 Racial Differences in Interstitial Lung Abnormalities and Measures of Disease Severity in COPD Gene
- 907 Proteomic Clusters Across the Lung Microenvironment in Idiopathic Pulmonary Fibrosis and Interstitial Pneumonia With Autoimmune Features
- 908 Multi-site, Real-world Study of the Impact of Rituximab on Physiologic Outcomes for Anti-neutrophil Cytoplasmic Antibody Associated Interstitial Lung Disease
- 909 Multi-site, Real-world Study of the Impact of Pre-treatment Quantitative Fibrosis Score on Forced Vital Capacity Response for Patients With Rheumatoid Arthritis Interstitial Lung Disease Treated With Immunosuppression
- 910 Association of Matrix Metalloprotease 12 and Interstitial Lung Disease Diagnosis

- 911 The MUC5B Genotype and Other Common Variants Are Associated With Computational Imaging Features of Usual Interstitial Pneumonia Pattern Among Patients With Idiopathic Pulmonary Fibrosis
- 912 The Use of Volatile Organic Compounds as Prognostic Biomarkers in Idiopathic Pulmonary Fibrosis
- 913 The Potential Lipid Biomarkers 5-HETE for Acute Exacerbations of Idiopathic Pulmonary Fibrosis Identified by Serum Metabolomics
- 914 Using ¹²⁹Xenon MRI to Evaluate the Trajectories of Idiopathic Pulmonary Fibrosis
- 915 A Monocyte-specific Gene-signature Predicts Outcomes in Patients With Idiopathic Pulmonary Fibrosis and Is Reproducible in Peripheral Blood, Bronchoalveolar Lavage, and Lung Tissue
- 916 Clinical Utility of MMP7 as a Prognostic Biomarker in Idiopathic Pulmonary Fibrosis
- 917 Ezetimibe Use and Reduced Mortality in Patients With Idiopathic Pulmonary Fibrosis
- 919 Interaction of Toll-interacting Protein Single Nucleotide Polymorphism and Antimicrobial Treatment in Idiopathic Pulmonary Fibrosis
- 920 Mortality and Incidence of Acute Exacerbations in the Era of Anti-Fibrotic Agents in Idiopathic Pulmonary Fibrosis: Preliminary Results of a Multi-Center, Prospective Cohort Study From the Time of Diagnosis
- 921 Impact of Antigen Exposure on Outcomes and Treatment Response in Fibrotic Hypersensitivity Pneumonitis
- 922 Circulating Prostatin: An Independent Risk Marker in Idiopathic Pulmonary Fibrosis (IPF)
- 923 Lung Involvement in Early Rheumatoid Arthritis, Analysis of the Findra Cohort
- 924 Microscopic Small Airway Abnormalities Identified in Early Idiopathic Pulmonary Fibrosis In Vivo Using Endobronchial Optical Coherence Tomography
- 925 Nalbuphine Extended-release Reduces Cough Bouts in Patients With Idiopathic Pulmonary Fibrosis

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RAPID POSTER DISCUSSION SESSION

A105 RAPID: SICK ON THE JOB - OCCUPATIONAL LUNG DISEASE

2:15 p.m. - 4:15 p.m. San Diego Convention Center
Room 28C-E (Upper Level)

Viewing/Discussion 2:15-3:00

Abstract Summaries 3:00-4:15

- 301 A Novel Metric Measuring Silica Load in Bronchoalveolar Lavage Cells from Victorian Engineered-stone Workers with Silicosis Correlates with a Panel of Inflammatory Markers
- 302 Drillers and Bulldozer Operators Experience Exceptionally High Exposures to Respirable Crystalline Silica in United States Surface Coal Mines
- 303 Trajectory of Preserved Ratio Impaired Spirometry and Mortality Among Silicotic Patients: A Cohort Study
- 304 Impaired Pulmonary Function and Severe Pain Are Associated With Mental Health Disorders Among Former U.S. Coal Miners
- 305 Thin Seams and Small Mines Are Associated With Higher Exposures to Respirable Crystalline Silica in United States Underground Coal Mines
- 306 Resting Diffusion Capacity and Severity of Radiographic Disease Predict Gas Exchange Abnormalities With Exercise in Former U.S. Coal Miners
- 307 Respiratory Symptoms and Lung Function Test Among Cement Industry Workers at Dangote and Muger Cement Industries in Ethiopia
- 308 Characterizing Respiratory Hazards to Firefighters Providing Exterior Support During Overhaul of a Residential Structure Fire
- 309 Effects of World Trade Center Dust and Chronic Intermittent Hypoxia on Transcriptional Modulation of Tissue Repair and Fibrotic Pathways in Alveolar Macrophages

- 310 Azithromycin Protects Against Club Cell Injury-Induced Peribronchiolar Fibrosis in a Murine Model of Deployment-Related Constrictive Bronchiolitis
- 311 Remote Biometric Monitoring to Identify Biometric Footprints in Burn-Pit-Exposed Veterans
- 312 Characterization of Non-deployment-related Military Occupational and Environmental Inhalational Exposures and Their Association With Chronic Respiratory Health Outcomes Among US Veterans
- 313 T-cell Activation Markers in Peripheral Blood Higher in Veterans With Southwest Asia (SWA) Deployment-Related Respiratory Diseases Than in SWA-Deployed Healthy Controls
- 314 The COVID-19 Pandemic and Toxic Inhalation Injuries to Disinfectant and Cleaning Products in Washington State's Workers' Compensation System
- 315 Combined Treatment With HSP90 Inhibitors and HSP70 Inducers Ameliorates HCl-induced Chronic Lung Injury and Pulmonary Fibrosis in New Zealand White Rabbits

BEHAVIORAL • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

A106 PEDIATRIC SLEEP, VENTILATION, AND CRITICAL CARE RESEARCH

2:15 p.m. - 4:15 p.m. San Diego Convention Center
Room 25A-C (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 401 Relationship of Circadian Blood Pressure Dysregulation With Left Ventricular Structure and Function in Children With Obstructive Sleep Apnea
- 402 Short- and Long-term Variabilities of Blood Oxygen Saturation in Extremely Preterm Infants
- 403 Cotinine Correlates With Sleep Parameters in Children Exposed to Environmental Tobacco Smoke
- 404 Pandemic Effect on Obstructive Sleep Apnea Incidence Among Adolescents in a Pediatric Sleep Laboratory

- 405 Positional Therapy for the Treatment of Positional Obstructive Sleep Apnea in Children: A Randomized Controlled Crossover Trial
- 406 A Multi-disciplinary Quality Improvement Initiative to Improve Timely Access to a Pediatric Tertiary Care Sleep Centre
- 407 Endothelial Dysfunction in Obstructive Sleep Apnea in Children and Adolescents
- 408 The Association Between Insomnia and Positive Airway Pressure Adherence in Children
- 409 Sleep in People With Cystic Fibrosis
- 410 Outcomes of Patients With CCHS Ventilated by Diaphragm Pacing
- 411 The Radiographic Assessment of Lung Edema (RALE) Score Is Associated With Impaired Oxygenation and Inflammatory Biomarkers in Pediatric Acute Respiratory Failure
- 412 The Association Between the End-tidal Alveolar Dead Space Fraction and Delirium in Pediatric ARDS
- 413 Tracheal Aspirates of Mechanically Ventilated Preterm Infants Possess Cytopathic Tau Variants
- 414 Managing Chronic Respiratory Failure in Severe Bronchopulmonary Dysplasia (SBPD): Using a Volume-targeted Approach in the Outpatient Setting
- 415 A Quality Improvement Intervention Targeting Reduction of Unplanned Tracheostomy Dislodgement in Hospitalized Children
- 416 Healthcare Utilization and Costs in Children Receiving Home Mechanical Ventilation: A 14-year Cohort Study
- 417 Role of Socioeconomic Impact on Frequency of Emergency Department Visits and Hospital Readmission Rates in Children Discharged on Home Mechanical Ventilation
- 418 Managing Severe Bronchopulmonary Dysplasia With Tracheostomy and Chronic Ventilation Using Volume Assured Pressure Support
- 419 Improving Utilization of Outpatient Tracheostomy and Ventilator Action Plans in the Pediatric Population

- 420 Nocturnal Blood Pressure Alterations in Pediatric Patients With Obstructive Sleep Apnea Measured by 24h Ambulatory Blood Pressure Monitoring

BASIC • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

A107 INFECTIONS IN THE IMMUNOSUPPRESSED AND IMMUNOCOMPROMISED HOST

2:15 p.m. - 4:15 p.m. San Diego Convention Center

Room 11A-B (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 501 Frequency, Duration, and Risk Factors for Diagnostic Delays Associated With Blastomycosis
- 502 Development of a Clinical Risk Score for the Prediction of Pneumocystis Jirovecii Pneumonia in Hospitalised Patients
- 503 Effectiveness of Pulse Methylprednisolone for Pneumocystis Pneumonia in Non-human Immunodeficiency Virus-infected Patients: A Multicenter, Retrospective Registry-based Cohort Study (RE-VISION-PCP)
- 504 Utility of Immunocap® Specific Aspergillus IgG Assay for Diagnosis of Chronic Pulmonary Aspergillosis
- 505 Long Non-coding RNA Taurine Upregulated 1 (TUG1) Regulation of PGC-1 Alpha Expression Results in Altered Mitochondrial Bioenergetics in HIV-1 Infected Macrophages
- 506 Mortality and Lung Allograft Outcomes in Lung Transplant Recipients With COVID-19 Within the First Year Post-Transplant
- 507 Comparative Analysis of Cell Profiles and Diagnostic Yield in Bronchoalveolar Lavage Fluid of Neutropenic and Non-neutropenic Patients
- 508 Effect of Zinc on Mitochondrial Homeostasis in Macrophage Immune Function
- 509 Immunocompromised Hosts Hospitalized With Community-acquired Pneumonia: Estimated Incidence and Mortality in the United States

- 510 Predictors of Restrictive Lung Disease Post-Pneumonia in People Living With and Without HIV in Uganda
- 511 Rapid Metagenomic Sequencing (RaMSes) for Comprehensive Detection of Respiratory Pathogens in Patients With Hematologic Malignancy
- 512 Association of Plasma and Lung Metabolome With Pulmonary Function in Persons With HIV
- 513 Effectiveness of Azvudine and Nirmatrelvir-ritonavir in Kidney Transplant Recipients With COVID-19: A Retrospective Cohort Study
- 514 Determining the Effect of HIV Infection in the Outcomes of Patients With Empyema: NIS Analysis
- 515 Pathogen-level Differences in RALE Score Among Patients With Hematologic Malignancies and Respiratory Viral Infection
- 516 Does Post-acute COVID-19 Sequelae in People Living With HIV Resemble the Functional Phenotype of Individuals Without HIV Who Had Moderate or Severe Acute COVID-19? A Descriptive Analytical Study
- 517 Hospital Presentations and Outcomes of Hematologic Malignancy Patients With Respiratory Viral Infections
- 518 HIV Status Predicts Respiratory Symptoms in a Low Smoking Population
- 519 Prognostic Ability of A-DROP and CURB-65 for Pneumocystis Pneumonia in Non-human Immunodeficiency Virus-infected Immunocompromised Patients: A Multi-center, Retrospective Observational Cohort Study (REVISION-PCP)
- 520 Role of Fungal Colonization in the Development of Chronic Lung Allograft Dysfunction
- 521 Bacterial Colonisation Doubles the Risk of Exacerbation in Subjects with Alpha-1 Antitrypsin Deficiency (AATD)-related COPD
- 522 Use of Home-sampling to Investigate Bacterial Colonisation in Subjects With Alpha-1 Antitrypsin Deficiency (AATD)-related COPD
- 523 Aged Mice Have Reduced Capacity to Clear Influenza A Virus Following Respiratory Infection

- 524 Bacterial Distribution and Antibiotic Resistance in Respiratory System Infections Among the Elderly in China: A 16-year Surveillance Study
- 525 Do Serum Beta-D-Glucan Levels Correspond With Pneumocystis Pneumonia Severity Among Non-HIV Patients?

BASIC • TRANSLATIONAL**POSTER DISCUSSION SESSION****A108 COPD PATHOGENESIS: OPENING THE PANDORA BOX**

2:15 p.m. - 4:15 p.m.

San Diego Convention Center

Room 5A-B (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 601 Mitochondrial Adenine Nucleotide Translocase 2 (ANT2) Increases Alveolar Epithelial Cell Susceptibility to Ferroptosis in COPD
- 602 PABPC4: A Novel COPD Susceptibility Gene That Regulates Mitochondrial Function in Lung Epithelia at the Post-transcriptional Level
- 603 Effects of JUUL Menthol-induced Mucociliary Dysfunction in Normal Airway Epithelial Cells
- 604 GETomics Based RNA-seq Revealed HIF3A Inhibits Epithelial Cell Ferroptosis in COPD
- 605 Elucidation of Interacting Factors Between COPD and Lung Cancer
- 606 Mechanisms of Airway Injury and Repair Following Tobacco and Wildfire (PM_{2.5}) Exposure
- 607 Low Levels of MUTYH Is a Risk Factor for COPD Development by Increasing Frequency of DNA Damage
- 608 Sphingolipid Regulation of mTOR-TFEB Signaling Pathway in Lung Microvascular Endothelial Cells Exposed to Cigarette Smoke
- 609 Cytoskeletal Gelsolin Is Dysregulated in Chronic Obstructive Pulmonary Disease
- 610 Siglec-f Exerts Protective Effects On Elastase-induced Emphysema In Mice

- 611 Effects of Electronic Cigarettes on Airway Epithelium: A Novel Exposure System and In-Vitro Model
- 612 Cigarette Smoke-induced Ion Channel and Mucociliary Dysfunction in COPD Airway Epithelial Cells In Vitro: Rescue by Nesolicaftor/Telmisartan
- 613 Characterization of Transient Mucosal Immunity Driven Terminal Bronchioles Thickening in Early Emphysematous Lung
- 614 Sex-dependent Impact of E-cigarette Aerosol Exposure on the Murine Lung
- 615 Transcriptomic Analysis Reveals Distinct Effect of Cigarette Smoke on Lung and Systemic Macrophage Populations
- 616 Effects of Heated Tobacco Product IQOS Exposure on Ceramide Levels and Apoptosis in Lungs
- 617 GZMK-expressing Immune Cells in Chronic Obstructive Pulmonary Disease
- 618 Plasma Proteomics Reveals Biological Pathways Associated With Probable Cognitive Impairment in the COPD Gene Cohort
- 619 Multi-omic Studies of Lower Airway Epithelium in Spiromics Reveals COPD-associated Methylation Sites and Co-methylation Networks Enriched for Lung Function GWAS Loci and Linked to Microbiota
- 620 Sex-specific Differences in COPD Presentation Are Associated With Sphingolipids Metabolism
- 621 Involvement of Heat Shock Protein HSP70 and Ceramide Generator nSmase2 in IL-33 Driven Airway Disease
- 622 miRNA Network Modeling Identifies a Potential Role for PAX5 in COPD
- 623 Lipid-signaling as a Potential New Therapeutic Target in Chronic Obstructive Pulmonary Disease
- 624 Mitochondrial Cytochrome C Oxidase Subunit 4 Isoform 2 Promotes Murine Smoke-induced Pulmonary Inflammation and Emphysema - Therapeutic Potential of ROS Inhibition

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RAPID POSTER DISCUSSION SESSION

A109 I JUST CAN'T GET ENOUGH: DEFECTS IN VENTILATION AND GAS EXCHANGE

2:15 p.m. - 4:15 p.m. Marriott Marquis San Diego Marina

Pacific Ballroom 15-17 (Ground Floor, North Tower)

Viewing/Discussion 2:15-3:00

Abstract Summaries 3:00-4:15

- 101 Pulmonary Mechanics Before Discharge Among Infants With and Without Lung Disease
- 102 Association Between Body Mass Index and Dual Energy Computed Tomographic Assessment of Ventilation and Perfusion (V/Q) in the Community: The Multi-Ethnic Study of Atherosclerosis Lung Study
- 103 Characterization of Pulmonary and Chest Wall Mechanics in Mechanically Ventilated Patients With Hypoxemic Respiratory Failure Across Racial and Ethnic Groups
- 104 Nocturnal Oxygen Saturation and Cognitive Outcomes in Individuals Permanently Residing at High Altitude
- 105 Association of P50 With Physiologic Variables and Outcomes in Critically Ill Patients
- 106 Pulmonary Gas-exchange Abnormalities Prior to Hematopoietic Stem-cell Transplantation Detected With Xenon MRI: Preliminary Results From the Transpire Study
- 107 Using AI-Techniques to Develop First Software for Continuous Assessment of Dyspnea and Ventilation During Incremental Cardiopulmonary Exercise Testing (DyVe-X)
- 108 A Quantitative Computed Tomography Assessment of Multi-frequency Ventilation in a Porcine Model of Acute Respiratory Distress Syndrome
- 109 Experimentally Induced Mild Flow Limited Dyssynchrony Protects the Injured Lung From Ventilator-Induced Lung Injury
- 110 Prone Positioning May Reduce Pendelluft in Patients With Moderate to Severe Acute Respiratory Distress Syndrome: A Physiological Study

- 111 Childhood Obesity Does Not Affect Homogeneity of Lung Ventilation as Measured by Lung Clearance Index (LCI) Regardless of Asthma Status
- 112 Ventilation Patterns in Sarcoidosis With Bilateral Lung Involvement: A Comparative Analysis Using X-ray Velocimetry
- 113 Ventilation Heterogeneity Among Adults With Asthma

BEHAVIORAL • CLINICAL • TRANSLATIONAL**POSTER DISCUSSION SESSION****A110 NEW FRONTIERS IN SLEEP APNEA DIAGNOSIS AND THERAPIES**

2:15 p.m. - 4:15 p.m. San Diego Convention Center

Room 6E (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 1001 Oral Appliance Therapy Alters Key OSA Endotypes to a Similar Extent in Responders and Non-responders to Therapy and Independent of Body Mass Index
- 1002 An Investigation on the Effects of Pharyngeal Surgery on Upper Airway Physiology in Obstructive Sleep Apnea
- 1003 A Novel Hypoglossal Nerve Stimulation Approach Restores Upper Airway Function and Airflow to Therapeutic CPAP Levels in People With Obstructive Sleep Apnea
- 1004 Mechanistic Characteristics of Treatment Satisfaction With Oral Appliance Therapy for Obstructive Sleep Apnea
- 1005 Variability of Burden of Central Events in Sleep Disordered Breathing Quantified Using Automated Breath-by-Breath Probability of Obstruction
- 1006 Diagnostic Utility of Home Sleep Tests Versus Polysomnography for Sleep Disordered Breathing in Patients Who Use Opioids
- 1007 The San Diego Multi-Outcome OSA Endophenotype (SNOO•e) Cohort: Inter-rater Agreement for Key Datapoints
- 1008 Receipt of Weight Loss Services in Veterans With OSA and Obesity
- 1009 Assessment of Obstructive Sleep Apnea Screening in Highrisk Ambulatory Patients
- 1010 Pulse Wave Amplitude Drops Characteristics During Sleep in Acute Coronary Syndrome Patients With Obstructive Sleep Apnea
- 1011 Characteristics and Factors Associated With Sleep Disturbance in Long COVID Patients
- 1012 Going From Endotypical Traits to Actual Endotypes Using a Latent Profile Analysis
- 1013 Identifying Obstructive Sleep Apnea Phenotypes From Polysomnography Report Data in Children Using Cluster Analysis
- 1014 Apneic Threshold During NREM Sleep Is Increased in Opioid Associated Sleep Disordered Breathing
- 1015 Endotypic Trait Differences in Obese Patients With and Without Obstructive Sleep Apnea
- 1016 Estimation of Upper Airway Collapsibility and Arousal Threshold in OSA Patients Using Pulse Oximetry
- 1017 Using Obstructive Sleep Apnea Pathophysiology to Predict Supplemental Oxygen Therapy Response in Older Adults
- 1018 Sex-specific Differences in Obstructive Sleep Apnea-associated Overnight Oxidative Stress
- 1019 Overnight Oxygen Treatment Is Associated With Improved Endothelial Function in Older Adults With Obstructive Sleep Apnea
- 1020 Seasonal and Weekly Variability in OSA Severity
- 1021 Estimation of Breath-by-Breath Ventilation Using Tracheal Breathing Sounds
- 1022 The Relationship Between Social Vulnerability and Obstructive Sleep Apnea Severity at Presentation to a Tertiary Sleep Centre
- 1023 Effect of Tirzepatide on Weight Reduction in People With Obstructive Sleep Apnea and Obesity: A Post Hoc Analysis of the SURMOUNT Trials



ATS 2024
International
Conference

ATS 2024 San Diego, CA

Monday 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

11:30 a.m. - 12:30 p.m.

- MTE13 SMALL AIRWAYS DISEASE: WHEN IT'S NOT ASTHMA**
Santa Rosa (Level 1, South Tower)
- MTE14 NON-PHARMACOLOGICAL MANAGEMENT OF PATIENTS AFTER HOSPITALIZATION WITH AN EXACERBATION OF COPD**
Cardiff (Level 3, South Tower)
- MTE15 FROM EMINENCE TO EVIDENCE-BASED PRACTICE: THE INTERVENTIONAL PULMONOLOGY OUTCOMES GROUP**
Missions Hills (Level 3, South Tower)
- MTE16 ALVEOLAR ORGANOIDS - BEST PRACTICES**
Carlsbad (Level 3, South Tower)
- MTE17 COMPLEX IN VITRO MODELS OF THE LUNG: BRIDGING THE GAP BETWEEN COMPLEX LUNG PATHOBIOLOGY AND THERAPEUTICS**
Balboa (Level 3, South Tower)
- MTE18 COMPLICATED SARCOIDOSIS MANAGEMENT: MIMICS AND DISEASE PROGRESSION**
Pacific Ballroom 14 (Ground Floor, North Tower)

- MTE19 PEDIATRIC PULMONARY CHRONIC GRAFT VERSUS HOST DISEASE: ADVANCES IN DIAGNOSIS AND MONITORING**
Del Mar (Level 3, South Tower)
- MTE20 RECRUITING AND RETAINING DIVERSE TRAINEES AND FACULTY - TIPS TO GET IT DONE**
Solana (Level 1, South Tower)
- MTE21 REMOTE RESCUE : CASE- BASED TROUBLESHOOTING FOR PEDIATRIC VENTILATION DATA DOWNLOADS**
Leucadia (Level 1, South Tower)
- MTE22 RISK STRATIFICATION SIMPLIFIED IN PAH MANAGEMENT!**
Miramar (Level 3, South Tower)
- MTE23 BRIDGING THE NETWORKING GAP FOR WOMEN FACULTY USING THE SCIENCE OF NETWORKING**
Point Loma (Level 1, South Tower)
- MTE24 LUNG NODULE: TRANSBRONCHIAL BIOPSY, ARE WE CLOSE TO 100% DIAGNOSTIC YIELD?**
Palomar (Level 3, South Tower)

K2: KEYNOTE SERIES

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

San Diego Convention Center
Ballroom 20B-D (Upper Level)

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 2023 conference and are unopposed by any other programming.

YEAR IN REVIEW

B1 CLINICAL YEAR IN REVIEW 1

9:15 A.M. - 10:45 A.M. San Diego Convention Center
Ballroom 20B-D (Upper Level)

Target Audience

Pulmonary, critical care and sleep providers.

Objectives

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

- apply new clinical research knowledge to clinical practice
- apply new findings about key conditions in pulmonary, critical care and sleep
- learn new strategies to manage the care of common conditions in pulmonary, critical care, and sleep

The program will discuss general topics of interest to a broad group of providers, inside and outside of these subspecialties. The program is relevant to not only clinicians, but also to researchers and administrators.

9:15 COPD
9:37 Critical Care
9:59 Global Lung Health
10:23 Tuberculosis

BASIC • CLINICAL • TRANSLATIONAL

CLINICAL TOPICS IN PULMONARY MEDICINE

B2 BRING YOUR BEST BIOMARKER: MOLECULAR SUCCESS STORIES IN CHRONIC LUNG DISEASE

Assemblies on Clinical Problems; Allergy, Immunology and Inflammation

9:15 a.m. - 10:45 a.m. Marriott Marquis San Diego Marina
Grand Ballroom 5-6 (Lobby Level, North Tower)

Target Audience

Providers of lung health including pulmonologists, nurses and allied health practitioners; those serving ILD, bronchiectasis and COPD patient groups; those with interest in the study and clinical application of biomarker in lung disease

Objectives

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

- develop a comprehensive understanding of biomarkers development. Learners will be better able to understand the methods and barriers for biomarker development, validation, and implementation into clinical practice
- promote and seek interdisciplinary and cross-subspecialty collaboration. By the end of the session, learners will have an understanding of the importance of collaborative discovery in biomarker research to enhance patient care
- understand the performance and utility of disease-specific biomarkers in chronic respiratory disease. At the end of this session, learners will understand the role of biomarkers to improve patient outcomes

Biomarker development is an arduous process, with few molecular findings translated into clinical practice. Once a biomarker with potential clinical relevance is identified, multiple critical steps are required to move the biomarker from discovery to deliverable. Nearly all biomarker research is performed in single pulmonary conditions. As chronic lung disease remains a leading cause of death worldwide, it is imperative that we collectively capitalize on successful biomarker development and learn from biomarker failures. This scientific symposium will discuss what constitutes a clinically relevant biomarker, necessary steps for developing clinically relevant biomarkers and highlight biomarker successes in COPD, ILD and bronchiectasis.

9:15 Introduction to Session: What Is a Clinically Relevant Biomarker?

9:25 Discussion

9:30 The Hunt for COPD's Best Biomarker

9:45 Discussion

9:50 Pushing the Paradigm Towards Precision: ILD's Best Biomarkers

10:05 Discussion

10:10 Probing the Inflammatory Milieu: Biomarkers for Bronchiectasis

10:25 Discussion

10:30 Best Bronchoscopic Biomarkers: It Will All Come Out in the Wash

10:40 Discussion

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 Criteria of the Accreditation Council for Continuing Medical Education (ACCME®) and are free of the control of ineligible companies (formerly commercial interests).

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CLINICAL TOPICS IN PULMONARY MEDICINE

B3 SPECIAL CONSIDERATIONS FOR PATIENTS WHO ARE TRANSGENDER OR NonBINARY IN PULMONARY MEDICINE

Assemblies on Clinical Problems; Behavioral and Health Services Research; Clinical Problems; Pediatrics

9:15 a.m. - 10:45 a.m. San Diego Convention Center

Room 7A-B (Upper Level)

Target Audience

Pediatric and adult providers of pulmonary medicine, clinicians who provide care to transgender and non-binary patients, clinical and translational researchers.

Objectives

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

- gain awareness of current gender minority health inequities in complex lung diseases, improve cultural humility for gender minorities, and implications of gender-affirming care on pulmonary disease to improve quality of life for gender minorities
- identify knowledge gaps in clinical and translational research and demonstrate the importance of representing gender identity in pulmonary research in order to improve health outcomes of transgender and non-binary individuals
- understand the impact of sex hormones on lung physiology and complex lung diseases such as cystic fibrosis, and asthma, and the potential impact of gender-affirming therapy on people with complex lung disease

Transgender and non-binary individuals experience pervasive healthcare disparities and disproportionate exposure to risk factors of pulmonary disease. Much of clinical research utilizes sex as a variable but does not consider the role of gender or gender-affirming therapies such as chest binding, surgical intervention, or hormone therapy. This symposium will highlight healthcare disparities in the transgender and Non-binary population, educate clinicians on the impact of sex and gender on pulmonary disease, and review the impact of sex hormones on pulmonary disease such as asthma and cystic fibrosis.

9:15 Health Inequities and Pulmonary Considerations for People Who Are Transgender or Non-Binary

9:34 Interpretation of Pulmonary Function Testing in People Who are Transgender or Non-Binary

9:53 Sex Hormones and Asthma

10:12 Potential Impact of Gender Affirming Therapy on People with Cystic Fibrosis

10:31 General Discussion

10:40 Patient Speaker

CLINICAL

CRITICAL CARE TRACK

B4 EXTRACORPOREAL MEMBRANE OXYGENATION (ECMO) FOR SEVERE ACUTE RESPIRATORY DISTRESS SYNDROME IN A POST-PANDEMIC WORLD

Assembly on Critical Care

9:15 a.m. - 10:45 a.m. Marriott Marquis San Diego Marina

Grand Ballroom 2-4 (Lobby Level, North Tower)

Target Audience

All practicing healthcare providers, all levels

Objectives

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

- review the current state of evidence regarding the use of VV-ECMO for ARDS and best practices for management, so that attendees can apply these concepts in patient care and research in the future
- describe ongoing research in VV-ECMO and ARDS to demonstrate ongoing areas of uncertainty and identify future applications within critical care
- identify factors that contribute to inequity and disparities in the use of VV-ECMO for ARDS and be cognizant of strategies for mitigation to provide equitable care

The use of veno-venous (VV) extracorporeal membrane oxygenation (ECMO) as therapy for severe acute respiratory distress syndrome (ARDS) has increased exponentially due to advances in technology, prior respiratory pandemics, and emerging high-quality evidence. The recently released 2023 ARDS Practice Guidelines strongly recommend in favor of ECMO for the treatment of severe ARDS. The COVID pandemic shed light on the clinical, logistical, and ethical challenges faced when offering VV-ECMO during a time of healthcare strain. Clinical

availability remains uneven, and treatment disparities are common. This symposium will foster discussion on how to enhance collaboration, promote best practices, and improve the availability and equitable allocation of ECMO going forward, as we prepare for the next pandemic.

- 9:15 Introduction**
- 9:20 State of the in Venovenous ECMO**
- 9:35 Innovations on the Horizon: Future Trends in ECMO for Respiratory Failure**
- 9:50 The Equitable Use of Extracorporeal Life Support in Respiratory Pandemics and Beyond**
- 10:05 Who Knows Best? Controversies & Best Practices in Lung Protection**
- 10:20 Preparing for the Next Pandemic: Building a System that Works for All**
- 10:35 Roundtable Panel Discussion**

BASIC • CLINICAL • TRANSLATIONAL
BASIC CORE

B5 ROBERT SENIOR MEMORIAL SYMPOSIUM - COPD AS AN ENDOTHELIAL DISORDER: ENDOTHELIAL INJURY LINKING LESIONS IN THE LUNGS AND OTHER ORGANS

Assemblies on Respiratory Cell and Molecular Biology; Clinical Problems; Pulmonary Circulation; Respiratory Structure and Function

9:15 a.m. - 10:45 a.m. San Diego Convention Center
 Room 6A (Upper Level)

Target Audience

Basic and translational scientists and clinicians involved in COPD research and/or management

Objectives

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

- to learn the cellular and molecular mechanisms of endothelial dysfunction in COPD
- to understand the relationship between endothelial dysfunction and systemic inflammation in COPD

- to learn about the latest therapeutic interventions targeting the endothelium in COPD

COPD patients develop varying degrees of emphysema, small and large airway disease, and various co-morbidities. It has not been clear whether these co-morbidities share common underlying pathogenic processes with the pulmonary lesions. Recently, cigarette smoke-induced endothelial injury has been linked to pulmonary lesions in COPD and systemic co-morbidities. Herein, we review the evidence linking endothelial injury to COPD, and the pathways underlying endothelial injury and the “vascular COPD phenotype.”

- 9:15 When Not All Is Lost: Reversal of Emphysema by Restoration of Pulmonary Endothelial Cells**
- 9:30 Endothelial Injury Linking Lesions in the Lungs and Other Organs in COPD**
- 9:45 Capillary Endothelial Cells: The Fuse or the Fuel of Persistent Alveolar Inflammation in Advanced COPD?**
- 10:00 The Unusual Suspect: Lymphatic Vessels in COPD**
- 10:15 Vascular Pruning in COPD: A Hard Nut to Crack**
- 10:30 Targeting the Endothelium in COPD: Insights from Clinical Trials**

CLINICAL
SCIENTIFIC SYMPOSIUM

B6 INTEGRATING EVIDENCE FROM RANDOMIZED TRIALS AND OBSERVATIONAL COHORTS IN SLEEP DISORDERED BREATHING

Assemblies on Sleep and Respiratory Neurobiology

9:15 a.m. - 10:45 a.m. Marriott Marquis San Diego Marina
 Pacific Ballroom 18-19 (Ground Floor, North Tower)

Target Audience

This symposium is aimed at clinicians, researchers, and clinicians who are interested in understanding the evidence-base underlying therapies for sleep-disordered breathing

Objectives

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

- review existing methods for approaching causal inference
- review clinical evidence for SDB treatment's impact on cardiovascular disease both from experimental and observational data

- contrast the strengths and limitations of observational and experimental evidence for SDB treatment's impact on cardiovascular disease, including generalizability and sample diversity

Randomized clinical trials (RCTs) have been the primary approach to causal inference in medicine. However, RCTs often include highly selected populations, limiting generalizability. Newer observational methodologies offer alternatives to analyze the efficacy of treatments using representative cohorts. However, these observational approaches can be limited by biases including the healthy adherer effect. Recently, RCTs and observational studies have had disparate findings around the efficacy of treatments for sleep-disorder breathing (SDB) on cardiovascular outcomes. These discrepancies will be debated during this session, examining the strengths and pitfalls from both sides. Finally, panelists will discuss the insights of these studies for future research.

9:15 Patient Speaker

9:20 Tools and Keys to Examining Causal Inference

9:31 “Does OSA Treatment Provide Cardiovascular Benefit?” Answers from RCTs

9:42 “Does OSA Treatment Provide Cardiovascular Benefit?” Answers from Real Life Data

9:53 “Should We Treat Central Sleep Apnea in Chronic Heart Failure Patients?” Answers from RCTs

10:04 “Should We Treat Central Sleep Apnea in Patients with Chronic Heart Failure ?” Answers from Real Life Data

10:15 Panel Discussion: “How Do We Derive Valid Inferences That Represent Our Large and Diverse Population?”

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SCIENTIFIC SYMPOSIUM

B7 PATHOGENIC CONCEPTS IN PAH REVISITED? A MULTIGENERATIONAL PERSPECTIVE

Assembly on Pulmonary Circulation

9:15 a.m. - 10:45 a.m. Marriott Marquis San Diego Marina

Pacific Ballroom 21-22 (Ground Floor, North Tower)

Target Audience

Physician-scientists conducting basic, translational and clinical

research in pulmonary vascular biology as well as clinicians treating patients with pulmonary hypertension.

Objectives

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

- apply a broad understanding of newer unbiased analytic approaches to research ideas, even within the context of traditional hypothesis-driven research, and understand how to best leverage each frame in order to further discovery
- describe new multi-omics findings in PH, including the discovery of emergent endophenotypes, and understand their relevance in the context of known, classical pathobiologic pathways and traditional disease classification frameworks
- describe new 2022 ESC/ERS guidelines regarding modern imaging methods (e.g. use of CMR, TAPSE/PASP) and understand how precision imaging augments our understanding of disease pathobiology and may aid in predicting patient outcomes

This session will pair senior investigators with junior investigators in the field of vascular biology, pulmonary hypertension and right heart failure in a pro/con debate of the research directions, disease paradigms, and treatment approaches over the past 40 years. The ideas covered will span basic, translational, and clinical topics.

9:15 Unbiased Approaches to Multi-Omic Datasets Can Unravel PAH Pathobiology

9:27 A Priori Hypothesis Generation and Reductionist Biology Decipher Mechanisms

9:39 Discussion

9:45 PAH Endo-Phenotypes and Tailored Treatments: One Drug for One Patient

9:57 Don't Mistake the Forest for the Trees: One Drug for All

10:09 Discussion

10:15 Novel Imaging Approaches for Understanding Disease Pathogenesis and Predicting Clinical Outcomes

10:27 Tried and True: Simplicity is the Ultimate Sophistication Amidst Complexity

10:39 Discussion

This session and the International Conference are supported by independent medical educational grants from Johnson & Johnson and 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

B8 SEVERE CHILDHOOD ASTHMA: NEW PERSPECTIVES ON PHENOTYPES, MANAGEMENT, AND DISEASE REMISSION

Assemblies on Pediatrics; Allergy, Immunology and Inflammation

9:15 a.m. - 10:45 a.m. Marriott Marquis San Diego Marina
Grand Ballroom 8-9 (Lobby Level, North Tower)

Target Audience

This session will appeal to pediatric pulmonologists, pediatric allergists, fellows in training, advanced health care providers, and nurses who care for children with severe asthma, as well as scientists conducting research in this field.

Objectives

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

- learn new evidence on how to phenotype and select the best biologic and non-biologic therapy for children with severe asthma
- discuss how low lung function should be monitored and managed in children with severe asthma
- review the definition of disease remission and if remission is possible in children with severe asthma

Children with severe asthma account for up to 50% of pediatric asthma costs. In this scientific symposium, a panel of experts in the field will review emerging evidence on the pathogenesis, evaluation, and phenotyping of severe asthma in the pediatric population. In addition, they will discuss recent studies on biologic and non-biologic therapies approved for the management of severe asthma in children and how these therapies could modify the natural history of the disease, potentially leading to its remission.

9:15 Patient Speaker**9:20 Management of Children with Severe Asthma Before Starting a Biologic****9:37 Breaking Down the Current Evidence on How to Select a Biologic for the Management of Severe Childhood Asthma****9:54 Low Lung Function in Severe Childhood Asthma: Determinants, Progression, and Management**

10:11 Severe Asthma Phenotypes in the Pediatric Population: More Than Just Eosinophils, IgE, and FeNO

10:28 What Is Disease Remission and Is it Achievable for Children with Severe Asthma?

CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

B9 50 YEARS OF DYSPANAPSIS: WHAT WE HAVE LEARNED AND WHERE WE ARE GOING

Assemblies on Respiratory Structure and Function; Environmental, Occupational and Population Health; Pediatrics

9:15 a.m. - 10:45 a.m. San Diego Convention Center
Room 29A-D (Upper Level)

Target Audience

Clinical and research trainees and providers

Objectives

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

- understand the concept of dysanapsis and its contribution to chronic obstructive lung disease risk
- describe the early-life origins of dysanapsis and the potential opportunities to promote resilient lung development for lifelong lung health
- appreciate the advantages and limitations of current methods to assess dysanapsis and the need to develop better techniques

The term "dysanapsis" was introduced in 1974 to describe a hypothesis that disproportionate airway tree growth may be relevant to obstructive lung physiology and disease risk. Over the past 50 years, this prescient hypothesis has been confirmed using state-of-the-art measures and its clinical relevance across the lifespan has been demonstrated in multiple large cohorts. Attendees of this scientific symposium will gain a historical and contemporary understanding of the genetic and environmental origins of dysanapsis and its expanding relevance to lung health in the 21st century.

9:15 The Past 50 Years: A Brief History of Dysanapsis**9:30 Dysanapsis in Early Life: Origins, Trajectories and Clinical Relevance**

- 9:45 **Dysanapsis in Later Life: Clinical Outcomes and Host Environment Interactions**
- 10:00 **Defining Dysanapsis: Spirometry and Beyond**
- 10:15 **Omic Insights into the Origins of Dysanapsis**
- 10:30 **The Next 50 Years: Summary and Panel Discussion**

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

B10 NON-ANTIBIOTIC THERAPY FOR PNEUMONIA

Assemblies on Pulmonary Infections and Tuberculosis; Clinical Problems; Nursing; Pediatrics

9:15 a.m. - 10:45 a.m. San Diego Convention Center

Room 6B (Upper Level)

Target Audience

Scientists, clinicians (pulmonology, Infectious Disease, pediatrics, Geriatricians), public health/global health practitioners, and trainees interested in respiratory infections.

Objectives

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

- understand the potential of non-antibiotic therapies in the management of pneumonia and their role in combating antibiotic resistance
- explore the mechanisms of action and efficacy of specific non-antibiotic treatments, such as cytokine therapy, steroid therapy, and bacteriophage therapy, in the context of pneumonia
- discuss the challenges and opportunities associated with the implementation of non-antibiotic therapies in clinical practice, including considerations of safety, patient selection, and optimizing treatment outcomes

Our symposium is designed to boost awareness and comprehension of non-antibiotic pneumonia treatments among healthcare professionals, researchers, and the public. We aim to spark collaboration across various fields, promoting evidence-based practice, sharing recent research, and circulating clinical guidelines. As we drive advancements and novel approaches, we're fostering innovation and improving patient outcomes. By focusing on non-antibiotic treatments, we aim to enhance personalized interventions, thus maximizing efficacy and minimizing side effects.

- 9:15 **Beyond Antibiotics: Unleashing the Power of Non-Antibiotic Therapies in Pneumonia Management**
- 9:25 **Harnessing the Potential of Cytokine Therapy in Pneumonia Management**
- 9:40 **Beyond Inflammation: Unveiling the Potential of Steroid Therapy in Pneumonia Management**
- 9:55 **Phage Power: Harnessing Bacteriophages for Pneumonia Treatment and Prevention**
- 10:05 **Monoclonal Antibody-Based Therapies for Bacterial Infections**
- 10:20 **Breaking the Barrier: Conquering Pathogenic Biofilms in Pneumonia**
- 10:30 **Unlocking the Potential of Therapies in Mitigating Long-Term Mortality and Cardiovascular Events Following Pneumonia**

CLINICAL • TRANSLATIONAL

PRESIDENT SYMPOSIUM

B11 PRESIDENT'S SYMPOSIUM PASSION, PERSEVERANCE, AND QUANTUM LEAPS: CELEBRATING ADVANCES IN LUNG CANCER

9:15 a.m. - 10:45 a.m. San Diego Convention Center

Room 6C-F (Upper Level)

Target Audience:

All attendees interested in lung cancer

Objectives

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

- apply the recommendations of USPSTF for lung cancer screening and understand their limitations, risks, and benefits.
- learn about the scientific basis for and new discoveries in lung cancer biomarkers and their implications for current and future applications.
- improve the care of patients with lung cancer through enhanced knowledge of scientific and clinical advances in the field and their current and future applications.

9:35 Introduction

9:50 From Chest X-ray to Chest CT: 50 Years of Lung Cancer Screening Development - Ramp it Up!

- 10:05** **The Odyssey of Lung Cancer Chemoprevention: It Came, It Went, and It Just May Come Back Again**
- 10:25** **We Can Cut Out More or Less; We Can Operate First or Last: The Flexibility of Thoracic Surgery in 2024**
- 10:35** **Summary: Lung Cancer Beyond 2024**

BEHAVIORAL • CLINICAL

SCIENTIFIC SYMPOSIUM

B12 QUITTING IS WINNING: TOBACCO AND E-CIGARETTE CESSATION

Assemblies on Behavioral and Health Services Research; Environmental, Occupational and Population Health; Nursing; Pediatrics; Thoracic Oncology; Pediatric Advocacy Subcommittee; Tobacco Action Committee

9:15 a.m. - 10:45 a.m. San Diego Convention Center
 Room 2 (Upper Level)

Target Audience

Clinicians, trainees and multidisciplinary allied health personnel

Objectives

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

- describe the differences between various types of tobacco, nicotine, and vaping products and how this affects risk and nicotine dependence
- appropriately evaluate and treat patients of all ages with nicotine dependence, utilizing both behavioral and pharmacologic interventions based on new guideline recommendations and best practices
- improve the quality of care provided to those with nicotine dependence by understanding how to develop inpatient and outpatient treatment services

The primary goal of this session is to provide a high-yield, evidence-based update on nicotine and e-cigarette use with a focus on screening and interventions. This session will cover the assessment and treatment of nicotine dependence, e-cigarette and vaping associated lung injury (EVALI) and its aftereffects, and the new and evolving area of cannabinoid vaping. The course will also include an up-to-date overview of current priorities of the FDA's Center for Tobacco Products (CTP). Course faculty are multidisciplinary clinical, research, and advocacy experts. The session will cover the approach to both adolescent and adult patients, and will share evidence-based

approaches to screening and cessation that can be both applied broadly and individualized in diverse clinical settings.

- 9:15** **Opening Remarks**
- 9:20** **Pharmacologic Treatment of Nicotine Dependence**
- 9:40** **Aftereffects of Vaping: An Adolescent Treatment Approach**
- 10:00** **Current Tobacco Policy and Regulation Updates**
- 10:20** **What's Next After E-Cigarettes?: Cannabinoids, Including Dual Use**
- 10:40** **Closing Remarks**

BEHAVIORAL • CLINICAL

SCIENTIFIC SYMPOSIUM

B13 BREAKING NEWS: CLINICAL TRIAL RESULTS IN PULMONARY MEDICINE

9:15 a.m - 11:15 a.m. San Diego Convention Center
 Ballroom 20A (Upper Level)

- 9:15** **Welcome and Introduction**
- 9:25** **A Randomized, Double-blind Trial of Amikacin Liposome Inhalation Suspension in Adults With Newly Diagnosed or Recurrent Mycobacterium Avium Complex Lung Disease to Validate Patient-reported Outcome Instruments and Assess Microbiological Outcomes of Treatment: The ARISE Study**
- 9:40** **Questions and Answers**
- 9:50** **Tezepelumab in Adults With Moderate to Very Severe Chronic Obstructive Pulmonary Disease (COPD): Efficacy and Safety From the Phase 2a COURSE Study**
- 10:05** **Questions and Answers**
- 10:15** **Efficacy and Safety of Dupilumab in Patients With Moderate-to-Severe COPD and Type 2 Inflammation: Phase 3 NOTUS Trial**
- 10:30** **Questions and Answers**
- 10:40** **TBD**
- 10:55** **Questions and Answers**
- 11:05** **Wrap-Up**

BASIC • CLINICAL • TRANSLATIONAL

LATE BREAKING MINI SYMPOSIUM

**B14 LATE BREAKING ABSTRACTS:
SCIENCE THAT WILL IMPACT
CLINICAL CARE**9:15 a.m. - 11:15 a.m. Marriott Marquis San Diego Marina

Grand Ballroom 11-13 (Lobby Level, North Tower)

Oral Presentations:

- 9:15 Early Detection and Treatment of Undiagnosed Asthma and COPD: A Randomized Controlled Trial
- 9:27 Efficacy, Safety, and Tolerability of Three Doses of Sulthiame in Patients With Obstructive Sleep Apnea. A Randomized, Double-blind, Placebo Controlled, Dose-ranging Study (STM-042/K)
- 9:39 Pirfenidone Ameliorates Peribronchiolar Fibrosis in a Murine Model of Deployment-Related Constrictive Bronchiolitis
- 9:51 Effect of Dupilumab on Airway Oscillometry, Ventilation/Perfusion, and Mucus Plugging in Moderate-to-Severe Asthma: The Vestige Trial
- 10:03 M. Xenopi Pulmonary Infection: A Randomized Clinical Trial Comparing Rifampin + Ethambutol + Either Clarithromycin or Moxifloxacin: The Camomy Study
- 10:15 Efficacy and Safety of Dupilumab in Patients With Moderate-to-Severe COPD and Type 2 Inflammation: Phase 3 NOTUS Trial
- 10:27 Ensifentrine Reduces Exacerbation Frequency and Delays Progression From Gold B to Gold E
- 10:39 RSVpreF Vaccine Elicits a Robust and Durable Immune Response Among Adults Aged 60 Years and Older Across an Entire RSV Season
- 10:51 Pulmonary Arterial Hypertension Improvement With Nutrition and Exercise (PHINE): A Randomized Controlled Trial
- 11:03 Optimizing a Self-directed Mobile Mindfulness Intervention for Improving Cardiorespiratory Failure Survivors' Psychological Distress: A Randomized Factorial Trial

BASIC • TRANSLATIONAL

MINI SYMPOSIUM

**B15 THE MACROPHAGE IN ALL ITS
GLORY**9:15 a.m. - 11:15 a.m. San Diego Convention Center

Room 24A-C (Upper Level)

Oral Presentations:

- 9:15 Alveolar Type 2 Cells With Impaired Proteostasis Signal to Monocyte-derived Macrophages Via a MIF/DDT-CD74 Signaling Network to Promotes Pulmonary Fibrosis in IPF
- 9:27 Airway Macrophages Coordinate Spatial Patterning Through Epithelial-immune Crosstalk
- 9:39 Tobacco Smoke Rewires Immune Microenvironment and Activates Macrophages to Promote Pulmonary Fibrosis
- 9:51 Unveiling the Immunosuppressive Symphony: A Cross-talk Between Tsc2 Null Mesenchymal Cells and Lung Macrophage in LAM
- 10:03 The Role of Macrophage Lipid Metabolism in Pulmonary Fibrosis
- 10:15 Alveolar Macrophage Subsets Have Distinct Cytokine Secretion Patterns and Associations With Mortality in Acute Hypoxemic Respiratory Failure
- 10:27 Hypercapnia-induced Methylation and Downregulation of Immune and Antiviral Genes in Alveolar Macrophages Is Mediated by the Transcription Factor Zfh3
- 10:39 Identification and Localization of Fibrotic Macrophage Subpopulations in Cryobiopsies From Patients With Interstitial Lung Disease Using Spatial Transcriptomics
- 10:51 TRPV4 Is a Key Mechanosensor in Macrophages That Drives Myofibroblast Differentiation Through the TGF- β Pathway
- 11:03 TREM2 Promotes Alveolar Macrophage Survival and Lung Fibrosis

BASIC • CLINICAL • TRANSLATIONAL**MINI SYMPOSIUM****B16 NOVEL INSIGHTS INTO ASTHMA PATHOGENESIS**

9:15 a.m. - 11:15 a.m. Marriott Marquis San Diego Marina
Pacific Ballroom 24-26 (Ground Floor, North Tower)

Oral Presentations:

- 9:15 Immunoproteasome Inhibits Airway Type 2 Inflammation in Part Through the Degradation of IL4-Ralpha
- 9:27 FoxP3+ Regulatory T Cells Require Ccr4 to Execute Suppressive Function and Restrain Allergic Inflammation
- 9:39 Enose - Derived Response Clusters in Severe Asthmatics Treated With Anti-IL5/5R Biologics
- 9:51 High Airway TSLP Levels in Asthma Associate With More Severe Disease and Multiple Biomarkers of Type 2 Inflammation
- 10:03 Methyl-TWAS: A Powerful Method for In Silico Transcriptome-wide Association Studies (TWAS) Using Long-range DNA Methylation
- 10:15 Single-cell RNA Sequencing Analysis of Blood and Nasal Brushing From Asthma Patients Receiving a Single Dose of SAR443765, A Novel, Bispecific Anti-TSLP/Anti-IL-13 Nanobodyr Molecule Reveals Significant Impact on Multiple Pathological Immune Cell Populations and Downregulation of CCL26 Expression in Epithelial Cell Subpopulations
- 10:27 Upper Airway Expression of 3 Epithelial and Immune Cell Genes Predicts Responsiveness to Mepolizumab Therapy in Children
- 10:39 Airway Epithelial Immune Responses in Type 2-Low Pediatric Asthma
- 10:51 Human Rhinovirus Replication and Interferon Responses by Bronchial Epithelium, and Severe Exacerbation History, Is Associated With IFIH1 Polymorphism rs1990760 in Children With Asthma
- 11:03 The Genetic Polymorphisms in Leukocyte Immunoglobulin-like Receptor B3 (LILRB3) Gene Are Associated With the Respiratory Diseases in the Population With African American Ancestry

BEHAVIORAL • CLINICAL**MINI SYMPOSIUM****B17 CUTTING EDGE RESEARCH ON DISPARITIES IN PULMONARY AND CRITICAL CARE MEDICINE**

9:15 a.m. - 11:15 a.m. San Diego Convention Center
Room 6D (Upper Level)

Oral Presentations:

- 9:15 A Normal Forced Vital Capacity Does Not Reliably or Equitably Exclude a Restrictive Ventilatory Impairment
- 9:27 Race-neutral PFTs and Impact on Compensation and Pension Eligibility Within One Veterans Affairs Medical Center
- 9:39 Interstitial Lung Disease Mortality Disparities Along the United States - Mexico Border, 1999-2020
- 9:51 Delays in Workup and Treatment of Pulmonary Fibrosis Associated With Limited-English Proficiency Are Improved by Native Language Communication
- 10:03 "It Can't Hurt!": Why Many Patients With Multiple Comorbidities and Limited Life Expectancy Decide to Accept Lung Cancer Screening
- 10:15 Uptake, Effectiveness, and Acceptability of Routine Screening of Pregnant Migrants for Latent Tuberculosis Infection in Antenatal Care: A Feasibility Study
- 10:27 Development of a Risk Model to Predict Social Determinants of Health Needs Using Electronic Health Record and Social Vulnerability Index Data With Machine Learning
- 10:39 Evaluation of Job Lock and Patient Reported Financial Impacts in People With Cystic Fibrosis
- 10:51 Geographic Variation in Financial Hardship Among Veterans Amid the COVID-19 Pandemic
- 11:03 Role of Built and Social Environments in Post-COVID Recovery: A Qualitative Study of Patients and Caregivers

BEHAVIORAL • CLINICAL

MINI SYMPOSIUM

B18 BRIDGING GAPS TO IMPROVE LONG-TERM OUTCOMES

9:15 a.m. - 11:15 a.m. San Diego Convention Center
Room 32A-B (Upper Level)

Oral Presentations:

- 9:15 Sedation Practices During Continuous Neuromuscular Blockade for the Acute Respiratory Distress Syndrome Are Associated With Prolonged Mechanical Ventilation
- 9:27 Impact of Ventilatory Support Modalities and Timing of Intubation on Longitudinal Recovery of Pulmonary Sequelae in Critically Ill COVID-19 Patients: Non-invasive Mechanical Ventilation Also Matters
- 9:39 Oxygen-saturation Targets and Long-term Physical Recovery in Mechanically Ventilated Critically Ill Adults
- 9:51 Discrepancies Between Functional Outcomes and Self-rated Health One Year After ICU Admission
- 10:03 The Canadian COVID-19 Prospective Cohort Study
- 10:15 The Post-acute Recovery Center: A Telehealth Care Model to Improve Patient-centered Outcomes for High-risk Survivors of Critical Illness
- 10:27 Recommended Care Coordination Practices May Reduce Readmission After Sepsis, but Are Not Routinely Implemented
- 10:39 Predictive Validity of Sepsis Subtypes for Post-discharge Outcomes of Patients With Acute Respiratory Distress Syndrome
- 10:51 Predicting Cognitive Elements of Post Intensive Care Syndrome
- 11:03 Primary Care Physicians' Perspectives on Screening For Cognitive Impairment Following ICU Stay: Pre-implementation Qualitative Study

CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

B19 'OMICS TO ENDOTYPE EXPOSURE-RELATED LUNG DISEASE

9:15 a.m. - 11:15 a.m. San Diego Convention Center
Room 8 (Upper Level)

- 9:15 Surfactant Protein-D (SP-D) Genotype Regulates Human Lung Inflammation Following Controlled Exposure to Ozone
- 9:27 Poverty May Drive Lung Function Disparities Through Epigenetic Programming and Age Acceleration
- 9:39 Epigenetic Aging and Environmental Exposures in Fibrotic Interstitial Lung Disease
- 9:51 Epigenome-wide Analysis Accounting for Omega-3 Fatty Acid Biomarker Reveals Robust Associations With Lung Function
- 10:03 The Impact of Air Pollution on Epigenetic Regulation of Inflammatory Gene Transcription in Asthmatic Patients Living in Western Pennsylvania
- 10:15 Single-Cell RNA Sequencing Reveals the Crucial Role of Dendritic Cell for Ozone-induced Pulmonary Responses Via Thymic Stromal Lymphopoietin
- 10:27 Long-term PM2.5 Exposure and Nasal Airway Epithelial Expression of CLCA1 in Youth With and Without Asthma
- 10:39 Comparative Small Airway Proteomics of Peribronchiolar Fibrosis in a Murine Model of Deployment Related Constrictive Bronchiolitis
- 10:51 The Impact of Sex on Airway Proteomic Response to Inhaled Wood Smoke Particles in Humans
- 11:03 Bronchoalveolar Lavage Fluid Proteome Profiling of Victorian Engineered-stone Workers with Silicosis Reveals Novel Disease Processes and Identifies Potential Biomarker Panels

BEHAVIORAL • CLINICAL**MINI SYMPOSIUM****B20 LUNG SCREENING: ONE SIZE DOES NOT FIT ALL**

9:15 a.m. - 11:15 a.m. San Diego Convention Center
Room 30A-B (Upper Level)

- 9:15 Association of Electronic Cigarette Use After Conventional Smoking Cessation With Lung Cancer Risk: A Nationwide Cohort Study
- 9:27 The Potential for an Algorithmic Smoking History Assessment to Improve Detection of Lung Cancer Screening-Eligible Patients in an Outpatient Pulmonology Clinic
- 9:39 Development and Performance of Alternative Simple Lung Cancer Screening Eligibility Criteria in the US Population: Comparison to USPSTF Criteria
- 9:51 Assessing Lung Cancer Risk in Breast Cancer Survivors
- 10:03 Targeting High Risk of Lung Cancer Enriches for Comorbidities Associated With Harms From Screening in a National Lung Screening Trial Subgroup (n=18,463)
- 10:15 Respiratory Symptoms Present When Assessed for the Summit Study, A Lung Cancer Screening Study
- 10:27 Racial Disparities in Annual Lung Cancer Screening Follow-up: An Updated Analysis of a Multicenter Cohort Study
- 10:39 Racial Differences in Lung Cancer Risk Distribution Using the Plcom2012, PLCOm2012Norace, and PLCOmRace3I Risk Models in a USPSTF-eligible Screening Cohort
- 10:51 The Impact of the 2023 ACS Screening Recommendations on Racial Disparities in Lung Cancer Screening Eligibility
- 11:03 Evaluation of Early Lung Cancer Detection in a Population at High Risk Due to Occupation: Eligibility Criteria and Impact

BASIC • CLINICAL • TRANSLATIONAL**POSTER DISCUSSION SESSION****B21 RESEARCH STUDIES IN INTERVENTIONAL PULMONARY AND PLEURAL DISEASE**

9:15 a.m. - 11:15 a.m. San Diego Convention Center
Room 5A-B (Upper Level)

- Poster Viewing 9:15-10:00
- Discussion 10:00-11:15
- 601 Trends in Characteristics and Outcomes of Hospital Inpatients Undergoing Bronchoscopic Lung Volume Reduction in the United States, 2016-2020
- 602 Characterizing Adverse Events in Using the Spiration Valve System as Reported by the Food and Drug Administration
- 603 A Systematic Review of Adverse Events in Patients Undergoing Endobronchial Valve Therapy for Chronic Obstructive Pulmonary Disease
- 604 A Retrospective Analysis of In-hospital Vs Out-of-Hospital Pneumothoraxes After BLVR in a Rural Community Setting
- 605 Bronchoscopic Lung Volume Reduction: Machine Learning Mathematical Model for Target Lobe Selection
- 606 Outcomes of Bronchoscopic Lung Volume Reduction in Patients With Static and Dynamic Hyperinflation
- 607 Combined Endobronchial Valve Placement and Inter-lobar Fissure Completion for Lung Volume Reduction in Emphysema: A Pilot Randomized Controlled Trial (COMPLETE-1)
- 608 Inter-lobar Fissure Completion as a Salvage Treatment in Patients With Failed Lung Volume Reduction (SAVED-1)
- 609 The Efficacy and Safety of Endobronchial Valve Placement in Patients With Chronic Obstructive Pulmonary Disease With Underlying Congestive Heart Failure: A Propensity-matched National Study

- 610 Impact of Frailty on Endobronchial Valve Placement for Endoscopic Lung Volume Reduction Among Severe Emphysema Patients: A Nationwide Readmission Database Analysis
- 611 The Impact of Pre-existing Chronic Obstructive Pulmonary Disease (COPD) on the Risk of Developing Post-bronchoscopy Pneumothorax: A Nationwide Study
- 612 Sex and Ethnic Differences in Accidental Iatrogenic Pneumothorax Rates, Outcomes, and Health Resource Utilization Among Us Hospitalizations, 2016 - 2020
- 613 Ambulatory Pleural Drainage May Reduce Hospital Stay for Pneumothorax
- 614 Reporting Conflicts of Interest in Bronchoscopy Research - Is Self-Reporting Sufficient?
- 615 Development of an Automated Interventional Pulmonology Procedural Registry
- 617 Tracheobronchomalacia on Dynamic Expiratory View: Concordance Assessment in Interpretation
- 618 Innovative Solutions for Subglottic and Tracheal Stenosis: A 3-D Designed Custom Montgomery T-Tube
- 619 Biodegradable Tracheal Stents. Our Experience With Development and Clinical Use
- 620 Clinical Factors for Successful Removal of Airway Silicone Stents in Patients With Post-tuberculosis Tracheobronchial Stenosis: A Retrospective Study Based on 15 Years of Experience
- 621 Diagnostic Yield and Procedural Complications of Computed Tomography-guided Transthoracic Needle Biopsy Versus Cone Beam Computed Tomography-guided Bronchoscopic Biopsy in Patients With High-risk Hematologic Malignancies and Patients Treated With Hematopo
- 622 Post-thoracentesis Ultrasound Vs. Chest X-ray for the Evaluation of Effusion Evacuation and Lung Re-expansion: A Multicenter Study
- 623 Platelet-activating Factor Is an Active Metabolite and Promotes Fibrosis in Tuberculous Pleural Effusion
- 624 Point-of-Care Glucometer Assessment of Pleural Fluid Glucose: A Promising Approach

- 625 Treatment of Advanced Stage Emphysema in a Rabbit Model with Two Injections of sctPA or scuPA

BASIC • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

B22 NEW FRONTIERS IN ENVIRONMENTAL AND OCCUPATIONAL LUNG DISEASE RESEARCH

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

San Diego Convention Center

Room 11A-B (Upper Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

- 501 E-cigarette Use, Cigarette Use, and Sex Are Associated With Nasal Microbiome Dysbiosis
- 502 Oral Microbiota Related to Allergy and Asthma in Norwegian Adults
- 503 Sleep Health and the Oral Microbiome
- 504 Characteristics of Microbes Diversity and Expanded Catalogue of Metagenome-assembled Genomes From Healthy Human Lung
- 505 Virome Sequencing to Characterize Exposure to Respiratory Pathogens in Inner City Schools
- 506 The Effect of Season on the Classroom Microbiome of Elementary Schools in the Northeastern United States
- 507 Do Hybrid Work Days Decrease Infection Risk? CO2 Sensor Data and Risk Analysis of an Office Setting
- 508 Identification of Combustion Sources During Deployment to Iraq and Afghanistan Using Historical Imagery
- 509 A Pilot Study Utilizing Wearable Samplers to Assess Personal Chemical Exposure Profile of Patients With Chronic Obstructive Pulmonary Disease
- 510 Early Markers of Cardiovascular Disease in WTC-Exposed Firefighters
- 511 Longitudinal Effects of Chronic Intermittent Hypoxia on Serum Metabolomics in an Animal Model of WTC Dust Exposure

- 512 Multiple Correspondence Analysis of Self-reported Blast Exposure in Deployed Veterans: A Preliminary Validation of Dimensional Structure and the Importance of What Can't Be Recalled
- 513 Left Ventricular Concentric Remodeling in Veterans Evaluated by the Post-Deployment Cardiopulmonary Evaluation Network
- 514 Associations Between Rhinitis and Lower Respiratory Tract Symptoms Following Deployment-related Occupational and Environmental Exposures Among US Veterans
- 515 Impact of Chronic Periodontitis on the Risk of Developing Interstitial Lung Disease: A Nationwide Cohort Study
- 516 Protein Kinase C Epsilon (PKCε) Mediates Mitochondrial Function in Aging Airway Epithelial Cells
- 517 Zinc Protects Against Swine Barn Dust-induced Cilia Slowing
- 518 Is Giant Cell Interstitial Pneumonia Synonymous With Hard Metal Lung Disease?
- 519 Exposures in Dental Clinics Potentially Contributing to Asthma and Interstitial Lung Disease Among Dental Personnel
- 520 Silicosis Associated With Engineered Stone Exposures and Tuberculosis: Overlaps in Clinical Presentation and Delayed Diagnosis
- 521 Further Evidence for a Link Between Silica Exposure and the Resurgence of Progressive Massive Fibrosis Among U.S. Coal Miners
- 522 Single Cell Transcriptional Sequencing Reveals Cell Heterogeneity in the Lower Respiratory Tract of Pneumoconiosis Patients
- 523 Cross-sectional Associations Between Tetrachloroethene Exposure and Liver Steatosis in the Us Population Using the NHANES 2017-March 2020 Pre-Pandemic Cycle
- 524 Nitrogen Mustard Vesicant Augments Inflammatory Response and Alters Lung Mechanics
- 525 Nitro-oleic Acid Mitigates Chlorine-induced Lung Injury in Mice by Inhibiting Pro-inflammatory Macrophage Activation

BEHAVIORAL • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

B23 PROMOTING HIGH-QUALITY PATIENT- AND FAMILY-CENTERED CRITICAL CARE DURING THE ICU STAY AND BEYOND

9:15 a.m. - 11:15 a.m. San Diego Convention Center
Room 6E (Upper Level)

- Poster Viewing 9:15-10:00
- Discussion 10:00-11:15
- 1001 Description of Intensive Care Unit Experiences Among Mechanically Ventilated Patients Enrolled in a Symptom Self-management Clinical Trial
- 1002 Understanding the “Family” in the ABCDEF Bundle: Analysis of Interprofessional Rounding Discussions About Family Engagement
- 1003 Development and Pilot Testing of an Intervention Fidelity Assessment Guide for Videoconferencing-based Group Communication Coaching for Intensive Care Unit Nurses
- 1004 Evaluation of a New Educational Program on Needleless Connector Management to Prevent Catheter-related Bloodstream Infection
- 1005 Decision Regret and Symptoms Experienced by Bereaved Intensive Care Unit Surrogates After a Loved One’s Cardiac Arrest: A Pilot Study
- 1006 Exploring Evidence for Clinical Practice Guideline-driven Early Mobility Decisions: A Retrospective EHR-based Analysis
- 1007 Post-traumatic Growth, Anxiety, Depression, and Post-traumatic Stress Disorder Among Survivors of Critical Illness Six Months Post-discharge
- 1008 Feasibility and Acceptability of a Move to Music Video Exercise Intervention to Promote Post-ICU Recovery for ICU Survivors
- 1009 Estimating Family-reported Patient Prognostic One-year Survival Outcome Estimates of Patients With Prolonged Mechanical Ventilation
- 1010 Performance Shaping Features of Intermediate Care Nursing Workload: A Qualitative Study

1011 Perceptions of Interprofessional Staffing in Adult ICUs: Clinicians Feel Unsafe and Demoralized

BASIC • CLINICAL • TRANSLATIONAL

RAPID POSTER DISCUSSION SESSION

B24 WHALE WATCHING: A “RAPID” TOUR OF PAH PATHOGENESIS

9:15 a.m. - 11:15 a.m. Marriott Marquis San Diego Marina

Pacific Ballroom 15-17 (Ground Floor, North Tower)

Viewing/Discussion 9:15-10:00

Abstract Summaries 10:00-11:15

- 101 Right Ventricular Pulmonary Arterial Coupling Measured by Multi-beat Pressure Volume Loops Predicts Survival in Pulmonary Hypertension
- 102 Targeting the Stratifin Mediated Endothelial -Pericyte Crosstalk Ameliorates Pulmonary Hypertension
- 103 BRCC3 Regulation of ALK2 in Vascular Smooth Muscle Cells: Implication in Pulmonary Hypertension
- 104 Impact of PAH Therapies on Blood Vessel Volumes
- 105 The RNA M⁶A Demethylase, FTO, Regulates Vascular Remodeling in the Pathogenesis of Pulmonary Arterial Hypertension
- 106 Reduced Endothelial Cpt1a Causes Endomt and Pulmonary Vascular Remodeling in a Murine Model of Bronchopulmonary Dysplasia-associated Pulmonary Hypertension
- 107 Crosstalk Between Recruited and Resident Interstitial Macrophages in Schistosoma-induced Pulmonary Hypertension
- 108 Prediction of Response to Treprostinil Therapy in Patients With Pulmonary Hypertension Due to Interstitial Lung Disease Using Key Echocardiographic Parameters and Machine Learning
- 109 Pulmonary Hypertension Following Kidney Transplantation Is Common and Associated With Increased Mortality
- 110 Different Proteomic Profiles in Severe Pulmonary Hypertension Associated With COPD and Pulmonary Fibrosis

111 Clinical Implications of the New Hemodynamic Definition of Precapillary Pulmonary Hypertension

112 AI-powered Quantification of Microvascular Remodeling: A Novel Marker for PH

113 Metabolic Insights into Pulmonary Artery Activity in Patients With Obstructive Sleep Apnea Before and After CPAP Therapy

114 Association Between Cardiopulmonary Hemodynamics and Morality in Veterans With Liver Cirrhosis

115 Genetic and Epigenetic Regulators of COL18A1 Expression in Preclinical Pulmonary Hypertension

BASIC • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

B25 LUNG INVOLVEMENT IN SICKLE CELL DISEASE AND AFTER HEMOPOIETIC STEM CELL TRANSPLANT

9:15 a.m. - 11:15 a.m. San Diego Convention Center

Room 25A-C (Upper Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

- 401 Sickle Cell Disease Microbiologic and Immunologic Links to Health Equity (SMILE)
- 402 Sickle Cell Disease and Fungal Asthma: A Complex Coupling
- 403 Effects of Adoption of Race Neutral Predictive Equations on Spirometry Results in Pediatric Sickle Cell Patients
- 404 Pulmonary Care for Children With Sickle Cell Disease: Spirometry, Reference Equations, and Equity
- 405 Impact of Using New Formula for Calculation of Bronchodilator Response and Race-neutral Predictive Equations on Spirometry Results of Children With Sickle Cell Disease
- 406 Increased Tricuspid Regurgitation on Echocardiography Is Associated With Sleep Disordered Breathing in Children With Sickle Cell Disease

- 407 **SNAP: Supportive Non-invasive Ventilation for ACS Prevention in Hospitalized Children With Sickle Cell Disease: Perceptions of Patients, Caregivers, and the Health Care Team**
- 408 **Initiation of Bi-level Positive Airway Pressure in Children With Sickle Cell Disease for Persistent Hypoxemia: A Retrospective Study**
- 409 **The Association of Sleep Disordered Breathing With the Healthcare Utilization in Children With Sickle Cell Disease, A Multicenter Study**
- 410 **Sickle Cell Trait Status Increases the Susceptibility to Chlorine Inhalational Injury in Humanized Mouse Model**
- 411 **Blood and Bronchoalveolar Lavage Proteomes Identify Correlating Pathways Associated With Allograft Dysfunction in LTx Recipients With Different Underlying Conditions**
- 412 **Pediatric Bone Marrow Transplant Patients Demonstrate a High Proportion of Abnormal Baseline Pulmonary Findings: Prospective, Multi-center Results From the Transpire Study**
- 413 **Breathing New Life into an Old Problem: Pulmonary Complications After Autologous Hematopoietic Stem Cell Transplant**
- 414 **Transpire: Lung Injury in a Longitudinal Cohort of Pediatric Hematopoietic Stem Cell Transplant Patients to Assess Biomarkers for Lung Injury**
- 415 **Oscillometry Outcomes Before and After Hematopoietic Stem Cell Transplantation (HSCT)**
- 416 **Towards Early Detection of Post-Allogeneic Bone Marrow Transplant Bronchiolitis Obliterans Syndrome - The Use of Portable Airway Oscillometry**
- 417 **Home Spirometry Is Feasible After Pediatric Hematopoietic Stem Cell Transplant**
- 418 **Long-term Trend of Total Lung Capacity in Patients With Fanconi Anemia After Undergoing Hematopoietic Cell Transplantation**
- 419 **Single Center Experience in Pediatric Lung Transplant**
- 420 **Xenon MRI Detects Pulmonary Gas-exchange Abnormalities in Adult Childhood-cancer Survivors Treated With Bleomycin**

- 421 **Success and Feasibility of Multiple Breath Washout: Prospective Multi-center Results From the Transpire Study**

BASIC • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

B26 UNLOCKING NTM/BRONCHIECTASIS MYSTERIES

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

San Diego Convention Center

Room 1A-B (Upper Level)

Poster Viewing

9:15-10:00

Discussion

10:00-11:15

- 201 **Validation of the BACES Severity Scoring System in an Australian Cohort of Nontuberculous Mycobacterial Pulmonary Disease (NTM-PD) Patients**
- 202 **Developing Steroids As Host Directed Therapy for Non-tuberculous Mycobacterium: Dexamethasone Reduces Pro-inflammatory Responses Induced by Mycobacterium Avium in Human Macrophages Without Diminishing Their Ability to Kill the Mycobacterium**
- 203 **The Diagnostic Potential of Serum Anti GPL-core IgA Antibody for MAC Pulmonary Disease Diagnosed by Bronchial Lavage Fluid Culture**
- 204 **Body Morphotype in Patients With Pulmonary Nontuberculous Mycobacteria: A Prospective Cohort Study**
- 205 **Mycobacterium Avium Complex Treatment Is Associated With Decreased Exacerbation Rate in COPD Patients**
- 206 **US Bronchiectasis and NTM Research Registry: Pseudomonas Treatment Patterns in Non-cystic Fibrosis Bronchiectasis Measured by Sociodemographic Factors**
- 207 **Factors Influencing Unfavorable Outcomes in Cavitory Non-tuberculous Mycobacterial Pulmonary Disease (NTM-PD), With an Emphasis on Imaging Patterns: A Multicenter Cohort Investigation**

- 208 Clinical Immunological Characteristics of Anti-Interferon- γ Autoantibodies Syndrome: A Prospective Cohort Study
- 209 Favorable Outcomes of Intermittent Biweekly Macrolide Plus Parenteral Agents in Mycobacterium Abscessus Subsp. Abscessus Pulmonary Disease
- 210 Bellevue Bronchiectasis Clinic: A Unique New York City Public Hospital Experience
- 211 The Role of Clofazimine as a First or Second Line Drug in Non-Tuberculous Mycobacteria Pulmonary Disease: Outcomes of Patients in an East London Cohort
- 212 CFTR Modulators Associated With Favorable Post-transplant Outcomes and Abrogate Macrophage Inflammatory Responses to Pseudomonas Aeruginosa
- 213 Morphological Quantitative Evaluation of the Airway Using Supine and Upright Computed Tomography in Patients With Non-cystic Fibrosis Bronchiectasis and Nontuberculous Mycobacterial Pulmonary Disease
- 214 The Risk of NTM Pulmonary Infection and Trace Metal Exposure in Municipal Drinking Water Systems Across the United States
- 215 Pulmonary Hygiene Use in People Living With M. Avium Complex Pulmonary Disease
- 216 Incidence and Prevalence of Non-cystic Fibrosis Bronchiectasis in Japan
- 217 A Population-Based Analysis of the Risk of Mycobacterial Infections Associated With Immune Checkpoint Inhibitors
- 218 Mycobacterium Chelonae Outbreak Investigation Among Hospitalized Patients
- 219 Comparison of the Clinical Features of Bronchiectasis Patients With and Without a History of Tobacco Use - Data From the National Bronchiectasis and NTM Research Registry Consortium
- 220 Discrepancies in Species Identification and Antibiotic Susceptibility Testing Between Labs in Non-tuberculous Mycobacteria
- 221 Molds in the Airway Secretions in Patients With Primary Ciliary Dyskinesia: A 21-year Observational Study
- 222 Prescription Patterns of Inhaled Mucolytic Therapy and the Risk of Nontuberculous Mycobacterial Pulmonary Infections in Bronchiectasis Patients: A Retrospective Cohort Study
- 223 Genotype, Drug Susceptibility Profiles and Associated Clinical Features of Mycobacterium Abscessus (Mabs) Isolates in Patients With Mabs Pulmonary and Extrapulmonary Disease
- 224 Non-Tuberculous Mycobacterium (NTM): An 11-year Retrospective Review in Ayrshire and Arran: A Rural/Semi-urban Population on the West Coast of Scotland
- 225 Applying the BSI Tool to Bronchiectasis Patients With NTM Pulmonary Disease

BEHAVIORAL • CLINICAL

RAPID POSTER DISCUSSION SESSION

B27 PULMONARY REHABILITATION: ONLINE RESOURCES, COMPLEX PATIENTS AND PALLIATIVE CARE

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

San Diego Convention Center

Room 28C-E (Upper Level)

Viewing/Discussion

9:15-10:00

Abstract Summaries

10:00-11:15

301 Pulmonary Rehabilitation Utilization and Completion by Disease State in the US Population (2014-2019)

302 Assessment of Online Videos as a Source of Information and Instruction for Pulmonary Rehabilitation

303 Characterizing the Content, Quality, and Readability of Internet Resources on Exercise Training and Pulmonary Manifestations in Ehlers-danlos Syndromes (EDS) and Generalized Hypermobility Spectrum Disorder (G-HSD)

304 Reviewing Clinical Applications of Chatbots Powered by Large Language Models: Learning CPET

305 Barriers to Exercise Rehabilitation in Canadian Patients With Pulmonary Hypertension

- 306 Feasibility of Home-based Pulmonary Rehabilitation With Remote Monitoring in Pulmonary Arterial Hypertension
- 307 Enhancing Rehabilitation Programs for Complex Chronic Obstructive Pulmonary Disease (COPD) Patients: Insights From Patients and Providers
- 308 Characterizing Respiratory Symptoms, Physical Activity Levels, and Daily Function in Lung Transplant Candidates Managed by Palliative Care: A Mixed Methods Study
- 309 A New Lens for Quality of Life Measurements: Novel Application of the FACIT-pal Score
- 310 Characteristics of Virtual Pulmonary Rehabilitation Programs in the US: Results From a National Electronic Survey

BASIC • TRANSLATIONAL

POSTER DISCUSSION SESSION

B28 LUNGS THOROUGH TIME: EXPLORING LUNG AGING

9:15 a.m. - 11:15 a.m. San Diego Convention Center
Room 33A-C (Upper Level)

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

- 901 Neonatal Hyperoxia Exposure Derails the Normal Development and the Physiological Ageing of the Lung
- 902 Association of Age Acceleration With COPD and Idiopathic Pulmonary Fibrosis in Lung and Blood Samples From the Lung Tissue Research Consortium: A Sex-Based Lens
- 903 A Single-cell Atlas of Human Lung Aging Reveals Cell-type Specific Signatures
- 904 FENDRR LNCRNA Knockout Leads to Age-associated Senescence Signature in Mouse Lung Endothelial Cells
- 905 Early-life Multiple Hit Model of Maternal Obesity and Cigarette Smoke Exposure Favors Early Chronic Obstructive Pulmonary Disease (COPD) Through Activation of Premature Lung Aging Processes in AT2

- 906 Aging-related Accumulation of Truncated Oxidized Phospholipids Augments Infectious Lung Injury and Endothelial Dysfunction Via CD36-dependent Mechanism
- 907 Accelerated DNA Aging in Familial Pulmonary Fibrosis
- 908 The Role of Regulator of Telomere Elongation 1 (RTEL1) in Lung Ageing and Fibrosis
- 909 Chromatin Changes in the Aging Lung Determine Progenitor Cell Activity
- 910 Muc5b Overexpression and Aging Results in Lung Fibrosis in Mice
- 911 CRIPTO1 Is a New Senescence-associated Secreted Protein That Drives Fibroblast Activation During Senescence-induced Pulmonary Fibrosis
- 912 Extrinsic Stimuli Determine the Senescent Phenotype of Primary Human Lung Fibroblasts and Impair Stem Cell Potential of the Distal Epithelium
- 913 Nampt Mediates Apoptosis-resistance of Myofibroblasts That Contributes to Age-dependent Persistent Lung Fibrosis
- 914 Fibroblast NF-κB Activation Drives the Accumulation of Age-associated T Cells (Taa) in the Lung
- 915 Lung-targeting Nox4 Inhibitors as a Novel Strategy for Age-dependent Severe ARDS
- 916 Decreased Glycolysis Reduces Senescence in Cultured Lung Macrophages Exposed to Hyperoxia and Increased Glycolysis Is Associated With Hyperoxia-Induced Lung Senescence In Vivo
- 917 Caveolin-1-Derived Peptide Improves Telomere Function by Targeting P53-fibrinolytic Pathway During Chronic Lung Injuries
- 918 Circulating Extracellular Vesicles Isolated From Young Mice Protect Aged Endothelial Cells and Exert Anti-fibrotic Effects in Aged Mice With Persistent Lung Fibrosis
- 919 Changes in Lung Extracellular Matrix Stiffness Caused by Aging: Dependence on Whether Measured at Functional or Residual Volumes
- 920 Endothelial Cell Senescence in Pulmonary Arterial Hypertension: A Two-edge Sword?

- 921 Checkpoint Inhibitor Pathway Dysfunction in Pulmonary Fibrosis
- 922 Perinatal Obesity Induces Premature Alveolar Aging by AT2 Cell Depletion Via IL-6-driven Transcriptional Stress and Genome Instability
- 923 p16^{INK4a+} Fibroblasts Regulate Epithelial Regeneration After Injury in Lung Alveoli Through the SASP
- 924 Impaired Fatty Acid Oxidation Influences Nuclear Dynamics in Alveolar Type 2 Epithelial Cells
- 707 Machine Learning Analysis of Serial Electronic Health Record Data Identifies Clinical Biomarkers of Progressive Lung Function Impairment in Patients With Scleroderma
- 708 Staying in the Flow: Preferential PDE4B Inhibitor Nerandomilast (BI 1015550) Improves Features of Vascular Dysfunction in Lung Fibrosis In Vitro and In Vivo
- 709 PEG-FUD, A Promising Probe for Pulmonary Fibrosis, Targets the Pro-fibrotic Phase of Disease

BASIC • TRANSLATIONAL

POSTER DISCUSSION SESSION

B29 BIOMARKERS AND NEW THERAPEUTICS TARGETS IN LUNG FIBROSIS

9:15 a.m. - 11:15 a.m. San Diego Convention Center

Room 30C-E (Upper Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

- 701 Combination of IFN- γ With Ferroptosis Inducers Effectively Attenuates Bleomycin-induced Pulmonary Fibrosis in Mice
- 702 Nebulizable Conjugates to Sustain Retention, Delivery, and Efficacy of Galectin-3 Inhibitory Drug TD139 in the Alveolar Space
- 703 The Role of Erythrocyte Membrane Protein Band 4.1-like 3 as a Prognostic Biomarker in Idiopathic Pulmonary Fibrosis
- 704 Composite Fibrosis Scoring From Serum Biomarkers for Early Detection of Progressive Hermanky-Pudlak Syndrome Pulmonary Fibrosis
- 705 Latent Class Analysis of Two Observational Cohorts Identifies Two Biomarker-derived Subtypes of Fibrotic Interstitial Lung Disease (ILD) With Differential Mortality
- 706 Targeting mGluR5 in Fibroblasts Provides a Promising Avenue in Idiopathic Pulmonary Fibrosis: Prospective of Repositioning Basimglurant, A Negative Allosteric Modulator of mGluR5
- 710 Therapeutic Targeting of Aberrant Transitional Epithelial Cells in Lung Fibrosis Through NOX4 Inhibition
- 711 MZB1+ Plasma Cells as Potential Therapeutic Targets for Cell Depletion in Interstitial Lung Diseases
- 712 GTX-11 Alleviates Fibrosis, Inflammation, and Cardiovascular Dysfunction in Different Models of Lung Fibrotic Disease
- 713 A First-in-Human Clinical Trial of Pulmonary Macrophage Transplantation Therapy of Hereditary Pulmonary Alveolar Proteinosis Caused by Biallelic CSF2RA Mutations
- 714 Variations in S100A8/A12 Gene Expression Are Associated With the Efficacy of Nintedanib and Acute Exacerbation Development in IPF Patients
- 715 Targeting a Novel TRPV4-PI3Kg Interaction Blocks Fibrogenic Myofibroblast Differentiation
- 716 Synergistic Effects of Nintedanib With BCL-2 Inhibition to Drive Pro-fibrotic Fibroblast Apoptosis
- 717 P53 and miR-34A Feedback Regulates Antifibrotic Effects of CSP7, Nintedanib and Pirfenidone in Lung Fibroblasts
- 718 Bexotegrest Targets TGF-beta Inhibition to Specific Cell Types in the Fibrotic Human Lung
- 719 Preclinical Data Supports Assessment of Target Engagement in Skin as a Surrogate for Lung in Clinical Trials of the Porcupine Inhibitor AZD5055
- 720 Upregulation of MARCKS in Macrophage Reprogramming and Its Potential as a Therapeutic Target for Pulmonary Fibrosis
- 721 LAPTM4B Modulates the TGF β -SMAD Signaling by Interacting With E3 Ubiquitin Ligase NEDD4L in IPF

- 722 Ubiquitin Ligase HRD1 Facilitates Degradation of the Type I Collagen in Idiopathic Pulmonary Fibrosis
- 723 Apoptotic Resistance in Collagen1a1-expressing Fibroblasts Drives Silica-induced Pulmonary Fibrosis
- 724 Single Cell Transcriptomic Profiling Resolves a Therapeutic Gap in Idiopathic Pulmonary Fibrosis
- 725 Small-molecule Targeting of Epac1 in Idiopathic Pulmonary Fibrosis

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

**B30 SCARRED FOR LIFE:
TRANSLATIONAL RESEARCH IN
INTERSTITIAL ABNORMALITIES AND
LUNG FIBROSIS**

9:15 a.m. - 11:15 a.m. San Diego Convention Center

Room 31A-C (Upper Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

- 801 Fresh Perspectives on Lung Morphometry and Pulmonary Drug Delivery: AI-powered 3D Imaging in Healthy and Fibrotic Murine Lungs
- 802 Fibrosis in Precision Cut Lung Slices From TGF- β 1 Overexpressing Mice
- 803 Interleukin-1a Downregulates Transforming Growth Factor- β 1 or β 2-induced Remodeling Gene Expression in Healthy Lung Fibroblasts
- 804 Diet-induced Obesity Results in Severe Lung Fibrosis That Is Improved by Alk5i Treatment in a Bleomycin Induced Pulmonary Fibrosis Mouse Model
- 805 Deciphering the Clinical Efficacy Mechanisms of Buloxibutid in Idiopathic Pulmonary Fibrosis
- 806 The Role of M2-like Macrophages and Their Aggregation in the Formation of Honeycomb Cysts Expressing MUC5B in Idiopathic Pulmonary Fibrosis
- 807 Global Proteomic Profiling the Mechanism of Action of the Casein Kinase 1 Delta (CK1d) Inhibitor PF670462 in Modulating TGF- β -induced Fibrogenesis

- 808 Osteoprotegerin, Fibulin-1 and Latent TGF β Binding Protein 1 Form a Regulatory Complex in Lung Fibrosis
- 809 Lactate and Epithelial Mesenchymal Transition (EMT)- Mediated Changes in Cellular Properties by Enhanced Stiffness of an Extracellular Matrix
- 810 Transcriptomic Heterogeneity of the Distal Epithelium in IPF Lung: Rethinking the Order of Events
- 811 Severity and Extent of Pulmonary Fibrosis on CT in Idiopathic Pulmonary Fibrosis Patients Correlates With Lung Function and Quantitative CT Features
- 812 Association of Diaphragmatic Motion Evaluated by Dynamic Digital Radiography and Disease Progression in Patients With Idiopathic Pulmonary Fibrosis
- 813 Comparative Analysis of Bleomycin and Adenovirus TGF β 1-induced Pulmonary Fibrosis in Preclinical Mouse Models
- 814 Quantification of Normal Tissue Mass From Computed Tomography in Systemic Sclerosis-associated Interstitial Lung Disease
- 815 A Mechanotransduction-motivated Agent-based Model of Lung Parenchymal Self-healing and Fibrosis on a Spring Network
- 816 Evaluating Radiomic-derived Features Across Different Image Convolution Kernels for Predicting IPF Patient Survival
- 817 Exploring Deep Learning Models for the Prediction of FVC Decline in IPF Patients
- 818 Safety, Effectiveness, and Usefulness of Higher-dose Tablets of Generic Pirfenidone in Patients With IPF: A Nationwide Observational Study in South Korea
- 819 Persistent Airway Remodeling in Ferrets Exposed to a Single Dose of Bleomycin
- 820 BRD4 Is a Novel Regulator of Pleural Mesothelial to Mesenchymal Transition
- 821 Transmission Electron Microscopy of Transbronchial Lung Cryobiopsy Samples in Fibrotic Interstitial Lung Diseases - Feasibility and Implications of Ultrastructural Vessel Abnormalities

- 822 Three Different IPF Subgroups Based on Quantitative CT Integrated with Clinical Information and Machine Learning
- 823 Comparison of Percent-predicted and Z-score Values of FVC and DLCO as Prognosis Markers in Idiopathic Pulmonary Fibrosis (IPF)
- 824 Diagnosis of Idiopathic Pulmonary Fibrosis in Human Tissue Samples Using Raman Spectroscopy
- 825 Oxidized Phospholipid Neutralizing Antibody Ameliorates Pulmonary Fibrosis
- P204 The Bcl-2-interacting Killer Is Increased in the Lung Airways of Allergen-exposed Mice to Suppress Inflammation
- P205 Synergistic Implications of the Combination of IL-17A and TNF- α in the Modulation of Neutrophilic Airway Inflammation by Bronchial Epithelial Cells
- P206 Differential Regulation of the Type 2 Cytokines, IL-4 and IL-13, and the Alarmins, IL-33 and TSLPA, in Airway Inflammation and Remodeling
- P207 Deep Immunophenotyping in Asthma: A Pilot Study
- P208 Immunophenotyping Altered CD4 and CD8 Responses Towards Viral and Allergen Antigens in Children With Asthma

BASIC • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

B31 AIRWAY EPITHELIAL INFLAMMATION AND DYSFUNCTION

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area C (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P197 Epithelial Immunomodulation by Aerosolized Toll-like Agonists Prevents Allergic Lung Inflammation by Reducing Th2 Polarization
- P198 Cigarette Smoke Impairs Mucociliary Function in COPD and Alpha-1 Antitrypsin Deficiency by Modulating Epithelial Remodeling and Hey1 Expression
- P199 Interleukin 31 Receptor α Promotes Airway Smooth Muscle Cell Contraction and Hyperresponsiveness in Asthma
- P200 Oxidized Phospholipids Suppress Glucocorticoid Transactivation and Transrepression Regulation of Gene Transcription in Airway Epithelial Cells
- P201 IL-13 Stimulation of Primary Bronchial Epithelial Cells Enhances Rhinovirus Replication
- P202 Specialized Pro-Resolving Mediators Attenuate Rhinovirus-Induced Inflammatory Gene Expression in Differentiated Airway Epithelial Cells
- P203 Genetic Ablation of TFAM in Alveolar Macrophages Exacerbates Allergic Airway Inflammation
- P211 Single-cell Analysis of the Human Neonatal Infant Airway Epithelium Reveals Age Specific Immune Response to RSV
- P212 TGF- β 1-mediated Modulation of Bronchial Epithelial MicroRNAome: Implications for Airway Disease and Mucociliary Clearance Disruption by HIF-1 α
- P213 Palmitic Acid and Interferon Gamma Increase the Severity of Rhinovirus Infection in Cultured Human Airway Epithelial Cells
- P214 IL-13 Sputum Levels Correlate Inversely With Spirometry in Patients With Cystic Fibrosis
- P215 Mucus Rheology Across Chronic and Infectious Diseases in Patients: Similarities and Differences
- P216 Sex Hormones and Chromosomal Complements Influence on Gut Microbiome in Allergic Airway Inflammation
- P217 P300 Controls Regulatory T Cell Functions in a Mouse Model of Allergic Asthma
- P218 Benzodiazepines Limit Murine Allergic Lung Inflammation Potentially by Inhibiting Lymphocyte Store-operated Calcium Entry Via Modulation of the Mitochondrial Sodium Calcium Exchanger
- P219 Interactions Between Airway Epithelial Hypoxia and Inflammatory Stimuli in Airways Disease
- P220 Altered Circadian Regulation of Immune Pathways in Primary Human Airway Epithelial Cells in Asthma

P221 Club Cell Secretory Protein 16 (CC16) Engages the ALX Receptor to Inhibit Pro-inflammatory Cytokine Expression by Human Epithelial Cells

P222 Succinate Receptor 1 (SUCNR1) Expression in Airway Epithelial Cells

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THEMATIC POSTER SESSION

B32 BIOMARKERS AND TRANSLATIONAL STUDIES IN COPD AND CHRONIC AIRWAYS DISEASES

**9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area F (Hall A-B2, Ground Level)**

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

P593 Blood-based Transcriptomic and Proteomic Biomarkers of Emphysema

P594 Distinct Pharmacological Profiles of IL-33 Antibodies

P595 Acceleration of Inflammation in Primary Human Bronchial Epithelial Cells and Microrna Mediated Gene Silencing in the Context of HIV and Cigarette Smoke

P596 Polygenic and Transcriptional Risk Scores Identify Chronic Obstructive Pulmonary Disease Subtypes

P597 Effects of Vaping of Nicotine and THC E-cigarettes on Gene Expression, Airway Resistance, and Saliva and Sputum Production

P598 Association of Biomarker Suppression With St George'S Respiratory Questionnaire and COPD Assessment Test in Patients With Alpha-1 Antitrypsin Deficiency Treated With Alvelestat: Results From the Treatment of Alpha-1-antitrypsin Deficiency (Atalanta) Study

P599 Lung Cell-type Specific Interactions With Streptococcus in COPD

P600 Allergic Sensitization and IgE Levels in Eosinophilic COPD

P601 Adherence and Persistence with Fluticasone Furoate/Umeclidinium/Vilanterol and Budesonide/Glycopyrrolate/Formoterol Fumarate Among Patients with Chronic Obstructive Pulmonary Disease: A Real-world United States Study

P602 An Investigation on the Effects of Prompt Versus Delayed Initiation of Fluticasone Furoate/Umeclidinium/Vilanterol Single-Inhaler Triple Therapy Among Patients with Chronic Obstructive Pulmonary Disease in the United States

P603 MicroRNA-mediated Downregulation of Jagged1 During HIV Mediated COPD: Implications for Disrupted Notch Signaling in Pulmonary Health

P604 Treatment and Disease Burden Among Patients With Moderate or Severe COPD: Real World Study

P605 Unveiling the Therapeutic Potential of Mesenchymal Stem Cells in the Pursuit of Treatment of Chronic Obstructive Pulmonary Disease: A Systematic Review

P606 Sputum and Serum Immunoglobulins in Chronic Obstructive Pulmonary Disease

P607 Sputum Transcriptomic Changes Associated With Menthol Tobacco and Nicotine Products

P608 The Neutrophil Lymphocyte Ratio as a Predictor of Acute Exacerbations Among Patients With COPD in Uganda

P609 To Explore Type 1 Versus Type 2 Inflammation Etiologies With the D-dimer and C-reactive Protein Levels and Analyze Their Relation With the Severity of Chronic Obstructive Pulmonary Disease

P610 Investigating Prevalence of Eosinophilia and Inhaled Corticosteroid Use in Puerto Rican Patients With Chronic Obstructive Pulmonary Disease: A Retrospective Analysis

P611 Eblasakimab Significantly Alleviates IL-4 and IL-13-induced Bronchial Airway Constriction in COPD-Derived Lung Slices

P612 Lung Immunophenotyping Combined With Machine Learning Uncovers Novel Copdendotypes

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THEMATIC POSTER SESSION

B33 COVID-19, LUNG INJURY, AND SEPSIS

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area I (Hall H, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P945** Mortality-associated Protein Signatures Shared Across Sepsis and COVID-19 Include Potential Mediators of Lung Injury and Repair
- P946** Acute Kidney Injury Contributes to Increased Circulating Mitochondrial DNA in Sepsis
- P947** Streamlined Nucleus Isolation Protocol for Cryopreserved Mouse Lung Captures Non-immune Cell Types by Single-nucleus RNA Sequencing
- P948** The Novel Mechanism of Action of GEn-1124, A Next-generation Non-catalytic P38alpha/MK2 Signal Modifier With Endothelial-barrier-stabilizing, Anti-inflammatory, and Lung-protective Activities
- P949** Mechanisms of eNAMPT Secretion Upon Inflammasome Activation
- P950** A Single-dose Phase 1 Study With SLV213 Demonstrates Safety and Pharmacokinetics Enabling Investigation of a New Orally Available Cathepsin L Inhibitor for Treatment of Patients With Respiratory Diseases
- P951** The Role of Treg-expressed Mmp12 During the Resolution of Acute Lung Injury
- P952** Cigarette Smoke Suppress GALNT2 Expression in Lungs of SARS-CoV-2-infected Mice
- P953** Associations of Asthma and Type 2 Inflammation With Symptom Burden in Patients Post-COVID-19
- P954** Neutrophil Activation and Their Derived NETs Contribute to Thrombotic Risk in Post-acute Sequelae of SARS-CoV-2 Patients With Persistent Respiratory Symptoms
- P955** Activity of Glutathione-related Enzyme System in Patients With Community-acquired Pneumonia Comorbid With Non-alcoholic Fatty Liver Disease

- P956** TLR4 Inhibition Does Not Improve Mortality Due to Intermittent Hypoxia in a Mouse Model of COVID-19
- P957** Increased Circulating Nucleosomes and Their Potential Contribution to Inflammation in COVID-19 Patients
- P958** Comprehensive Analysis of Bronchoalveolar Lavage Fluid by Validating ELISA and MSD Systems for 23 Biomarkers
- P959** Vitamin B12: A Potential Marker for Infection and Sepsis
- P960** OC43 Coronavirus Infection of the Mouse Lung Induces OC43-specific Systemic and Resident Memory, Boosted by Cyclic-di-GMP
- P961** ARBM-201 as a Novel Pendrin Inhibitor, Limiting Excess Pro-inflammatory Responses in Lung Cells In Vitro
- P962** Functional Neutrophil Phenotypes in Murine Models of Acute Lung Injury

BEHAVIORAL

THEMATIC POSTER SESSION

B34 PROVIDER-CENTERED HEALTH SERVICES RESEARCH

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P411** Underrepresentation of International Medical Graduates in Academic Leadership in Pulmonary Disease and Critical Care Medicine
- P412** Evaluation of the Respiratory Therapy Profession in Ghana: A Cross-sectional Study
- P413** A Needs Assessment to Address Provider Burnout in the Hospital
- P414** Sense of Calling and Autonomy Among Saudi Respiratory Therapists: Cross-sectional Study
- P415** Mid-level Providers (MLPs) in the Ed: Where Is the Optimum Balance?

- P416** Referent and Autonomy Among Respiratory Therapists in the United States: A Cross-sectional Anonymous Survey on Professionalism
- P417** Public Service, Self-regulation, and Loyalty Among Respiratory Therapist: A Cross-sectional Study in Asia and United Arab Emirates
- P418** Improving Pulmonologists' Skills and Confidence in the Management of Chronic Rhinosinusitis With Nasal Polyposis
- P419** HCAHPS Scores and Their Impact: Pulmonary Patient Readmission Trends at Mount Sinai Health System
- P420** Descriptive Analysis of RT-Guided Tobacco Cessation Outreach and Treatment

BEHAVIORAL • CLINICAL**THEMATIC POSTER SESSION**

B35 CRITICAL CARE QUALITY IMPROVEMENT, TRAINING, AND HEALTH SERVICES RESEARCH

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P422** Implementing a Multidisciplinary Tracheostomy Care Team in a Community Based Hospital
- P423** Charting New Horizons: Provider Views on a Novel Machine Learning Sepsis Alert System
- P424** Analyzing the 30-Day Readmission of Sepsis Survivors: Understanding Patient Populations
- P425** Temporal Trends in Hospital Readmissions Among Patients With Chronic Illness After Hospitalization for Acute Respiratory Failure
- P426** The Effect of an Electronic Medical Record Sepsis Discharge Bundle on Hospital Readmission Rates
- P427** Impact of Peer to Peer Teaching on Sepsis Pathway Utilization and Outcomes
- P428** Factors Associated With Non-invasive and Invasive Mechanical Ventilation Support in Hospitalized Patients With Community-acquired Pneumonia
- P429** Exploring Factors That Intensivists Believe Predict the Development of Late-onset Organ Failures: A Sequential Mixed Methods Approach
- P430** Influencing Factors of Changes in the Satisfaction of Family Members of Patients in the Intensive Care Unit
- P431** Association of ICU Surrogate Decision Maker Medical Mistrust With Patient Health Outcomes - A Pilot Prospective Cohort Study
- P432** Patient and Provider Characteristics Associated With Initial Life-Sustaining Treatment Notes in Veterans Health Administration Outpatient Settings
- P433** Awareness of Post Intensive Care Syndrome (PICS) Among Medical Residents in a Community Hospital
- P434** Snap: Implementation of Supportive Non-invasive Ventilation for Acute Chest Syndrome Prevention in Adults With Sickle Cell Disease
- P435** Reported Endotracheal Practice Patterns of American Board of Internal Medicine Certified Pulmonary and Critical Care Medicine Physicians
- P436** Nurse Practitioners Are Noninferior to Physicians in Critical Care: A Patient-shift Level Analysis
- P437** The Impact of Dobbs V. Jackson on Future Critical Care Workforce: A Cross-sectional Survey
- P438** Harnessing the "Golden Hour" in Critically Ill Patients: A Pilot Trial of a Checklist-based Optimization of Intensive Care Unit Admissions
- P439** Quantifying Practice Variations Amidst Diagnostic Uncertainty in Sepsis Using a Multidimensional Clinical Decision Support Framework
- P440** Delays in Vital Sign Validation and Patient Admission Associated With Increased Intensive Care Unit Mortality

BEHAVIORAL • CLINICAL

THEMATIC POSTER SESSION

B36 INTERSTITIAL LUNG DISEASE, CYSTIC FIBROSIS, AND SARCOIDOSIS: CLINICAL PERSPECTIVES

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area K (Hall H, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees**12:30-1:15** Authors will be by their posters for individual discussion with attendees

- P1169** Characterizing and Reducing Inappropriate Inhaler Use in a Tertiary Care Interstitial Lung Diseases Clinic
- P1170** Consequences of Adverse Events Associated With Antifibrotic Medications: Perspectives From People With Idiopathic Pulmonary Fibrosis (IPF)
- P1171** The Association of Dyspnea and Oxygen Need as Measured by a Graded Treadmill Walk Test in Patients With Idiopathic Pulmonary Fibrosis
- P1172** Improving Palliative Care Referrals in Progressive Fibrosing Interstitial Lung Diseases
- P1173** Perspectives on Screening and Early Treatment for Pulmonary Fibrosis
- P1174** Characteristics of Patients With Interstitial Lung Disease With Progressive Pulmonary Fibrosis in Europe: A Cross-sectional Survey
- P1175** A Descriptive Analysis of Medical Care in an Interstitial Lung Disease Cohort From a Major Safety Net Health System
- P1176** Patient Perspectives on Knowledge Gaps in Chronic Hypersensitivity Pneumonitis
- P1177** Poor Sleep and Fatigue Are Common in Adults With CF Even in the Era of Highly Effective Modulators
- P1178** Cardiovascular Health in Cystic Fibrosis: Patient Perspectives
- P1180** Do Socioeconomic Health Disparities Impact Sarcoidosis Disease Severity at Presentation?

CLINICAL

THEMATIC POSTER SESSION

B37 CRITICAL LAB VALUE ALERT! HORMONES AND ELECTROLYTES IN THE ICU

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area L (Hall H, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees**12:30-1:15** Authors will be by their posters for individual discussion with attendees

- P1339** DKA/HHS Overlap Syndrome Rare but Deadly When Found
- P1340** Mind the Gap! Euglycemic Diabetic Ketoacidosis in a Patient Receiving Continuous Renal Replacement Therapy
- P1341** Navigating the Perfect Storm: A Case of Contrast-Induced Thyroid Storm Leading to Cardiogenic Shock
- P1342** A Storm is Brewing: A Case of Thyrotoxic Crisis
- P1343** Unraveling the Enigma: Hyperthyroid State Induced Paralysis
- P1344** A Rare Presentation of Hashimoto Encephalitis
- P1345** Acute Onset Paralysis With Profound Hypokalemia: Diagnosis and Management
- P1346** Lipid Panel: Unveiling the Mystery of an Anion Gap Acidosis
- P1347** Perplexing Pituitary
- P1348** Hashimoto's Encephalopathy: A Rare Cause of Refractory Agitation
- P1349** Severe Diabetic Ketoacidosis Resulting in Refractory Shock and Stress Cardiomyopathy
- P1350** Dual Dilemma: Deciphering Severe Hyponatremia Amidst Parotid Cancer and Heart Failure
- P1351** A Case of Diabetic Ketoacidosis (DKA) Secondary to Olanzapine Use
- P1352** Salt, Seizures and SIADH: Pituitary (macro)adenoma and Symptomatic Hyponatremia

- P1353 Sodium Dyscrasia: A Case of Central Diabetes Insipidus Unmasked by the Resolution of Vasopressin-Induced Hyponatremia**
- P1354 Myxedema Coma: The Master of Disguise**
- P1355 Acute Adult B-lymphoblastic Leukemia Presenting as Hypercalcemia**
- P1356 Cold and Confused: A Case of Suspected Adrenal Insufficiency After COVID-19**
- P1357 Too Sweet for the Brain - Glucose-Mediated Tonicity Changes Causing Osmotic Demyelination Syndrome**
- P1358 Lost in the Mix: A Challenging Diagnosis of Myxedema Coma in an Elderly Patient**
- P1359 Injecting Drama: The Shocking Twist of Steroids and the Sodium Slump**
- P1360 A Case of Euglycemic Ketoacidosis Secondary to Continuous Renal Replacement Therapy**
- P1361 Hypophosphatemia: A Unique Presenting Feature of Cannabinoid Hyperemesis Syndrome (CHS)**
- P1362 Type-B Lactic Acidosis: A Challenging Diagnosis and Life-Threatening Emergency**
- P1363 The Role of Plasmapheresis in Management of Thyroid Storm**
- P1364 A Rare Case of Lactic Acidosis Associated With Severe Thiamine Deficiency in the United States**
- P1365 Weathering the Storm: A Case of Thyrotoxic Crisis**
- P1366 Thyroid Tempest: Unravelling a Rare Case of Amiodarone-Induced Thyroid Storm**
- P1367 A Case of Severe Starvation Ketoacidosis in a 37-Week Gestation Pregnant Woman**
- P1368 Connecting the Dots: Hypokalemia, Lupus and Distal Type 1 Renal Tubular Acidosis Unveiled**
- P1369 Cerebral Salt Wasting Syndrome Secondary to Head Injury**
- P1370 An Unusual Case of Metabolic Acidosis - Mind the Gap!**
- P1371 Coronavirus-19 (COVID-19) and Hypercalcemic Crisis: A Rare Case Report**
- P1372 Hypothyroidism Associated Pericardial Effusion**
- P1373 Prolonged Diabetic Ketoacidosis With Hyperammonemia in the Setting of Normal Liver Function**
- P1374 A Thyroid Tempest: Digitally Navigating a Bloody Storm**
- P1375 How High Can Anion Gaps Be in Patients With Metabolic Acidosis? A Case Report**
- P1376 Survival and Vision Restoration Following Severe Metformin-Associated Metabolic Acidosis With Transient Blindness: A Case Report and Review of the Literature**
- P1377 Nivolumab Induced Myxedema Coma**
- P1378 Non-anion Gap Metabolic Acidosis: An Unfortunate Pitfall of L-arginine Therapy in Mitochondrial Encephalomyopathy, Lactic Acidosis, and Stroke-like Episodes**
- P1379 Severe Lactic Acidosis Following Epinephrine Use in Anaphylaxis**
- P1380 Severe Epinephrine-Induced Lactic Acidosis**
- P1381 Severe Metabolic Acidosis Attributed to Metformin Overdose: Necessitating Urgent Dialysis and Critical Care**
- P1382 Is Sugar Making My Brain Go Crazy? A Case of Hyperglycemic Brain Injury**
- P1383 Severe Hyponatremia With Subclinical Seizures in a Patient With Well Controlled HIV After Taking Nirmatrelvir-Ritonavir (Paxlovid™) for Minimally Symptomatic SARS-CoV-2 Infection**
- P1384 Double Trouble: When Myasthenia Gravis Crisis and Thyroid Storm Collide**
- P1385 A Case of Severe Symptomatic Hyponatremia Due to Pituitary Macroadenoma**
- P1386 Decoding Lactic Acidosis: A Complex Challenge in a Healthy Patient**
- P1387 The Enigmatic Duo: Thiamine Deficiency Unveiled in Lactic Acidosis**
- P1388 A Case Report: The Warburg Effect Presented as a Rare Clinical Diagnosis to Explain Persistent Asymptomatic Hypoglycemia and Lactic Acidosis in Melanoma With New Metastasis to the Thoracic Cavity**
- P1389 Hypertriglyceridemia Induced Pancreatitis in a Pregnant Patient**
- P1390 Lipase of More Than 1000 U/L as a Predictor for the Severity of Acute Pancreatitis: A Case Series**
- P1391 Thyrotoxic Hypokalemic Paralysis**

BEHAVIORAL • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

B38 OPTIMIZING MECHANICAL VENTILATION AND VENTILATOR LIBERATION

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area L (Hall H, Ground Level)

Viewing: Posters will be on display for entire session**Discussion:** 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1393** What Is the Optimal Mode of Mechanical Ventilation in Patients Intubated for Altered Mental Status? A Secondary Analysis of the Mode Trial
- P1394** Delta E/e' on Transition From Assist-Control to Spontaneous Breathing During Mechanical Ventilation as a Predictor for Extubation Failure
- P1395** Occlusion Pressure at 100msec for Predicting Outcomes in Patients Ventilated Via Pressure Regulated Volume Control Mode in Moderate Adult Respiratory Distress Syndrome (Oculus Study)
- P1396** The Prognostic Role of Initial Mechanical Power in Mechanically Ventilated Patients With Severe COVID-19 Pneumonia
- P1397** Hemodynamic Effects of Spontaneous Breathing in Patients on Invasive Mechanical Ventilation: Implications on Cardiac Output and Organ Perfusion
- P1398** Phrenic Nerve Stimulation Increases Brain Connectivity in Deeply Sedated Mechanically Ventilated Moderate ARDS Patients
- P1399** Identifying Mechanical Paradox: Standardization of Compression Technique
- P1400** Predictive Factors for Post-operative Atelectasis After Abdominal and Orthopedic Surgeries Measured by Lung Ultrasound Score
- P1401** Patterns of Ventilator Dyssynchrony
- P1402** Artificial Intelligence Models in the Detection of Patient Ventilator Asynchrony: A Review of Techniques and Clinical Targets
- P1403** Web Based Ventilator Central Monitoring System in Intensive Care Unit
- P1404** Success of Locally Devised Bubble CPAP Alone or in Combination With Surfactant Therapy in the Management of Respiratory Distress Syndrome in Preterm Neonates
- P1405** Lateral Position Improves Oxygenation and Lung Ventilation in High-flow Nasal Cannula Patients With COVID19: A Prospective Physiological Study
- P1406** Automated Oxygen Titration With Non-invasive Ventilation in Stable Hypoxemic Outpatients
- P1407** Automated Titration of Nasal High Flow Oxygen in the Emergency Department: A Randomised Controlled Trial
- P1408** Virtual Clinical Trial of Automated Inspired Oxygen Titration to Prevent Desaturation During Sudden Pathophysiological Disturbances
- P1409** Monitoring Diaphragmatic Effort During Phrenic Nerve Stimulation Based on Changes in Airway Pressure-time Product
- P1410** Ventilating Beyond the ICU: Exploring the Characteristics and Outcomes of Non-ICU Mechanical Ventilation
- P1411** Effect of Frailty on Mortality of Patients Requiring Mechanical Ventilation
- P1412** Mechanical Ventilator Weaning in Chronic Critical Illness
- P1413** Comparison of T-piece Versus Pressure Support Ventilation for Spontaneous Breathing Trial: Systematic Review and Meta-analysis
- P1414** Pressure Support Ventilation Versus T-piece for Spontaneous Breathing Trials in Critically Ill Patients: A Systematic Review and an Updated Meta-analysis
- P1415** Elevated Beta Oxidation and Tryptophan Degradation Proceed Post-operative ARDS in Surgical ICU Patients With Successful Liberation From Ventilation
- P1416** Utility of Rapid Shallow Breathing Index and Its Rate in Predicting the Need of Non-invasive Ventilation During the Post- Extubation Phase
- P1417** A Retrospective Analysis of Unplanned Extubations in the Intensive Care Units at University Hospital

P1418 Is Timing Everything? Assessing Demographic and Clinical Factors in Timing of Percutaneous Tracheostomy in Medical Intensive Care Unit Patients

P1419 Trends and Outcomes in Percutaneous and Open Surgical Tracheostomy for Mechanically Ventilated Patients in a Tertiary Care Center

P1420 Ultrasound as a Clinical Guide in Predicting Respiratory Failure: A Multicenter Analysis at Inner-City NY Hospitals

P1421 A Predictive Model for Plateau Pressure

BASIC • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

B39 MODELING MECHANICAL VENTILATION AND OXYGEN SUPPORT

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

San Diego Convention Center

Area L (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

P1423 Multi-frequency Ventilation Improves Oxygenation at Lower Distending Pressures in Porcine Acute Lung Injury

P1424 Transpulmonary Pressure in Swine Obesity Model Suggests Atelectasis in Lower Peep Values

P1425 Lung Mechanics Collapse and Hyperdistension in an Obesity Model in Supine Mechanically Ventilated Healthy Swine

P1426 Pulmonary Perfusion Assessment Using Electrical Impedance Tomography During Tidal Breathing

P1427 Unilateral Acute Lung Injury in a Porcine Model: Effects of Different Levels of Positive End-expiratory Pressure

P1428 Arrhythmias Are Common After Bacterial Sepsis in a Human Relevant Triple-hit Swine Model of Acute Respiratory Distress Syndrome

P1429 Bedside Lung Ultrasound Correlates to Chest X-ray and Pulmonary Function Changes in Human Relevant Triple-hit Swine Model of Acute Respiratory Distress Syndrome

P1430 Effects of Continuous External Negative Pressure During Mechanical Ventilation With Spontaneous Breathing Activity on Lung Function Variables in Experimental ARDS

P1431 Impact of Airway Closure and Lung Recruitability on Inhaled Nitric Oxide Efficacy - Preliminary Results

P1432 Effect of Intermittent Magnetic Phrenic Nerve Stimulation on Twitch Transdiaphragmatic Pressure Normalized by Lung Volume

P1433 A Conceptual Model of Injurious Inflation Energy: From Pressure to Tension

P1434 Distribution of Mechanical Power Throughout the Respiratory Cycle in a Heterogenous Biologic Lung Model

P1435 Early Prone Position Ventilation Decreases Ventilator-induced Lung Injury and Susceptibility to Pseudomonas Aeruginosa Pneumonia

P1436 Accurate Assessment of Respiratory Physiology Is Essential for Preclinical Drug Development in a Mouse Model of COVID-19-induced ARDS

P1437 Preclinical Animal Models Testing Extracorporeal Membrane Oxygenation (ECMO) in Acute Lung Injury (ALI): A Systematic Review and Meta-analysis

P1438 Imaging Hypoxic Pulmonary Vasoconstriction in a Swine Model Using Electrical Impedance Tomography

P1439 Influence of Leaks and Mask Design on CO₂ Clearance During Non-invasive Ventilation: A Bench Study

P1440 Alternated Use of High Flow Nasal Oxygen and Non Invasive Ventilation Was Associated to a High Risk of Invasive Mechanical Ventilation in Patients With COVID-19: A Retrospective Cohort Study

P1441 Respiratory Support With Asymmetrical Nasal High Flow Reduces Respiratory Rate and Minute Ventilation in COPD Patients During Acute Exacerbation

- P1442 Nasal Patency Is Not Affected by Nasal High Flow Applied With a Symmetrical or Asymmetrical Cannula Interface
- P1443 Humidity Output of a Novel High Flow Oxygen Therapy Device
- P1444 Effective Flow Rates and Decarboxylation Differs Between Nasal High-flow Devices
- P1445 Right Ventriculoarterial Coupling During Positive End-expiratory Pressure Titration Based on a Pressure-based Single Beat Method: A Proof-of-Concept Study
- P1446 Partitioned Respiratory Mechanics in Two Different Models of Obesity Phenotype
- P970 Risk of Prolonged Mechanical Ventilation With COVID-19 Varies by Strain
- P971 Long-term Mortality After SARS-CoV-2 Hospitalization: A Real World Analysis
- P972 The Prognostic Value of PaO₂/FiO₂ Ratio in Predicting Clinical Outcomes in COVID-19 Patients
- P973 Identification and Validation of Respiratory Subphenotypes in Patients With COVID-19 Acute Respiratory Distress Syndrome Undergoing Prone Position
- P974 Nucleated Red Blood Cells as a Prognostic Marker for Mortality in Patients With COVID-19 Induced Acute Respiratory Distress Syndrome (ARDS): An Observational Study

CLINICAL • TRANSLATIONAL
THEMATIC POSTER SESSION
B40 COVID-19 EPIDEMIOLOGY IN 2024

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area I (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P964 Increased Mechanical Ventilation and Mortality Among Ethnic Minority Patients With COVID-19 in Hawai'i
- P965 The Relationship of COVID-19 Vaccination With Mechanical Ventilation and Mortality Among 7,365 Hospitalized Patients in Hawai'i
- P966 Examining Temporal Variations in Sepsis-related Hospitalizations and Mortality: A Comprehensive Analysis of NIS Database (2018-2020)
- P967 Impact of Hispanic Ethnicity on Mortality Rates in Mechanically Ventilated Patients
- P968 Evolution of the Number of Appointments, Hospitalizations, and Mortality Due to COVID-19 From 2020 to 2022 in a Regional Brazilian Unit
- P969 Outcomes of Immunocompromised and Non-immunocompromised Patients in the Intensive Care Unit Differ Depending on COVID Strain
- P975 Neutrophil-to-Lymphocyte Ratio Value and Its Relationship With Outcome in COVID-19 Patients
- P976 Serial Biomarker Measurements May Be Helpful to Predict the Successful Application of High Flow Nasal Cannula (HFNC) in COVID-19 Pneumonia
- P978 Association Between Endothelial Activation and Stress Index (EASIX) and Intensive Care Unit (ICU) Mortality in Critically Ill COVID-19 Patients Admitted to ICU: A Nationwide Retrospective Multicenter Cohort Study
- P979 Association of Co-infections With Outcomes Across COVID-19 Variants
- P980 The Impact of the COVID-19 Pandemic on Antimicrobial Resistance in Central Line Infections
- P981 Morbidity and Mortality of COVID-influenza Coinfection in a Large Academic Healthcare System
- P982 Clinical Characteristics of Bloodstream Infections in Critically Ill COVID-19 Patients on Mechanical Ventilation: A Multicenter Cohort Study
- P983 Impact of Staphylococcus Aureus Co-infection on Creatine Kinase and Severity Scores in COVID-19
- P984 Bronchoscopy Utilization in Medical Intensive Care Unit During the COVID-19 Surges
- P985 Pneumomediastinum in COVID-19: Assessment of Treatment Modalities
- P986 Impact of Pneumothorax on Mortality, Morbidity, and Hospital Resource Utilization in COVID-19 Patients: A Propensity Matched Analysis From Nationwide Inpatient Sample

- P987 The Impact of COVID-19 Co-diagnosis on Sepsis-related Hospitalization and Mortality in 2020 Using the NIS Database
- P988 Barotrauma in Mechanically Ventilated COVID-19 Patients With Severe ARDS
- P989 CANCOV- Canadian Prospective Cohort of 1-year Outcomes in Critically Ill Patients With COVID-19 and Their Family Caregivers - Preliminary Report on Causes of Death in the ICU Cohort
- P990 Comparison of Outcomes in COVID-19 Patients Receiving Early Versus Late Tracheotomy
- P991 Derivation of a Prognostic Model for Predicting the Need for Invasive Mechanical Ventilation at Hospital Admission and the Following 12 Hours in COVID-19 Patients
- P992 Continuous Non-invasive Inhaled Nitric Oxide Through High Flow Nasal Cannula Is Feasible and Might Mitigate the Need for Intubation in Severe COVID-19 Pneumonia: A Retrospective Study
- P993 Trends and Outcomes on the Impact of Diabetes Among Patients Hospitalized With COVID-19 Infection: 2020 National Inpatient Sample Analysis
- P994 Impact of Intubation Timing on Clinical Outcomes in Critically Ill COVID-19 Patients With Respiratory Failure
- P995 The Changing Demographics and Severity in Hospitalized Patients Across COVID-19 Variants: A National Cohort Study
- P996 How Did Respiratory Support Management and Patients' Demographics Change in the ICU Before, During, and After the Pandemic?
- P1448 Comparison of an Experimental Sepsis Definition Using a Cellular Host-response Test to Consensus Definitions for Risk Stratification in the ED
- P1449 Breath-driven Diagnostics: A Noninvasive In Vitro Assay for Lower Respiratory Tract Infections Using Multiplexed Protease Sensors in ICU Settings
- P1450 Neutrophils Phenotype and Function After Isolation From Very Low Volume of Blood - A Perspective in Sepsis Patients
- P1451 Acetate, A Gut Microbial Metabolite, Is Elevated in Experimental Sepsis and Correlates With Disease Severity
- P1452 Wwox: A Risk Factor for Severity and Neuroinflammation in Experimental Sepsis
- P1453 Transcutaneous Monitoring of CO₂ for Improved Specificity for Detection of Sepsis
- P1454 Bronchoalveolar Lavage and Serum Citrullinated Histone H3 Concentrations Differentiate Patients With Sepsis Versus Non-sepsis-induced Acute Respiratory Distress Syndrome
- P1455 Identification and Analysis of Necroptosis-related Genes in Sepsis by Bioinformatics Analysis and Experimental Verification
- P1456 A "Net" Benefit? Measuring Citrullinated Histone H3 to Estimate Neutrophil Extracellular Trap (NET) Formation in Critically Ill Patients
- P1457 Novel Next-generation Non-catalytic P38 α /MK2 Immunomodulators With Endothelial-barrier-stabilizing and Anti-inflammatory Activity
- P1458 Endothelial Glycocalyx-derived Dermatan Sulfate Is Associated With Sepsis Diagnosis and Microvascular Dysregulation
- P1459 Safety and Tolerability of Inhaled Physiological Aqueous Chlorine: Potential for Acute Respiratory Distress Syndrome
- P1460 Developing a Novel Oxygen Carrier for Resuscitation and Oxygen Delivery Through Targeted Mutations of Recombinant Heme Proteins
- P1461 Clinical Value of Exhaled Breath Condensate-GM in the Diagnosis of Invasive Pulmonary Aspergillosis

BASIC • CLINICAL • TRANSLATIONAL**THEMATIC POSTER SESSION****B41 INNOVATION INCUBATOR: NOVEL SEPSIS MECHANISMS AND MARKERS**

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area L (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

CLINICAL

THEMATIC POSTER SESSION

B42 ALPHABET SOUP: APLS, HLH, HUS, TTP, SCD, AND DIC IN THE ICU

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P442** A Case of Hemophagocytic Lymphohistiocytosis /Macrophage Activation Syndrome in a Lung Transplant Patient
- P443** Refractory Covid-19-induced ITP Complicated by Secondary Hemophagocytic Lymphohistiocytosis
- P444** Human Monocytic Ehrlichiosis Induced Secondary Hemophagocytic Lymphohistiocytosis With an Excellent Outcome
- P445** Acquired Hemophagocytic Lymphohistiocytosis (HLH) From Underlying Monoclonal Gammopathy of Unknown Significance (MGUS)
- P446** Anasarca As Presenting Sign In Hemophagocytic Lymphohistiocytosis: Are We Missing Something?
- P447** Bilateral Lung Transplant Complicated by Cytokine Storm Syndrome Due to Hemophagocytic Lymphohistiocytosis
- P448** A Case of Hemophagocytic Lymphohistiocytosis as a Result of Histoplasma Capsulatum Reactivation in an Immunocompetent Patient
- P449** Secondary Hemophagocytic Lymphohistiocytosis Due to Epstein-Barr Virus
- P450** A Fatal Mimic: A Case of Hemophagocytic Lymphohistiocytosis (HLH)/Macrophage Activation Syndrome (MAS)
- P451** Does Occam's Razor Even Apply in Severely Immunosuppressed Patients? A Case of a Patient With HIV/AIDS With Opportunistic Infections, Diffuse Large B-Cell Lymphoma, and Secondary Hemophagocytic Lymphohistiocytosis
- P452** Delayed Diagnosis of Hemophagocytic Lymphohistiocytosis Leading to Multiorgan System Failure
- P453** Plasmic Score - Hidden Gem of TTP Prediction
- P454** Unmasking the Hidden Threat: A Rare Case of TTP Unleashed by C. Difficile Infection
- P455** A Critical Case of Thrombotic Thrombocytopenic Purpura Occurring Secondary to Atypical Gastroenteritis
- P456** Hypertensive Emergency Turned Atypical HUS
- P457** A Case of Atypical Hemolytic Uremic Syndrome
- P458** Rapid Clinical Deterioration in a Patient With Cellulitis: An Unusual Presentation of Catastrophic Antiphospholipid Syndrome
- P459** Collision of Clots: When Catastrophic Antiphospholipid Syndrome Meets Heparin-induced Thrombocytopenia
- P460** Catastrophic Antiphospholipid Syndrome After Triple Coronary Artery Bypass Grafting
- P461** Catastrophic Antiphospholipid Syndrome as a Cause for Multi-System Organ Failure and Death
- P462** Surviving a Catastrophic Experience
- P463** Non-traumatic Cerebral Fat Embolism Syndrome in Sickle Cell Patient
- P464** A Case of Exercise Collapse Associated With Sickle Cell Trait (ECAST)
- P465** Not in Vein: Management of Sickle Cell Intrahepatic Cholestasis in the ICU
- P466** Management of DIC in the Setting of Lung Adenocarcinoma Complicated by Pulmonary Embolism and Hemorrhagic Pericardial Effusion With Tamponade
- P467** Acute Liver Failure or Disseminated Intravascular Coagulopathy
- P468** The Bleed That Will Not Stop - Acquired Coagulopathy Due to Combined Factor VIII Deficiency and Inhibitor
- P469** A Lingering Question - Severe Hemorrhagic Shock or Thrombotic Microangiopathy?
- P470** Acute Liver Failure in Hemophagocytic Lymphohistiocytosis Secondary to Hodgkin's Lymphoma: A Diagnostic Dilemma

CLINICAL

THEMATIC POSTER SESSION

B43 “WE PROBABLY NEED AN ID CONSULT” - ATYPICAL INFECTIONS IN THE ICU

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P472 An Unusual Case of Arcanobacterium Haemolyticum Causing Acute Respiratory Distress Syndrome Requiring Extracorporeal Membrane Oxygenation
- P473 Ticking All the Boxes: Case of Anaplasmosis With Acute Respiratory Distress Syndrome and Multi-Organ Failure
- P474 An Immunocompetent Case of Burkholderia Cepacia Acute Respiratory Distress Syndrome (ARDS)
- P475 Pneumocystis Jirovecii Pneumonia in an Immunocompetent Patient With Inhalation Injury, A Case Report With Literature Review
- P476 A Rare Case of Necrotizing Community-Acquired Pneumonia Complicated by a Broncho-Splenic Fistula
- P477 Nocardia Brain Abscess in an Immunocompetent Individual
- P478 Late Staphylococcal Empyema 67 Years Post Plombage Therapy Treated With Decortication and Pectoralis Major Flap
- P479 A Case of Pulmonary Mucormycosis Leading to Non-hepatic Hyperammonemia
- P480 Worsening Pulmonary Kaposi Sarcoma Despite Treatment: Remember IRIS
- P481 A Case Report of Fatal Skin Sparing Laryngeal Zoster in Post-acute COVID-19 Syndrome
- P482 Necessary Treatment of Empyema Necessitans
- P483 Purulent Pericarditis - An Uncommon Sequelae of Coronary Artery Bypass Grafting
- P484 Peritonsillar Abscess Leading to Purulent Pericarditis - A Case Report
- P485 Mediastinitis Secondary to Peritonsillar Abscess
- P486 Unveiling Histoplasma: A Rare Culprit of Sepsis in Pancytopenic Patients With Transaminitis
- P487 Challenging Diagnosis and Management of Disseminated Histoplasmosis With Coexistent Adrenal Insufficiency
- P488 A Controversial Topic: PJP Prophylaxis in Patients With Long-Term Immunologic Agents +/- Steroids
- P489 Hemorrhagic Pulmonary Artery Pseudoaneurysm Associated With Invasive Aspergillosis in a Patient With Cavitory Lung Disease
- P490 Pulmonary Hypertension With Severe Sepsis in Ehrlichiosis: What You Should Know Before You Hike
- P491 Fungal Duo: A Case of Disseminated Histoplasmosis and Pneumocystis Pneumonia Competing for the Spotlight
- P492 Unplugging but Plugging Back In: HSV as a Possible Cause of Bronchial Plugging
- P493 Chryseobacterium: A Critical Conundrum
- P494 Legionnaire’s Disease Presenting With Combined Neurologic and Cardiac Involvement
- P495 An Immunocompetent Enigma: Case of Concurrent Herpes Simplex Virus (HSV) Pneumonia and Pulmonary Aspergillosis in an Immunocompetent Individual
- P496 The Silent Intruder: Bronchopleural Fistulas and SARS-CoV-2 Infection
- P497 What a Gem! Gemella Haemolysans - An Emerging Cause of Acute Respiratory Distress Syndrome
- P498 When Things Go Wrong Think Herpes; A Rare Case of Herpes Pneumonitis
- P499 Enigmatic Eosinophils
- P500 A Case of Severe Herpes Simplex Virus Pneumonitis
- P501 Pulmonary Actinomycosis Superimposed on Metastatic Small Cell Carcinoma
- P502 Rare Case of Resistant Aspergillus Niger Invasive Pulmonary Aspergillosis

- P503 Epididymo-orchitis Associated With Covid-19 Infection in a Young Male
- P504 Disseminated Blastomycosis Complicated by Multiorgan Failure Driven by Cytokine Release Syndrome in a Patient With Poorly Controlled Diabetes Mellitus
- P505 Unusual Bug in a Healthy Heart - A Rare Case of Propionibacterium Pericarditis
- P506 Unique Presentation of Leptospirosis in an Urban Setting: The Interplay of Social Determinants and Clinical Diagnostics
- P507 A Fatal Case of Lyme Myocarditis With Babesia Co-infection
- P508 HSV-induced Aplastic Anemia
- P509 Cytomegalovirus Colitis Causing Hemorrhagic Shock and Ileocolic Intussusception in a Patient With Acquired Immunodeficiency Syndrome
- P510 Case of Invasive Fungal Rhinosinusitis With Bacterial Coinfection With Klebsiella Pneumoniae
- P511 Severe Complicated Pelvic Inflammatory Disease: A Presentation of Unusual Polymicrobial Pathogens
- P512 A Disseminated Accident? A Case of Disseminated Histoplasmosis and Intracranial Hemorrhage
- P513 Double Trouble: Atypical Presentation of Human Granulocytic Anaplasmosis and Lyme Disease Co-infection
- P514 A Case of Herpetic Whitlow, Complicated by Osteomyelitis
- P515 Fusobacterium Detection in Culture Negative Abscess
- P516 Stenotrophomonas Maltophilia, Pandoraea Species, and Aspergillus Niger Co-infection in a Patient With Acute Respiratory Failure
- P517 Streptococcus Intermedius Masquerading as Neoplasm
- P518 Tick Bite to Heart Fright: A Case of Lyme-induced Third-degree AV Block
- P519 Legionella Pneumonia, Rhabdomyolysis, and Acute Renal Failure: A Case Report
- P520 Lung Opacities Are Not Always Malignant in Elderly Chronic Smokers
- P521 A Toothy Disaster
- P522 A Case of Mycoplasma Myocarditis Presenting With Sustained Refractory SVT and Acute Heart Failure in a Young Patient With No Signs of Myocardiolysis and Extra-Cardiac Disease
- P523 Co-infection With Anaplasmosis and Borrelia Leading to Multisystem Organ Failure
- P524 The Deadly Duel: Legionnaires Disease and Multiple Myeloma: A Case of Fatal Pulmonary Renal Syndrome
- P525 Case of Necrotizing Pneumonia and Spontaneous Pneumothorax After Streptococcal and Stenotrophomonas Infection
- P526 Creatine Kinase Toxicity: A Case of Legionnaires' Disease Complicated by Rhabdomyolysis-Associated Acute Kidney Injury

CLINICAL

THEMATIC POSTER SESSION

B44 MITIGATING HARM: MANAGING EXPECTED AND UNEXPECTED COMPLICATIONS IN THE ICU

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

San Diego Convention Center

Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P528 A Rare Occurrence of Intra-Abdominal Injury as a Result of Cardiopulmonary Resuscitation
- P529 An Unwanted Connection - Left Atrioesophageal Fistula After Catheter Ablation for Atrial Fibrillation
- P530 Mechanical Cardioversion of Refractory Atrial Flutter to Sinus Rhythm During Bronchoscopy
- P531 The Woman With a Hole in Her Heart: Atrio-esophageal Fistula After Atrial Fibrillation Ablation
- P532 Unanticipated Recurrence of Left Ventricular Aneurysm Post Surgical Repair: A Case of Right Sided Heart Failure and Secondary Congestive Hepatopathy

- P533 Underappreciated Risk of Immediate Postoperative Reperfusion Pulmonary Edema in a Young Adult With Chronic Homograft Stenosis Following Truncus Arteriosus Repair**
- P534 Rare Complication of Left-sided Hemothorax Following Percutaneous Coronary Intervention (PCI)**
- P535 Post Cardiac Injury Syndrome Due to Pacemaker Insertion Presenting With Pericardial Effusion, Cardiac Tamponade and Recurrent Pleural Effusions**
- P536 A Rare Case of Central Venous Catheter Malposition in the Left Superior Intercostal Vein**
- P537 Visceral Reaction: Abdominal Compartment Syndrome From Brief Cardiopulmonary Resuscitation**
- P538 Miracle of ECMO in Stent Aspiration: A Case Report**
- P539 When Time Is of the Essence: Fatal Delay in Diagnosis and Surgical Management of Pulmonary Mucormycosis in a Renal Transplant Patient**
- P540 Complex Mediastinal Abscess Extending into the Right Upper Lobe: A Rare Complication of Endobronchial Ultrasound**
- P541 Surgical Gastrostomy Tube Placement Leading to Pneumatosis Intestinalis**
- P542 A Case of Massive Hemothorax During Central Venous Catheterization**
- P543 Arterial or Venous? A Dilemma of Central Venous Catheter Placement**
- P544 Learning to Look at the Lines: Management of a Fractured Central Venous Catheter**
- P545 Unlocking the Enigma of Transfusion Related Acute Lung Injury (TRALI) - A Case Report of Acute Respiratory Failure**
- P546 Thoracentesis of Pleural Effusions Secondary to Pulmonary Embolism: Therapeutic or Iatrogenic?**
- P547 Flash Pulmonary Edema During Hyperbaric Oxygen Therapy**
- P548 A Case of Tracheal Perforation Leading to Pneumomediastinum**
- P549 Plastic Surgery Gone Wrong: Catastrophic Post-operative Hemorrhagic Shock Due to Newly Acquired Factor VIII Inhibitor**
- P550 Retained Capsule Endoscope in a Patient With Recurrent Small Bowel Obstruction: A Case Report**
- P551 Even Simple Procedures Can Become Devastating: A Paracentesis Complicated by a Large Rectus Sheath Hematoma**
- P552 A Lethal Case of Cerebral Air Embolism From Likely Central Venous Catheter Malfunction**
- P553 A Case Report of Catastrophic Iatrogenic Cerebral Venous Air Embolism Complicating Hemodialysis Catheter Access**
- P554 Cardiovascular Collapse Shortly After Beta Blockers in Atrial Fibrillation-complicated Thyroid Storm**
- P555 Central Venous Trouble: Central Line Causing Arrhythmia**
- P556 Save a Limb: Potential Utility of Empiric Plasmapheresis for Recurrent Brachial Artery Thrombosis and Acute Limb Ischemia Following Left Heart Catheterization**
- P557 Utility of Urokinase Administration in the Management of a Hyperechoic Structure in the Left Atrial Chamber After Bilateral Lung Transplantation**
- P558 Post-Pacemaker Induced Cardiac Tamponade**
- P559 Atypical Presentation of Post-pericardiotomy Syndrome**
- P560 Increased Coagulability With Nebulized TXA**
- P561 Cardiac Arrest: A Rare Complication of Chest Tube Placement**
- P562 A Rare Presentation of Local Anesthetic Systemic Toxicity**
- P563 A Life-threatening Bradyarrhythmia in the ICU: Beware of Phenytoin Loading!**
- P564 A Case of Keppra-Induced Torsades de Pointes in a Patient With Congenital Long QT Syndrome**
- P565 Under Pressure: Hyperbaric Oxygen Therapy and the Race for Neuroprognostication**
- P566 Post-Operative Outcomes of ARDS after VATS: The Seismic Shift in ARDS Clinical Practice Guidelines**
- P567 A Rare Cause of Acute Hypoxic Respiratory Failure After ST-Elevation Myocardial Infarction**
- P568 Down the Rabbit Hole: A Case of Tracheostomy Tube Dislodgement into the Pretracheal Space**

- P569 **When the Critical Illness Dominoes Fall, Unforeseen Events Post BRTO**
- P570 **A Case of ARDS With Reinke Edema Potentially Exacerbated by Large Endotracheal Tube and Prone Position**
- P571 **Real-World Administration of Dantrolene: Harder Than a Board Exam**
- P572 **Chylothorax: A Rare Complication After Single Chamber Implantable Cardioverter Defibrillator Extraction**
- P573 **Challenging Course of Advanced Pancreatic Adenocarcinoma**
- P574 **A Case of a Patient With IgE Mediated Idiopathic Chronic Urticaria and Angioedema Resulting in 74 Lifetime Intubations and Multiple Procedural Complications**
- P575 **Return of Spontaneous Circulation Following Decompression of Iatrogenic Tension Pneumoperitoneum: A Rare Complication Following Emergent Endotracheal Intubation**
- P576 **From Epi Rush to Multi-Organ Crush: A Case of Epinephrine Overdose and Organ Dysfunction**
- P1466 **Airway Sluething: A Novel Technique to Pinpoint and Tackle Persistent Air Leaks**
- P1467 **Autologous Blood Patch Pleurodesis for Secondary Pneumothoraces With Prolonged Air Leak**
- P1468 **Endobronchial Valve Placement for Persistent Bronchocutaneous Fistula in a Ventilator-Dependent Patient**
- P1469 **Another Use for EBV? A Case of Successful Placement for PAL**
- P1470 **Treatment of Recurrent Secondary Spontaneous Pneumothorax From Severe Bullous Emphysema With an Indwelling Tunneled Pleural Catheter**
- P1471 **Contralateral Pneumothorax Following Bronchoscopic Lung Volume Reduction (BLVR) With Endobronchial Valve Placement**
- P1472 **Paradoxical Effect of Bronchoscopic Lung Volume Reduction on Residual Volumes and Distance Ambulated**
- P1473 **A Pain in the Neck: A Case of Pneumothorax After Trigger Point Injections**
- P1474 **A Case of Re-expansion Pulmonary Edema in Subacute Large Pneumothorax From Bullous Lung Disease Associated With Habitual Marijuana Smoking**
- P1475 **Puff Puff Pop: A Persistent Pneumothorax in a Primary Marijuana Smoker**
- P1476 **A Diagnostically Challenging Case of Catamenial/Non-Endometriosis Spontaneous Pneumothorax**
- P1477 **Management of Catamenial Pneumothorax**
- P1478 **A Rare Case of Pneumodiastinum and Gram Negative Rod Bacteremia in a First Presentation of Diabetic Ketoacidosis**
- P1479 **A Baby Isn't the Only Surprise Here: Recurring Spontaneous Pneumothorax in Pregnancy**
- P1480 **Bronchopleural Fistula Treatment With Amplatzer Vascular Device**
- P1481 **Bloody Breathtaking - A Case of Recurrent Asymptomatic Catamenial Pneumothorax**
- P1482 **A Menstrual Cycle of Recurrent Pneumothorax**
- P1483 **Spontaneous Pneumoperitoneum and Pneumomediastinum Without Perforation**

CLINICAL**THEMATIC POSTER SESSION****B45 AIR THAT SHOULDN'T BE THERE: PNEUMOTHORACES, AIR LEAKS AND MUCH MORE**

9:15 a.m. - 4:15 p.m. **San Diego Convention Center**
Area L (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1463 **Treatment of a Complex Bronchopleural Fistula Using an Endobronchial Valve**
- P1464 **Will It Stick? A Case Report of Bronchopleural Fistula Treated With Fibrin Glue**
- P1465 **Sealing the Deal: Bronchoscopic PEG-HSA Hydrogel in Persistent Air Leaks**

- P1484 Pleuro-subcutaneous Fistula: A Complication of Chest Wall Trauma
- P1485 Hamman Syndrome With Rare Feature of Pneumorrhachis - An Unusual Complication of Polysubstance Abuse and E-vaping
- P1486 Pneumomediastinum: A Rare Complication of Dental Extraction

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

B46 UP AND COMING: ILD BIOMARKERS

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area K (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1182 High Density Lipoproteins, Disease Severity and Clinical Outcomes in Idiopathic Pulmonary Fibrosis
- P1183 Development of a Multi-biomarker Assay for Serum Proteins by the Prognostic Lung Fibrosis Consortium (PROLIFIC)
- P1184 Mast-cell Expressed Membrane Protein-1 (MCEMP1) Is Detected in Plasma and Predicts Outcomes in Patients With Idiopathic Pulmonary Fibrosis and Progressive Pulmonary Fibrosis
- P1185 Use of Biomarkers Can Predict Treatment Response in Connective Tissue-related Interstitial Lung Disease
- P1186 Clinical Significance of Serum Syndecan-4 in Patients With Drug-induced Interstitial Lung Disease
- P1187 Characteristics of Pulmonary Sarcoidosis Patients With Elevated Soluble Interleukin-2 Levels
- P1188 Urine TSC2 Mutation and Treatment Response in Sporadic Lymphangiomyomatosis: A Prospective Cohort Study
- P1189 The Causal Relationship Between Gut Microbiota and Idiopathic Pulmonary Fibrosis: A Two-sample Mendelian Randomization Study
- P1190 Time-course Changes in Serum Surfactant Protein-D Levels Before and After Acute Exacerbation in Idiopathic Pulmonary Fibrosis
- P1191 Idiopathic Pulmonary Fibrosis Patients: Clinical Usefulness of KL-6 Levels at Baseline and Follow-up
- P1192 Standardisation of BAL Cell Fraction Assessment Using AI Models
- P1193 Starship: Study of Telomeres and Role of Sex Hormones in Pulmonary Fibrosis
- P1194 Telomere Shortening in Patients With Familial Fibrotic Hypersensitivity Pneumonitis
- P1195 Accelerating Diagnosis, Management, and Treatment of Pulmonary Fibrosis and Telomere Biology Disorders: Publication and Dissemination of Diagnosis and Management Guidelines
- P1196 Association Between Pulmonary Function Test and Deep Learning Quantitative Lung Fibrosis Score in Subjects With Interstitial Lung Diseases
- P1197 3D-CT Assessment of Normal Upper-lobe Lung Volume in Patients With Idiopathic Pleuroparenchymal Fibroelastosis
- P1198 Automated AI Detection of Clinical Interstitial Lung Disease by CT in the COPDGene Trial
- P1199 Artificial Intelligence-based Quantitation of CT Patterns and Its Clinical Impacts in Patients With Idiopathic Pleuroparenchymal Fibroelastosis
- P1200 Cyst Volume and Number Determined by Semi-automated Analysis and Artificial Intelligence (AI) in Diffuse Cystic Lung Diseases
- P1201 Using Imaging to Predict, Identify, and Monitor Progression of Interstitial Lung Disease: Consensus Findings From a Modified Delphi Study
- P1202 Endobronchial Optical Coherence Tomography Imaging Detects Micro-progression as a Novel Method for Monitoring Disease Progression in IPF
- P1203 A Specific Elastin Peptide Degraded by Proteinase-3 (ELP-3) Is a Serological Biomarker to Distinguish Fibrotic From Non-fibrotic Hypersensitivity Pneumonitis

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

B47 LUNG TRANSPLANT

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area K (Hall H, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1205 Do Eosinophils Predict Mortality? A Case Series of Lung Transplant Recipients With Acute Fibrinous Organizing Pneumonia**
- P1206 Transplant Outcomes for Patients With Connective Tissue Disease-related Interstitial Lung Disease**
- P1207 The Hispanic Paradox in Lung Transplant Outcomes: Disentangling the Roles of Primary Diagnosis, Monitoring Period, Age, and Era**
- P1208 Impact of Transplant Laterality on Chronic Lung Allograft Dysfunction**
- P1209 Cumulative Incidence of Chronic Lung Allograft Dysfunction in Lung Transplant Recipients With a Repeated 10% FEV1 Decline**
- P1210 Outcome of Bridging to Lung Transplantation With Mechanical Ventilation or Extracorporeal Membrane Oxygenation**
- P1211 Predictors of Survival and Clinical Outcomes Among Lung Transplant Recipients Who Require Venovenous Extracorporeal Membrane Oxygenation in the Post-transplant Period**
- P1212 The Impact of Changes in Weight on Pulmonary Function Post-lung Transplantation**
- P1213 Accuracy of Chronic Lung Allograft Dysfunction (CLAD) Identification and Phenotyping by Computed Tomography Using a Novel Machine Learning Algorithm**
- P1214 Clinical Characteristics and Outcomes of Lung Transplant Recipients Receiving Extracorporeal Photopheresis (ECP) for Chronic Allograft Dysfunction (CLAD)**
- P1215 Respiratory Viral Infections and Diagnosis of Bronchiolitis Obliterans Syndrome After Allogeneic Hematopoietic Cell Transplant**
- P1216 Evolving Trends in Underlying Etiologies for Lung Transplantation, Overall Survival, but Not in Freedom From CLAD-BOS**
- P1217 Radiology and Pathology Features in Short Telomere Patients With Interstitial Lung Disease Undergoing Transplant**
- P1218 Data Driven Lung Function Trajectories Post-Transplantation Illuminate Modifiable Risk Factors**
- P1219 Navigating Airway Challenges After Lung Transplantation**
- P1220 Risk Factors for Development of Venous Thromboembolism After Lung Transplant**
- P1221 Oropharyngeal Dysphagia in Patients With Lung Transplant: A Modifiable Risk Factor**
- P1222 Preoperative Anemia as a Risk Factor for Post Operative Outcomes in Patients Undergoing Lung Transplant**
- P1223 Safety and Tolerability of SGLT-2 Inhibitors Following Lung Transplantation**
- P1224 Comparing Lung Allocation Scores and Wait List Duration of Transplanted Patients With Interstitial Lung Disease Referred From Specialty and Community Settings**
- P1225 Early Versus Late Tracheostomy in Post-operative Lung Transplant Recipients**
- P1226 A Pilot Study to Determine Outcomes in Lung Transplant Recipients Using Sodium-Glucose Cotransporter-2 (SGLT2) Inhibitors**
- P1227 The Prevalence and Evaluation of Anemia in Lung Transplant Recipients: A Single Center Experience**
- P1228 Mycophenolate-induced Colitis in Lung Transplant Recipients**
- P1229 Predictive Biomarkers of VTE in Patients After Lung Transplantation**
- P1230 Belatacept Use for Renal-sparing Immunosuppression in Lung Transplant**

- P1231 Prognostic Factors and Outcomes in Lung Transplantation in Interstitial Lung Diseases: Real-world Data From Lung Transplant- and European ILD Registry (eurlDreg)
- P1232 A Case Series Describing Response to Rabbit Anti-thymocyte Globulin for the Treatment of Bronchiolitis Obliterans Syndrome in Patients With Chronic Lung Allograft Dysfunction
- P1233 Pulmonary Embolism Following Lung Transplantation: A Single-Center, Descriptive Review
- P1234 Differentiation Between Benign and Non-benign Pneumatoxis Intestinalis After Lung Transplantation: A Single-center Retrospective Study
- P1235 Analysis of Waitlist Performance and Post-transplant Outcome of Lung Transplant in the Elderly in Korea: A Nationwide Cohort Study
- P1236 Impact of Augmented Immunosuppression on Survival and Infections in Lung Transplant Recipients

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

B48 NEW TREATMENTS IN DIFFUSE PARENCHYMAL LUNG DISEASE

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area K (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1238 Antifibrotic Dosing Patterns in Patients With Idiopathic Pulmonary Fibrosis in Real-World Data Sources
- P1239 Single-Agent Oral Therapy of Granulomatous-Lymphocytic Interstitial Lung Disease: A Case Series
- P1240 The Impact of Frailty on Prescribing Patterns and Medication Tolerability in Patients With Fibrotic Interstitial Lung Disease
- P1241 The Risk of Drug-induced Liver Injury in Patients With Pulmonary Fibrosis Received Pirfenidone and Nintedanib in Taiwan

- P1242 Safety and Efficacy of Inhaled Pirfenidone (AP01) in the Atlas Open-label Extension Study
- P1243 The INREAL Study: A Real-World Evaluation of Nintedanib for Changes in Dyspnea and Cough in Chronic PF-ILD Patients
- P1244 Inhaled Pirfenidone Reduces the Risk of Disease Progression: A Post-hoc Analysis of the Atlas Study
- P1245 Rapid Antibody Depletion: A Novel Therapeutic Approach for Acute Exacerbation of Interstitial Lung Disease
- P1246 A Decade of Nintedanib: An Analysis of the FDA Adverse Event Reporting System Database
- P1247 Tolerance and Efficacy of Dry Powder Inhaler Treprostinil in Pulmonary Hypertension Associated With Interstitial Lung Disease
- P1248 Interim Analysis of Human Autologous Lung Stem Cell Transplant for Idiopathic Pulmonary Fibrosis (HALT-IPF): A First-in-Human, Phase 1, Randomized Controlled, Open-label Trial
- P1249 Pulmonary Vasodilator Therapy in Idiopathic Pulmonary Fibrosis Associated Pulmonary Hypertension
- P1250 Disparities in Oxygen Initiation for Interstitial Lung Disease in Canada
- P1251 Differences in E-lung Biomarker Scores Between Treatment Groups in Post-hoc Analysis of the ATLAS Inhaled Pirfenidone Solution (AP01) for IPF Clinical Trial
- P1252 Lymphangioliomyomatosis - Long Term Results of Sirolimus Treatment
- P1253 The Safety and Efficacy of Nintedanib at Various Doses in Idiopathic Pulmonary Fibrosis: A Retrospective Study
- P1254 A Retrospective Review of Which Agents Controlled Hypercalcemia in a Sarcoidosis Population at a Quaternary Referral Center
- P1255 Referral of Czech Patients With Idiopathic Pulmonary Fibrosis to a Transplant Center: Data From the Empire Registry
- P1256 Duration of Effectiveness of Antifibrotic Therapies in Patients With Idiopathic Pulmonary Fibrosis
- P1257 Radiographic Pattern of Myositis-associated ILD and Predicting Response to Therapy

- P1258 **Striving for Patient-Centered Care: Interim Analysis of Feasibility and Adherence to the European ILD Registry Algorithm for Self Assessment (eurILDreg ASA)**
- P1259 **TETON Phase 3 Clinical Trials of Inhaled Treprostinil in the Treatment of Idiopathic Pulmonary Fibrosis: Annual Update of Preliminary Baseline Data**
- P1260 **Study Design and Rationale for the TETON-PPF Clinical Trial of Inhaled Treprostinil for the Treatment of Progressive Pulmonary Fibrosis**
- P1261 **Analysis of Early Intervention of Nintedanib After Antiinflammatory Treatment in Patients With Non-idiopathic Pulmonary Fibrosis Fibrotic Interstitial Lung Disease: A Single Center Retrospective Study in Japan**
- P1262 **Effects of Antifibrotic Therapy in the Real-world Progressive Pulmonary Fibrosis**
- P1263 **Tolerance Assessment of Nintedanib by Underlying Disease: A Retrospective Analysis at a Single Center**
- P1264 **Crafting a Patient-focused Phase 2b Trial (ASPIRE) to Evaluate Efficacy and Safety of Buloxibutid in Individuals With Idiopathic Pulmonary Fibrosis (IPF)**
- P1265 **Does Metformin Influence Clinically Relevant Outcomes in IPF?**
- P1266 **Use of Steroid Drugs in Fibrosing Interstitial Lung Diseases - A Modified Delphi Survey**
- P1269 **The Utility of Cardiopulmonary Exercise Testing in Diagnosing Dyspnea of Unclear Etiology**
- P1270 **The Impact of Age on Adequate Performance and Results in Cardiopulmonary Exercise Testing**
- P1271 **Concordance Between Measured and Calculated Maximum Voluntary Ventilation**
- P1272 **Assessing Post-COVID-19 Lung Function: A Comprehensive Comparison of HRCT Ventilation Analysis and PFTs in Healthy, Active Individuals**
- P1273 **Point-of-Care Ultrasound Contribution for Management of Patients With Acute Dyspnea in the Prehospital Setting: A Systematic Review**
- P1274 **Sex-differences in Dyspnea Descriptors in Respiratory Outpatients**
- P1275 **Hemoglobin Levels and Their Correlation With Oxygen Uptake and Gas Exchange Parameters During Exercise: Insights From a Retrospective Study**
- P1276 **The Effectiveness of Poster Intervention on Oxygen Target Saturation Prescription in a Secondary Care Setting in Glasgow, United Kingdom**
- P1277 **Reduced Catecholamine Levels in Patients With Obesity: Exploring the BMI-Catecholamine Link in Unexplained Dyspnea**
- P1278 **Pulmonary Symptoms in Post-acute Sequelae of COVID-19 (PASC) Patients With Multiple COVID Infections**
- P1279 **Crisis Averted: A Myasthenia Journey**
- P1280 **Analysis of Cough Characteristics in Chronic Respiratory Diseases**
- P1281 **Obstructive Sleep Apnea and Chronic Cough: Is There Really a Link?**
- P1282 **Silent Threats From the Desert: Chronic Cough as the Manifestation of Undiagnosed Coccidioidomycosis**
- P1283 **Real World Experience of Gefapixant Prescribing**
- P1284 **Breathlessness Relieved by Employing Medical Air Titrated by Hospitalized Patients (BREATH) Randomized Clinical Trial**
- P1285 **The Alveolar Gas Monitor Outperforms Pulse Oximetry in Predicting Respiratory Deterioration Among Acutely Dyspneic Individuals**

CLINICAL

THEMATIC POSTER SESSION

B49 RESEARCH STUDIES IN DYSPNEA AND COUGH

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area K (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

P1268 Safety of Cardiopulmonary Exercise Testing in Patients With Dyspnea of Unclear Etiology

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

B50 EMERGING RESEARCH IN ALPHA-1-ANTITRYPSIN DEFICIENCY

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area K (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1287 SERPINA1 Gene Polymorphism: Analysis of Patients Over 2 Years
- P1288 Alpha-1 Research Registry: Comparison of Characteristics of Augmented Versus Non-Augmented Patients With Alpha-1 Antitrypsin Deficiency in the United States
- P1289 Long-term Follow-up of Pi*ZZ Alpha-1 Antitrypsin Deficient Patients Receiving Intravenous Alpha-1 Antitrypsin Augmentation Therapy
- P1290 Family Screening in ZZ Alpha-1 Antitrypsin Deficiency - Exposing the Hidden Burden of Liver Disease
- P1291 Longitudinal SF-36 Physical and Mental Health Trajectories in Alpha-1 Antitrypsin Deficiency-associated Lung Disease
- P1292 Characteristics Associated With SF-36 in Alpha-1 Antitrypsin Deficiency-related Lung Disease: A Cross-sectional Analysis
- P1293 Alpha-1 Anti-Trypsin Carrier Genotype and the Risk of COPD Exacerbations: A Methodological Abstract
- P1294 Bronchiectasis and Disease Progression in Alpha-1 Antitrypsin Deficiency
- P1295 Optimizing Bronchoalveolar Lavage in Chronic Obstructive Pulmonary Disease and Alpha-1 Antitrypsin Deficiency
- P1296 Effectiveness of Bronchoscopic Lung Volume Reduction With Zephyr Endobronchial Valves in Alpha-1 Antitrypsin Deficient Chronic Obstructive Pulmonary Disease Patients Versus Chronic Obstructive Pulmonary Disease Patients Without Alpha-1 Antitrypsin Deficiency: A Matched Case-control Study

- P1297 Cortisol on the Clock: Systemic Circadian Disruption in Severe Alpha-1 Antitrypsin Deficiency
- P1298 Primary Spontaneous Pneumothorax as a Clinical Manifestation of Alpha-1 Antitrypsin Deficiency
- P1299 KRRO-110, An RNA Editing Oligonucleotide Encapsulated in a Lipid Nanoparticle (LNP) Delivered to Liver Cells for the Treatment of Alpha-1 Antitrypsin Deficiency (AATD)

CLINICAL

THEMATIC POSTER SESSION

B51 LEVERAGING ADMINISTRATIVE AND LARGE DATASETS TO UNDERSTAND COPD EPIDEMIOLOGY

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P578 Identifying Clinical Predictors of Chronic Hypercapnia in Patients With Chronic Obstructive Pulmonary Disease
- P579 Identification of Sleep Phenotypes in COPD Using Machine Learning-based Cluster Analysis
- P580 Embedded Electronic Health Record Algorithm Predicts COPD
- P581 Development of a Curated Pulmonary Datamart and Application to Identify Patients With COPD and Asthma With Serologic Criteria for Targeted Biologic Therapy
- P582 Clinical Phenotype and Modifiable Factors Associated With Bronchodilator Response in Patients With Chronic Obstructive Pulmonary Disease in Primary Care
- P583 Clinical and Economic Burden of COPD in Patients Poorly Controlled on LABA/LAMA or Inhaled Triple Therapy in Germany - A Retrospective Claims Data Analysis

- P584 A 3-year Descriptive Assessment of Exacerbations and Double/Triple Inhaler Use Among Chronic Obstructive Pulmonary Disease (COPD) Patients in the United States (US)
- P585 Characterization of Chronic Obstructive Pulmonary Disease (COPD) in the United States
- P586 Diagnostic Discordance of Chronic Obstructive Pulmonary Disease (COPD) in Veterans at the West Palm Beach Veterans Affairs Medical Center
- P587 The Impact of Hospital Academic Status on Morbidity and Mortality for Patients With Chronic Obstructive Pulmonary Disease in the United States: Insights From a Two-year Analysis of the National Inpatient Sample
- P588 The Effect of Inhaler Medications on the Development of Respiratory Tract Cancers in COPD: A Nationwide Population-based Study
- P589 Twenty-year Trends in Excess Costs of Chronic Obstructive Pulmonary Disease
- P617 Determining Eligibility for Bronchoscopic Lung Volume Reduction: Results From the Cleveland Clinic Multidisciplinary Evaluation Team
- P618 A Review of Institutional Auto-Substitution Policy in the Management Chronic Obstructive Pulmonary Disease Patients
- P619 Adherence to the Guideline Recommendations in Chronic Obstructive Pulmonary Disease (COPD) Management of South Korea
- P620 Impact of Biologics in Patients With COPD and ACOS: A Real-world, Single-center Review of Factors Associated With Greater Reduction in Exacerbation Frequency
- P621 Dupilumab Increases the Proportion of Patients With Fractional Exhaled Nitric Oxide Levels \geq ppb Over Time in Patients With Moderate-to-Severe Chronic Obstructive Pulmonary Disease and Type 2 Inflammation: From Phase 3 Boreas
- P622 Effectiveness of Budesonide/Glycopyrrolate/Formoterol Fumarate in Chinese Patients With Chronic Obstructive Pulmonary Disease
- P623 Is Tiotropium Maintenance Therapy Necessary for All Patients With Mild to Moderate Chronic Obstructive Pulmonary Disease? The Proportion, Clinical Characteristics, and Impact Factors of Patients With a Nonrapid Decline in FEV1
- P624 Ensifentrine, A Novel, Selective Inhibitor of PDE3 and PDE4, Reduced Moderate/Severe Exacerbation Rate and Risk in Subjects With COPD Regardless of Baseline Blood Eosinophils
- P625 Ensifentrine Added on to LABA/ICS Therapy Improved Lung Function and Reduced Exacerbations in Symptomatic Subjects With Moderate-to-Severe COPD
- P626 Reduced Risk of Mortality for COPD Patients Associated with Initiation of Treatment with Single Inhaler Triple Therapy (Budesonide/Glycopyrrolate/Formoterol) Versus Multiple Inhaler Triple Therapy in the United States: The MAZI Study
- P627 Ivacaftor for Chronic Obstructive Pulmonary Disease- Results From a Phase 2, Randomized Controlled Trial

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

B52 EVIDENCE FOR THERAPEUTIC STRATEGIES IN COPD: FROM ESTABLISHED TO EMERGING

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P614 An International Survey of Noninvasive Ventilation (NIV) Use for Acute Respiratory Failure: A Follow Up Survey
- P615 Home Respiratory Strategies in COPD Patients With Chronic Hypercapnic Respiratory Failure: A Systematic Review and Network Meta-analysis
- P616 Bronchoscopic Lung Volume Reduction With Endobronchial Zephyr Valves; A Systematic Review and Meta-analysis

- P628 Systemic Exposure Bioequivalence of Budesonide/Glycopyrrolate/Formoterol Fumarate With the Potential Next Generation Propellant Hydrofluoroolefin-1234ze Versus Hydrofluoroalkane-134a in Healthy Adults
- P629 Risks of Long-Term Inhaled Corticosteroid Use in COPD Management and Need to Assess Benefits Versus Risks
- P630 Can Patients With COPD Achieve and Maintain Disease Stability With Single-Inhaler Triple Therapy Fluticasone Furoate/Umeclidinium/Vilanterol Versus Dual Therapy Budesonide/Formoterol: A FULFIL Post Hoc Analysis
- P631 Targeted Lung Denervation in COPD: 2-year Follow-up of the Airflow-3 Open-label Treatment Cohort
- P334 Fibrotic Cystic Lung Disease With Pulmonary Interstitial Cholesterol Granulomas (PICG) in Marfan Syndrome Associated Interstitial Lung Disease: A Case Report
- P335 A Rare Cause of Polycystic Lung Disease: Birt-Hogg-Dubé Syndrome
- P336 Erdheim-Chester Disease: A Case Report of Pulmonary and Vascular Involvement
- P337 Pulmonary Lymphangiomyomatosis Presenting as Pneumothorax in a Patient With Renal Angiomyolipoma: A Case Report
- P338 A Rare Case of Lymphangiomyomatosis Causing Spontaneous Pneumothorax in a Middle Aged Female
- P339 Cystic Lung Disease in a Postmenopausal Woman: A Case With Diagnostic Challenges

CLINICAL

THEMATIC POSTER SESSION

B53 CASE REPORTS IN CYSTIC LUNG DISEASE

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P329 Chronic Bronchopulmonary Aspergillosis in the Setting of Lymphangiomyomatosis: A Rare Entity
- P330 Lymphangiomyomatosis: A Unique Approach When Tissue Is the Issue
- P331 A Case of Amyloid-associated Cystic Lung Disease
- P332 Screening for Lymphangiomyomatosis in a Case of a Young, Female, Nonsmoker With Recurrent Pneumothoraces
- P333 Spontaneous Pneumothorax Reveals Lymphangiomyomatosis in a Case of Gravid Uterus
- P340 Case Report of Pulmonary Lymphangiomyomatosis Presenting as Bilateral Spontaneous Pneumothorax
- P341 Bilateral Spontaneous Pneumothoraces in a 25 Year Old Female
- P342 If at First You Don't Succeed, Pleurodesis: A Case of Recurrent Pneumothorax in a Patient With Birt-Hogg-Dube Syndrome
- P343 Lymphangiomyomatosis Presenting as Recurrent Pneumothorax in a Pregnant Woman
- P344 Lymphangiomyomatosis; Less Rare Than Previously Reported?
- P345 Not Quite LAM?
- P346 Incidence of mTOR Inhibitor Use in Lymphangiomyomatosis: Retrospective Review of a Large Tertiary Referral Center
- P347 Management of Refractory Spontaneous Pneumothorax in a Patient With Lymphangiomyomatosis
- P348 When a Switch of Perspective Makes the Difference: Incidental Diagnosis of Sporadic Lymphangiomyomatosis
- P349 An Unusual Case of Sporadic Lymphangiomyomatosis (S-LAM) in an Elderly Female
- P350 A Lamentful Duo: Extrapulmonary Lymphangiomyomatosis Complicated by Sepsis

- P351 Up in Smoke: Unraveling the Mystery of Cystic Lung Disease in Marijuana Enthusiasts
- P352 Birt-Hogg Dube (BHD), A Rare Autosomal Dominant Disorder With Pulmonary Complications

CLINICAL

THEMATIC POSTER SESSION

B54 CASE REPORTS IN ONCOLOGIC TREATMENT-RELATED LUNG DISEASE

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P354 Folfox Chemotherapy Induced Lung Fibrosis and Bilateral Pneumothoraxes
- P355 A Case of Pomalidomide Induced Acute Eosinophilic Pneumonia
- P356 An Original Occurrence of Organizing Pneumonia From Obinutuzumab
- P357 Y-90 Radioembolization Induced Pulmonary Toxicity
- P358 A Case of Drug-Induced Pneumonitis From Trastuzumab-Deruxtecán for Metastatic Breast Cancer Refractory to High-Dose Steroids and Intravenous Immunoglobulin
- P359 Durvalumab Induced Pneumonitis: A Case Report
- P360 Rapidly Progressive Pneumonitis Days After Receiving Tivdak: A New Antibody-Drug Conjugate
- P361 FOLFOX Induced Interstitial Lung Disease
- P362 A Patient With Metastatic Uterine Carcinosarcoma With Presumed Pneumonitis Secondary to Investigational Drug Db-1303, an Antibody-Drug Conjugate Comprised of Anti-HER2 Monoclonal Antibody Linked to a DNA Topoisomerase I Inhibitor
- P363 A Cavitory Lung Lesion Secondary to Idiopathic Hypereosinophilic Syndrome Treated With Mepolizumab: A Case Report

- P364 Immune-Checkpoint Inhibitor-Related Eosinophilic Pneumonia
- P365 Ocrelizumab Induced Organizing Pneumonia: A Case Report
- P366 Multiplying Cellular Injury, Drug-induced Pneumonitis From Mirvetuximab Soravtansine
- P367 On the Rise: Keep an Eye Out for Pembrolizumab Induced Lung Toxicity
- P368 Organizing Fibrinopurulent Pleuritis in a Patient on Ibrutinib for Chronic Lymphocytic Leukemia
- P369 Dupilumab-Induced Hyper-Eosinophilia: A Call for Treatment Guideline

BEHAVIORAL • CLINICAL

THEMATIC POSTER SESSION

B55 EXPLORING LUNG HEALTH ACROSS POPULATIONS

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area C (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P224 Mortality From Non-Malignant Respiratory Diseases Among Dentists in the United States During 1979-2018
- P225 Variation in Race/Ethnicity-specific COVID-19 Vaccine Uptake by Occupation
- P226 The Association Between Employment in Coal Mining and History of Injury, Chronic Pain, and Prescription Opioid Use
- P227 Association Between Chronic Respiratory Symptoms and Pulmonary Function Following Deployment to Afghanistan and Iraq Among United States Veterans
- P228 The Digital Health Landscape in a Scottish National Pulmonary Hypertension Population
- P229 Obstructive Sleep Apnea, Excessive Daytime Sleepiness, and Its Association With Road Traffic Accidents Among Nigerian Truck Drivers

- P230 Effectiveness of the Star Program Year-long Curriculum in Inducing Changes in Career Pathways Towards Tobacco Advocacy and Research
- P231 Success of Targeted Advertising to Recruit Populations Disproportionately Affected by Tobacco to the Star Program
- P232 Nationwide Tuberculosis Screening in the Homeless Population of South Korea
- P233 Factors Associated With Non-vaccination in Patients With Pulmonary Disease Receiving Specialty Care
- P234 Pharmacologic Interventions After Reporting of Incidental Coronary Artery Calcification During Low-dose Computed Tomography Lung Cancer Screening
- P235 Demographics and Baseline Characteristics of Patients Undergoing Low-Dose Computed Tomography Lung Cancer Screening: A Descriptive Analysis
- P236 Age-related Distributions of Incidentally Discovered Coronary Artery Calcification Grading Among Low-dose Computed Tomography Lung Cancer Screening Cohort
- P237 The National Burden of Lung Cancer in the United States by Age and Sex From 2000 to 2020: Results From the CDC Wonder Database
- P238 Health Significance of the COVID-19 Pandemic for Patients With Primary Ciliary Dyskinesia
- P239 The Clinical and Socioeconomic Burden of Bronchiectasis: Results of a Systematic Literature Review
- P240 Human Papilloma Virus Infection and Its Potential Association With Cardiovascular Disease: A Systematic Review and Meta-analysis
- P241 Incidence and Risk Factors Leading to Stress Test and Coronary Intervention in the Patient Presenting With Atrial Fibrillation in the ED
- P242 Dyspnea in Adults With Undiagnosed Respiratory Symptoms
- P243 Risk Factors of Underserved Predominantly African American Women Veterans in Chicago, Illinois to Develop Post-acute Sequelae of COVID-19
- P244 Incidental Findings on Chest CT in Healthy Young Adults
- P245 Burden of Severe Respiratory Syncytial Virus Infection in Adults: A Systematic Literature Review in Hospitalized Adults Aged 16-49 Years
- P246 Tailoring Household Disaster Preparedness Interventions to Reduce Health Disparities: Nursing Implications From AI Model Feature Importance
- P247 Hypersensitivity Pneumonitis Due to Domestic Exposure to Foam and Bamboo in Bedding and Other Sources - Microbiologic Analyses
- P248 The Impact of Occupational Exposures on the Risk of Lung Cancer Recurrence and Progression
- P249 The Impact of Disparities In Healthcare Resources Inequalities Among Patients With Pulmonary Embolism
- P250 Machine Learning Optimization: Defining Exposome-Metabolome Associated Aerodigestive Disease
- P251 An Estimate of the Prevalence of Obstructive Sleep Apnea in the United States into 2050
- P252 Understanding Racial Disparities: Hospitalization and Mortality in Chronic Lung Diseases and COVID-19 Patients
- P253 Poorer Social Determinant of Health Measures Are Associated With Lower Lung Function Trajectories
- P254 Endotoxin Exposure Associated With Respiratory Health Among European Schoolchildren: The Sinfonie Study

BEHAVIORAL • CLINICAL • TRANSLATIONAL
THEMATIC POSTER SESSION
B56 VGDF: HAZARDS, EXPOSURE ASSESSMENT, AND HEALTH EFFECTS FROM WILDFIRES, BURN PITS, AIR POLLUTION
9:15 a.m. - 4:15 p.m.
San Diego Convention Center
Area C (Hall A-B2, Ground Level)
Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P256 Evaluation of Waste Anesthetic Gas Exposure at a Veterinary Hospital
- P257 Spatial Variation in Soil and Plants Pollution in and Around an Electronic Waste Dump Site in Nigeria
- P258 Persistent Organic Pollutants in Soil From an Informal E-waste Recycling Site in Lagos, Nigeria: Findings and Implications for Human Health
- P259 Physico-chemical Quality of Ground and Surface Water Samples Around the Waste Dumpsite in Alaba International Market, Lagos, Nigeria
- P260 Quantification of Exposure to Pm2.5-bound Metals and Cognitive Function in Nigerian Children
- P261 Residential Wood Burning Deteriorates Lung Psychometric Measurements in a Mountain West Multi-site Panel Study
- P262 A Qualitative Analysis of Perceptions and Awareness of Air Pollution and Its Health Effects in Asthma Among Asthma-care Professionals Across Southern California
- P263 Association Between Air Pollution and Adverse Outcomes in Patients With Idiopathic Pulmonary Fibrosis: A Systematic Review
- P264 Individual Air Quality Monitoring in Sarcoidosis: A Feasibility Study
- P265 Impact of Residential Air Pollution Exposure on Pulmonary Function in Sarcoidosis: A Retrospective Review
- P266 Electrostatic Dust Collector (EDC) Sampler for Assessment of Environmental Risk Factors for Pulmonary Sarcoidosis
- P267 How to Confirm Occupational Sarcoidosis Diagnosis? A Case Series Study
- P268 Analysis of Blinding Effectiveness in Controlled Human Exposure Studies
- P269 Effects of Budesonide Nasal Spray on Diesel Exhaust- and Allergen-induced Nasal Cytokine Release in Patients With Allergic Rhinitis
- P270 The Flight-related Carbon Footprint of the Pan-african Thoracic Society (PATS) Methods in Epidemiologic, Clinical, and Organizational Research (MECOR) Course 2023
- P271 Pilot Study to Assess the Ability of the Szema Burn Pit Respiratory Questionnaire (BPRQ)c to Predict St. George's Respiratory Questionnaire Scores
- P272 Pilot Study to Assess the Ability of the Szema Burn Pit Respiratory Questionnaire (BPRQ)c to Predict SF-36 Health Scores
- P273 Correlation Between Pittsburgh Sleep Quality Index Scores and the Szema Burn Pit Respiratory Questionnaire (BPRQ)c Among Veterans Exposed to Burn Pits in Iraq and Afghanistan
- P274 Respiratory and Urological Symptoms Among Veterans Exposed to Burn Pits in Iraq and Afghanistan: Preliminary Analysis of Szema Burn Pit Respiratory Questionnaire (BPRQ)c and American Urological Association Symptom Index (AUA-SI) Scores
- P275 Pilot Study of Szema Burn Pit Respiratory Questionnaire (BPRQ)c: Results From a New York-based Veteran Cohort Exposed to Burn Pits in Iraq and Afghanistan
- P276 Environmental and Military Exposures Among Veterans and Their Association With Lung Cancer Histologic Subtypes
- P277 Dyspnea and Pulmonary Physiology of Blast-exposed Veterans From the Veterans Affairs Toxic Embedded Fragment Registry
- P278 Obstructive Lung Disease Among Veterans Enrolled in the Airborne Hazards and Open Burn Pit Registry (AHOBPR) Deployed to Joint Base Balad (JBB) and Iraq
- P279 Regional Ventilation Heterogeneity Among Veterans With Deployment Related Exposures
- P280 The Relationship of Deployment Exposures to Bronchiectasis in a Military Population
- P281 Exploring the Link Between Burn Pit Smoke Exposure and Excessive Daytime Sleepiness: Leveraging a Large National Cohort Using Natural Language Processing
- P282 Exploring the Complex Link Between Burn Pit Exposure and Obstructive Sleep Apnea Intensity: A Large National Retrospective Study
- P283 Aerodigestive Disease Risk Factors in Particulate Matter Exposed Firefighters

- P284 Performance Characteristics of the Aeroeclipse II Nebulizer Using a Lung Simulator
- P285 Pulmonary Function, Chronic Respiratory Symptoms, and Functional Limitation Among Veterans in the Airborne Hazards and Open Burn Pit Registry
- P286 Veterans With Deployment-Related Respiratory Disease Demonstrate High Prevalence of Reduced Exercise Capacity
- P287 An Exploratory Spatiotemporal Cluster Analysis of Sarcoidosis in Veterans Registered in the Airborne Hazards and Open Burn Pit Registry
- P288 Sexual Dimorphism in Pulmonary Immunity and Lung Cancer Susceptibility in Response to Environmental Respiratory Hazards
- P289 Peripheral Oxygen Saturation and Exhaled Breath Carbon Monoxide in Automobile Mechanics a Noninvasive Study
- P115 Heme-oxygenase-1 Is Attenuated in a High Fat Diet Obese Mouse Model of Particulate Matter Exposure
- P116 Inhaled Dust Exposure Alters Lymphocytes in a Sex-dependent Manner in a High Omega-3 Mouse Model
- P117 Accentuated Susceptibility to Lung Lymphocytosis From World Trade Center (WTC) Dust in Mice With Targeted Deletion of the Vasoactive Intestinal Peptide (VIP) Gene
- P118 Pulmonary Effects of PFOS and Smoking-related Metals Deposition in Human Lungs
- P119 ANO1 Expression and Mucus Hypersecretion in COPD Lung Airways
- P120 Citrullinated Proteins in Arsenic-Induced Small Airways Disease
- P121 DNA Methylome and Transcriptome Signatures of Sarcoidosis in Lung CD4+ T Cells
- P122 The Role of Airway Epithelial CD55 in Chronic Beryllium Disease
- P123 piR-713551/PIWIL4 Regulates H3K9me3 Modification of THBS2 Promoter to Develop the Pulmonary Fibrosis Induced by Carbon Black Exposure
- P124 Cadmium Exposure Induces Fibroblast-to-Myofibroblast Transition and Pulmonary Fibrosis
- P125 Administration of Dexmedetomidine Prior to Phosgene Exposure Improved Post-exposure Lung Function and Increased Survival
- P126 Phosgene-induced ARDS: Evaluation of Terbutaline in Large Swine Model
- P127 Targeting Integrin Beta 4 in Airway Epithelial Cells to Prevent Chemical-induced Bronchiolitis Obliterans
- P128 Mechanisms of Pro-inflammatory Responses to Simulated Vehicle Exhaust (SVE)

BASIC • TRANSLATIONAL**THEMATIC POSTER SESSION****B57 MECHANISTIC INSIGHTS IN ENVIRONMENTAL AND OCCUPATIONAL DISEASES**

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P111 Alveolar Macrophage Degranulation Initiates the Spatially Restricted Innate Immune Response During Ventilator-assisted Nanoparticle Inhalation
- P112 Inhibition of Pyruvate Carboxylase Attenuates Particulate Matter-induced Inflammation in Alveolar Macrophages
- P113 Polyvinylchloride and Polypropylene Microparticles Affect Outgrowth of Murine Lung Organoids
- P114 Proteomics Profiling of COPD in Dusty Areas

CLINICAL

THEMATIC POSTER SESSION

B58 WE ARE ON A MISSION (BEACH): HOT CASES IN PULMONARY HYPERTENSION

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area K (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1301 Changes in Cardiopulmonary Exercise Test Parameters in Response to Phosphodiesterase 5 Inhibitors (PD5i) In Patients With Mild Pulmonary Hypertension: Case Series
- P1302 The Right Restoration: Recovery of Right Heart Failure Based on Echocardiogram Evaluation With Cessation of Methamphetamine Use and Treatment, a Case Series
- P1303 Unique Presentation of Pulmonary Veno-occlusive Disease in Patient Whose Mother Had Familial Pulmonary Arterial Hypertension
- P1304 Improvement in PAH After Semaglutide-induced Weight Loss
- P1305 “Pop n’ Drop”: Two Cases of Recreational Amyl Nitrite Use Among Patients With Pulmonary Arterial Hypertension on Phosphodiesterase-5 Inhibitors Leading to Syncope
- P1306 Acute Right Ventricular Failure: More Than Meets the Eye
- P1307 Fibrosing Mediastinitis Resulting in Unilateral Pulmonary Artery Hypertension
- P1308 Pulmonary Hypertension Due to Unilateral Absence of Pulmonary Artery: A Series of 2 Cases
- P1309 Obstructive Pulmonary Hypertension Secondary to Pulmonary Artery Constriction From Aggressive Mediastinal Lymphoma
- P1310 Severe Pulmonary Hypertension With Acute Hypoxic Respiratory Failure Following Carfilzomib Administration for Refractory Multiple Myeloma
- P1311 Pulmonary Carcinoid Tumorlets in Pulmonary Hypertension Associated With Pulmonary Fibrosis
- P1312 Thyroid Troubles: A Case of Acute Heart Failure Due to Epoprostenol-Induced Thyrotoxicosis
- P1313 Distinguishing Dyspnea: Diffuse Alveolar Hemorrhage in Systemic Lupus Erythematosus-Associated Pulmonary Arterial Hypertension
- P1314 Pulmonary Capillary Hemangiomatosis Due to Mitomycin Therapy in a Patient Diagnosed With HIV-Related Pulmonary Arterial Hypertension
- P1315 Amyloidosis: An Uncommon Cause Pulmonary Hypertension
- P1316 Right Ventricular Failure Following Progression of Pulmonary Metastatic Burden in Primary Breast Cancer
- P1317 Rare Case of Pulmonary Hypertension Masquerading as Worsening Seizure Disorder
- P1318 Under Pressure: A Case of Systemic Capillary Leak Syndrome and Monoclonal Gammopathy of Undetermined Significance With Pulmonary Arterial Hypertension
- P1319 Pulmonary Arterial Hypertension as a Consequence of Graft Versus Host Disease
- P1320 Pulmonary Hypertension Secondary to Congenital Unilateral Absence of the Right Pulmonary Artery
- P1321 A Rare Case of Vitamin C Deficiency Causing Pulmonary Hypertension
- P1322 The Dark Side of Right Heart Catheterization: A Rare and Devastating Complication
- P1323 A Case of Symptomatic Chronic Thromboembolic Disease Treated With Pulmonary Thromboendarterectomy
- P1324 Intravenous Selexipag Uptitration for Decompensated Right Ventricular Failure in Pulmonary Arterial Hypertension: A Novel Approach
- P1325 A Case Series of Porto Pulmonary Htn With Hepatopulmonary Syndrome
- P1326 Platypnea-Orthodeoxia: A Case of Possible Portopulmonary Hypertension Complicated by Atrial Septal Defect (ASD)

- P1327 Pulmonary Veno-Occlusive Disease in a Patient Without Clear Risk Factors: A Case Report
- P1328 Maintaining Hemodynamic Stability by Preserving Severe Pulmonary Hypertension in Setting of Large Pericardial Effusion
- P1329 Learning in the Catheterisation Laboratory: How Experience of Right Heart Catheterisation Can Improve Trainees Understanding of Pulmonary Hypertension
- P1330 An Unusual Case of Severe Precapillary Pulmonary Hypertension and Pulmonary Alveolar Proteinosis
- P1331 Unmasking Pressures: A Case of Pulmonary Hypertension in a Patient With Aortic Coarctation and Recurrent Aortic Valve Surgeries
- P1332 Possible Methotrexate Induced Pulmonary Hypertension in a Patient With Crohn's Disease
- P1333 Shunt's the Matter?
- P1334 The Silent Progression: From Autoimmune Hepatitis to Life-Threatening Pulmonary Hypertension
- P1335 From Underestimated Echocardiographic Pulmonary Artery Pressure to Fatal Pulmonary Hypertension: A Diagnostic Challenge
- P1336 Tadalafil Improves Exercise Induced Pulmonary Arterial Hypertension in a Patient With Chronic Altitude-Related Illness
- P130 Clinical, Hemodynamic, and Genetic Characteristics of Human Immunodeficiency Virus Associated Pulmonary Arterial Hypertension: A Retrospective Analysis of the National Biological Sample and Data Repository for Pulmonary Arterial Hypertension
- P131 Representativeness of Clinical Trial Criteria in the Real World Pulmonary Arterial Hypertension (PAH)
- P132 Survival Among US Veterans With Pulmonary Hypertension Between 2003-2015 Based on Hemodynamic Profile
- P133 Racial Disparities in Hospitalization for Group 1 Pulmonary Arterial Hypertension: A Nationwide Analysis
- P134 Association of Race With Outcomes in Patients With Acute Pulmonary Embolism Requiring Interhospital Transfer: A Retrospective, Observational Study
- P135 Race Is Not Associated With Survival in a Large Cohort of US Veterans Diagnosed With Pulmonary Hypertension Between 2003-2015
- P136 Disparity in Pulmonary Embolism Outcomes Amongst Asians
- P137 Sex-Based Differences in Acute Pulmonary Embolism Severity
- P138 History of Adverse Pregnancy Outcomes in Women With Pulmonary Arterial Hypertension: A Single Center Pilot Study
- P139 Morbidity and Mortality of Patients With Pulmonary Arterial Hypertension in a Reference Center in Brazil
- P140 Evaluation of Risk Score Tools to Predict Mortality in Hispanic Patients With Acute Pulmonary Embolism
- P141 Racial Differences in Outcomes of Percutaneous Pulmonary Artery Thrombectomy in Patients With Pulmonary Embolism
- P142 Experience of a Large Urban Public Safety Net Hospital With Pulmonary Hypertension Class 1 and 4
- P143 Profile of Patients Anticoagulated Over a Period of One Year in the Respiratory Unit of Federal Medical Centre, Owerri

BEHAVIORAL • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

B59 DEFINING DISPARITIES IN PULMONARY VASCULAR DISEASES

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

B60 CYANOTIC PACIFIC BLUE: GROUP 3 PH AND HYPOXIC LUNG DISEASE

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area A (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

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|----|--|-----|--|
| P1 | The Relationship Between Respiratory Mechanics and Pulmonary Capillary Wedge Pressure in Patients With COPD-associated Pulmonary Hypertension Undergoing Invasive Cardio-pulmonary Exercise Testing | P10 | Nonsynonymous Genetic Variant Burden in Pulmonary Hypertension Associated With Chronic Obstructive Pulmonary Disease |
| P2 | Right Ventricular Dysfunction and Its Clinical Significance in Group 3 Pulmonary Hypertension | P11 | Pulmonary Artery Pulsatility Index (PAPI) as a Predictor of Mortality in Pulmonary Hypertension-associated Interstitial Lung Disease (PH-ILD) |
| P3 | Prognostic Limitations for Who Group 3 Pulmonary Hypertension Patients - A Retrospective Study | P12 | New European Society of Cardiology Definition of Severe Pulmonary Hypertension Predicts Mortality in Patients With Idiopathic Pulmonary Fibrosis |
| P4 | Real World Outcomes of Inhaled Treprostinil in Group 3 Pulmonary Hypertension | P13 | Characterization of Cardiopulmonary Exercise Testing Profiles for Patients With Pulmonary Hypertension and Interstitial Lung Disease |
| P5 | Patients With Chronic Obstructive Pulmonary Disease and Associated Pulmonary Hypertension Demonstrate Reduction in Exertional Ventricular-arterial Coupling: A Pilot Study Utilizing Invasive Cardiopulmonary Exercise Testing | P14 | Does the Change in RV Strain During Sub-maximal Exercise Contribute to Exercise Intolerance Among Post 9/11 Veterans With Airborne Hazards and Burn Pits Exposure? |
| P6 | uniPHied: A Novel Platform Study Design for a Phase 2 Clinical Trial to Assess the Safety and Efficacy of AER-901 in Pulmonary Hypertension Associated With Interstitial Lung Disease and Pulmonary Arterial Hypertension | P15 | Pulmonary Vasodilatory Therapy in Patients With Chronic Obstructive Pulmonary Disease-mediated Pulmonary Hypertension |
| P7 | Unveiling Right Heart Hemodynamics and Treatment Response in Pulmonary Hypertension Patients With Obstructive Sleep Apnea: A Community-centered Perspective | P16 | Temporal Progression of Early Smoke-induced Pulmonary Vascular Alterations in COPD-associated Pulmonary Hypertension |
| P8 | Clinical Significance of Updated Pulmonary Hypertension Guidelines on Combined Pulmonary Fibrosis and Emphysema (CPFE) | P17 | Qualitative Concept Elicitation Interviews With Patients and Expert Clinicians to Explore the Patient Experience of Pulmonary Hypertension in Chronic Obstructive Pulmonary Disease (PH-COPD) |
| P9 | Prevalence of Pulmonary Hypertension in Patients With Chronic Hypercapnic Respiratory Failure: A Retrospective Study | P18 | Significance of Adma Levels in Patients With Pulmonary Hypertension and Chronic Kidney Disease |
| | | P19 | ILD/CPFE With Severe WHO Group III PH Patients Referred to Transplant Center for Evaluation: An Observational Study |
| | | P20 | Effect of Updated European Society of Cardiology Pulmonary Hypertension Diagnostic Criteria on Lung Transplantation Waitlist Outcomes in Hypersensitivity Pneumonitis Patients Listed for Lung Transplantation |
| | | P21 | Effect of Pulmonary Vasodilator Therapy on Survival and Functional Outcomes in Patient With Combined Pulmonary Fibrosis and Emphysema and Pulmonary Hypertension |

BASIC • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

B61 THE NEED FOR SPEED: ARTIFICIAL INTELLIGENCE IN PVD

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P145** Artificial Intelligence Applied to Chest Computed Tomography: Pulmonary Artery Volume as an Image Marker of Pulmonary Hypertension
- P146** AI-driven PE Detection and RV/LV Ratio Measurement: A Preliminary Validation Study
- P147** Early Prediction of Pulmonary Hypertension Using Artificial Intelligence-enabled Electrocardiogram
- P148** Leveraging Artificial Intelligence to Measure Left Atrial Size to Identify Left Heart Disease in Suspected Pulmonary Hypertension
- P149** The Pitfalls of Artificial Intelligence in Management of Pulmonary Embolism and Pulmonary Embolism Response Team Activation
- P150** Evaluating the Efficacy of ChatGPT in Pulmonary Embolism Triage: Insights From the Pert Algorithm Study
- P151** Use of Machine Learning Models to Identify Patients With Pulmonary Embolism From Radiologic Reports
- P152** Real World Assessment of Artificial Intelligence for Pulmonary Embolism Detection and Risk Stratification

BASIC

THEMATIC POSTER SESSION

B62 A LEGO STORY: MOLECULAR BUILDING BLOCKS IN PULMONARY HYPERTENSION

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area A (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P23** Novel Proteins Implicated in Extracellular Matrix Remodeling and Angiogenesis Are Upregulated in Pulmonary Arterial Hypertension
- P24** Loss of RASA3 Leads to Decreased BMPR2 Signaling in Pulmonary Artery Endothelial Cells and Microvascular Lung Endothelial Cells
- P25** Protective Role of Fibroblast Growth Factors in Group 3 Hypoxia Induced Pulmonary Hypertension
- P26** Closing Walls and Ticking Clocks: Pulmonary Vascular Remodeling Checked by Vascular Smooth Muscle Cell Depletion of BMAL1
- P27** Endothelin-2 Underlies Sex Differences in Vascular Remodeling in Pulmonary Hypertension
- P28** Therapeutic Effect of Bromocriptine on Pulmonary Hypertension
- P29** Synthesis of CeO₂@BSA Nanoclusters for Inhibition of Pulmonary Microvascular Endothelial Cell Dysfunction and Improvement of Rat Vascular Reconstitution
- P30** Therapeutic Effect of Levosulpride on Pulmonary Hypertension
- P31** Honokiol Improves Exercise Endurance In Sugen/Hypoxia-Induced Pulmonary Hypertensive Rats Through Increasing SIRT3 Function
- P32** A Novel Mechanism Regulating Aquaporin 1 Abundance in Pulmonary Arterial Smooth Muscle Cells
- P33** Soluble Adenylyl Cyclase Inhibition Attenuates the Abnormal Endothelial Cell Phenotype Associated With Caveolin-1 Loss-of-Function

- P34** Relevance of BKCa Channels in Pulmonary Endothelial Dysfunction
- P35** Loss of WWOX Modulates Cell Cycle Progression in Human Pulmonary Arterial Smooth Muscle Cells
- P36** Cilostazol Protects Against Lung Endothelial Barrier Dysfunction Caused by MRSA
- P37** The Mitochondrial Genome: at the Crossroads of NLRP3-mediated Inflammation and Recovery
- P38** NAD⁺-Dependent Motility of Circulating Human Neonatal Endothelial Colony-forming Cells
- P39** Developing a Phase Separation Assay to Study PPM1B Signaling
- P40** Lung Endothelial Cell Barrier Protection by Estrogen Is Associated With Increased Expression of Claudin-5 and Sphingosine Kinase-1
- P41** MicroRNA-224 Orchestrates the BMP Pathway and Represents a New Therapeutic Target for Pulmonary Hypertension
- P42** A MicroRNA-based Therapeutic Approach for Pulmonary Arterial Hypertension
- P43** Extracellular Cyclic AMP Suppresses Pulmonary Arterial Hypertension-induced Ventricular Arrhythmias
- P44** A Monoclonal Antibody Targeting the ZIP12 Transporter Attenuates Severe Experimental Pulmonary Arterial Hypertension
- P714** Volatile Organic Compounds and the Relevance of Correcting for Background Signals in the Early Prediction of Bronchopulmonary Dysplasia in Preterm Infants
- P715** Efforts to Reduce Inhaled Corticosteroid Use at NICU Discharge for Infants With BPD Resulted in Those Infants Being Started on Inhaled Corticosteroids Later in Infancy
- P716** Nintedanib, An Anti-fibrotic Drug, Preserves Lung Alveolar and Vascular Growth and Prevents Pulmonary Hypertension in an Experimental Model of Hyperoxia-induced Lung Injury
- P717** Characterizing Outpatient Diuretic Therapy in Children With Bronchopulmonary Dysplasia
- P718** Factors Related to Tracheostomy Timing in Moderate to Severe Bronchopulmonary Dysplasia
- P719** Predictive Markers for Tracheostomy and Long-term Ventilation (LTV) in Infants With Bronchopulmonary Dysplasia (BPD)
- P720** Use of Long-Term Home Ventilation for Preterm Infants With Bronchopulmonary Dysplasia in British Columbia: A Retrospective Cohort Study
- P721** The Effect of Catheter Thickness on Work of Breathing in Premature Newborns
- P722** Injury Response in the Developing Lung Mesenchyme: Role of Chromosomal Versus Gonadal Sex
- P723** High Comorbidity Rates in Congenital Lobar Emphysema and the Impact on Clinical Presentation
- P724** Risk Factors for Long Term Mortality in Children With Congenital Diaphragmatic Hernia
- P725** A Macrophage (Drug Product)- Delivery Device (Bronchoscope) Compatibility Study
- P726** Surgical Approach to Congenital Lung Malformations: A Case Study at Hospital Universitario San Ignacio
- P727** Case Report: Calcifying Fibrous Pseudotumor of the Lung in an 8-year Old
- P728** Pulmonary Infantile Hemangioma in a Patient With Cardiac and Liver Malformations
- P729** Acquired Tracheoesophageal Fistula in Infants After Tracheostomy Tube Placement

BASIC • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

B63 BRONCHOPULMONARY DYSPLASIA AND DEVELOPMENTAL LUNG DISEASE

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

P713 Bronchopulmonary Dysplasia in Very Low Birth Weight Asian American, Native Hawaiian, and Pacific Islander Infants in California

- P730** Beyond Standard Care: Addressing Non-responsive Respiratory Distress in Preterm Neonates
- P731** A Rare Case of Morgagni Hernia Undiagnosable by Recommended First Line Imaging Modality
- P732** Congenital Broncho-Esophageal Fistula as a Rare Cause of Recurrent Pneumonia
- P733** Tracheal Tales and a Breath of Fresh Air
- P734** Two Preterm Infants With Atypical Respiratory Symptoms-Bronchopulmonary Dysplasia or Something Else?
- P735** Two Novel ABCA3 Variants Linked to Bronchopulmonary Dysplasia
- P736** Novel Heterozygous Mutations of PIEZO1 Leading To Fetal Hydrops and Generalized Lymphatic Dysplasia Successfully Treated With Propranolol
- P737** Non-immune Hydrops Fetalis and Generalized Lymphatic Dysplasia Associated With PIEZO1 Mutations
- P738** A Rare Case of Prolonged Survival of a Child Diagnosed With Childhood Interstitial Lung Disease (chILD) Associated With a Pathogenic Variant of Surfactant Protein B (sftb) Gene
- P739** Late-onset Right-sided Congenital Diaphragmatic Hernia: A Rare Complication of Early-onset Group B Streptococcus Infection
- P740** Pulmonary Findings in MIRAGE Syndrome
- P741** Think Twice Before Diagnosing Laryngomalacia: Paramyotonia Congenita as the Cause of Noisy Breathing
- P742** Lobar Overinflation in a Neonate
- P743** Congenital Lobar Hyperinflation as a Cause of Hyperlucent Lung in an Adolescent: A Case Report
- P744** An Incidental Diagnosis of an H-Type Tracheoesophageal Fistula in a 2-year-old Male
- P745** Coughing Up Chyle: A Rare Case of Pulmonary Lymphangiomas With Chyloptysis
- P746** Left Turns Only: A Case of Airway Anomaly and Laterality Defect
- P747** Esophageal Atresia Complicated by Tracheal and Aortic Arch Anomalies With Dysphagia Lusoria in One Twin: A Case Report

- P748** Two for the Price of One: Recognition of Co-existing Congenital Abnormalities Causing Tracheal Obstruction
- P749** An Unusual Case of Chronic Cough
- P750** Clinical Outcome at 2 Years of Age in Preterm Infants With Bronchopulmonary Dysplasia and Patent Ductus Arteriosus at 36 Weeks of Post-menstrual Age

CLINICAL • TRANSLATIONAL
THEMATIC POSTER SESSION
B64 PEDIATRIC SLEEP AND NON-INVASIVE VENTILATION
9:15 a.m. - 4:15 p.m.
San Diego Convention Center
Area G (Hall A-B2, Ground Level)
Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P752** Tracheostomy and Inpatient Outcomes Among Children With Congenital Central Hypoventilation Syndrome: A Kids' Inpatient Database Study
- P753** Comparing Sleep Apnea Symptoms With Polysomnography Outcomes in Children With Sickle Cell Disease
- P754** Identification of the Dentocraniofacial Phenotype Associated With High Risk for Obstructive Sleep Apnea, in Children From 3 to 18 Years
- P755** Predictors of Sleep-disordered Breathing Profiles Among Pediatric Patients in Sleep Clinics
- P756** Translation and Transcultural Adaptation of the OSA-18 Questionnaire to Assess Quality of Life in Pediatric Patients With Obstructive Sleep Apnea in Colombia
- P757** How Does Hospitalization for a Pulmonary Exacerbation Affect the Sleep of Patient With Cystic Fibrosis?
- P758** The Relationship Between Impaired Glucose Metabolism and Sleep Disorders in Pediatric Patients With Cystic Fibrosis

- P759 Respiratory Dysrhythmias in Patients With Joubert Syndrome
- P760 Nocturnal Puzzles in the Dark: Exploring Sleep Anomalies in a 15-Year-Old Female With Primary Ciliary Dyskinesia
- P761 Coexisting IgA Nephropathy and Narcolepsy: A Rare Coincidence or Shared Etiology?
- P762 Pediatric Patient With Fontan Physiology and Obstructive Sleep Apnea
- P763 Central Apnea in a Neonate: Don't Forget Your Vitamins!
- P764 Indication for Polysomnography in Children With Spinal Muscular Atrophy in the Era of Disease Modifying Therapies: Is a New Paradigm Needed?
- P765 Development and Treatment of Severe Obstructive Sleep Apnea With Upper Airway Obstruction in a Patient With Spinal Muscular Atrophy Type II
- P766 Nasolacrimal Duct Air Regurgitation During Bilevel Positive Airway Pressure Therapy in a Pediatric Patient With LAMA-2 Related Muscular Dystrophy
- P767 A Case of Spinal Muscular Atrophy With Respiratory Disease Due to a Rare Mutation in the LAS1L Gene
- P768 Poor Weight Gain in Infants With Spinal Muscular Atrophy Resolved With BiPAP
- P769 Swallowing Safety and Efficiency in Infants With Spinal Muscular Atrophy at the Time of Diagnosis
- P770 Respiratory Outcomes of Children With Spinal Muscular Atrophy in the Era of Disease Modifying Therapies
- P771 A Quality Improvement Initiative to Increase Follow Up for Pediatric Patients Discharged With Noninvasive Ventilation
- P772 Use of Nasal Stents for the Facilitation of Non-invasive Ventilation in the Neonatal Intensive Care Unit: A Report of Two Cases
- P773 Helping Children Come Home the Use of Non Invasive Ventilation in Life Limiting Conditions
- P774 In Vivo Testing of Non-invasive Torso Assist Ventilation for Neonatal Respiratory Distress Syndrome

BASIC • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

B65 CYSTIC FIBROSIS AND PRIMARY CILIARY DYSKINESIA

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

San Diego Convention Center

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees**12:30-1:15** Authors will be by their posters for individual discussion with attendees

- P776 Repeated Elevation in Immunoreactive Trypsinogen Leads to Diagnosis of Cystic Fibrosis in an Infant With No CFTR Variants Detected on Newborn Screen Panel
- P777 A Case of Cystic Fibrosis in a Child With Speech Apraxia
- P778 A Common and an Uncommon Mutation Combination on a New Case of Cystic Fibrosis
- P779 A Delayed Diagnosis of Cystic Fibrosis in an Adolescent With Chronic Rhinosinusitis With Nasal Polyps
- P780 Pseudo Bartter Syndrome in a Kenyan Infant With Genetically Confirmed Cystic Fibrosis: Case Report
- P781 The First Report of Cystic Fibrosis in a Young Child With Pharyngeal Dysphagia Without Apparent Risk Factors
- P782 Necrotizing Pneumonia in a Young Adult With Cystic Fibrosis
- P783 Pulmonary Considerations in Patients With Advanced Cystic Fibrosis in the Setting of Acute Liver Transplant Rejection
- P784 Diagnostic Dilemma: Eosinophilic Esophagitis Presenting as Cystic Fibrosis
- P785 Obstructive Cholangiopathy in an Infant With Cystic Fibrosis: Biliary Atresia, Cystic Fibrosis, or Both?
- P786 Successful Eradication of Chronic Pseudomonas Aeruginosa Infection in Cystic Fibrosis
- P787 Viability and Infectivity of Bacteriophage PBPA103 After Nebulization With a Vibrating Mesh Nebulizer

- P788 Responsiveness of Hyperpolarized 129-xenon MRI in Pediatric Primary Ciliary Dyskinesia: Case Report
- P789 The Untold Story of Cardiac Findings in Primary Ciliary Dyskinesia
- P790 Assessing Cystic Fibrosis Knowledge and Resource Accessibility Among Physicians in Egypt for Future Education and Collaboration
- P791 Increased Prevalence of Obstructive Sleep Apnea in Pediatric Patients With Cystic Fibrosis
- P792 Home Microbiological Sampling in a Pediatric Cystic Fibrosis Population: Pandemic Implementation and Ongoing Use
- P793 Airway Dysynapsis and Cystic Fibrosis -The Impact of Trikafta
- P794 Effect of Trikafta on Substrate Utilization During Exercise in Paediatric Populations: A Three Month Follow Up
- P795 Staphylococcus Aureus Infections Before and After Lung Transplantation for Cystic Fibrosis
- P796 Social Determinants of Health and Clinical Outcomes in Children With Cystic Fibrosis
- P797 Plasma Proteome Identifies Inflammatory Signal Differences Before and After Elexacaftor/Tezacaftor/Ivacaftor Initiation
- P798 Fecal Calprotectin and Intestinal Microbiota in Children With Cystic Fibrosis and Distal Intestinal Obstruction Syndrome
- P799 Otologic and Nasal Manifestations of Primary Ciliary Dyskinesia
- P800 Frequency and Antibiotic Use for Sino-pulmonary Infections in Children With Primary Ciliary Dyskinesia and Cystic Fibrosis Diagnosed During the Neonatal Period - A Case-control Study
- P801 Lung Function Recovery From Pulmonary Exacerbations Treated With Oral Antibiotics in Primary Ciliary Dyskinesia
- P802 Neonatal Diagnosis of Primary Ciliary Dyskinesia in a High Consanguinity Population: A Single Tertiary Center Experience
- P803 Single Cell Transcriptomics of Airway Cells From Primary Ciliary Dyskinesia (PCD) Patients Show Unique Signatures and Upregulation of Protective Cilia Mechanisms

- P804 Importance of Early Experiences of Needle Procedures on the Lives of People Living With Cystic Fibrosis
- P805 Quantifying Novel Outcome Measures for Specific Ventilation Measured From Multiple Breath Nitrogen Washout

CLINICAL

THEMATIC POSTER SESSION

B66 DYNAMIC CASES OF INFECTIOUS DISEASES

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

San Diego Convention Center

Area H (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P807 Pulmonary Toxoplasmosis: A Difficult Diagnosis
- P808 Pulmonary Strongyloidiasis and Hyperinfection in a High-Risk Factors Patient
- P809 Acute Hypoxic Respiratory Failure After Steroid Treatment in a Case of Strongyloidiasis Masquerading as Asthma
- P810 Chronic Strongyloides Infection Causing Pulmonary Eosinophilia
- P811 Successful Use of Cidofovir in an Immunocompetent Adult With Fulminant Adenovirus Infection
- P812 Pulmonary Kaposi Sarcoma Without Endobronchial Lesions in a 48-year-old Immunocompromised Male With Acute Respiratory Distress Syndrome (ARDS)
- P813 Ramsay Hunt Syndrome Following Treatment of Acute Hypoxemic Respiratory Failure Due to COVID-19 Infection and Suspected Chronic Obstructive Pulmonary Disease Exacerbation
- P814 Prognostication of Viral-Induced Airflow Limitation Impact on Pulmonary Function Spirometry; Is It Asthma Gone Wild or Asthma Gone Viral?
- P815 Kaposi Sarcoma Immune Reconstitution Inflammatory Syndrome

- P816 When Dyspnea Goes Viral: A Case of Isolated HSV Tracheobronchitis
- P817 Tuberculosis Skin Test as a Tool for Diagnosing Newly Active Tuberculosis
- P818 A Parapneumonic Predicament: A Case of Disseminated Herpes
- P819 Unmasking the Silent Threat: Cytomegalovirus Pneumonitis in a Patient With Pulmonary Sarcoidosis
- P820 Organizing Pneumonia With Surgical Pathology Positive for SARS-CoV2 a Year After Initial COVID-19 Diagnosis Despite Negative COVID-19 PCR From Nasal Swabs and Bronchial Alveolar Lavage in a Lymphopenic Cancer Patient
- P821 Pneumomediastinum and Subcutaneous Emphysema as a Rare Complication of Rhinovirus and EBV Co-infection
- P822 Long-COVID Syndrome: Increasing Healthcare Costs and Patient Dissatisfaction
- P823 Tension Pneumothorax In Covid-19 Infection
- P824 Legionella Pneumonia With Rhabdomyolysis With Extremely High Creatine Phosphokinase (CPK) Without Acute Kidney Injury (AKI)
- P825 A Case of Hemolytic Anemia Associated With Mycoplasma Pneumonia Infection
- P826 Inhaling Trouble: Legionnaires' Disease Secondary to Cannabis Smoking With a Bong
- P827 Community Acquired Cavitory Pneumonia Caused by Legionella With Birds Nest Sign on Computed Tomogram
- P828 Burkholderia Cepacia Ventilator Associated Pneumonia in a Patient Without Underlying Pulmonary Disease
- P829 Endemic Dangers: A Rare Case of Dual Infection With Legionella and Blastomycosis Requiring Venovenous Extracorporeal Membrane Oxygenation
- P830 Legionella's Triple Threat: Pneumonia, Rhabdomyolysis, and Renal Failure
- P831 Secondary Syphilis With Atypical Pulmonary Nodules: A Clinical Challenge
- P832 Pulmonary Actinomyces Mimicking Lung and Soft Tissue Malignancy
- P833 Unveiling Aracnobacterium: A Diagnostic Challenge of Sepsis and Multifocal Pneumonia Masquerading as a Viral Syndrome
- P834 A Case of Asymptomatic Mediastinal Lymphadenitis Caused by Streptococcus Pneumoniae
- P835 Unilateral Empyema, a Rare but Severe Complication of Peritonsillar Abscess
- P836 Silent Threats: A Rare Encounter of Pasteurella Multocida-induced Pneumonia in Lung Disease
- P837 Early Detection of Nocardia in Two Immunocompromised Patients Through Sequencing of Microbial Cell-free DNA
- P838 Salmonella Surprise: Unveiling an Unexpected Culprit in Empyema
- P839 Nocardia as a Cause of Non-Resolving Pneumonia and Uncontrolled Asthma in a Patient on Biologics
- P840 Role of Intravenous Immunoglobulin in an Immunocompromised Patient With Prolonged COVID Pneumonia
- P841 Pulmonary Echinococcosis, An Atypical Parasitic Disease in Mexico

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

B67 VIRAL RESPIRATORY INFECTIONS INSIGHTS

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

San Diego Convention Center

Area H (Hall H, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P843 An Overview of the Long COVID Clinic in an Irish Tertiary Hospital: Is the Approach Correct?
- P844 Metformin and COVID-19: A Cautionary Tale From Genetic Variants
- P845 Inducible Epithelial Resistance Against Murine Betacoronavirus Lung Infection

- P846** Independent Risk Factors for Critical Illness in Hospitalized Patients With COVID-19 in China
- P847** Chitotriosidase Regulates Host Response to Influenza Lung Infection
- P848** Impact of Corticosteroids on Cardiovascular Events in Critically Ill Patients With COVID-19
- P849** Hyponatremia as a Predictive Marker of Mortality in Hospitalized COVID-19 Patients: A Healthcare System Analysis
- P850** Effects of Pneumothorax and Required Intervention in COVID-19 Patients
- P851** Can We Predict Lung Sequelae in Post-COVID-19 Patients?
- P852** The Role of Hyaluronic Acid in Predicting Mortality in SARS-CoV-2 Omicron Variant Infections
- P853** Clinical Significance of Pre-existing Interstitial Lung Disease in Patients With COVID-19
- P854** Biological Rhythms in Coronaviral Pneumonia
- P855** The Association Between COVID-19 Vaccination and Hospitalized Situation in Omicron Era: A Retrospective Study
- P856** Documented Failures and Thoughts on Preferred Anticoagulation Dosing for All Corners of COVID-19 Patients: A Meta-analysis
- P857** SARS-CoV-2 Spike Protein and Viral RNA Persist in the Lung of Patients With Post-COVID Lung Disease
- P858** Collectin Interaction With Human Rhinovirus
- P859** Thromboprophylaxis in COVID-19 Outpatients: A Systematic Review and Meta-analysis
- P860** Anticoagulation Strategies in Non-critically Ill COVID-19 Inpatients: A Systematic Review and Meta-analysis
- P861** Immunological Recovery Among Immunosuppressed Patients Who Survived COVID-19 Pneumonia
- P862** Recombinant Alpha-1 Antitrypsin as a Potential Therapy for Influenza Infection
- P863** Analysis of Baseline Factors Associated With Poor Clinical Outcome in a Phase 3 Trial in Patients Hospitalized Due to COVID-19
- P864** The Proof Is in the Sputum: Untangling Viral Pneumonia From Bacterial Viral Co-infection
- P865** Respiratory Syncytial Virus-related Disease in Patients With Chronic Obstructive Pulmonary Disease: Disease Burden and Possible Preventive Strategies
- P866** In Patients Hospitalized With Community-acquired Pneumonia, Detection of Respiratory Syncytial Virus and Influenza Increases When Testing Additional Respiratory Sample Types
- P867** Cannabis Use, Tobacco Use, and COVID-19 Infection: Findings From a Longitudinal Observation Cohort Study
- P868** Psychiatric Disorders Following Vaccination of Coronavirus Disease 2019 in South Korea: A National Retrospective Cohort Study
- P869** Recommendations on Treating Post-COVID-19 Symptoms According to Medical Associations in the United States
- P870** Combined Utility of Serum Ferritin and KL-6 Levels as Biomarkers for Predicting the Severity of COVID-19
- P871** Perception of Influenza Vaccination Among Pulmonologists From Different Countries
- P872** Description of Immune Response and Multi-organ Damage Differences Between Infection of SARS-CoV-2, Influenza and the Other Respiratory Virus Using Machine Learning: A Retrospective Cohort Study
- P873** Vitamin D Supplementation and Clinical Outcomes in Severe COVID-19 Infection: A Systematic Review and Meta-analysis
- P874** Inhibiting End Binding Protein 3 (EB3) as a Pharmacological Intervention for COVID-19 Respiratory Complications
- P875** Investigation of the Pulmonary and Inflammatory Profile in a Murine Model of COVID-19
- P876** Integrated In Vitro/Ex Vivo Assessment of Efficacy and Respiratory Toxicity for Accelerated Respiratory Drug Development
- P877** Prevalence, Microorganism Pattern and Mortality Among Ventilator Associated Pneumonia With Critically-ill COVID-19 Patients in Persahabatan National Respiratory Referral Hospital in Indonesia: A Retrospective Single Center Study

- P878 Whooping Cough Is One of Common Diseases, Which Has Not Been Affected by COVID-19
- P879 Fractional Concentration of Exhaled Nitric Oxide (FeNO) by HIV Status in Men and Women in the MACS-WIHS Combined Cohort Study
- P880 Functional Aspects of the Obesity Paradox in Patients With Severe Coronavirus Disease-2019: A Retrospective, Multicenter Study
- P881 MICB^{G406A} Polymorphism Confers Reduced Risk of Mechanical Ventilation and Death in Patients at Risk for Acute Lung Injury
- P882 Trends and Outcomes on the Impact of Smoking Among Patients Hospitalized With COVID-19 Infection: 2020 National Inpatient Sample Analysis
- P883 Prophylactic Effect of Human Lactoferrin Against the Respiratory Syncytial Virus in the Mouse Model
- P884 Cardiopulmonary Dysfunction Among Survivors of the 2014 West African Ebola Outbreak: A Preliminary Analysis
- P885 Effect of Lactococcus Lactis Strain Plasma on T-cell Immune Response in Patients With Omicron COVID-19
- P886 Fingerprint of the Most Prevalent Respiratory Viral Strains on In Vitro Primary Human Nasal Epithelium
- P887 A Lung-targeted Therapeutic siRNA Against Highly Conserved Viral M1 mRNAs Effectively Limits Highly Pathogenic Influenza A Infection in Mice
- P888 Oxidative Stress and Pyrimidine Metabolism Pathways Are Associated With Respiratory Abnormalities Among Adolescents With HIV
- P889 Respiratory Syncytial Virus (RSV) Detection Among Adults With Underlying Cardiopulmonary Disease Hospitalized With Acute Respiratory Illness
- P890 Parenchymal Disease Identified by Parametric Response Mapping Is Associated With Abnormal Spirometry Among Adolescents With HIV
- P891 Inhalable Interferon-beta Bio-better, ABN101 Dry Powder, Inhibits and Reduces the Infection of Respiratory Viruses in Non-human Primates (NHPs)
- P892 Comparison of Patient-reported Post-acute Sequela SARS-CoV-2 (PASC) Fatigue and Neurological Symptoms in Pre-omicron Vs Omicron/Post-omicron COVID-19 Variants

- P893 Exploring Pasc Symptoms in Correlation With Generalized Anxiety Disorder 7 Scale (GAD-7) Across Multiple Timepoints
- P894 Post Acute COVID Sequelae by Age and Gender

CLINICAL

THEMATIC POSTER SESSION

B68 TUBERCULOSIS TALES: CASES UNVEILED

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

San Diego Convention Center

Area H (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P896 Highway to the Heart: Tuberculosis-induced Pericardial Tamponade in a Nomadic Driver
- P897 Severe Cystic Pulmonary Tuberculosis: A Rare Presentation in the United States
- P898 A Lymph-azing Diagnosis: The Complexities in Diagnosing TB Lymphadenitis
- P899 Tuberculous Pericarditis: A Rare Cause of Syncope in a Young Male
- P900 Tuberculosis Can Take Your Breath Away
- P901 Rebleeding Dilemma in Tuberculosis-Related Hemoptysis: Finding the Culprit
- P902 Rare Presentation of Mycobacterium Tuberculosis in the Paranasal Sinuses
- P903 Pulmonary Tuberculosis: A Case of Reactivation in a Pigeon Breeder
- P904 Pericarditis Due to Mycobacterium Tuberculosis in a Non-endemic Region: Diagnostic Challenges and Clinical Insights
- P905 Unmasking Tuberculosis: Exploring Its Atypical Presentations
- P906 Asynchronous Video Recording: An Opportunity for Directly Observed Tuberculosis Therapy During Ramadan: A Case Report
- P907 Giant Cavity, Giant Challenge
- P908 Tuberculosis and Histoplasmosis Co-Infection

- P909 Worth Its Weight in Gold: Pleural Biopsy Still the Gold Standard to Diagnose an ADA Negative Pleural Tuberculosis
- P910 Postpartum Tuberculosis
- P911 Endobronchial Tuberculosis: A Case Report
- P912 When Necrotizing Pneumonia is Tuberculosis: Sequelae After Critical Illness
- P913 Antituberculous Drug Induced Acute on Chronic Liver Injury in a Young African Male
- P914 Endobronchial TB and Pneumothorax in a Pregnant Woman: Rare Case
- P915 Osteoarticular Tuberculosis of the Hip in an Immunocompetent Patient - A Case Report
- P916 Colonic Tuberculosis Mimicking Inflammatory Bowel Disease With Subsequent Disseminated Disease
- P917 A Rare Case of Cryptogenic Organizing Pneumonia Associated With Mycobacterium Tuberculosis
- P918 A Rare Case of Pleural Tuberculosis With Negative Sputum Cultures, Pleural Mycobacterium Tuberculosis and Broad Range Bacterial Polymerase Chain Reaction (PCRs): A Diagnostic Approach
- P919 Unmasking the Mimic: A Tale of Tuberculosis Immune Reconstitution Inflammatory Syndrome in a Challenging Diagnosis
- P920 Don't Delay Your Diagnosis: A Case Study in Diagnostic Challenges and the Importance of Screening for Tuberculosis
- P921 Unmasking the Masquerade: Tuberculosis Infection Masquerading as Lofgren's Syndrome of Sarcoid
- P922 Persistence Is Key: A Rare Case of Non-resolving Pleural Effusion
- P923 Miliary TB Still Exists in the Modern World!
- P924 The Mystery Continues: A Case of Cervical Tuberculous Lymphadenitis in an Immunocompetent Female in a Low-burden Country
- P925 Tuberculosis Unveiling Its Wrath on Young Lungs
- P926 Royal Touch on the Neck: Scrofula - King's Evil From Tuberculosis
- P927 Tale of Drug Resistant Tuberculous Caverns in Immunocompetent Individual

- P928 Association of Undernutrition With Severity of Pulmonary Tuberculosis Assessed by Chest X-ray at Diagnosis
- P929 Divergent Aspects of AIM2 Function in M. Tuberculosis-infected Mouse and Human Macrophages

CLINICAL

THEMATIC POSTER SESSION

B69 PULMONARY REHABILITATION: COVID-19, CRITICAL ILLNESS, AND QUALITY IMPROVEMENT

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

San Diego Convention Center

Area I (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P998 Rehabilitation After Severe Coronavirus Disease: What Are the Long Term Outcomes?
- P999 Regional Lung Ventilation and Perfusion in Individuals With Post-acute Sequelae of SARS-CoV-2 Infection (PASC)
- P1001 Effects of Pulmonary Rehabilitation Program in a Community Based Hospital in Fresno During and Post COVID-19: Retrospective Study
- P1002 Comparative Analysis of Online English and Spanish Content on Post ICU Syndrome
- P1003 The Association Between Physical Rehabilitation and Short-term Morbidity in Pediatric Acute Respiratory Distress Syndrome (PARDS)
- P1004 Higher "6-Clicks" Functional Assessment Scores Associated With Increased Likelihood of Being Discharged Home in Survivors of Critical Illness
- P1005 Early Rehabilitation of Intensive Care Patients Using Whole Body Vibration Therapy
- P1006 Clinical Efficacy of Pulmonary Rehabilitation on Chronic Lung Disease Patients
- P1007 Cumulative Dispensing of Oral Corticosteroids Over 12 Months in People With Chronic Obstructive Pulmonary Disease (COPD)

P1008 Physiotherapists' Perspectives on Telehealth for First Nations People: A Qualitative Study

P1009 A Pilot Study of Initiating Virtual Pulmonary Rehabilitation on a Respiratory Monitoring Service to Improve Health-related Quality of Life

BASIC • TRANSLATIONAL

THEMATIC POSTER SESSION

B70 COPD IN THE SPOTLIGHT: INSIGHTS INTO DISEASE PATHOGENESIS

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

P633 Integrated Multiomic-functional Studies Identify Mitochondrial Oxidative Dysfunction in Male Mice Exposed to Prolonged Intermittent Hypoxia

P634 Multi-omics Identified Pathways Associated With Altered Skeletal Muscle Oxidative Metabolism in COPD Patients

P635 Unsupervised Machine Learning Demonstrates a Transcriptomic Signature Associated With Lower Skeletal Muscle Mass in COPD Gene

P636 Nasal Airway Organoid Model: Recapitulating Chronic Obstructive Pulmonary Disease and Representing Disease Severity Gradient

P637 Perinatal Obesity Interferes With Sphingolipid Pathway Signaling Leading to Premature Cardiopulmonary Aging

P638 Cigarette Smoke Causes Direct Lymphatic Endothelial Cell Injury

P639 Cigarette Smoke Acts Via c-Src to Decrease CXCL11 Levels and Deter Lung Treg Responses in HIV-related COPD

P640 The Effects of HuR Depletion and Smoke Exposure on Cyclin D1

P641 Characterizing Multi-dimensional Subtypes of Resilience in Chronic Obstructive Pulmonary Disease

P642 An RNA Editing Approach for the Treatment of Alpha-1 Antitrypsin Deficiency (AATD)

P643 A Novel Two-tier Genotyping and Whole Exon Sequencing Testing Algorithm to Identify Alpha-1 Antitrypsin Deficiency (AATD)

P644 Microbiome Dynamics in Exacerbation of Chronic Obstructive Pulmonary Disease

P645 Single-cell RNA Sequencing Profiling of Respiratory Airway Epithelium With Chronic Inhalation Tetrahydrocannabinol Containing E-cigarettes

P646 Caveolin-1-Derived Peptide Modulates P53-fibrinolytic Pathways During Chronic Tobacco Smoke and Interleukin-17A-induced Lung Injuries

P647 Single Cell Transcriptomics Suggest Macrophage Dependent Susceptibility to Lung Diseases Post SARS-CoV-2 Infection

P648 The Predictive Utility of Omic Scores for COPD-related Traits

P649 Thymic Stromal Lymphopoietin (TSLP) Expression Is Restricted to Resting Basal Cells and Is Low in Current Smokers

P650 Targeting the Lung - Brain Axis Improves Cigarette Smoke-induced Cognitive Outcomes

P651 The Role for Mitochondria in the Development of Pulmonary Emphysema

P652 The Exacerbation of the Inflammatory Response to Nontypeable Haemophilus Influenzae Bacteria by Alpha-Defensins

P653 Functional Differences in Microbiome Under Experimental Dysbiosis (MOUSE)

P654 S100A8-MCM3 Axis in Alveolar Type II Cells in Emphysema

P655 Sphingosine-1-Phosphate (S1P) Improves Survival of Human Pulmonary Endothelial Cells During Cigarette Smoke-induced Injury Via Bcl-2-mediated Disinhibition of Beclin-1

P656 Exosomal microRNAs From Lung Parenchyma of Smokers With/Without COPD

P657 Inflammatory Mediators Induced by Cigarette Smoke Extract and IL-1B Are Dampened by Treatment With MCTR3 Post-stimulation in Primary Human Lung Fibroblasts

- P658 Vaping, but Not Smoking, Causes an Increase in Orai1-dependent Ca²⁺ Signaling
- P659 Murine Toxicology Study of Repeat-Dose Inhaled KB408, an HSV-1-Based Vector for the Treatment of Alpha-1 Antitrypsin Deficiency
- P660 Puma Mediates Cigarette Smoking Induced Cell Death in the Pathogenesis of Chronic Obstructive Pulmonary Disease
- P661 CYP1B1 Promotes Lipid-laden Macrophage Formation Induced by Reactive Oxidative Species
- P662 Smoker and Nonsmoker Lungs: Single Cell RNA-sequencing
- P663 Vascular Endothelial Growth Factor Receptor 1 Tyrosine Kinase Signaling Induces Elastase Induced Pulmonary Emphysema
- P664 Ethanol Alters E-liquid Physicochemical Properties, Toxicity, and Nicotine Deposition
- P665 Associations of Metals and Gene Expression in Peripheral Blood Mononuclear Cells of Chronic Obstructive Pulmonary Disease
- P666 Inhaled Live Biotherapeutic Targeting Neutrophilic Inflammation Is Well Tolerated in Healthy and COPD Animal Models
- P667 Comparative Effects of Chronic Exposure to Heated Tobacco Products and Combustible Cigarettes in an Interstitial Lung Disease Animal Model
- P668 Evaluating the Cardiopulmonary Effects of a Chronic E-cigarette Exposure in a Hyperlipidemic Mouse Model
- P669 Aging and Metabolic Changes in COPD Patients
- P670 Cellular Injury Repair in the Distal Lung Following Exposure to E-cigarette Vape (EV)
- P671 Human Small Airway Model of COPD to Investigate Disease Mechanisms and Test Preventive Immunotherapy
- P672 Exploring the Therapeutic Potential of Fibroblast Growth Factor 10 Treatment in Elastase-induced Pulmonary Hypertension and Emphysema
- P673 The Role of CEACAM6/HO-1 Axis in a Mouse Model of Cigarette Smoke-induced Lung Injury
- P674 Prothymosin α Downregulates Antiaging-related Deacetylase Sirt1 in COPD

- P675 Differential Genes Expression and Distinct Signaling Pathways Between Slow Twitch and Fast Twitch Muscles on Inflammatory Response in Cigarette Smoke-exposed Rat Model
- P676 Disruption of P53/FOXO4 Interactions in Senescent Lung Cells Results in Senolysis

BASIC • TRANSLATIONAL
THEMATIC POSTER SESSION
B71 ASTHMA PATHOGENESIS: MORE THAN MEETS THE EYE
9:15 a.m. - 4:15 p.m.
San Diego Convention Center
Area C (Hall A-B2, Ground Level)
Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P291 Mechanisms of Nasal Epithelial Cell Permeability in Eosinophilic Severe Asthma: Effect of Anti-IL5R Therapy
- P292 UnBlender: Untangling Respiratory Bulk Transcriptomics in the Lung and Nose Through Custom and Reliable Cell Type Deconvolution
- P293 Metabolic Characterisation of Cannabis Use Demonstrates Detrimental Impact on Future Health Outcomes in Asthmatics
- P294 T2/IL-13-induced Autophagy Promotes RV-A16 Infection in Human Airway Epithelial Cells
- P295 Evaluation of Exosomal MicroRNA Profiles in Induced Sputum According to Inflammatory Phenotypes in Patients With Severe Asthma
- P296 Improved Annotation of Asthma Gene Variants With Cell Type Deconvolution of Nasal and Lung Expression-Quantitative Trait Loci
- P297 Inhaled AZD4604: Local Janus Kinase 1 Inhibition Without Systemic Activity
- P298 Identification of Key Genes Associated With Epithelial Barrier Dysfunction for Patients With Asthma by Comprehensive Analysis

- P299 Peroxidase-mediated Mucin Cross-linking Explains Pathologic Mucus Gel Formation in IL-13-stimulated Airway Epithelial Cells
- P300 Severe Asthmatic Human Airway Epithelial Cells (HAECs) Exhibit Differential Viral-Related Immune Responses Under Type-2 (T2) Conditions
- P301 Glycolysis of Airway Fibroblasts Fuels Severe Asthma Phenotype
- P302 Rhinovirus (RV) Utilizes T2-induced Mitophagy to Increase Early RV Replication in Human Airway Epithelial Cells
- P303 Intersecting Pathways of Metabolic Dysregulation and GLP-1 Receptor Agonist Effects in Airway Smooth Muscle Cells
- P304 Anti-Interleukin-4 Receptor Subunit Alpha Antibody M1 Reduces Pulmonary Inflammation in Mouse Ovalbumin Model of Asthma
- P305 Rhinovirus C15 Induces Epithelial Remodeling and Inflammatory Cytokine Expression: Implications for Asthma Exacerbation
- P306 IL-13 and IL-17A Activate β 1 Integrins Through an NF- κ B/Rho Kinase/PIP5K1 γ Pathway to Enhance Force Transmission in Airway Smooth Muscle
- P307 The Regulatory Mechanism of Membrane-bound Mucins in Normal Human Bronchial Epithelial Cells
- P308 Investigation of the Mechanism Underlying the Bronchoprotective Effect of Deep Inspiration
- P309 Lung-targeted RNAi Molecules Silence Human TSLP Expression in PCLS Cultures and Humanized Mice and Suppress Pulmonary Allergic Inflammation
- P310 Clinically Relevant β 2-agonists Induce and Augment Rhinovirus-induction of Asthma-relevant Pro-inflammatory Mediators in Human Bronchial Epithelial Cells
- P311 GDC-0214 Is a Potent Inhaled JAK Inhibitor With Efficacy in Multiple Pre-clinical Models of Th2 Inflammation: A Perspective on Use of In Vivo Rodent Models for Early Phase Drug Discovery
- P312 Cannabinoid Receptor 1 Inverse Agonist, INV-202, Increases Surfactant Phosphatidylcholines and Improves Lung Compliance in a Mouse Model of Asthma

BASIC • TRANSLATIONAL

THEMATIC POSTER SESSION

B72 LUNG INFECTIONS AND COVID-19: INSIGHTS, INNOVATIONS, AND IMPACT

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

San Diego Convention Center

Area I (Hall H, Ground Level)

Viewing: Posters will be on display for entire session**Discussion:** 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1011 Evaluation of Targeted Delivery of Specific Antisense Oligonucleotides Via Engineered Exosomes to Combat COVID-19 Disease Using Human Airway Epithelial Cultures
- P1012 SARS-CoV-2 Spike Transfection Impairs Airway Epithelial Repair
- P1013 Investigating the Toll-like Receptor 3 (TLR3) Leu412phe (TLR3 L412F) Single Nucleotide Polymorphism in the Pathogenesis of Long COVID
- P1014 PTP4A3 Inhibitors Ameliorate SARS-CoV-2-related ARDS by Stimulating Alcohol Metabolism
- P1015 Developing a Novel Therapeutic for Smokers Infected With SARS-CoV-2
- P1016 CITE-Seq Analysis Reveals Responses in Resident Pulmonary Immune Cells Following SARS-CoV-2 Infection
- P1017 Actin Fence Therapy Against COVID-19
- P1018 Plasma Levels of Surfactant Protein D Support the Interpretation of Oxygenation Parameters in COVID-19 Patients With ARDS.
- P1019 RNase6 Promotes Stress-induced Translational Repression During Bacterial Infection
- P1020 Distinct Alveolar and Bone-Marrow Derived Macrophages Signatures After Bacterial Challenge
- P1021 Induction of Lung Epithelial Antimicrobial Hypoxia-inducible Factor1 α Signaling by Temporal Immunometabolic Shift to Aerobic Glycolysis
- P1022 Regulatory T Cell-dependent Resolution of Pneumonia Requires DHX58-DEC2-GATA3

- P1023 Microtubule Reorganization Promotes Endothelial Barrier Disruption During Pneumonia Infection
- P1024 Under the Hypercapnic Challenge: How Macrophages React to Pneumonia-causing Bacteria
- P1025 Allergen Sensitization Perpetuates Asthma Exacerbation Conditions in Influenza Infection
- P1026 Analysis of Differential Transcript Usage in Influenza A Infected Human Lung Organoids Reveals Novel Pathways Obscured by Gene-level RNA-seq
- P1027 Elucidating the Role of Epithelial α -(1,2)-fucosylation in Pneumococcal Virulence
- P1028 Influenza-infected Alveolar Epithelial Cell Have Increased Resilience After Bone-Marrow-Derived Mesenchymal Stem Cell Therapeutic Delivery, Via Type I Interferon and Interleukin 11 Signalling Axis Activation
- P1029 Novel Enzyme-based Reduced Representation Method for DNA Methylation Profiling With Ultra-low Inputs Applied to Bronchoalveolar Lavage Fluid From Patients With Severe SARS-CoV-2 Pneumonia
- P1030 Inhalation Delivery of Interferon- λ -loaded Pulmonary Surfactant Nanoparticles Induces the Rapid Antiviral Immune Responses in the Lung
- P1031 Increased Expression of ATP12A in Small Airway Epithelia of Post-COVID-19 Pulmonary Fibrosis
- P1032 Examining the Subcellular Proteome in Response to Viral Infection
- P46 Beta-aminoisobutyric Acid Inhibits Lipopolysaccharide-induced Pulmonary Injury and Lipid Metabolism Disorder
- P47 Role of ALDH2 in Fibroproliferative ARDS
- P48 Gender Differences in Vaping Dependent Pulmonary Inflammation
- P49 Vagal- α 7 Nicotinic Acetylcholine Receptor Signaling Promotes Influenza Replication
- P50 Therapeutic Estradiol Signaling in Regulatory T Cells Is Mediated Via Dhx58-GATA3
- P51 Protective Role of BMSCs Treated by HGF in Phosgene-induced Lung Injury
- P52 Red Blood Cells From Sickle Cell Disease Patients Exacerbate Agonists-induced Endothelial Dysfunction Via Glycophorin A-dependent Mechanism
- P53 CD36 Inhibitory Peptide L37pA Protects Against Truncated Oxidized Phospholipids-induced Endothelial Dysfunction
- P54 HIF-1 α Drives Recruited Macrophage Programming to Facilitate Repair After Acute Lung Injury
- P55 Select Gut Bacteria Alter Lung Molecular Function
- P56 Role of G Protein-coupled Proton Sensor GPR68 in Lung Endothelial Cell Dysfunction and Acute Lung Injury Caused by Heat-killed *Staphylococcus Aureus*
- P57 Inhibition of GPR68 Ameliorates Acute Lung Injury in Mice Induced by Endotoxin and Mechanical Ventilation
- P58 Growth Hormone Releasing Hormone Receptor (GHRH-R) Mediates Alveolar Epithelial Type 2 Cell Inflammation
- P59 MicroRNA Biomarkers of Ventilator-Induced Lung Injury Are Detectable in Distal Airspace Fluid From Heat Moisture Exchange Filters of Mechanically Ventilated Patients
- P60 Natural Tregs Promote Alveolar Type II Repair Following Influenza Induced Lung Injury in Young Adult Mice
- P61 Sessile Alveolar Macrophages of Human Lungs Express Connexin 43

BASIC • TRANSLATIONAL**THEMATIC POSTER SESSION****B73 NAVIGATING THE STORM:
UNDERSTANDING ACUTE LUNG
INJURY**

9:15 a.m. - 4:15 p.m. **San Diego Convention Center**
Area A (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P63 Pleural Cavity Inflammation During Ventilator-induced Lung Injury Is Mediated by Purinergic Signalling
- P64 Decreased Circulating Eicosapentaenoic Acid Is Associated With Increased Risk of Acute Respiratory Distress Syndrome
- P65 Rho Kinase Inhibition Exacerbates Ventilator-Induced Lung Injury
- P66 Hif1a-related Transcriptomic Changes During Atelectasis With or Without Systemic Endotoxemia: An Exploratory Analysis
- P67 Reduction of Acute Lung Injury by Mesenchymal Stem Cell-derived Extracellular Vesicles
- P68 High Resolution Analysis of Chromatin Sensitivity and Transcription Factor (TF) Occupancy, in Hypoxic Endothelial Cells
- P74 C3a Drives Hexokinase 2-dependent “Warburg Effect” and Mitochondrial Dysfunction in Mesenchymal Cells Derived From Lung Transplant Patients
- P75 Targeting C3ar Mitigates Metabolic Reprogramming and Proinflammatory Priming in Lung Ischemic Reperfusion Injury
- P76 Longitudinal Lower Airway Microbial Signatures of Chronic Lung Allograft Dysfunction in Lung Transplantation
- P77 Cellular Culprits: Unveiling the Activated Phenotypes of Immune Cells in Lung Transplant Acute Cellular Rejection Through Single-cell Analysis
- P78 Immune Playbook: Single-cell Analysis Reveals a Shift From Defensive Macrophage and NK to Offensive Memory and Cytotoxic T Cells in Lung Allograft Acute Cellular Rejection
- P79 Deciphering Long Non-coding RNA Expression Patterns in Lung Allograft Rejection With Single-cell Sequencing
- P80 Post-transcriptional Regulation of Autotaxin Involves RNA-binding Protein HuR and Its Intermediate Role in MNK/eIF4E Activation Within Lung-transplanted Mesenchymal Cells
- P81 The Association of an IPF Polygenic Risk Score With Diagnosis, Mortality and Lung Transplantation in a Hospital Biobank
- P82 Strengthening Pulmonary Research With Fresh Human Tissue Distributed From the Ohio State Biobank
- P83 Demographics of Lung Transplant Recipients Participating in Explant Tissue Collection at the University of California San Diego
- P84 Human Donor Lungs Supported With Human:Porcine Xenogeneic Cross Circulation Maintain Physiologic Function After Re-exposure to Human Blood, Despite Ongoing Cross-Species Immunoreactivity
- P85 Vitamin A and MITF Regulation in Lymphangiomyomatosis
- P86 Dysregulated Complement and Autophagy in Non-resolvable-COVID-19 Patients Requiring Lung Transplantation
- P87 Epithelial-Derived Biomarkers in Chronic Lung Allograft Rejection

BASIC • TRANSLATIONAL
THEMATIC POSTER SESSION
B74 BREATHING NEW LIFE: LUNG TRANSPLANT PATHOGENESIS AND MECHANISMS

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area A (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P70 Early Post-transplant Genomic Storm Predict Allograft Function and Survival in Lung Transplant Recipients
- P71 Recipient Age Determines Lung Function and Outcomes in Mouse Models of Lung Transplantation
- P72 Leveraging Blood-based Transcriptomics to Detect Acute Cellular Rejection in Lung Transplant
- P73 TMEM27 Deficiency in Alveolar Type II Epithelial Cells Protected Against Endoplasmic Reticulum Stress Induced Ferroptosis During Lung Ischemia Reperfusion Injury
- P82 Strengthening Pulmonary Research With Fresh Human Tissue Distributed From the Ohio State Biobank
- P83 Demographics of Lung Transplant Recipients Participating in Explant Tissue Collection at the University of California San Diego
- P84 Human Donor Lungs Supported With Human:Porcine Xenogeneic Cross Circulation Maintain Physiologic Function After Re-exposure to Human Blood, Despite Ongoing Cross-Species Immunoreactivity
- P85 Vitamin A and MITF Regulation in Lymphangiomyomatosis
- P86 Dysregulated Complement and Autophagy in Non-resolvable-COVID-19 Patients Requiring Lung Transplantation
- P87 Epithelial-Derived Biomarkers in Chronic Lung Allograft Rejection

BASIC • TRANSLATIONAL

THEMATIC POSTER SESSION

**B75 POLLUTION AND LUNG HEALTH:
MECHANISMS AND PATHOGENESIS**

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area A (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P89** Metabolic and Toxicological Effects of 3D Printer Particulate Emissions at a High School: Comparing ABS and PLA Filaments
- P90** Dynamics of Cell Death and Pulmonary Inflammation After Particle Inhalation Revealed by Single Cell Transcriptomics
- P91** Inhaling Danger: Air Pollution Fuels Progressive Pulmonary Fibrosis
- P92** Reduced Bronchoalveolar Phagocytosis After Controlled Short-term Exposure to Wood Smoke in Healthy Humans
- P93** Metformin Alleviates Benzo[a]Pyrene-induced Alveolar Injury by Inhibiting Necroptosis and Protecting Alveolar Type 2 (AT2) Cells
- P94** Role of Endoplasmic Reticulum Stress in the Regulation of Induction of Lung Inflammatory Mediators by Organic Dust
- P95** Peroxisome Proliferator-Activated Receptor Gamma (PPAR- γ) Activator 15d-PGJ2 Suppresses Organic Dust Induction of Lung Inflammatory Mediators Independently of PPAR- γ
- P96** Novel Treatment With NOX2 Inhibitory Peptide for Lung Injury Caused by Silica Nanoparticles Exposure: Its Efficacy and Underlying Mechanism
- P97** The Protective Role of Inter-alpha-trypsin Inhibitor Heavy Chain H4 (ITIH4) in Diesel Exhaust Particle-induced Lung Injury Mouse Model
- P98** Single-Cell Expression Analysis of Lung Lining Cells Following World Trade Center Dust Exposure and Chronic Intermittent Hypoxia

P99 In Vitro Volatile Organic Compound Profiling of Human Airway Epithelial Cells in Response to Environmental Exposures

P100 Open-source Manifolds for Applying Airborne Environmental Exposures to Multi-well Plate Air-liquid Interface Cell Cultures

P101 In Vitro Experimental Studies of Particulate Matter Induced Cell Damage During Pseudomonas Aeruginosa Exposure

P102 Particulate Matter Can Activate or Suppress Fibroblast Functions Through Increases in Bone Morphogenic Protein 2

P103 Sand Particles Increase Platelet-Activating Factor Receptor Expression In Vitro

BASIC • TRANSLATIONAL

THEMATIC POSTER SESSION

**B76 CHRONIC AIRWAY DISEASES: ABOVE
AND BEYOND**

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area C (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P314** Primary Ciliated Airway Smooth Muscle Cells Profile in Chronic Obstructive Pulmonary Disease Patients
- P315** Combined Rhinovirus Infection and Cigarette Smoke Exposure of Normal Human Epithelial Cells and Distal Lung Tissue Ex Vivo Induces Dysregulation of Human Airway Basal Cells
- P316** Impact of Acute E-Cigarette Aerosol Exposure on Human Airway Epithelial Cells
- P317** Evolution of Cellular Inflammatory Profiles of the Lower Airways in E-Cigarette Users
- P318** The Spectrum and Pathogenicity of Clonogenic Basal Cells in Lung Disease
- P319** Elucidating the Potential Role of Exhaled Breath Condensate Derived Mirnas in Distinguishing Asthma From COPD

- P320 Geographic Difference of the Airway Microbiome in Stable Patients With COPD - A Combined Analysis From Chinese and Japanese Cohorts
- P321 RNA Sequencing of Bronchoalveolar Lavage Cells From Cannabis Smoke-Exposed Airways Reveals Dysregulation Along Cancer-Associated Pathways
- P322 TCTP Potentiates IRE1 β RNase Activity and Facilitates IRE1 β -mediated Mucin Production
- P323 Morphological Analysis of Bronchiectasis in Primary Ciliary Dyskinesia
- P324 TGF-beta Receptor-dependent Tissue Factor Release and Proteomic Profiling of Extracellular Vesicles in Airway Epithelial Cells
- P325 The Microbiome of Idiopathic Subglottic Stenosis in a Tertiary Hospital

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THEMATIC POSTER SESSION

B77 NEW APPROACHES IN LUNG VENTILATION

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P154 X-ray Velocimetry (XV) Assessment of Regional Ventilation in Non-invasive Positive Pressure Ventilation
- P155 Maximum Voluntary Apnea Test as a New Method for Identifying Pulmonary Ventilation Disorders
- P156 An Open-lung Approach Protects the Acid-injured Lung From Ventilator-induced Lung Injury and Alveolar Instability
- P157 Initial Experience of Using Diaphragmatic Ultrasound in Individuals With Spinal Cord Injury Who Practice Adapted Sports
- P158 Mechanical Ventilation Modality Influences Intratidal Gas and Blood Volume Dynamics: Experimental Demonstration of Dynamic Dual-Energy CT

- P159 Difficult-to-Decannulate Patients: Impact of an Individualized and Safe Strategy for Weaning Neuromuscular Patients to Noninvasive Ventilatory Support
- P160 Strategies for Lung-Protective Ventilation Learned From Alveolar Recruitment Dynamics
- P161 Safety of 300 Part Per Million of Inhaled Nitric Oxide
- P162 Implications of Increased Flow in Nasal Cannula on Respiratory Mechanics
- P163 Reproducibility of CT-based Metrics of Lung Volume Associated Transverse and Longitudinal Airway Deformation
- P164 Changes of Ventilation Under CPAP in Healthy Subjects
- P165 Phrenic Nerve Stimulation During Mechanical Ventilation Reduces Diaphragm Injury in a Porcine ARDS Model
- P166 Effects of Mechanical Power on Neutrophilic Pulmonary Inflammation in Experimental ARDS in Pigs
- P167 Increased Ventilation Heterogeneity in Pre-clinical Thoracic Insufficiency Syndrome Model

BASIC • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

B78 A DEEPER DIVE INTO EXERCISE

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area A (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P105 Physiological Factors Associated With Unsatisfied Inspiration at Peak Exercise in Healthy Adults
- P106 Exercise Ventilatory Inefficiency: The Link Between Pulmonary Vascular Structure/Function and Decline in Exercise Capacity
- P107 Assessing Abnormal Breathing Strategies Through Cardiopulmonary Exercise Testing (CPET): Implications for Dyspnea Evaluation

- P108** Relationship Between Computed Tomography (CT)- and Bioimpedance-derived Body Composition and Exercise Tolerance Among Smokers Enrolled in a Lung Cancer Screening Program
- P109** The Effects of Sex and Age on Dynamic Inspiratory Constraints During Incremental Cycle Ergometry
- P110** Physiologic Parameters During Cardiopulmonary Exercise Testing in Obese and Non-obese Subjects With Exertional Dyspnea

BASIC • TRANSLATIONAL**THEMATIC POSTER SESSION****B79 AIRWAY SMOOTH MUSCLE IN ASTHMA**

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area I (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1034** JAK1 Inhibition Reduces Airway Inflammation and Increases Corticosteroid Sensitivity in a Severe Allergic Airway Inflammation Mouse Model
- P1035** Maternal Allergen Exposure During Fetal Development Disrupts Parasympathetic Nerve Development in Murine Offspring
- P1036** Mesenchymal Stem Cell Therapy to Rescue Airway Hyperreactivity in a Mouse Model of Neonatal Continuous Positive Airway Pressure
- P1037** Anti-inflammatory Effects of Tanimilast in Two Murine House Dust Mite (HDM)-driven Models of Asthma
- P1038** Functional Role of Glial Derived Neurotrophic Factor in a Mixed Allergen Murine Model of Asthma
- P1039** A Stiffer Lung Tissue Curbs the Hyperresponsiveness to Methacholine in a Mouse Model of Asthma
- P1040** Synthetic Derivatives of Ginger Metabolites Relax Murine Airway Smooth Muscle Ex Vivo and In Vivo
- P1041** Inhibition of Casein Kinase 2 Decreases Camp Egress and Promotes Human Airway Smooth Muscle Cell Relaxation
- P1042** Activation of KISS1R Inhibits Mitogen Induced Airway Smooth Muscle Cell Migration
- P1043** Inhalation of Ammonia Stimulated Silent Rapidly Adapting Receptors in the Lung and Evoked Bronchoconstriction: Involvement of ATP
- P1044** Lysine Myristoylation of the Gravin- α , Through HDAC11 Inhibition Regulates β 2AR Localization and Signaling in Airway Smooth Muscle Cells
- P1045** How Swell Is SWELL? SWELL1 Regulates Human Airway Smooth Muscle Shortening
- P1046** Relaxation of Human Small Airways to a Combination of a LAMA + LABA Appears to Be Unaffected by β ₂ Adrenergic Receptor Desensitization or a T2 Inflammatory Milieu
- P1047** Cooperativity by Low Extracellular pH and Tumor Necrosis Factor α (TNF α) in Ovarian Cancer GPCR1 (OGR1)-dependent Cytokine Production in Airway Smooth Muscle
- P1048** AKAP Dependent Regulation of Mitochondrial Function and Dynamics in Human Airway Smooth Muscle Cells
- P1050** Oxidized Phosphatidylcholine-Protein Kinase C Signalling Axis Desensitizes B₂-adrenoceptors in Airway Smooth Muscle: Mechanism for Bronchodilator Insensitivity
- P1051** Airway Structural Cell Oxylin Profiles In Vitro Are Unique and Modified by Cell Stimulation
- P1052** Do EpOMEs and DiHOMEs Cause Airway Smooth Muscle Contraction?
- P1053** 2-hydroxyestradiol (2HE) Attenuates the Airway Remodeling Via Activation of ER β Receptor in Airway Smooth Muscle
- P1054** KISS1R Activation Alters Intracellular Calcium in Airway Smooth Muscle During Inflammation: Th2 Biased Effect
- P1055** Eosinophilia as a Biomarker of Airway Hyperresponsiveness in Young Never-smokers With Subacute Respiratory Symptoms
- P1056** Exercise Induced Bronchoconstriction Assessed by a Ratio of Surface Diaphragm Electromyogram to Tidal Volume

- P1057 Beta-ionone Increases Cyclic AMP in Cultured Human Airway Smooth Muscle
- P1058 Activation of Aryl Hydrocarbon Receptor Inhibits Extracellular Matrix in Airway Smooth Muscle Cells
- P1059 The LINC Protein Nesprin-2 Orchestrates c-Abl Transcription and Airway Smooth Muscle Proliferation
- P1060 Gender of Mice Causes Little Difference in the Presentation of Allergic Asthma Using the House Dust Mite Model
- P1061 Long-acting Muscarinic Antagonist/Long-acting Beta-Agonist (LAMA/LABA) Combination Therapy Attenuates Carbachol-Induced Excitation-Contraction Coupling in Human Airway Smooth Muscle (HASM) Cells
- P1062 Characteristics of Lung Resistance and Elastance Associated With Central and Peripheral Airway Narrowing
- P1063 Optimal Inflating Technique to Maximize Small Airway Constriction in Precision-cut Lung Slices
- P1064 Diagnostic Accuracy of Cold Air Challenge Test in Airway Hyperresponsiveness: Systematic Review and Meta-analysis
- P1065 Modeling Intracellular Signaling of Airway Smooth Muscle Contraction and Relaxation Using Live-cell Biosensors: The Unique Signaling Effects of Pitavastatin as Compared to Beta2-agonists
- P170 Improved Quantification of Ventilation Heterogeneity in Hyperpolarized Xenon MRI Using Physics-rooted Bias-field Correction
- P171 Addressing Healthy Aging Variations in Ventilation From Childhood to Older Age Using Xenon MRI
- P172 Establishing a Standardized Healthy Reference Distribution for Multi-site ¹²⁹Xe Gas Exchange MRI Across Major Scanner Platforms
- P173 Evaluation of Tracheomalacia Using Novel 0.55T MRI
- P174 Quantifying Spatial Distribution of Ventilation Defects in Lung Imaging With Hyperpolarized ¹²⁹Xenon MRI
- P175 Dynamic Hyperinflation Measured by Cine Pulmonary MRI: The SPIROMICS Heart Failure Study
- P176 Assessing Radiation-induced Lung Injury Using a Chemical Shift Imaging-based CSSR Technique
- P177 Slice Spacing Harmonization Improves Accuracy of Lung CT Measurements
- P178 Increased BMI Is Associated With Elevated Membrane Uptake on ¹²⁹Xe Gas Exchange MRI in Healthy Subjects
- P179 Evaluation of BM4D on Denoising Gas and Dissolved Phases of Hyperpolarized-Xenon MRI
- P180 Quantifying Fractional Ventilation and Blood Volume Alterations in CT Images

BASIC • TRANSLATIONAL

THEMATIC POSTER SESSION

**B80-1 METHODOLOGICAL
ADVANCEMENTS IN PULMONARY
IMAGING**

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

P169 **Bronchio: A Zero-shot Learning-based Tool for Pulmonary Airway Analyses**

- P181 Evaluating Hyperpolarized Xenon-129 Ventilation and Gas Exchange at 1 Year Post-lung Transplantation
- P182 Subject Specific Assessment of Airway Resistance and Particle Deposition in Asthma and Chronic Obstructive Pulmonary Disease Patients Using a Computed Tomography Based Cluster Informed Approach
- P183 Quantitative CT and Computational Fluid Dynamics Show Subclinical Functional Changes in Asthma Phenotypes
- P184 Predicting Disease Relapse in ANCA Associated Vasculitis With Radiomics
- P185 Deep Generative Learning Enables Prediction of Hyperpolarized Gas MR From CT

- P186 **A Novel Functional Imaging Method for Assessing Paracellular Permeability in the Human Lung**
- P187 **Estimating Physiological Values of Membrane and Red Blood Cell Conductance Using ^{129}Xe Gas Exchange MRI**
- P188 **Sex and Age-dependence of ^{129}Xe MRI Cardiopulmonary Oscillations in Healthy Volunteers**
- P189 **Reproducibility of CT-based Automated Measures of Thoracic Vertebral Bone Mineral Density**
- P190 **Assessment of Gas Exchange With Hyperpolarized ^{129}Xe MR Imaging in Mild Asthmatics When Administered a Vasodilator**
- P191 **Validation of Ventilation and Perfusion Using Non-contrast Computerized Tomography**
- P192 **Reproducibility of CT-based Metrics of Lung Volume Associated Rib Deformation**
- P193 **Optimizing Chest CT With Photon-counting Detector Technology: Comparison to Established Energy-integrating Detector CT Protocols**
- P194 **Investigation of Quantitative Evaluation of Pulmonary Function by Dynamic Digital Radiography**
- P195 **Reproducibility of Lung Density Quantifications in Photon-counting CT: A Multi-center Phantom Study**
- P681 **Effects of Single Inhaler Combinations of Extrafine Beclometasone Dipropionate, Formoterol Fumarate Plus Glycopyrronium (BDP/FF/G) and Extrafine Beclometasone Dipropionate Plus Formoterol Fumarate (BDP/FF) on Lung Hyperinflation and Exercise Endurance Time in Subjects With COPD**
- P682 **Cardiac Structure and Function Among Symptomatic Tobacco-exposed Person With Preserved Spirometry (s-TEPS): The Subpopulations and Intermediate Outcome Measures in COPD and Heart Failure Study (SPIROMICS HF)**
- P683 **Clinical Characterization and Outcomes of Impulse Oscillometry-defined Bronchodilator Response in Participants With and Without Chronic Obstructive Pulmonary Disease: A Based on ECOPD Cohort Study**
- P684 **Effects of Targeted Lobar Volume Reduction by Endobronchial Valve Treatment on Non-targeted Lobar Volume and Pulmonary Blood Volume**
- P685 **Noninvasive Ventilation for Chronic Respiratory Failure of COPD: Early Experience With an Outpatient Ventilator Titration Program**
- P686 **Diagnosis of Chronic Obstructive Pulmonary Disease Using Deep-learning on Electrocardiograms**
- P687 **Change in Pulmonary Artery: Aorta Ratio (PA:A) in Patients Undergoing Bronchoscopic Lung Volume Reduction Surgery (BLVR) Vs Lung Volume Reduction Surgery (LVRS)**
- P688 **Impaired Venous Return in Chronic Obstructive Pulmonary Disease: 4D Flow Results From the Subpopulations and Intermediate Outcome Measures in COPD and Heart Failure Study (SPIROMICS HF)**
- P689 **Vaping Causes Acute Increase in Pulmonary Blood Flow That Is Not Sex or Nicotine Dependent**
- P690 **Predictors of Dynamic Hyperinflation in Advanced Chronic Obstructive Pulmonary Disease**
- P691 **Prediction of Air Trapping Index in Pulmonary Obstructive Disease Using a Chest Wearable Patch That Monitors Acoustic Resonances**
- P692 **Identification of Asthma-COPD Overlap Using a Novel Handheld Capnometer and Interpretable Machine Learning**

BASIC • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

B80-2 ABNORMALITIES IN STRUCTURE AND FUNCTION IN COPD

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P678 **Longitudinal Analyses of DNA Methylation Reveal Robust Association of COPD Epigenetic Marks**
- P679 **Characterization of Small Airway Obstruction Diversity in COPD**
- P680 **COPDxNet: An End-to-End Deep Neural Network for COPD Detection**

- P693 Computational Fluid Dynamics Analysis of Small Airway Deformation in COPD
- P694 Placebo Controlled RCT of a Lactobacillus Probiotic and Herbal Blend in COPD Patients
- P695 Characterizing Chronic Obstructive Pulmonary Disease Using Alpha-1 Antitrypsin Genotype, Spirometry, and Respiratory Oscillometry
- P696 Asthma-COPD Overlap Patients With Elevated Blood Eosinophils: Review of Exacerbation Rates After 2 Years of Anti-IL-5 Treatment
- P697 Sex-specific Differences in Patients With Mild COPD and Symptomatic (ex)-smokers at Risk - Baseline Data From Capto-COPD
- P698 Safety Outcomes of Bronchoscopic Lung Volume Reduction in Patients With Low Diffusing Capacity
- P699 The Body Mass Index Adjusted Resistance and Its Role in Predicting Spirometry-defined Chronic Obstructive Pulmonary Disease
- P700 Audio-based Automated Cough Analysis System: A Proof of Concept Study
- P701 ¹²⁹Xe MRI With Optimized Bias Field Correction to Assess Ventilation Gradients in Individuals With Normal Lung Function
- P702 Follistatin and Pulmonary Function: Interlinked Factors in Weakness Among Aging Adults
- P703 Alpha-1-Antitrypsin Deficiency in Active-duty Military Personnel
- P704 Correlation of Cardiopulmonary Exercise Test With Quality of Life in Stable Chronic Obstructive Pulmonary Disease Patients Among Indonesian
- P705 Correlation of CAT Score With PFT Parameters (FEV1, RV/TLC, DLCO, and DLCO/VA) in COPD Patients
- P706 Inhaled Corticosteroids Accelerate Aging in the Airways of COPD Patients
- P707 Impact of Emphysema on Lung Expansion and Ventilation in COPD Patients
- P708 The Impact of Rate of FEV1 Decline in American and Spanish Cohorts at High Risk for Lung Cancer
- P709 Non-invasive Prediction of Dyspnea Severity Using Machine Learning

- P710 Interim Report: IAB-1, A Multicenter, Prospective Trial of the Implantable Artificial Bronchus (IAB) in Adults Suffering From COPD/Emphysema
- P711 Pulmonary Effects of Electronic Cigarettes in Young Adults

BEHAVIORAL • CLINICAL • TRANSLATIONAL
THEMATIC POSTER SESSION
B80-3 OSA 2.0: LEVELING UP THE SLEEP APNEA TOOL KIT

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

San Diego Convention Center

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

 Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
 12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P371 High Flow Nasal Cannula for Obstructive Sleep Apnea in Parkinson's Disease: A Pilot Study
- P372 Proximal Hypoglossal Nerve Stimulation Improves Self-reported Frequency and Severity of Snoring in Moderate to Severe Obstructive Sleep Apnea
- P373 Respiratory Features of Drug Induced Sleep Endoscopy With Propofol
- P374 Aroxybutynin and Atomoxetine (AD109) for the Treatment of OSA: Rationale and Design of the LUNAIRE Phase 3 Randomized, Controlled Clinical Trial
- P375 Impact of Body Mass Index on Cardiovascular Risk Among Patients With Obstructive Sleep Apnea: A Systematic Literature Review
- P376 "Neither Sleepy Nor Sleeping": Recognizing the Existence of Novel Cinico-physiological Phenotypes of Obstructive Sleep Apnea (OSA) in Developing Country
- P377 Shed Some Lbs, Catch Some ZZZs: An Exploration of the Impact of Bariatric Surgery on Obstructive Sleep Apnea Severity in an Urban Community Hospital
- P378 The Cardiorespiratory Burden of Central and Obstructive Sleep Apnea and Risk of Respiratory Depression in Individuals on Chronic Opioids Therapy

- P379 Sleep-Disordered Breathing Events in Adults Using Latent Profile Analysis
- P380 Sleep - Disordered Breathing in Patients With Chronic Thromboembolic Pulmonary Hypertension
- P381 Daytime Sleepiness Is Associated With Genetic Alzheimer's Disease Risk in Older Adults With Obstructive Sleep Apnea
- P382 Improvement of Screening for Sleep Apnea in Hypertensive Patients
- P383 Not Sleeping on Discharge! Evaluating Obstructive Sleep Apnea Electronic Medical Record Screening Efficacy on Hospital Discharge
- P384 The Impact of Obstructive Sleep Apnea on Depression Severity in People Living With Human Immunodeficiency Virus (HIV)
- P385 Does Treating Obstructive Sleep Apnea Reduce Mortality in Patients With Atrial Fibrillation?
- P386 Computing Sleep Apnea-specific Hypoxic Burden and Connection With Atrial Fibrillation Development in a Clinical Cohort
- P387 Defining Clinical Phenotypes of Mild Obstructive Sleep Apnea: A Cluster Analysis
- P388 Polysomnography Outcomes of Patients With Sleep Disordered Breathing Treated With Automatic Servo-ventilation (Auto SV) - A Registry Study
- P389 The Association of Obstructive Sleep Apnea on In-hospital Outcomes Following Transcatheter Aortic Valve Replacement: A National Inpatient Sample Analysis
- P390 Ansa Cervicalis Stimulation in Patients With Obstructive Sleep Apnea During Natural Sleep
- P391 Nocturnal Blood Pressure Fluctuation in Patients With Obstructive Sleep Apnea Complicated With and Without Hypertension
- P392 Physiological Traits and Positive Airway Pressure Adherence in Patients With Severe Obstructive Sleep Apnea
- P393 Artificial Intelligence-enabled Pressure Management for Low-pressure Treatment of Obstructive Sleep Apnea

CLINICAL

THEMATIC POSTER SESSION

B80-4 THE Z-FILES OF SLEEP PUZZLES

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

San Diego Convention Center

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P395 Sleep, Mammography, and the Migration of a Lead
- P396 A Case of Sustained Nocturnal Hypoxemia Due to a Patent Foramen Ovale
- P397 Central Sleep Apnea Following Lung Transplantation
- P398 Wake Up Your Brain: Unmasking Dementia-Like Symptoms in Patients With Obstructive Sleep Apnea
- P399 A Case of Obstructive Sleep Apnea (OSA)/Obesity Hypoventilation Syndrome (OHS) With Extreme OSA Burden, Complicated by Acute on Chronic Hypercapnic Respiratory Failure
- P400 When Sleep Becomes the Enemy: Prazosin for PTSD-Related Sleep Dysfunction in a Community Hospital Setting- A Case Series
- P401 Unveiling the Upper Airway: Drug Induced Sleep Endoscopy (DISE) Unmasking the Anatomical Causes of Airway Obstruction in Sleep Apnea
- P402 Out of Proportion Oxygen Desaturation in a Patient With Obstructive Sleep Apnea: A Patent Foramen Ovale Case Successfully Closed and Relieved Hypoxemia
- P403 Barotrauma Due to Positive Pressure Therapy in Patients With Obstructive Sleep Apnea
- P404 Gasping, Bradypnea, and Obtundation: An Unusual Case of Respiratory Failure From Seizures
- P405 Respiratory Failure Secondary to Giant Hydronephrosis
- P406 A Case of a Violent Sleeper: Rear, Real and Deadly
- P407 Hypercapnia Due to Limb-Girdle Muscular Dystrophy

BEHAVIORAL • CLINICAL

THEMATIC POSTER SESSION

B80-5 DIAGNOSING LUNG CANCER: MORE THAN A SCAN

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area J (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1067 Impact of Incidental Lung Nodule Program on Early Cancer Detection and Return on Investment
- P1068 PET CT Scan Evaluation of Mediastinal Disease in Early Stage Lung Cancer
- P1069 The Low Yield of Urgent Hemoptysis Referrals for Lung Cancer Clinics: Data From a Tertiary Referral Centre in Ireland
- P1070 The Incidence of Repeat Thoracentesis Vs. Definitive Management in Patients With Biopsy Proven Malignant Pleural Effusion
- P1071 The High Cost of Lacking Lung Cancer Screening in Minority Low-income Communities in Northeast Brooklyn, New York
- P1072 A Retrospective Analysis of the Safety and Efficacy of Ultrasound-guided Thoracostomy for Pneumothorax Management
- P1073 Enhancing Early Detection of Incidental Lung Nodule: Implementation and Impact
- P1074 Correlation of PET-CT Uptake, Endobronchial Ultrasound Cytology, and Surgical Biopsy in Patients With Non-small Cell Lung Cancer Undergoing Curative Surgery
- P1075 Tackling Health Inequity One Text at a Time
- P1076 Impact of a Lung Nodule Referral Program on Early-stage Lung Cancer Diagnosis: A Retrospective Review
- P1077 Uncovering Barriers to Lung Cancer Screening: Understanding the Challenge of LDCT Non-acquisition

P1078 Barriers to Lung Cancer Screening (LCS): A Quality Improvement Project to Increase Lung Cancer Screening in Resident-run Continuity Clinics

P1079 A Culturally Integrated Strategy to Increase Lung Cancer Screening Uptake in the Asian-american Community

P1080 Reaching the Underserved for Cancer Screening: Digitally

P1081 Lunging for a Solution: Where Are We Going Wrong With Lung Cancer Screening? Data From a New York City Safety Net Hospital

CLINICAL

THEMATIC POSTER SESSION

B80-6 GET ME TO THE AIRWAYS: IP, CENTRAL TUMORS, AND MORE

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area J (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1083 Pulmonary Hamartomas as an Endobronchial Lesion: A Clinical Challenge for Diagnosis and Management
- P1084 Imperium Tumore
- P1085 Quite a Mouthful: Inflammatory Myofibroblastic Tumor (Plasma Cell Granuloma) of the Trachea Presenting With Acute Airway Obstruction
- P1086 Sarcoid-like Reaction or Sarcoidosis: A Case of Lung Cancer With Intrathoracic Lymphadenopathy
- P1087 Combining Balloon Dilation With Robotic Bronchoscopy in Management of Radiation-induced Peripheral Airway Stenosis
- P1088 An Unusual Presentation of an Endobronchial Mullerian Tumor
- P1089 Three Synchronous Primary Lung Cancers Diagnosed in One Bronchoscopy
- P1090 Central Airway Obstruction in Small Cell Lung Cancer

- P1091 Chasing the Negative: How Far Will You Go?
- P1092 Marvels of Robotic Bronchoscopy: Diagnosing Multifocal Lung Cancer With Synchronous Primaries in a Patient With Chronic Lymphocytic Leukemia
- P1093 Coexistent de Novo Small Cell Carcinoma and Lymphoproliferative Disorder in a Lung Transplant Recipient
- P1094 Combining 1.1mm Cryoprobe With Endobronchial Ultrasound Guided Transbronchial Fine Needle Aspiration Biopsy: A New Standard of Care for Mediastinal Lymph Nodes Biopsy
- P1095 A Rare Case of Primary Spindle Cell Carcinoma of the Lung
- P1096 Pulmonary Amyloidoma Diagnosed With Robotic Bronchoscopy
- P1097 Bronchoscopic Management of a Rare Cause of Malignant Central Airway Obstruction
- P1098 A Very Rare Case of Endobronchial Obstruction Secondary to Breast Cancer Metastasis
- P1099 Metastatic Endometrial Cancer With Endobronchial Tumor
- P1100 Ultrasound-Guided Transthoracic Needle Biopsy in a Resource Limited Setting - A Case Report and Feasibility Analysis
- P1101 Two Cases of Stridor
- P1104 Detecting Malignancy: Importance of Physical Examination in the Diagnostic Process
- P1105 A Not So “Good” Syndrome: Thymoma and Hypogammaglobulinemia With Mystery Malignancy
- P1106 Metastatic Small Cell Lung Cancer Masquerading as Spontaneous Intraparenchymal Hemorrhage
- P1107 The Silent Intruder: Recognizing Pituitary Metastasis in Small Cell Lung Cancer
- P1108 Synchronous Lung and Colon Cancer: Multidisciplinary Challenges
- P1109 Pulmonary Mucinous Adenocarcinoma
- P1110 A Case of Pulmonary Epithelioid Hemangioendothelioma Diagnosed in a Patient With Multiple Pulmonary Nodules
- P1111 A Wolf in Sheep’s Clothing: Thymic Neuroendocrine Tumor Masquerading as Thymoma on Core Needle Biopsy
- P1112 Hidden in the Heartbeat: T-Lymphoblastic Leukemia Masked as a Mediastinal Mass
- P1113 Acute T Cell Lymphoblastic Lymphoma vs Thymoma- A Diagnostic Challenge
- P1114 Lymphangitic Carcinomatosis Masquerading as Rapidly-Progressive Interstitial Lung Disease
- P1115 Unraveling the Cavitory Mystery: Is It Infection, Neoplasm, or Something Else?
- P1116 Diffuse Idiopathic Neuroendocrine Cell Hyperplasia - A Rare Condition Presenting as Asymptomatic Diffuse Pulmonary Nodules
- P1117 A Rare Case of Difficult to Diagnose Lymphoma Complicated by Melioidosis
- P1118 The Growth Pattern of Pulmonary Sclerosing Pneumocytoma Followed by Computed Tomography for 8 Years
- P1119 A Mediastinal Mass That Took up More Than Just Space
- P1120 Pleural Spindle Cell Sarcoma Masquerading as a Rapidly Growing Pulmonary Infection
- P1121 Pulmonary Lymphoma Manifesting as Cystic Lung Disease and Nodules
- P1122 A Case of Delayed Diagnosis: Small Cell Lung Cancer Concealed by Emphysema

CLINICAL

THEMATIC POSTER SESSION

B80-7 DIAGNOSTIC DILEMMAS IN THORACIC ONCOLOGY

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area J (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1103 Epstein-Barr Virus (EBV) Discordance: The Tale of a Pulmonary Post-transplant Lymphoproliferative Disorder (PTLD) in a Heart Transplant Recipient

- P1123 A Rare Case of Pulmonary Adenocarcinoma Disguised as Cryptogenic Organizing Pneumonia
- P1124 Cavitory Challenges: Poorly Differentiated Malignancy of Unknown Origin in a Young Adult
- P1125 Go With the Flow: Diagnosis of Pulmonary T-Cell Prolymphocytic Leukemia
- P1126 Beyond Resemblance: The Pneumonia-Mimicking Invasive Mucinous Adenocarcinoma and Its Impact on Diagnosis, Therapy, and Prognosis
- P1127 Metastatic Melanoma Presenting as Diffuse Nodulocystic Imaging Findings
- P1128 Diffuse Paratracheal, Mediastinal, and Hilar Lymphadenopathy From Small Lymphocytic Lymphoma
- P1129 Squeezing the Truth: Cardiac Tamponade Revealing Squamous Cell Carcinoma of the Lung
- P1130 The Art of Diagnosis: Cyto-Histopathological Correlation in Metastatic Lung Cancers - A Rare Case Report
- P1131 Incidental Diagnosis of B-cell Lymphoma After a Fall
- P1132 A Puzzling Pathology: A Rare Presentation of Lung Adenocarcinoma
- P1133 An Uncommon Presentation of Pulmonary Adenocarcinoma
- P1134 Enchondroma vs Low-Grade Chondrosarcoma: Differences and Therapeutic Consequences
- P1135 Adenocarcinoma Presenting as a Spontaneous Mediastinal Hematoma
- P1136 Carcinoid Tumor Presentation in a Young Pregnant Female: A Challenging Diagnosis and Management
- P1137 Unusual Cause of Isolated Episode of Hemoptysis
- P1138 A Very Rare Presentation of a Rare Lung Cancer: Intussusception as the Presenting Symptom of Sarcomatoid Carcinoma of the Lung
- P1139 Third Time's a Charm; A Case of Invasive Squamous Cell Carcinoma of Larynx Causing Recurrent Respiratory Failure
- P1140 Different Faces of Hemoptysis
- P1141 HPV Tracheal Papilloma Presenting as a Chronic Cough

- P1142 Diffuse Idiopathic Pulmonary Neuroendocrine Cell Hyperplasia (DIPNECH): A Case of an Asthmatic of Years
- P1143 Decades of Hiding: Adenosquamous Carcinoma Masquerading as Sarcoidosis
- P1144 Metastatic Angiosarcoma: A Diagnostic Dilemma
- P1145 Malignant Masquerader: A Case of Hepatocellular Carcinoma Extending Through the Inferior Vena Cava to Present as an Isolated Right Atrial Mass
- P1146 Pulmonary Malt Lymphoma Presenting as Multifocal GGOs

CLINICAL

THEMATIC POSTER SESSION

B80-8 UNCOMMON COMPLICATIONS IN THORACIC ONCOLOGY

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

San Diego Convention Center

Area J (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: **11:30-12:30** Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees


- P1148 Double Trouble, Concomitant Superior Vena Cava Syndrome and Inferior Vena Cava Syndrome Complicating Large Cell Neuroendocrine Carcinoma of the Lung
- P1149 Diabetes Insipidus and Panhypopituitarism as a Presentation of Brain Metastasis From Lung Adenocarcinoma: A Case Report
- P1150 Poorly Differentiated Lung Carcinoma With Paraneoplastic Hypereosinophilia and Lymphangitic Spread: A Poor Prognosis
- P1151 Concomitant Bad Luck: A Case of IgG4 Related Disease and Lung Cancer
- P1152 Mucinous Adenocarcinoma of Unknown Primary Presenting as Multiple Pulmonary Nodules With Peripheral Eosinophilia
- P1153 Superior Vena Cava Syndrome in a Patient With Lung Adenocarcinoma

- P1154 Metastatic Pulmonary Adenocarcinoma Presenting With Hypereosinophilia and Bilateral Pulmonary Embolism**
- P1155 Pulmonary Sarcomatoid Carcinoma Presenting as a Myasthenia Gravis-like Syndrome**
- P1156 Beyond the Norm: A Case of Hypereosinophilia in Solid Tumor of the Lung**
- P1157 Superior Vena Cava Syndrome Due to Mediastinal Teratoma**
- P1158 When Small Cell Lung Cancer Strikes Twice: A Case of Metastasis-induced Acute Pancreatitis**
- P1159 Severe Bleeding Secondary to Acquired Hemophilia A in a Patient With Lung Cancer**
- P1160 Management of Stage IVa Thymoma With Lambert-Eaton Myasthenic Syndrome in a Post-Partum Female**

In this interactive 1-hour Meet the Expert workshop, participants will learn how to effectively improve their public speaking skills, thus elevating their performance while delivering scientific presentations, leading clinical rounds, teaching educational sessions, running effective meetings, and more. We will discuss the data for why public speaking skills are critically important, discuss the role of implicit bias in public speaking, employ effective strategies to improve public speaking skills, and learn quick pearls for different public speaking settings, such as presentations, meetings, didactics, rounds, meetings, podcasts, and more.

MEDICAL EDUCATION SEMINAR

ME102 WINNING WITH WORDS: PUBLIC SPEAKING SKILLS FOR CLINICIANS, EDUCATORS & SCIENTISTS

 Pre-registration and additional fee required. Attendance is limited.
\$100 Member/Non-Member

10:30 a.m. - 11:30 a.m. Marriott Marquis San Diego Marina
Marina Ballroom E (Level 3, South Tower)

Target Audience

Clinicians (physicians, nurses, and other clinicians), educators, researchers, early career professionals - extremely broad appeal to all ATS members who give talks, oral presentations, didactics, and more.

Objectives

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

- apply public speaking skills such as pacing, body language, eye contact, and avoiding fillers, to improve their next oral presentation or public speaking event.
- incorporate and apply public speaking strategies into improving running rounds, delivering scientific presentations, running meetings, or speaking on public-facing media such as podcasts, television, or radio.
- apply patient and family-centered communication skills to improve patient and public trust in the patient-clinician relationship.



**ATS 2024
International
Conference**

ATS 2024 San Diego, CA

Monday Mid-day, May 20

ADULT CLINICAL CORE CURRICULUM

CC3 ADULT PULMONARY CLINICAL CORE CURRICULUM

11:30 a.m. - 1:00 p.m. **San Diego Convention Center**
Ballroom 20B-D (Upper Level)

Objectives

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

- integrate current guidelines into the care of people with community acquired pneumonia
- discuss the management of infectious complications in people with bronchiectasis
- describe the current identification and management of people with pulmonary tuberculosis

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 *The Road Ahead*.

11:30 The Road Ahead: The Changing Epidemiology of Tuberculosis

11:55 RIPE for the Picking: Updates in the Treatment of Tuberculosis

12:20 Hiding in Plain Sight: Latent Tuberculosis Screening and Treatment

12:45 Question and Answer

11:45 a.m. - 1:15 p.m.

ATS WOMEN'S FORUM

Manchester Grand Hyatt San Diego

Seaport ABC Ballroom (Second Level, Seaport Tower)

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.

Pre-registration and an additional fee are required.
\$30 members/non-members

SPS5 PREVENTING RSV: PROVIDING OLDER PATIENTS WITH THE INFORMATION THEY NEED

12:00 p.m. - 1:00 p.m. **San Diego Convention Center**
Room 6A (Upper Level)

12:00 Preventing RSV: Providing Older Patients With the Information They Need

ATS SCHOLAR

MID-DAY SESSION

MD14 FROM THE ATS SCHOLAR EDITORS: PEARLS AND PITFALLS IN HEALTH PROFESSIONS EDUCATION RESEARCH11:30 a.m. - 12:30 p.m. **Marriott Marquis San Diego Marina**

Cardiff (Level 3, South Tower)

Target Audience

Clinician educators (physicians, nurses, respiratory therapists) who seek to publish work related to their education and quality improvement projects.

Objectives

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

- apply the standards of excellence in educational scholarship while incorporating a framework of developing research questions for health professions education manuscripts
- apply the Kirkpatrick model for levels of evidence of educational research to determine meaningful and measurable for publishable educational projects.
- understand and apply ATS Scholar journal standards of publication for different manuscript types to projects in common areas of health professions education research

ATS Scholar is the only journal of the 4 ATS peer-reviewed journals focused on publishing content related to health professions education. Clinician educators are the fastest growing group in academic Pulmonary/Critical Care/Sleep medicine, but many clinician educators have not received adequate training in the steps that are necessary to study an educational project in such a manner that the output is a publishable manuscript. The Senior Editors of ATS Scholar will provide a roadmap on how to do this, with pearls of wisdom as well as pitfalls to avoid.

12:00 Introduction**12:05 Understanding Educational Scholarship****12:15 Panel Question and Answer 1****12:20 Panel Question and Answer 2****12:25 Meaningful Outcomes in Educational Research****12:35 Panel Question and Answer 3****12:40 Panel Question and Answer 4****12:45 ATS Scholar Standards of Publication for Educational Research****12:55 General Discussion**

AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY

MID-DAY SESSION

MD15 RED IN ACTION II: LUNG RESEARCH HIGHLIGHTS FROM AJRCMB

12:00 p.m. - 1:00 p.m.

San Diego Convention Center**Room 30A-B (Upper Level)****Target Audience**

individuals interested in basic mechanisms and pathobiology of lung disease; individuals who publish basic mechanistic and translational lung research; individuals interested in the peer review and editorial process for Am J Respir Cell Mol Biol

Objectives

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

- describe new findings about emerging breakthroughs of molecular mechanisms for lung disease, as reported in Am J Respir Cell Mol Biol
- better understand the features of mechanism-deciphering lung pathobiology research, and elements that create potential for future impact in the field.
- better understand the peer review process, in particular critical elements necessary for publication of research articles in the Red Journal.

The session will feature two presentations from early career researcher of new exemplary articles that are accepted for publication in the American Journal of Respiratory Cell and Molecular Biology. Presenters will highlight cellular and molecular mechanisms of lung disease, inflammation, tissue repair and innovative research approaches. Associate Editors will also provide commentary on the novelty and relevance of the work, and the critical elements that led to publication of the work in the Red Journal.

12:00 PM Session Summary**12:04 Associate Editor Summary of Review Process and Paper Impact****12:09 Kisspeptin/KISS1R Signaling modulates Human Airway Smooth Muscle Cell Migration****12:24 Author - Editor Panel Discussion**

12:31 Associate Editor Summary of Review Process and Paper Impact

12:36 TRPV4 Regulates the Macrophage Metabolic Response to Limit Sepsis-induced Lung Injury

12:53 Author - Editor Panel Discussion

**ATS RESEARCH PROGRAM;
AM. LUNG ASSOCIATION; NHLBI, NINR, PCORI**

MID-DAY SESSION

MD16 RESEARCH FUNDING OPPORTUNITIES

12:00 p.m. - 1:00 p.m. San Diego Convention Center

Room 28A-B (Upper Level)

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 panels
- 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. Time will also be provided for audience members to ask questions of the panel of speakers.

12:00 Introduction

12:02 National Heart Lung Blood Institute

12:10 American Lung Association

12:18 Patient Centered Outcomes Research Institute

12:26 ATS Research Program

12:34 National Institute of Nursing Research

12:42 Pulmonary Hypertension

12:50 Conclusion and Q&A

CTSA ONE HEALTH ALLIANCE

MID-DAY SESSION

MD17 ASTHMA ACROSS SPECIES: A COMPARATIVE APPROACH TO UNDERSTANDING PATHOLOGY AND THE MICROBIOTA

12:00 p.m. - 1:00 p.m.

San Diego Convention Center

Room 29A-D (Upper Level)

Target Audience

1. Clinician-scientists treating asthma, seeking to learn from across disciplines. 2. Scientists interested in cross-species asthma models. 3. Clinicians and researchers interested in cross-species collaborations or interest in asthma microbiome.

Objectives

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

- improve awareness of two large animal models of allergic and severe asthma useful in human pre-clinical trials. Goal: to improve cross-species translational collaborations and enhance study of long-term remodeling effects of current asthma therapies.
- understand respiratory dysbiosis associated with airway inflammation. Goal: to relate airway dysbiosis of animal models with human asthma and identify gaps in understanding that can be improved with animal models.
- learn about changes in airway microbiome and inflammation of animals, and correlate these changes with large airway physiology that could improve understanding of human asthma.

While asthma has benefitted from work in induced murine models, results may not translate well to human patients. Cats and horses spontaneously develop asthma similar to humans in anatomy, physiology, and immunology and may serve as important pre-clinical models. Cats develop allergic asthma with airway eosinophilia. Horses develop neutrophilic asthma. Asthma can be studied in pet cats or induced with clinically relevant aeroallergens in research cats. Asthma exacerbation and remission can be studied in horses by exposure to naturally offending antigens. Complex genetics, shared environmental exposures, and airway dysbiosis increase the relevance of these spontaneous asthma models for humans. Both animal models allow us to study unexplored issues of human asthma in a unique way and possibly yield novel therapeutics.

12:00 Heterogeneity of Asthma Immunology in Humans

- 12:15 **Feline Asthma: A Model Concordant with Human Eosinophilic Asthma and its Airway Microbiome**
- 12:30 **Equine Asthma: A Non-Eosinophilic Model of Human Asthma and Study of its Airway Microbiome**
- 12:45 **Human Asthma and the Microbiome: What Can We Learn from Other Species?**

**NATIONAL HEART, LUNG
AND BLOOD INSTITUTE, NIH**

MID-DAY SESSION

MD18 NEW OMICS FINDINGS FROM THE NHLBI PVDOMICS PROGRAM IN PULMONARY HYPERTENSION PATIENTS

12:00 p.m. - 1:00 p.m. San Diego Convention Center
Room 7A-B (Upper Level)

Target Audience

Health providers, trainees, and researchers

Objectives

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

- learn about how RNAomics (genomics) of blood can aid in the discovery of mechanisms that contribute to pulmonary hypertension.
- learn about metabolomics and right ventricular function in pulmonary hypertension.
- learn about sleep disordered breathing-metabolomics work in relation to clinical outcomes.

Pulmonary hypertension (PH) has no cure, and PH research remains a high priority for NHLBI. The current PH classification is difficult to apply clinically for precision medicine therapy. In 2014, NHLBI launched a multi-center clinical study named: Redefining Pulmonary Hypertension through Pulmonary Vascular Disease Phenomics (PVDOMICS), which includes 1 Data Coordinating Center & 6 clinical centers to conduct an observational study in PH patients. The overall goal of the PVDOMICS is to perform deep phenotyping across all PH groups and intermediate phenotypes in order to reconstruct the traditional classification and define new meaningful subclassifications. About 1200 participants have been enrolled, and the clinical and omics results from these subjects will be presented at this noon session.

- 12:00 **PVDOMICS - Metabolomics and Right Ventricular Function**
- 12:15 **Sleep Disordered Breathing-Metabolomics Work in Relation to Clinical Outcomes**
- 12:30 **RNA Sequencing Analysis, Delving into the Surprising and Unknown**
- 12:45 **Person-Specific Network Analyses**

CENTERS FOR DISEASE CONTROL AND PREVENTION

MID-DAY SESSION

MD19 OVERVIEW OF CDC'S SUPPORT, COLLABORATION, AND RESPONSE WORK RELATED TO WILDLAND FIRES

12:00 p.m. - 1:00 p.m. Marriott Marquis San Diego Marina
Grand Ballroom 11-13 (Lobby Level, North Tower)

Target Audience

Clinicians and public health professionals interested in population health issues relating to wildland fire.

Objectives

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

- better understand the public health importance and burden of wildland fire on population health.
- better understand of programmatic work and partnerships at the federal level to assess and address issues associated with wildland fire.
- identify areas where participants and their communities may be impacted by wildland fire and its smoke as well as actions that they can take to prepare and respond to these issues.

Climate change, policies that led to unnatural accumulations of fuels, and urban expansion have resulted in a 4-fold increase in acreage burned by wildfires in the United States between 1985 and 2019. Wildland fire smoke now accounts for more than 50% of PM2.5 concentrations in many western states. The 2023 wildfires demonstrated that this is a transnational problem. This session will discuss the efforts of the Centers for Disease Control and Prevention's (CDC) and its partner organizations to assess and address the cumulative public health impacts of wildland fire in regard to prevention, mitigation, preparedness, response, and recovery.

12:00 The Impact of Wildland Fire Smoke on Human Health

12:20 Assessing the Air Quality and Corresponding Ecological and Public Health Impacts of Wildland Fire Smoke

12:40 The Land Management Perspective of the Population Health Burden and Impact of Wildland Fire

NHLBI, NIH

MID-DAY SESSION

MD20 AN UPDATE FROM THE PRECISION INTERVENTIONS FOR SEVERE AND/OR EXACERBATION-PRONE ASTHMA (PRECISE) NETWORK

12:00 p.m. - 1:00 p.m. Marriott Marquis San Diego Marina

Grand Ballroom 2-4 (Lobby Level, North Tower)

Target Audience

Physician scientists, PhD researchers, trainees, students

Objectives

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

- apply how precision medicine-based adaptive trial platform designs can be used to evaluate novel interventions in chronic lung disease
- describe key characteristics of a severe asthma cohort that is symptomatic in spite of current therapeutic regime
- understand how biomarkers can be used to define patient subpopulations for stratified clinical trials

The goal of the PrecISE Network is to accelerate the use of precision based treatment approaches for management and secondary prevention of asthma in well-phenotyped patients with severe and/or exacerbation-prone asthma to improve patient outcomes and potentially modify disease expression. As well, it is expected that new knowledge will be generated regarding phenotypes, predictive and monitoring biomarkers, trial outcomes, the natural history of disease, and therapeutic responsiveness. The PrecISE trial is currently enrolling nationwide, using an innovative adaptive platform design to test five novel interventions in severe asthma. In this session we will describe the demographics and clinical baseline characteristics of the study cohort, and provide an update on study progress.

12:00 PrecISE Protocol and Update Cohort and Baseline Characteristics

12:15 PrecISE Cohort Baseline Characteristics

12:30 PrecISE Cohort Population Strata

12:45 Discussion and Questions

NASA APPLIED SCIENCES PROGRAM

MID-DAY SESSION

MD21 CONNECTING NASA EARTH SCIENCE APPLICATIONS WITH AIR QUALITY AND RESPIRATORY HEALTH

12:00 p.m. - 1:00 p.m. Marriott Marquis San Diego Marina

Grand Ballroom 8-9 (Lobby Level, North Tower)

Target Audience

Physicians; nurses; allied health professionals; public health practitioners; community health educators; researchers who are interested in using Earth observation data for environmental and occupational health research applications

Objectives

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

- describe cross-cutting environmental health applications of the NASA Health and Air Quality Program, relevant for pulmonary clinicians and researchers.
- notify clinicians and researchers about ongoing NASA projects and missions that examine pulmonary and cardiovascular disease risks and provide resources about local, state, national and international levels on air pollution and extreme heat.
- evaluate at least three examples where NASA satellite data can be applied to air pollution or extreme heat as global health risks.

Earth science data provide an in-depth view of how natural and anthropogenic phenomena impact public health, especially in our changing environmental world. This session will describe how NASA satellite data can strengthen cross-cutting environmental health research applications and valuable community stakeholder partnerships to address emerging risks like climate change. It will highlight a subset of current NASA projects and missions that assess potential health risks associated with poor air quality and extreme heat events, which can ultimately support clinical practice and policy decision-making within health and air quality sectors.

12:00 Linking Earth Science Applications to Understand Respiratory Health Risks: Updates from NASA Health and Air Quality Applications

- 12:15 **The NASA TEMPO Mission: Hourly Daytime Air Pollution Observations from Geostationary Orbit for Advanced Health and Air Quality Applications**
- 12:30 **Weekly Briefing of Fire and Air Quality (FireAQ): Progresses and Lessons in 2023**
- 12:45 **Extreme Heat and Health Collaborations to Reduce Health Disparities**

NHLBI, NIH

MID-DAY SESSION

MD22 ARDS, PNEUMONIA, AND SEPSIS PHENOTYPING CONSORTIUM

12:00 p.m. - 1:00 p.m. San Diego Convention Center Room 24A-C (Upper Level)

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:

- understand the goal and scope of the APS phenotype consortium
- learn the resource available from the APS consortium for the broader community
- participate in discussions related to the use of APS consortium data and biospecimens

NHLBI/NIGMS awarded the ARDS, Pneumonia, and Sepsis (APS) consortium on 5/1/23. APS goals: 1) understand the heterogeneity and underlying mechanisms of critical illness syndromes and recovery, specifically in adults w/ARDS, pneumonia, and/or sepsis; Understand the relationship and biological overlap among these syndromes; 2) collect/disseminate data and biospecimens as a resource to the broader research community. One coordinating center/six clinical centers will enroll approximately 5000 patients and conduct consortium-wide studies and center-specific studies. This platform will highlight/showcase the research goals, scopes, and novel findings and advocate the available resource for the broader community to further facilitate research and future knowledge in this field.

- 12:00 **Overview of APS Consortium**
- 12:12 **APS Consortium Scientific Vision**

- 12:24 **Study Protocols**
- 12:36 **Long-Term Outcomes**
- 12:48 **Data and Biospecimen Sharing**

CENTERS FOR DISEASE CONTROL AND PREVENTION

MID-DAY SESSION

MD23 TUBERCULOSIS (TB) RESEARCH AND PROVIDER/COMMUNITY ENGAGEMENT UPDATES FROM CDC

12:00 p.m. - 1:00 p.m. San Diego Convention Center Room 2 (Upper Level)

Target Audience

Clinicians and researchers interested in tuberculosis.

Objectives

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

- describe the global burden of TB and the current landscape of clinical trials in drug-susceptible TB and new CDC-sponsored trial S38/CRUSH-TB.
- describe the importance of socio-behavioral research and its ability to improve patient experiences and provider perceptions and practices of TB prevention and treatment and inform future work to engage with providers on TB testing and treatment.
- apply new strategies to reduce disparities in TB through provider outreach and community engagement efforts.

The session will orient participants about the global burden and risk factors for TB by highlighting the status of clinical trials for drug-susceptible TB and an overview of the CDC-sponsored global clinical trial of 4-month treatment regimens using newer TB drugs. The session will also include a review of previous and proposed socio-behavioral work within CDC's Tuberculosis Trials Consortium (TBTC) and the importance of integrating socio-behavioral perspectives in both TBTC governance and future research. Learners will also gain knowledge of U.S.-based providers' self-reported TB testing and treatment practices for latent TB infection (LTBI) based on the results of a national survey. Finally, session participants will learn about provider outreach strategies and community engagement efforts through the U.S.-based Tuberculosis Elimination Alliance.

- 12:00 **CDC-Sponsored Trial S38/CRUSH-TB: A Study of Two Investigational Four-Month Regimens For Drug-Susceptible TB.**

12:15 Incorporating Socio-behavioral Research into TB Clinical Trials to Improve Patient Experiences and Provider Perceptions

12:30 Tuberculosis Testing and Latent Tuberculosis Infection Treatment Practices Among Health Care Providers

12:45 Provider Outreach and Community Engagement Efforts to Reduce TB Health Disparities

NHLBI, NIH

MID-DAY SESSION

MD24 NEW FINDINGS FROM THE SUBPOPULATIONS AND INTERMEDIATE OUTCOMES IN COPD STUDY (SPIROMICS) FAMILY OF STUDIES: SPIROMICS, SOURCE, SPIROMICS HF

12:00 p.m. - 1:00 p.m. Marriott Marquis San Diego Marina

Pacific Ballroom 24-26 (Ground Floor, North Tower)

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
- understand how the COVID-19 pandemic may have affected COPD patients

SPIROMICS is a clinical observational study intended to identify different subpopulations of individuals w/COPD and ultimately define endotypes within this heterogeneous disease that are responsive to mechanism-specific interventions. SPIROMICS is performing intensive longitudinal phenotyping of a cohort that consists of individuals w/smoking history with and without COPD, and control participants without smoking history. SPIROMICS studies include: SOURCE, a cohort-design investigating COPD Origins; SPIROMICS Heart Failure, collecting cardiovascular measures in a subset of the SPIROMICS cohort; and C4R, a cohort of cohorts to determine factors that predict disease severity and long-term health impacts of COVID-19. Updates on

SPIROMICS study results and progress of other studies will be included.

12:00 How Do Different Categories of "Pre-COPD" Fit Together?

12:15 Investigating the Origins of Early COPD in the SOURCE

12:30 Sex-Based Differences in the Right Ventricle (RV) in COPD in SPIROMICS HF

12:45 Implications of COVID-19 for COPD (C4R study in SPIROMICS)

NATIONAL INSTITUTE ON AGING

MID-DAY SESSION

MD25 UPDATES ON LUNG HALLMARKS OF AGING

12:00 p.m. - 1:00 p.m.

San Diego Convention Center

Room 8 (Upper Level)

Target Audience

Clinicians, physiologists, molecular biologists, epidemiologists, and all points in between

Objectives

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

- update on hallmarks of lung aging
- determine whether lung and pulmonary vasculature aging/cellular senescence is related to disease pathogenesis
- describe new findings about other cellular perturbations and lung aging in chronic lung diseases

Lung aging is associated with molecular and physiological changes that cause alterations in lung function, diminished pulmonary remodeling and regenerative capacity, and increased susceptibility to acute and chronic lung diseases. Recent findings show diverse mechanisms that support a role for several aging hallmarks including senescence, oxidative damage, telomeric maintenance failure, inflammation and metabolic dysfunction that contribute to lung aging. The purpose of this session is to have presentations on the state of scientific findings on the molecular and cellular mechanisms of aging which contribute to the pathological features of lung aging and pulmonary dysfunction.

12:00 Cellular Hallmarks of Human Lung Aging - Lesson from Single Cell and 'Omics' Analyses

- 12:15 **The Extracellular Matrix as a Contributor to the Hallmarks of Lung Aging**
- 12:30 **Immune Mechanisms of Lung Aging Based on Infections**
- 12:45 **Cellular Senescence, Senolytics, and Respiratory Disorders and Diseases**

VETERAN'S ADMINISTRATION

MID-DAY SESSION

MD26 RESEARCH IN VHA'S LPOP PROVIDES IMPORTANT OPPORTUNITIES TO IMPROVE LUNG CANCER SCREENING

12:00 p.m. - 1:00 p.m. **San Diego Convention Center**
Room 6D (Upper Level)

Target Audience

Providers of lung health; those interested in and/or overseeing lung cancer screening programs; those with interests in public and population health; those interested in lung cancer; those interested in interventional pulmonary medicine.

Objectives

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

- apply new strategies in selecting patients for lung cancer screening, such as prediction-augmented approaches.
- better counsel patients who are active cigarette smokers in a screening program in the value of committing to use of aggressive approaches for smoking cessation.
- describe new findings about the relationships between baseline health status and whether the patient will be likely to benefit from lung cancer screening.

Lung cancer is a leading cause of death. VHA has embarked on the Lung Precision Oncology Program (LPOP) that includes a focus on screening. Selecting patients for screening by age and cigarette smoking improves lung cancer mortality but is resource-intensive, identifies lung cancer in less than 5%, and is under used overall and possibly over used in frail patients. This session will describe research projects in LPOP that identify more efficient approaches for selection, determine how baseline health status affects outcomes, examine how cigarette smoking can be treated effectively, and evaluate impacts of program organizational structure on uptake and access.

12:00 Prediction-Augmented Approach to Patient Selection for Lung Cancer Screening in LPOP.

- 12:10 **Radiomic Approach to Risk Stratification for Patients Undergoing Lung Cancer Screening in LPOP**
- 12:20 **Overcoming Barriers to the Integration of Smoking Cessation into Lung Cancer Screening**
- 12:30 **Lung Cancer Screening Organizational Characteristics and Program Performance in LPOP**
- 12:40 **Lung Cancer Screening for Veterans in LPOP: Measuring Real-World Benefit and Harm**
- 12:50 **Discussion, Q&A**

NHLBI, NIH

MID-DAY SESSION

MD27 TRANS-OMICS FOR PRECISION MEDICINE (TOPMED) PHASE 2: FROM WGS TO FUNCTIONAL GENOMICS

12:00 p.m. - 1:00 p.m. **San Diego Convention Center**
Room 8 (Upper Level)

Target Audience

The target audience will include researchers, physicians, and vendors that are interested in molecular and cellular basis of lung diseases and precision medicine.

Objectives

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

- understand the progress report of TOPMed as a resource for genomics study
- learn from omics data on aging, gender, and lung diseases.
- understand recent progress in the discovery of genetic basis of common, complex diseases like COPD and IPF.

NHLBI's Trans-Omics for Precision Medicine (TOPMed) is to create a large genomic dataset supporting research communities' efforts on precision medicine. In its first phase, TOPMed has generated 200,000 whole genome sequencing (WGS) data. Starting its second phase, TOPMed is moving toward the functional genomics and will generate 270,000 multi-omics data (RNA-seq, methylome, metabolome, and proteome). Overall, this session aims to showcase the work of TOPMed as a community resource for precision medicine research. It will highlight the diverse applications of TOPMed data in studying asthma, COPD, and IPF, and emphasize the potential for improving diagnosis, treatment, and prevention strategies in these respiratory conditions.

- 12:00 TOPMed Data and How to Access It
 12:15 Lifecourse Omics from Asthma to COPD
 12:30 IPF, a Rare Disease with Complex Genetic Basis
 12:45 Integrative Genomics Analysis of COPD

PEDIATRIC CLINICAL CORE CURRICULUM

PCC2 PEDIATRIC CLINICAL CORE CURRICULUM 2

12:00 p.m. - 1:00 p.m. San Diego Convention Center
 Ballroom 20A (Upper Level)

Target Audience:

All attendees

Objectives

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

- discuss the management of pediatric ARDS, massive hemoptysis, and severe asthma in the ICU
- explain the role of the pediatric pulmonologist in a cardiovascular ICU
- identify strategies to approach discussions around tracheostomy and for planning effective transition out of the ICU

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. Unlocking Potential

- 12:00 **Unlocking Potential: The Pediatric Pulmonologist Role in the CVICU**
 12:25 **From Cough to Crisis: Managing Hemoptysis and Pulmonary Hemorrhage**
 12:50 **Question and Answer**



ATS 2024
International
Conference

ATS 2024 San Diego, CA

Monday Afternoon, May 20

ADULT CLINICAL CORE CURRICULUM

CC4 ADULT SLEEP CLINICAL CORE CURRICULUM

2:15 p.m. - 3:45 p.m. San Diego Convention Center
 Ballroom 20B-D (Upper Level)

Target Audience:

All attendees

Objectives

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

- describe the use of currently available wearable monitors in the evaluation and management of sleep disorders
- discuss updates in the management of sleep disorders in pediatric and underserved populations
- explain current approaches to managing hypersomnia, insomnia, and circadian rhythm 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 **Beyond CBT-I: What Else for Insomnia?**
- 2:40 **What's New in Pediatric Sleep Testing?**
- 3:05 **Against the Clock: Critical Illness and Circadian Rhythm**
- 3:30 **Question and Answer**

SPS6 POPULATION DIVERSITY IN CLINICAL TRIALS

2:15 p.m. - 3:15 p.m. Marriott Marquis San Diego Marina
Marina Ballroom E (Level 3, South Tower)

- 2:15 **Welcome and Introductions**
- 2:20 **Substantial Impact of Insufficient Clinical Trial Diversity**
- 2:26 **How Do We as a Respiratory Community Define Diversity in Clinical Trials**
- 2:32 **Designing a Clinical Trial with Diversity and Inclusion in Mind**
- 2:38 **Partnering with Research Sites and Patient Advocacy Groups on Clinical Trial Diversity**
- 2:44 **Legislation and FDA Guidance for Clinical Trial Diversity**
- 2:50 **Panel Discussion**
- 3:05 **Q&A**

BEHAVIORAL • CLINICAL • TRANSLATIONAL

YEAR IN REVIEW

B81 NURSING YEAR IN REVIEW: IMPLEMENTATION IN PULMONARY, CRITICAL CARE AND SLEEP

Assemblies on Nursing; Behavioral and Health Services Research

2:15 p.m. - 3:45 p.m. San Diego Convention Center
Room 2 (Upper Level)

Target Audience
 This session will be of interest to any clinician or clinician scientist who seeks to improve the care of patients by enhancing

the uptake of evidence based care practices in the areas of pulmonary care, critical care, and sleep.

- Objectives**
 At the conclusion of this session, the participant will be able to:
- define implementation and describe its role in translational research and the delivery of evidence-based care
 - provide an example of how an implementation approach was used to overcome a challenge in the delivery of or adherence to evidence-based care for patients with pulmonary disease, critical illness, or sleep disorders
 - describe an implementation framework or strategy they could apply in their research or clinical care

This Nursing Year in Review session will provide an overview of implementation (definitions, frameworks, and methodologies). This will be followed by presentations by nurse scientists from the fields of pulmonary disease, critical illness, and sleep. In their presentations, each will describe exemplar studies from 2023 that utilized implementation approaches to enhance the delivery of evidence-based care in their respective clinical fields.

- 2:15 **Implementation : Definitions, Theories, Frameworks and Strategies**
- 2:30 **Implementation Approaches in Pulmonary Care**
- 2:50 **Implementation Approaches in Critical Care**
- 3:10 **Implementation Approaches in Sleep Care**
- 3:30 **Moderated Discussion of Implementation Approaches**

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

CLINICAL TOPICS IN PULMONARY MEDICINE

B82 SCREENING AND EARLY DIAGNOSIS OF ILD IN PATIENTS WITH CONNECTIVE TISSUE DISEASE

Assembly on Clinical Problems

2:15 p.m. - 3:45 p.m. San Diego Convention Center
Ballroom 20A (Upper Level)

- Target Audience:**
 ILD clinicians, ILD translational scientists, general pulmonologists, rheumatologists, and radiologists
- Objectives**
 At the conclusion of this session, the participant will be able to:

- understand the current state of screening for ILD in CTD and integrate new ACR guidelines into current practice
- describe the current utility and limitations of clinical, blood-based, and radiomic biomarkers in CTD-ILD diagnosis and understand how to incorporate these biomarkers in clinical decision-making
- better counsel patients on management options after early diagnosis of CTD-ILD

Interstitial lung disease (ILD) is a serious complication of connective tissue disease (CTD), leading to significant morbidity and mortality. With several therapeutics known to improve outcomes, early recognition is critical. While HRCT is the current gold standard for diagnosis, it is not universally utilized as a screening tool in all high-risk patients. This symposium will review the current state of screening for CTD-ILD, highlight the 2023 American College of Rheumatology ILD Guidelines, explore the application of clinical, blood-based, and radiomic biomarkers, and review interventions after early CTD-ILD diagnosis. This multi-disciplinary panel comprises pulmonologists, rheumatologists, and radiologists.

- 2:15 Introduction and Overview**
- 2:18 Patient Speaker**
- 2:23 Current State of CTD-ILD Screening and Diagnosis**
- 2:38 Question and Answer**
- 2:43 Radiomics in CTD-ILD**
- 2:58 Question and Answer**
- 3:03 Clinical and Blood-Based Biomarkers of CTD-ILD**
- 3:18 Question and Answer**
- 3:23 Management Decisions After Early Detection of CTD-ILD**
- 3:38 Question and Answer**

*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

B83 ARTIFICIAL INTELLIGENCE IN THE RADIOLOGICAL ASSESSMENT OF INTERSTITIAL LUNG DISEASE

Assemblies on Clinical Problems; Pulmonary Circulation

2:15 p.m. - 3:45 p.m.

San Diego Convention Center

Room 6B (Upper Level)

Target Audience

General and ILD Pulmonologists and Radiologists Hospital administrators considering whether to invest in novel technology. Clinical trialists, the pharmaceutical industry and representatives from the FDA and NIH Trainees and Fellows

Objectives

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

- better understand the limitations associated with current radiological tools used for assessing patients with interstitial lung disease both in terms of diagnosis and prognostication and the opportunities which novel imaging techniques may hold
- better understand the different AI scientific approaches applied to CT scans in patients with interstitial lung disease
- develop a nuanced appreciation for the challenges associated with approval of new therapies using existing clinical trial end points and the opportunities which AI derived imaging biomarkers hold

This session will provide a cutting-edge update on the role of AI in the radiological assessment of ILD by exploring the new available technology and different scientific approaches employed. We will review the published literature and the emerging opportunities. We will evaluate the potential role of AI to expedite the diagnosis of ILD and to prognosticate from a baseline CT scan stratifying patients with the goal of earlier diagnosis and treatment. We will explore the barriers to adoption of novel technology in routine healthcare and regulatory challenges to establishing novel clinical trial endpoints to facilitate the approval of new therapies.

- 2:15 Introduction to the Symposium**
- 2:17 Current Perspectives on the Use of AI and Machine Learning in the Diagnosis and Management of Fibrotic Lung Disease**
- 2:32 The Quest to Dig Deeper into a CT Scan of the Chest**

- 2:47 **From COVID-19 to IPF: Developing Imaging Biomarkers that Impact Diagnosis and Course of Disease**
- 3:02 **Sharpening Our Tools. Finding Value in AI for ILD Biomarker Discovery**
- 3:17 **Seeing is Believing; Success in ILD Clinical Trials Using Novel Imaging Tools**
- 3:32 **Panel Discussion and Conclusions**

BEHAVIORAL • CLINICAL

CRITICAL CARE TRACK

B84 INTEGRATING GERIATRIC PRINCIPLES AND PRACTICES INTO CRITICAL CARE AND ICU RECOVERY

Assembly on Critical Care

2:15 p.m. - 3:45 p.m. **Marriott Marquis San Diego Marina**
Grand Ballroom 8-9 (Lobby Level, North Tower)

Target Audience

Clinician scientists studying critical illness and recovery; Physicians, nurses, pharmacists, social workers, physical and occupational therapists who care for patients in the ICU, on hospital wards, and in primary care and specialty clinics

Objectives

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

- integrate geriatric care principles into ICU care to reduce the incidence and impact of disability in survivors
- apply key geriatric principles of judicious medication management into clinical care in the ICU and in the outpatient setting
- learn to develop care plans that assess issues in transitions of care and fear of falls after critical illness

As the population ages, older adults represent an increasing proportion of the patients admitted to intensive care units. Barriers remain to integrating evidence-based geriatric concepts and person-centered care models into the care of older adults during and after critical illness. This session brings together a diverse range of experts from geriatrics, physiotherapy, pulmonary and critical care medicine, nursing, and pharmacy to discuss recommendations for further integrating person-centered, geriatrics-focused care into the practice of critical care medicine.

2:15 Polypharmacy In and After ICU

- 2:30 **Screening for Cognitive Impairment Following Critical Illness**
- 2:45 **Addressing Social Determinants of Health to Promote Recovery**
- 2:55 **Addressing Fear of Falls Among Older Survivors of ICU**
- 3:05 **Panel Q&A**
- 3:20 **Mitigating Long-Term Disability After Critical Illness: Lessons Learned From Geriatric Care Models**
- 3:35 **Ageing, Families, and Transitional Care After Critical Illness**

BASIC • TRANSLATIONAL

BASIC CORE

B85 LUNG HARMONY: UNRAVELLING THE SYNERGY BETWEEN MACROPHAGES AND ALVEOLAR EPITHELIAL CELLS IN DISEASE

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

2:15 p.m. - 3:45 p.m. **Marriott Marquis San Diego Marina**
Grand Ballroom 2-4 (Lobby Level, North Tower)

Target Audience

Anyone interested in basic and translational research, trainees, fellows, scientists,

Objectives

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

- provide and up-to-date overview review on the distinct role of alveolar macrophages and alveolar epithelial cells in the alveolar space and how this niche is central to lung homeostasis and response to infection and injury
- understand new innovative techniques such as 3D culture, spatial transcriptomics, and diving deep into the biology of how these two cell types work together to respond to infection and injury
- learn how to utilise existing multi-omic data sets to bring these omic studies to the next level and mechanistically interrogate the interactions of cell types in lung compartment such as the alveoli

This session will provide and up-to-date overview of the synergistic role between airspace macrophages and alveolar epithelial cells in

the lung and how the two work in tandem to fight lung infection and disease. There are many papers assessing the contribution of macrophages or AEC2 cells to lung health and disease but few looking at the interactions and how the two work in tandem to respond to infection or injury. With the development of new cutting edge 3D models to assess macrophage epithelial cell interactions in the lung this session is timely and can also build on data generated from multi-omic approaches.

- 2:15 AT2-Derived GM-CSF: A Crucial Signal for Initiating and Sustaining Alveolar Macrophage Differentiation from Pre- to Postnatal Stages and into Adult**
- 2:33 Forging an Antibacterial Alliance: How Legionella-Infected Macrophages Leverage Alveolar Epithelium to Metabolically Reprogram Myeloid Cells**
- 2:51 Metabolic Signalling Unleashed: Unraveling the Role of Diverse Myeloid Cell Metabolism in Fibrotic Lung Disease.**
- 3:09 Unveiling the Impact of Macrophage-Epithelial Paracrine Crosstalk in Viral Infection and Beyond**
- 3:27 Unraveling the Path to COPD: Monocyte Extravasation and Alveolar Epithelial Cell Injury at the Crossroads of Disease Development**

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

B86 AN INCONVENIENT TRUTH: HEALTH DISPARITIES AND HEALTH CARE INEQUALITY IN RESPIRATORY MEDICINE

Assemblies on Pulmonary Circulation; Allergy, Immunology and Inflammation; Behavioral Science and Health Services Research; Clinical Problems; Nursing; Pulmonary Infections and Tuberculosis; Pulmonary Rehabilitation; Respiratory Cell and Molecular Biology; Respiratory Structure and Function; Sleep and Respiratory Neurobiology; Council of Chapter Representatives Committee; Health Policy Committee

2:15 p.m. - 3:45 p.m. Marriott Marquis San Diego Marina

Grand Ballroom 5-6 (Lobby Level, North Tower)

Target Audience

Cardiologists; General Medicine Physicians; Physicians in Training; Physician Assistant; Pulmonary Physicians, Registered Nurses.

Objectives

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

- describe the association between race/ethnicity, social determinants of health and environmental stress with clinical outcomes in patients with chronic lung diseases
- define new strategies in the management of minority patients affected by with chronic lung diseases
- describe new findings of precision medicine, OMICS and deep phenotyping in minority patients afflicted by chronic lung diseases

Disparities in respiratory medicine are common, and linked to social, economic, and environmental inequalities, affecting individuals of different backgrounds with different respiratory conditions. Here, we review different drivers of disparities and healthcare inequality, in respiratory medicine (race/ethnicity, social determinants of health, environmental stress, OMICS), differences on interpretation of diagnostic tests (oximetry, spirometry) or access to therapies (pulmonary rehabilitation), with case examples highlighting different chronic lung diseases such as asthma, sleep breathing disorders, pulmonary hypertension, COVID-19. We discuss future steps in the global task of assuring justice and equality in access to health care.

2:15 Addressing Race-Based Disparities in Respiratory Medicine - I

2:27 Addressing Race-Based Disparities in Respiratory Medicine - II

2:35 Race/Ethnicity as Drivers of Inequality: The Case of Pulse Oximetry

2:45 Spirometry Testing as a Driver of Disparity

2:55 Race/Ethnicity and Beyond: Advancing the Promise of Precision Medicine, OMICS, and Deep Phenotyping Across Respiratory Disease to Minorities

3:05 Barriers to Optimal Care: The Case of Pulmonary Rehabilitation

3:15 Traditional and Novel Social Determinants of Health: Insights from PAH

3:25 Environmental Stress and Disparities: Sleep Breathing Disorders

3:35 Role of Policy and Advocacy in Addressing Disparities

This session and the International Conference are supported by independent medical educational grants from Boehringer Ingelheim Pharmaceuticals, Inc., Johnson & Johnson, Merck & Co., Inc., and United Therapeutics Corporation.

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SCIENTIFIC SYMPOSIUM

B87 IMMUNE MECHANISMS OF ACUTE LUNG INJURY FROM COVID AND BEYOND

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

2:15 p.m. - 3:45 p.m. Marriott Marquis San Diego Marina

Pacific Ballroom 24-26 (Ground Floor, North Tower)

Target Audience

Physicians, scientists, lung injury researchers, critical care clinicians, pulmonologists

Objectives

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

- discuss the diverse populations of lung immune cells in health and injury
- discuss the role of the immune cell transcriptome in ARDS
- discuss potential therapeutic targets to treat pulmonary inflammation

The innate and adaptive immune system play a significant role in the pathophysiology of lung injury. However, the precise mechanisms by which immune cells improve or exacerbate lung injury is poorly understood. The use of “omics” approaches in human cells and tissues has brought us closer to understanding these complex mechanisms of lung injury. Despite these advances, there remain several challenges in untangling the massive data sets generated from “omics”. In this symposium, leaders in the field of lung injury immune cell omics will share their approaches and lessons learned. By further understanding the patient-specific molecular mechanisms underlying immune-mediated lung injury, we can come closer to personalized therapies for acute lung tissue injury induced by inflammation.

2:15 Monocyte and Macrophage Diversity in the Healthy Lung

2:33 Alveolar Macrophage Transcriptome and ARDS Outcomes

2:51 Monocyte Gene Signatures in ARDS

3:09 An Omics Approach to Immune-Mediated Lung Injury from COVID-19

3:27 Multiple T Cell Responses are Associated with Protection Against COVID-19 Disease and Lung Injury

This session and the International Conference are supported by an independent medical educational grant from

United Therapeutics Corporation.

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

SCIENTIFIC SYMPOSIUM

B88 CUTTING EDGE VACCINE DEVELOPMENT FOR THE PULMONARY SUB-SPECIALTY COMMUNITY: VACCINE IMMUNOLOGY, RESEARCH, DEVELOPMENT, AND PRACTICE SOLUTIONS

Assemblies on Pulmonary Infections and Tuberculosis;
Pediatrics

2:15 p.m. - 3:45 p.m. Marriott Marquis San Diego Marina

Grand Ballroom 11-13 (Lobby Level, North Tower)

Target Audience

ATS clinicians and members interested in vaccine development and implementation

Objectives

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

- improve patient health through promotion of vaccines and immunization
- describe vaccine development as a potential tool to combat multi-drug resistant bacteria
- understand the role current and developing vaccines play in improving respiratory health in adults

Vaccines have had a significant impact on global health, reducing mortality from or even eradicating several devastating infections. However, vaccine-preventable illnesses remain a threat due to low vaccine coverage among adults, particularly important for those with chronic lung disease. The goal of this session is to outline challenges to and highlight strategies for improving global vaccination to combat a variety of respiratory illnesses and to emphasize the impact vaccines have on improving respiratory health and preventing respiratory morbidity. Multiple perspectives will be represented, including infectious diseases, behavioral, community engagement, health disparities, and public health policy.

- 2:15 Vaccines to Address the Growing Threat of Antimicrobial Resistance**
- 2:35 The Future of mRNA Vaccines for Infectious Diseases and Cancer Immunotherapy**
- 2:55 Toward a Universal Flu Vaccine**
- 3:15 The Future for Pediatric RSV Vaccination is Now**
- 3:35 Discussion**
- 3:45 Discussion**

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

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BEHAVIORAL • CLINICAL

SCIENTIFIC SYMPOSIUM

B89 INTERNATIONAL PERSPECTIVE ON TOBACCO/VAPING PRODUCT/HEATED TOBACCO PRODUCT DEPENDENCE AND CONTROL

Assemblies on Environmental, Occupational and Population Health; Behavioral and Health Services Research; Pediatrics; Thoracic Oncology

2:15 p.m. - 3:45 p.m. San Diego Convention Center

Room 30A-B (Upper Level)

Target Audience

Physicians, health services researchers, tobacco researchers, epidemiologists, public policy advocates, public policy decision makers.

Objectives

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

- describe the successes and challenges facing tobacco control efforts in low and middle income countries, describe the types of tobacco products used, and describe populations at risk
- describe the impacts on international tobacco control of the tobacco industry, the US Food and Drug Administration Center for Tobacco Products, and the World Health Organization Framework Convention on Tobacco Control (FCTC)
- be able to articulate new understandings of the harms of electronic nicotine delivery systems and heated tobacco products

Tobacco and nicotine products are a threat to global health. Electronic nicotine delivery systems (e-cigarettes) and heated tobacco products threaten to expand the global tobacco epidemic. United States tobacco product policies and the way international tobacco product companies have a substantial impact on the global tobacco policy. This session aims to provide an international perspective on tobacco product dependence and tobacco product control with a focus on low and mid-income countries.

- 2:15 Tobacco Dependence Treatment in Latin America**
- 2:35 Tobacco and Vaping Product Control in Low and Middle Income Countries: Challenges and Successes**
- 2:55 What Tobacco and Vaping Products are Used in the Developing World?**
- 3:10 New Understandings of Vaping Product and Heated Tobacco Product Toxicity**
- 3:25 Education and Counter-Marketing Campaigns in Latin America to Prevent Tobacco and Vaping Product Initiation and Increase Cessation of Use**
- 3:35 General Discussion**

TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

B90 IMPACT OF THE GUT-LUNG AXIS ON RESPIRATORY HEALTH ACROSS THE LIFESPAN

Assemblies on Pediatrics; Clinical Problems

2:15 p.m. - 3:45 p.m. San Diego Convention Center

Room 7A-B (Upper Level)

Target Audience

providers of lung health, trainees, basic researchers, translational researchers

Objectives

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

- describe new findings about mechanisms through which gut microbiota may impact respiratory health
- define new strategies to manage the care of respiratory disorders through modulation of gut microbiota
- apply multi-omic approaches to studying interactions between lung and gut health

Multi-omics studies of gut and respiratory microbiota have identified relevant links between these systems with implications for clinical management and advancing understanding of respiratory disease pathophysiology. This session will discuss current state-of-the-art knowledge of the impact of the gut-lung axis on pediatric and adult respiratory diseases, and how consideration of the gut-lung axis may advance lung health.

- 2:15 Introduction**
- 2:20 Patient Speaker**
- 2:25 The Role of Gut Microbiota in Early Immune Priming and Childhood Asthma**
- 2:45 Relevance of the Gut Microbiome for Lung Health in Cystic Fibrosis**
- 3:05 The Role of the Gut-Lung Axis in Bronchiectasis**
- 3:25 Impact of Gut Microbiota on Critical Illness**

CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

**B91 WHERE ARE THEY NOW?
FUNCTIONAL LUNG IMAGING
NEARING CLINICAL APPLICATION**

Assemblies on Respiratory Structure and Function

2:15 p.m. - 3:45 p.m. San Diego Convention Center

Room 24A-C (Upper Level)

Target Audience

Clinicians and Researchers with an interest in Novel LungOral Presentations:

Imaging Methods

Objectives

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

- describe the main functional lung imaging technologies that are available for clinical application
- identify clinical and research cases where functional lung imaging could improve clinical care, patient outcomes, or scientific rigor
- apply functional lung imaging in clinical practice or research projects

In this session, several novel lung imaging techniques will be presented and discussed. Each speaker will provide an introduction to the imaging technology in which they focus, and

provide some of the most relevant clinical questions that their imaging techniques can answer. These talks will be followed by a clinician with expertise in the use of imaging who will provide additional context on how imaging may be of benefit in the clinic. After these presentations, each speaker will participate in a panel discussion aiming to highlight the strengths, weaknesses, and most relevant applications of each technique.

- 2:15 Quantitative CT Imaging: From Research to Clinical Application**
- 2:30 Computational Fluid Dynamics: New Insights into Airflow in the Airways and Lungs**
- 2:45 X-Ray Velocimetry for 4D Functional Lung Imaging**
- 3:00 Research and Clinical Applications of Hyperpolarized ¹²⁹Xe MRI**
- 3:15 Room to Grow: Clinical Applications Where Functional Lung Imaging is Most Needed, and Obstacles to Adoption**
- 3:30 Panel Discussion**

BASIC • CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

**B93 EARLY DISEASE TRAJECTORIES:
PRISM, PRE-COPD, EARLY COPD AND
BEYOND**

2:15 p.m. - 4:15 p.m. San Diego Convention Center

Room 6C-F (Upper Level)

Oral Presentations:

- 2:15 Preserved Ratio Impaired Spirometry (PRISm) and Restrictive Spirometric Pattern (RSP): Associations With Mortality in 26,000 Men**
- 2:27 Risk of Exacerbation, Hospitalization and Mortality in Pre-COPD and PRISm Patients Identified in a Real-life COPD Cohort From the Swedish National Airway Register**
- 2:39 Association of Early COPD With Mortality and Respiratory Health Outcomes: The NHLBI Pooled Cohorts Study**
- 2:51 Defining Trajectories in Health Status With Chronic Airways Assessment Test (CAAT) in a Real-life Cohort of Patients With Asthma and/or COPD (NOVELTY)**

- 3:03 Association of Dysanapsis With Respiratory Morbidity in Current and Former Smokers: A Longitudinal Analysis
- 3:15 Spirometric Time Constant for Detection of Early and Mild Airflow Obstruction
- 3:27 High Prevalence of Undiagnosed and Untreated Emphysema Among Lung Cancer Screening Participants: Findings From the Research Integrated Quebec Lung Cancer Screening Program
- 3:39 Early Detection of Undiagnosed COPD: Leveraging Predictive Algorithms on Pre-diagnostic Real World Data
- 3:51 Hitting Two Birds With One Stone: Enhancing the Performance of the Capture Tool in a Lung Cancer Screening Population
- 4:03 Impact of the Capture Screening Tool on US Primary Care COPD Diagnosis, Management, and Patient Outcomes

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

B94 BEST OF PEDIATRICS

2:15 p.m. - 4:15 p.m. Marriott Marquis San Diego Marina
Pacific Ballroom 18-19 (Ground Floor, North Tower)

Oral Presentations:

- 2:15 Prediction of Asthma Development by Explainable Deep Neural Networks Among Infants With Severe Bronchiolitis
- 2:27 Transcriptomic Profiles in Nasal Epithelium and Asthma Endotypes in Youth
- 2:39 Modulation of the Injury Response in the Distal Lung Capillary Endothelium by Chromosomal and Gonadal Sex: Insights at Single-cell Resolution
- 2:51 In Utero Delta-9-Tetrahydrocannabinol Exposure Alters the Lung Transcriptome, Epigenome and Development in Rhesus Macaque Offspring
- 3:03 Impact of Implementing the Global Lung Initiative Race-neutral Equations on Spirometry Interpretation in Children
- 3:15 Longitudinal Respiratory Phenotypes in the CHILD Cohort Study: A Group-Based Trajectory Analysis

- 3:27 Impact of Natal and Childhood Metabolic Markers on Childhood Asthma Burden - A Nationwide Cohort Study
- 3:39 Air Pollutants, Serum Cathelicidin (LL-37), and Disease Severity in Infants Hospitalized for Bronchiolitis: A Multicenter Prospective Cohort Study
- 3:51 Neonatal Hyperoxia Causes Pulmonary Hypertension and Increases Pulmonary Vascular Smooth Muscle Cell Calponin-1 Expression

Featured Speaker Presentation:

- 4:03 Academic Pursuit, Family Life, and Well-being: Moving from “Versus” to “And”

BASIC • TRANSLATIONAL

MINI SYMPOSIUM

B95 SURFING IN THE GREEN ROOM: DEFINING MOLECULAR MECHANISMS OF PULMONARY VASCULAR DISEASE

2:15 p.m. - 4:15 p.m. San Diego Convention Center
Room 28A-B (Upper Level)

Oral Presentations:

- 2:15 VEGF-D Is Enriched in the Human Lung Microvascular Niche and Improves Vascular Integrity During Acute Lung Injury
- 2:27 NLRP3-induced Contractile Dysfunction in Right Ventricle Cardiomyocytes Is Sexually Dimorphic and Modified by 17 β -estradiol Via Estrogen Receptor α
- 2:39 Remodeling of the Endothelial Extracellular Matrix Drives Smooth Muscle Cell Hyperplasia in Pulmonary Hypertension Due to Left Heart Disease
- 2:51 Lung Capillary Endothelium to Arterial Endothelium Transition in Pulmonary Arterial Hypertension
- 3:03 CES1 Deficiency Is Associated With Endothelial Dysfunction and Metabolic Reprogramming in PAH
- 3:15 17 β -estradiol Enhances Right Ventricle Angiogenesis and Endothelial Cell Fatty Acid Metabolism in Pulmonary Arterial Hypertension in a CPT1-dependent Manner

- 3:27 circALMS1 Alleviates Pulmonary Microvascular Endothelial Cells Dysfunction in Pulmonary Hypertension
- 3:39 Chemo-ablation of Cardiopulmonary Afferents by Intrathecal Resiniferatoxin Prevents Pulmonary Hypertension and Right Ventricular Failure by Decreasing NOS1-mediated Neuroinflammation in Thoracic Spinal Cord
- 3:51 Loss of ROR2 Tyrosine Kinase Receptor Is Associated With Dysfunctional Angiogenesis in PAH Via Inappropriate Focal Adhesion Activation and Disruption of the Endothelial Barrier
- 4:03 TBX4 Loss-of-function Within the Developing Lung Disrupts Postnatal Lung Development and Predisposes to Pulmonary Hypertension

BASIC • CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

B96 WHAT IS NEW IN PNEUMONIA?

2:15 p.m. - 4:15 p.m. **Marriott Marquis San Diego Marina**
Pacific Ballroom 21-22 (Ground Floor, North Tower)

Oral Presentations:

- 2:15 Effects of an Interdisciplinary Clinical Care Pathway on Mortality With Patients Admitted for Pneumonia
- 2:27 Prognostic and Pathogenic Role of Angiotensin-like 4 (ANGPTL-4) in Severe Community Acquired Pneumonia
- 2:39 Descriptive Analysis of ICU Outcomes in Severe Pneumonia: A Comparative Study Between COVID-19 and Other Pathogens With an Emphasis on Phenotypic Variability
- 2:51 Sctm1a Suppresses IL-17a Production of Gamma-delta T Cells and Influences Bacterial Clearance During Pneumococcal Pneumonia
- 3:03 Lung Mesenchymal Stem Cells Attenuate Chronic Secondhand Smoke-induced Alveolar Destruction and Protect Against Streptococcus Pneumoniae
- 3:15 Beta-lactam Plus Macrolides Treatment Vs Beta-lactam Monotherapy in Community Acquired Pneumonia: A Propensity Score Analysis Using a Data From Japanese Multicenter Registry

- 3:27 Gut-lung Axis: Is Gut Dysgenesis a Risk Factor for Bacterial Pneumonia in Inflammatory Bowel Disease?
- 3:39 Neutrophil Percentages in Bal Fluid: Implications for Diagnosing Bacterial Pneumonia in Patients With Immunocompromise and Neutropenia
- 3:51 Longitudinal Importance of the Soluble Receptor for Advanced Glycation End-products in COVID-19 Pneumonia

Featured Speaker Presentation:

- 4:03 **Breaking Through: The Latest Advances in Pneumonia Care**

BEHAVIORAL • CLINICAL

MINI SYMPOSIUM

B97 ADVANCED INSIGHTS INTO PULMONARY REHABILITATION

2:15 p.m. - 4:15 p.m. **San Diego Convention Center**
Room 8 (Upper Level)

Oral Presentations:

- 2:15 Association of Duration and Intensity of Physical Activity on Muscle Oxidative Capacity in Older Adults With or Without COPD
- 2:27 Application of a Theoretical Model to Support Home-based Pulmonary Rehabilitation With Health Coaching and Chronic Obstructive Pulmonary Disease Outcomes
- 2:39 Exercise Physiology and Biomarkers of Inflammation and Vascular Remodeling in Individuals With Persistent Dyspnea, Fatigue and Exercise Intolerance After COVID-19
- 2:51 One-minute Sit-To-Stand Test in Fibrotic Interstitial Lung Disease: Correlation With Six-minute Walk Test and PFT
- 3:03 What Do Pulmonary Rehabilitation Participants Want Their Educational Sessions to Comprise Of? Exploring a Participant-centered Approach to Designing Pulmonary Rehabilitation Education
- 3:15 Improving Use of Medication Inhalers: Factors Linked to Suboptimal Inhaler Use

3:27 Peepi-induced Inspiratory Threshold Workload Is Reduced Both by High Flow Nasal Cannula Device and Non-invasive Positive Pressure Ventilation in Severe Stable Chronic Obstructive Pulmonary Disease Patients

3:39 Unveiling 2-year Functional Outcomes in COVID-19 Survivors: Breaking Results From a Multi-center Prospective Cohort Study

BASIC • TRANSLATIONAL

MINI SYMPOSIUM

B98 HEALING LUNGS: NAVIGATING THE PATHWAYS OF LUNG REPAIR

2:15 p.m. - 4:15 p.m. San Diego Convention Center
Room 6D (Upper Level)

Featured Speaker Presentation:

2:15 Mitochondrial Integrated Stress Response Controls Lung Epithelial Cell Fate

Oral Presentations:

- 2:27 QKI Is Essential for Maintaining Alveolar Integrity in Mice
- 2:39 Sustained Activation of Yap/Taz After Injury Leads to Aberrant Alveolar Differentiation and Failure of Alveolar Repair
- 2:51 Epithelial HIF Activation Impairs Distal Airway Derived Alveolar Repair
- 3:03 Plasma Biomarkers Reveal Insights into Pathology of Transitional Epithelial States in Pulmonary Fibrosis and Interstitial Lung Abnormalities
- 3:15 The Mesenchymal Niche in Lung Development and Repair Post-ARDS
- 3:27 Transcriptional Landscape of Fibroblast Populations During the Resolution of Pulmonary Fibrosis
- 3:39 A Novel Fibroblast Population Supports Repair of the Alveolar Niche: Insights From a Preclinical Mouse Model of Idiopathic Pulmonary Fibrosis
- 3:51 Loss of ERG in Capillary Endothelial Cells Is Associated With cGAS-STING Pathway Activation and Aberrant Lung Fibrosis Resolution'

4:03 Monocyte-derived Interstitial Macrophages Promote Lung Regeneration by Regulating Extracellular Matrix Degradation and Angiogenesis

BEHAVIORAL • CLINICAL

MINI SYMPOSIUM

B99 SLEEP APNEA UNPLUGGED: NAVIGATING A MYRIAD OF HEALTH OUTCOMES

2:15 p.m. - 4:15 p.m. San Diego Convention Center
Room 32A-B (Upper Level)

Oral Presentations:

- 2:15 Hypoxic Burden but Not AHI Predicts Risk of Cardiovascular Events: A Secondary Analysis of the RICADSA Clinical Trial
- 2:27 Using Explainable AI to Predict Survival Curves for All-cause Mortality in Obstructive Sleep Apnea
- 2:39 Mortality and Cardiovascular Changes in a Prolonged Murine Model of OSA
- 2:51 Association Between Respiratory Event-related Hypoxemia, Autonomic Responses to Respiratory Events and Chronic Kidney Disease in Obstructive Sleep Apnea
- 3:03 Evaluation of the Framingham Risk Score's Predictive Performance in Obstructive Sleep Apnea Cohorts: Insights From the SAVE, RICADSA, and ISAACC Trials
- 3:15 All-cause Mortality in Obstructive Sleep Apnea: Systematic Literature Review Including Randomised Trials and Confounding Adjusted Non-randomised Controlled Studies and Meta-analysis of Positive Airway Pressure Treatment
- 3:27 Contribution of Apnea and Non-apnea Related Oxygen Desaturations to the Risk of Cardiovascular Mortality in Sleep Apnea
- 3:39 Association of Obstructive Sleep Apnea (OSA) Severity With Accelerated Biological (Epigenetic) Aging

- 3:51 Impact of Positive Airway Pressure (PAP)-Therapy on Hospitalization in Obstructive Sleep Apnea (OSA): Analysis of a German Healthcare Database
- 4:03 Do Endotypes Predict Symptom-Based Phenotypes?

BEHAVIORAL • CLINICAL

POSTER DISCUSSION SESSION

B101 COPD EPIDEMIOLOGY, DISPARITIES, AND HEALTH SERVICES RESEARCH

2:15 p.m. - 4:15 p.m. San Diego Convention Center

Room 5A-B (Upper Level)

Poster Viewing 2:15-3:00
 Discussion 3:00-4:15

- 601 Better Together: An AI-Driven, Software-Based, Respiratory Therapist-Administered Home COPD Management Program Reduces Hospitalizations by 65% in a Home Ventilation Population
- 602 A Digital Quality Improvement Program Delivered by Clinical Pharmacists Can Reduce Acute Care Visits in COPD
- 603 Behavioral Regulation, Basic Psychological Needs in Exercise, and Self-efficacy in Individuals Experiencing an Exacerbation of Chronic Obstructive Pulmonary Disease: Preliminary Analysis of a Cross-sectional Study
- 604 Behavioral Change Intervention Based on Self-determination Theory on Physical Activity After COPD Exacerbation: Preliminary Analysis of a Randomized Controlled Trial
- 605 Long-Term Outcomes Associated With the Super-Exacerbator Phenotype in COPD
- 606 Association of Income With Long-term Survival Following Hospitalization for Chronic Obstructive Lung Disease
- 607 Association Between Delay in Treatment for COPD Exacerbations and Duration of Symptoms
- 608 Characterizing Tobacco Use Status Among a National Cohort of Veterans With COPD
- 609 Barriers to Optimizing Comorbid COPD and Cardiovascular Disease Management Among Socially Disadvantaged Patients: Clinician Perspectives
- 610 Beyond Physical Frailty - The Impact of Social Frailty on Survival and Hospitalizations in COPD
- 611 Association of Guideline Alignment and Medication Concordance With Medication Usage in COPD
- 612 Optimizing COPD Self-management Treatment Using the Multiphase Optimization Strategy: Results From a Pilot Factorial Experiment
- 613 Causes of 30-day Readmission Following Against Medical Advice Discharge After Acute Exacerbation of Chronic Obstructive Pulmonary Disease
- 614 Geographic and Payer Variation in the Prevalence, Demographics, and COPD-related Hospital Utilization of Patients With COPD
- 615 Readmissions Decreased Following Implementation of a COPD Bundled Payments for Care Innovation Program: An Instrumental Variable Analysis
- 616 Developing and Validating a COPD-Specific 30-day Readmission Risk Prediction Tool
- 617 Training and Validation of a COPD-Specific 90-day Readmission Risk Prediction Tool Using Multi-Center Data
- 618 Perceived Need by Patients for Care, Access to Care, and the Decision to Seek Care for Chronic Obstructive Pulmonary Disease Exacerbations
- 619 A Comparison of Claims-based and Self-reported Supplemental Oxygen Use in Older Adults With Chronic Obstructive Pulmonary Disease in a Nationally-representative Study
- 620 Home Pulse Oximetry and Triage of Patients With Chronic Lung Disease: A Retrospective Study
- 621 Spirometry Parameter Prediction Using Acoustic Characteristics of Cough
- 622 Food Insecurity Is Associated With Lung Function and Symptom Burden
- 623 Beginning Varenicline in Patients With Chronic Obstructive Pulmonary Disease and Serious Mental Illness Is Efficacious and Well Tolerated!

624 End-tidal Carbon Dioxide Biofeedback for Treatment of Dyspnea and Anxiety: CALM Breathing Feasibility Clinical Trial

625 Proactive E-consults to Improve Management of COPD in People Living With HIV: A Cluster-randomized Trial

BEHAVIORAL • CLINICAL

POSTER DISCUSSION SESSION

B102 OPTIMIZING ICU PROCESSES AND CARE: ADOPTING BEST PRACTICES

2:15 p.m. - 4:15 p.m. San Diego Convention Center

Room 30C-E (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

701 The Role of Clinician Comfort in ICU Admission Decision-Making: A Qualitative Study of Eight U.S. Hospitals

702 Characteristics, Clinical Care, and Outcomes of Sepsis Among ED Boarders

703 Prevalence, Characteristics, and Outcomes of Sepsis Patients Admitted to Observation Versus Inpatient Status

704 Inter-ICU Transfer of Patients With Acute Respiratory Failure: A Scoping Review

706 Adult Respiratory Distress Syndrome Intervention Dashboard - Using Informatics to Track Evidence-based Metrics and Design Future QI Initiatives

707 Variation in Setting Low Tidal Volume Ventilation on Day 1 of Mechanical Ventilation by Hospital

708 A Clinical Decision Support Tool to Improve the Performance of Spontaneous Breathing Trials and Extubations Among Eligible Patients in the Intensive Care Unit

709 Improving Rates of Spontaneous Breathing Trials at Toronto General Hospital Medical Surgical Intensive Care Unit. A Prospective Quality Improvement Initiative

710 Development and Evaluation of a Nocturnal PAD Management Protocol in Mechanically Ventilated Adults

711 Prone Positioning Use Through Day 28 in Patients on Mechanical Ventilation With Acute Respiratory Distress Syndrome

712 Recent Prone Experience Within an ICU Strongly Predicts Whether Potentially Eligible Patients Undergo Prone Positioning

713 Adverse Events During and After Early Mobilization: A Post-hoc Analysis of the TEAM Trial

714 Optimization of Mobilization During Critical Illness: A Systematic Review and Meta-analysis

715 Solutions to Reduce the Fragmentation of Care Between Intensive and Primary Care to Improve the Quality of Critical Care Survivorship

716 Association Between Number of Lumens and Peripherally Inserted Central Catheter Complications in Patients Admitted to the Intensive Care Unit

717 Overview of Peripheral Vasopressor Usage in an Academic Health System

718 Evaluation of Compliance and Complications in a Pilot of a Protocol for the Use of Peripheral Vasopressors

719 Pragmatic Randomized Trial for Arterial Catheters in the Critical Care Environment (GRACE)

720 Assessing the Diagnostic Accuracy of Arterial and Venous Blood Gas in Critically Ill Patients

721 Effectiveness of Decolonization of Methicillin Resistant Staphylococcus Aureus Nasal Carriers With Povidone Iodine in Medical ICU Patients

722 "By the Skin of Our Teeth": Managing Resource Scarcity During the COVID-19 Pandemic

723 The Association of Hospital Sepsis Capability and Ranking for Sepsis Process Measures Among New York Hospitals

724 Navigating Costs and Care: Clinician Perspectives on Addressing Financial Hardship in Critical Care

725 A Hybrid Implementation/Effectiveness Pilot Trial Testing the Effectiveness and Safety of an Ed "Code Sepsis" Protocol

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL**POSTER DISCUSSION SESSION****B103 PERSONALIZING CARE FOR PATIENTS WITH ACUTE RESPIRATORY FAILURE**2:15 p.m. - 4:15 p.m. San Diego Convention Center

Room 31A-C (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 801 Clinical Characteristics Associated With HFNC/NIV Treatment Failure in Non-intubated ARDS Patients Defined by 2023 New Global Definition of ARDS: A Retrospective Cohort Study of MIMIC-IV Database
- 802 Evaluating the New ARDS Definition in a Retrospective Cohort Analysis of Hospitalized COVID-19 Patients
- 803 Characterizing NIV Mask Performance: A Trade-off Between Patient Effort and Applied Facial Pressure
- 804 The Use of the Rox Index to Guide High Flow Nasal Cannula Therapy and Need for Intubation Is Associated With Meaningful Patient Outcomes
- 805 Rapidly Improving Acute Respiratory Distress Syndrome: Clinical and Biologic Features
- 806 Heterogeneity in Association of Myocardial Injury and Mortality in Sepsis or ARDS by Inflammatory Phenotype
- 807 Latent Class Analysis Identifies Two Classes of Acute Hypoxic Respiratory Failure in Sepsis Distinguished by Lung Mechanics and Oxygenation
- 808 Mechanical Power-guided Lung Protective Ventilation in Acute Hypoxemic and/or Hypercapnic Respiratory Failure (VentCoach)
- 809 Ventilator Mode and Risk Factors for High Tidal Volume in Mechanically Ventilated ICU Patients
- 810 Influence of the Magnitude and Synchrony of Breathing Efforts on the Mechanisms of P-sili in Early Acute Hypoxemic Respiratory Failure Is Modified by the Mode of Ventilation
- 811 CANCOV-Canadian Prospective Cohort of One-year Outcomes in Critically Ill Patients With COVID-19 and Their Family Caregivers - Impact of Protective Mechanical Ventilation on Lung Injury Recovery
- 812 The Association Between Dead Space and Oxygenation Index With Non-pulmonary Organ Dysfunction in Pediatric Acute Respiratory Distress Syndrome
- 813 Optimal Mode of Mechanical Ventilation for Adults in Shock: A Secondary Analysis of the Mode of Ventilation During Critical Illness Trial
- 814 Effect of Mechanical Ventilation Mode on Outcomes by Severity of Hypoxemia: A Secondary Analysis of the Mode of Ventilation During Critical Illness Trial
- 815 Stress Index During Mechanical Ventilation Post-lung Transplantation
- 816 Comparison of Non-invasive Techniques to Monitor the Response of Respiratory Effort to Changes in Ventilation and Sedation in Patients With Acute Hypoxemic Respiratory Failure
- 817 Prevalence and Characteristics of Pendelluft During Spontaneous Breathing in Patients With Moderate or Severe Acute Hypoxemic Respiratory Failure
- 818 Diaphragm Ultrasounds Vs. Esophageal Manometry: The Lack of Correlation Between Diaphragm Thickening Fractions and Pes in Pediatric Acute Respiratory Distress Syndrome Patients
- 819 Ventilation Distribution During Spontaneous Breathing Trial to Predict Liberation From Mechanical Ventilation: Preliminary Result of the VISION Study
- 820 Continuous Diaphragm Monitoring During the Spontaneous Breathing Trial Identifies Patients at Increased Risk of Extubation Failure
- 821 Measuring Diaphragm Displacement and Oxygen Consumption to Predict Weaning Success in Patients Requiring Prolonged Mechanical Ventilation
- 822 Physiological Evaluation of Accessory Muscle Activity and Function After Traumatic Spine Injury: The ACCESSIT Study

- 823 The Cost of Extracorporeal Membrane Oxygenation (ECMO) in Australia and New Zealand: A Prospective Observational Binational Clinical Registry Analysis
- 824 Advanced Respiratory Support Days as a Novel Marker of Mortality in COVID-19 Acute Respiratory Distress Syndrome Requiring Extracorporeal Membrane Oxygenation
- 825 Pathophysiological Correlations Between Unmatched V/Q Units Assessed by Electrical Impedance Tomography and Biomarkers, Respiratory Mechanics, Chest CT Scan and Lactates Inards
- 208 Puzzling Pulmonary Patterns: Unraveling the Mystery of Minute Pulmonary Meningothelial-like Nodules (MPMN)
- 209 A Flurry of Pulmonary Nodules: Recurrent Metastatic Pancreatic Cancer, or Just Mineral Oil?
- 210 When Tissue Connection Fails Unwanted Space Prevails - Recurrent Pneumothorax Due to Vascular Ehlers-Danlos Syndrome
- 211 Spontaneous Tension Hemopneumothorax After Weight Training
- 212 Segmental Airway Intra bronchial Valve Placement: A Potential Therapeutic Option for a Patient With Severe Subcutaneous Emphysema

CLINICAL

POSTER DISCUSSION SESSION

B104 CASE REPORTS IN INTERVENTIONAL PULMONARY AND PLEURAL DISEASE

2:15 p.m. - 4:15 p.m. San Diego Convention Center

Room 1A-B (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 201 Use of AVAPS to Treat Chronic Hypercapnic Respiratory Failure to Facilitate BLVR
- 202 Y the Cough? VV-ECMO to Facilitate Y Stenting of a Critical Airway Lesion
- 203 Venovenous Extracorporeal Membrane Oxygenation (VV- ECMO) to Facilitate Life-saving Tracheal Stenting for an Iatrogenic Tracheal Laceration
- 204 A Novel Case Using a 3D Printed Stent for Tuberculosis Related Airway Stenosis
- 205 Rapid and Durable: A Combined Method of Silicone Stent Placement and Rituximab to Release Fibrosing Mediastinitis Induced Central Airway Obstruction
- 206 Obsidio Gel Occlusion for Persistent Air Leak - An Innovational Non-surgical Approach to Heal
- 207 Tracheal Bronchus, A Supranumerary Type
- 213 Massive Cerebral Air Embolism Following Bronchoscopic Intervention for Extraction of Aspirated Tooth
- 214 Simultaneous Drainage of Bilateral Pleural Effusions via a Single Chest Tube: An Uncommon Presentation of Buffalo Chest Physiology Following Ivor-Lewis Esophagectomy
- 215 A Rare Case of Scedosporium Empyema
- 216 Endoscopic Drainage of Pulmonary Abscess in the Setting of a Broncho-cavitary Fistula Following Lobectomy for Pulmonary Mucormycosis
- 217 Intrapleural Antibiotic Irrigation in Post-pneumonic Empyema
- 218 Pneumonia With Empyema Due to Plastic Foreign Body Aspiration
- 219 Unveiling the Hidden Connection: A Case Report of Pleuroperitoneal Fistula in a Peritoneal Dialysis Patient
- 220 Necessitans? A New Complication of a Rare Type of Pleural Effusion
- 221 Congenital Absence of Cisterna Chyli Resulting in Recurrent Chylothorax: A Case Report
- 222 A Unique Presentation of a Rare Mediastinal Cyst as a Bilothorax
- 223 A Case of Extra-abdominal Splenosis
- 224 Avoiding Invasive Interventions in Thoracic Splenosis

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

B105 BREATHING AMIDST ADVERSITY: EXPLORING THE IMPACT OF AIR POLLUTION ON RESPIRATORY HEALTH AND BEYOND

2:15 p.m. - 4:15 p.m. San Diego Convention Center

Room 6E (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

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| <p>1001 Anti-TSLP Immunotherapy Attenuates House Dust Mite-induced Lung Inflammatory Response Via Circadian Clock-controlled Immunomodulation in Allergic Asthma</p> <p>1002 Effect of Jet Fuel Exposure on Human Bronchial Epithelial Cells as Measured by VOCs</p> <p>1003 Wildfire Smoke Particles Induced IL-8 Production and Reduced ZO-1 in the Human Brain Microvascular Endothelial Cells</p> <p>1004 Myeloid Specific Expression of Nod-like Receptor X1 (NLRX1) Mediates Ozone Induced Lung Inflammation</p> <p>1005 Wildfire-borne Ultra Fine Particulate Matter Amplifies Bronchoconstriction in Precision-cut Human Lung Slices</p> <p>1006 Diesel Exhaust Exposure Alters Immune-relevant Pathways in the Blood Transcriptome of Human Participants</p> <p>1007 Single-cell Transcriptomic Analysis of Bronchoalveolar Lavage Cells Following Murine Exposure to Ozone and Lipopolysaccharide</p> <p>1008 Genome-wide DNA Methylation as Different Cumulative PM_{2.5} Exposures in COPD</p> <p>1009 Effect of Prednisone on Woodsmoke-induced Sputum Inflammation in Healthy Volunteers</p> <p>1010 Acute Carbon Dioxide Inhalation Leads to Acute Cognitive Impairment and Systemic Vascular Inflammation in Humans</p> | <p>1011 Symptoms in Response to Controlled Diesel Exhaust Exposure in the Presence and Absence of an Antioxidant: Results From a Human Crossover Study</p> <p>1012 Household Air Pollutants, Human Milk Composition, and Cognitive Function of Children</p> <p>1013 Assessing Personal and Community Level PM_{2.5} Exposure: Results From a Community-engaged Pilot Study in Northern Manhattan</p> <p>1014 Personal PM_{2.5} Exposure Is Associated With Impaired Lung Function Among Adults With and Without HIV Recovering From Pneumonia in Kampala, Uganda</p> <p>1015 Respiratory Symptoms, Fractional Exhaled Nitric Oxide, and Lung Function in Adolescents Exposed to Air Pollution in Ho Chi Minh City</p> <p>1016 Assessing the Relationship Between Socioeconomic Status (SES) and Household Air Pollution Exposure in a Low- To Middle-income Country: An Assets-based Wealth Index Approach to Measuring SES in Nigeria</p> <p>1017 Air Quality at Alaba International Market, Nigeria and Risk Assessments on Vulnerable Populations</p> <p>1018 Comparison of Chronic Obstructive Pulmonary Disease (COPD) Exacerbations and Biomass Fuel Exposure According to Area of Residence in South Korea: A Longitudinal Follow-up Study of COPD</p> <p>1019 Air Pollution and Mortality in Persons With Chronic Obstructive Pulmonary Disease (COPD) and Additional Comorbidities</p> <p>1020 The Association Between Canadian Wildfire Smoke Infiltration and Statewide Cardiopulmonary Clinical Encounters in Maryland</p> <p>1021 Change in Rate of Healthcare Encounters for Influenza From Source-specific PM_{2.5} After Tier 3 Vehicle Standards in New York State</p> <p>1022 Greenhouse Gas Emissions Associated With Severe Asthma Along the Care Pathway in the United Kingdom</p> <p>1023 Regional Differences by Home Address in Disease Progression: The Pulmonary Hypertension Association Registry</p> |
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- 1024 Engaging Government Stakeholders Increases Applied Impact of Epidemiology Research: Assessing Respiratory Health Impacts of Ambient Pollution in Rio, Brazil
- 1025 Air Pollution Education: A Novel Curriculum for Pulmonary and Critical Care Fellows

BASIC • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

B106 TUBERCULOSIS BREAKTHROUGHS

2:15 p.m. - 4:15 p.m. San Diego Convention Center

Room 33A-C (Upper Level)

Poster Viewing 2:15-3:00
Discussion 3:00-4:15

- 901 Driving Resolution of Tuberculosis: Ifn- γ Induced Plasticity in Human Alveolar Macrophages Can Be Resolved With IL-10: Implications for Macrophage Plasticity as a Therapeutic Target for Tuberculosis
- 902 Longitudinal Evaluation of Lung Function From the Start to the End of Tuberculosis Treatment Among a Nigerian Cohort
- 903 Telacebec's Contribution to Combination Drug Regimens Is Strain-Dependent in a Mouse Model of Tuberculosis
- 904 Proteolytic Products of Infection (PPI) - A New Class of Proteoform Markers in Exhaled Breath for the Noninvasive Diagnosis of Lower Respiratory Tract Infections
- 905 Meclizine Induces Aerobic Glycolysis in Human Macrophages and Can Enhance the Glycolytic Response to Mycobacterium Tuberculosis Infection
- 906 Towards Developing Steroids as Host-directed Therapy for Tuberculosis Pneumonia: Dexamethasone Reduces Glycolysis in Mycobacterium Tuberculosis Infected Human Alveolar Macrophages but Improves Bacillary Killing
- 907 Immune Check Point Inhibitors in TB Patients: Impact on In-vitro Bacillary Clearance
- 908 Xpert MTB/RIF Ultra Platform Enables Highly Sensitive Detection of Mycobacterium Tuberculosis in Blood
- 909 Omadacycline in the Treatment of Mycobacterial Pulmonary Infections: A Single-center Retrospective Review
- 910 Role of Linezolid in the Intensive Phase of Tuberculous Meningitis
- 911 Analysis of Clinical Features and Treatment Results of Elderly Tuberculosis Patients at a Tertiary Hospital in Korea
- 912 Characteristics and Pattern of Post-tuberculosis Lung Disease at Saint Paul Hospital Chest Clinic, Addis Ababa, Ethiopia
- 913 Impact of Pyrazinamide Usage on Serious Adverse Events in Elderly Tuberculosis
- 914 Words Matter: Use of the Word "Tuberculosis" (TB) in Chest Imaging
- 915 Comparative Diagnostic Accuracy of Xpert MTB/RIF and Geno Type Mtbdrplus Line Probe Assay for Tuberculous Pleural Effusion Diagnosis
- 916 Past Pulmonary Tuberculosis as a Risk Factor of Chronic Obstructive Pulmonary Disease Among Non-smokers: A Single Center Study
- 917 Prevalence and Pattern of Diagnostic Tests Utilized to Detect Latent Tuberculosis Infection in Asian Nations; A Systematic Review and Meta-analysis
- 918 Stigma in People With Multidrug-resistant Tuberculosis and HIV in South Africa
- 919 Clinical Manifestation and Treatment of Subclinical Tuberculosis in the Elderly Population: A Descriptive Study in China
- 920 Environmental Determinants of Lung Development in Healthy Children With and Without Tuberculosis (TB) Infection in Vietnam
- 921 Latent Class Analysis of Structural Factors Reveals Subgroups With Differential Adherence to Bedaquiline and Antiretroviral Therapy Among People Living With HIV and Drug Resistant Tuberculosis
- 922 Use of MRI Scoring for Evaluation of Treatment Outcomes in Spinal Tuberculosis

- 923 The Impact of Migrant-sensitive Strategies in the Treatment of Multi-drug Resistant Tuberculosis
- 924 Miliary Tuberculosis: A Retrospective Cohort Study Determining Predictors of Poor Prognosis in an East London Cohort

BASIC • TRANSLATIONAL**POSTER DISCUSSION SESSION****B107 GENETIC AND TRANSCRIPTOMIC SIGNATURES IN LUNG DISEASES**

2:15 p.m. - 4:15 p.m. San Diego Convention Center

Room 11A-B (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 501 MUC5B Promoter Variant Drives the Protein Signature in Early Lung Fibrosis
- 502 Toll-like Receptor 3 Leu412Phe: A Candidate Polymorphism in Lung Microbiome Dysregulation and Acute Exacerbation in Idiopathic Pulmonary Fibrosis Patients
- 503 Orthologous rs35705950 MUC5B Promoter Locus in Mice May Provide Insights into MUC5B-driven Lung Fibrosis in Humans
- 504 Common Variants Tollip - Associated Gives a Worse Survival in Patients With Familial Pulmonary Fibrosis
- 505 Spatial Transcriptomics of Developing Human Lungs Defines Cellular Phenotypes Associated With Age, Lineage, and Location
- 506 Single Cell Transcriptomic Analyses Reveals Dynamic Alterations and Adaptations in Pulmonary Interstitial Macrophage Populations in Response to Chronic Hypoxia
- 507 Epigenetic Perturbations in Upper Airway Cells in the Acute Phase of SARS-CoV-2 Infection Persistently Affect Their Transcriptional Programs
- 508 Alveolar Epithelial Type 1 Transcriptional Signatures in Bacterial Pneumonia-induced Acute Respiratory Distress Syndrome (ARDS) Resemble Those of COVID-19 and Idiopathic Pulmonary Fibrosis (IPF)
- 509 Single-Cell RNA Sequencing Reveals Disease-Specific Cell-Cell Interactions in the COPD Lung
- 510 A Functional Multi-omics Profiling of Idiopathic Pulmonary Fibrosis Lungs Shed a New Light on Disease Mechanisms
- 511 IPF Aberrant Basaloid Cells Have Chromatin Accessibility Features Distinct From Other Lung Epithelial Cells
- 512 Spatial Transcriptomics Unravel the Mechanisms Underlying Epithelial Desquamation in Idiopathic Pulmonary Fibrosis
- 513 Single-cell Analysis Reveals a Pattern of Immunosenescence in Patients With Progressive Fibrotic Lung Disease
- 514 Single-cell Gene Expression Analysis Uncovered Fibroblast Subpopulations in Early-stage Pulmonary Fibrosis
- 515 Stage-specific Variations in the Fibroblast Chromatin Landscape Mediate Murine Pulmonary Fibrosis and Post-fibrotic Remodeling
- 516 snRNAseq of IPF Stromal Cells Reveals Dysfunctional Gene Co-expression Profile
- 517 A Single Nucleus RNAseq Time Course of Radiation Injury Reveals Interplay Among Injury-Associated Cell States
- 518 Skin Transcriptomics Are Associated With Lung Function Impairment and Specific Cell Type Enrichment in Systemic Sclerosis-related Interstitial Lung Disease
- 519 Applying Single Cell Profiling to Assess Drug Anti Fibrotic Properties in the Human Precision Cut Lung Slice Model of Fibrosis
- 520 Spatial Proteome Mapping at Single Cell Resolution in Idiopathic Pulmonary Fibrosis Using LCM-nanoPOTS Platform
- 521 Altered Peripheral Blood Transcriptomes in Bronchiectasis Patients With Co-morbid Cardiovascular Disease: Data From the EMBARC-BRIDGE Study
- 522 Single-cell Gene Transcriptomics of Peripheral Blood Reveals Cell Type-specific Molecular Associations With Quantitative CT Lung Fibrosis Extent in Hypersensitivity Pneumonitis

- 523 Characterizing Molecular Targets in Lung Squamous Cell Carcinoma Using Single Cell Omics
- 524 The Asthma Cell Atlas Identifies a Critical Role for Hillock-like Bronchial Epithelial Cells in Asthma
- 525 Transcriptional Dysregulation of Airway Epithelial and Immune Cells in Deployment-Related Lung Disease

BASIC • CLINICAL • TRANSLATIONAL

RAPID POSTER DISCUSSION SESSION

B108 BREATHE EASY: NAVIGATING THE WORLD OF VENTILATORY DISORDERS

2:15 p.m. - 4:15 p.m. Marriott Marquis San Diego Marina

Pacific Ballroom 15-17 (Ground Floor, North Tower)

Viewing/Discussion 2:15-3:00
Abstract Summaries 3:00-4:15

- 101 Validity and Effectiveness of Mandibular Jaw Movement Automated Analysis for Oral Appliance Monitoring in Obstructive Sleep Apnoea
- 102 The Effect of Selective Potassium Channel Openers on Loop Gain and Obstructive Sleep Apnoea Severity: A Proof-of-Concept Randomised Controlled Trial Using Flupirtine
- 103 Correlation Between Levels of Metabolic Markers and Obstructive Sleep Apnea in Children Residing in a High-altitude City
- 104 Determinants of the Performance of Serum Bicarbonate for Identification of Hypercapnia From Health Record Data
- 105 Association of High-risk Obstructive Sleep Apnea With Artificial Intelligence Based CT Severity Scores in Patients With COVID-19 Pneumonia
- 106 Comparison of Telomere Length Between Patients With and Without Obstructive Sleep Apnea
- 107 A Wake-up Call for Medical Students' Sleep Education
- 108 Hands-on Simulation Training With Home Ventilators Improves PCCM Fellow Understanding of Nocturnal NIV in Chronic Hypercapnia

- 109 Systemic Depletion of CD11b Improves Metabolic Function in a Murine Model of Sleep Apnea
- 110 The Effect of Inhalation of CO₂ at Different Concentrations on Sleep Quality in Healthy Subjects
- 111 Behavior, Sleep, and Blood Brain Barrier (BBB) Permeability in Genetically Identical Mice With Divergent Gut Microbiota (GM) at 6 and 20 Months of Age
- 112 Incidence and Predictors of Long-term Hypnotic Use Among Patients With Chronic Obstructive Pulmonary Disease
- 113 Comparative Analysis of Respiratory Event-related Electroencephalographic Activity in Obstructive Sleep Apnea Versus Co-morbid Insomnia and Sleep Apnea

BASIC • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

B109 DIVING INTO DISCOVERY: CURRENTS OF BASIC SCIENCE AND IMMUNOTHERAPIES IN LUNG CANCER

2:15 p.m. - 4:15 p.m. San Diego Convention Center

Room 25A-C (Upper Level)

Poster Viewing 2:15-3:00
Discussion 3:00-4:15

- 401 Decoding the Link Between XPC and Lung Cancer Susceptibility: A Study of Cigarette Smoke-induced DNA Damage in the Setting of XPC Deficiency
- 402 The Effects of Cell-cell Orientation in Modeling the Hallmarks of Lung Cancer In Vitro
- 403 Bioengineered Precision Cut Lung Slices Support Ex Vivo Culture of In Vivo-induced Premalignant Lung Adenocarcinoma Lesions
- 405 Mitochondrial Adaptations in Lipid Metabolism in Lung Metastases
- 406 Extracellular Vesicles From EGFR Mutated Adenocarcinoma Trigger Fibroblast Conversion into Cancer-associated-fibroblast (CAF)

- 407 Prevalence of TP53 Mutated Airway Epithelial Cell Colonies Is Inversely Proportional to Colony Size
- 408 Reconstruction of Multiple Single Cell RNA Sequencing Datasets Provide New Insights of Immune Cell Interaction in Both Murine and Human Lung Adenocarcinoma
- 409 Identification of Tumor-suppressive MicroRNAs and Their Targets Oncogenes in Small Cell Lung Cancer
- 410 Endothelial UBE2M Promotes Tumor Angiogenesis Through DLL4
- 411 Immunomodulatory Mechanisms of ACT001 in Non-small Cell Lung Cancer: Targeting PD-L1 and Restoring T-cell Function
- 413 Targeting AXL-MARCKS Interaction in Macrophages Enhances Lung Cancer Immunotherapy Response
- 414 Evaluating the Diagnostic Potential of Circulating Exosomal Circular RNAs in Non-small-cell Lung Cancer: A Diagnostic Accuracy Meta-analysis
- 415 Lipidome Abnormalities of BAL Fluid in Non-Small Cell Lung Cancer
- 416 Identification of Therapeutic Target Molecules for Lung Adenocarcinoma Based on MicroRNA Analysis
- 417 Utility of Cytology Smears of Bronchoscopic Specimens for DNA/RNA Extraction in Patients With Non-small Cell Lung Cancer
- 418 Early Diagnosis of Lung Cancer by Detecting Tumor Originated Deoxyribo Nucleic Acid (DNA) Fragments Using Plasma Cell-free DNA Methylome and Fragmentome Profiles
- 419 The Polymerase Epsilon Gene Expression and Mutation Predictive Significance in Patients Receiving Immune Checkpoint Inhibitors (icis) for Non-small Cell Lung Cancer (NSCLS)
- 420 Pneumonitis Induced by Immune Checkpoint Inhibitors in Combination With Cytotoxic Chemotherapy in Patients With Preexisting Interstitial Lung Diseases: A Retrospective Study
- 421 Efficacy and Safety of First-line Immunotherapy Plus Chemotherapy in Treating Elderly Patients With Extensive-stage Small Cell Lung Cancer
- 422 Radiation Pneumonitis in Lung Cancer Patients: Comorbidities and Risk Factors
- 423 Treatment Outcome and Safety of Durvalumab After Concurrent Chemoradiotherapy in Elderly Patients With Unresectable Stage III Non-Small Cell Lung Cancer
- 424 Diagnostic Yield and Synergistic Impact of Needle Aspiration and Forceps Biopsy With Electromagnetic Navigation Bronchoscopy for Pulmonary Lesions: A Randomized Trial
- 425 Integrating Proteomes of Tumor and Bronchoalveolar Lavage Fluid (BALF) Reveal Aberrant RNA Binding Protein for Early-stage Lung Adenocarcinoma Diagnosis

BEHAVIORAL • CLINICAL**RAPID POSTER DISCUSSION SESSION**

B110 ADVANCES IN PRECISION APPROACHES TO DETECTION AND TREATMENT OF EARLY LUNG CANCER

2:15 p.m. - 4:15 p.m.

San Diego Convention Center

Room 28C-E (Upper Level)

Viewing/Discussion

2:15-3:00

Abstract Summaries

3:00-4:15

- 301 Lung Cancer Screening Eligibility Among Asian-american Individuals Diagnosed With Lung Cancer
- 302 Extent and Determinants of Racial and Ethnic Disparities in the Opportunity to Undergo Lung Cancer Screening
- 303 Elevated BMI Predicts Poor Lung Cancer Screening Outcomes Independent of Diabetes Mellitus in a National Lung Screening Trial Subgroup (n=18,463)
- 304 Comorbidity and Frailty in Patients Undergoing Lung Cancer Screening
- 305 Longitudinal Adherence to Recommended Lung Cancer Screening Follow-up: A Multicenter Cohort Study
- 306 How Menthol Use Complicates Lung Cancer Screening Eligibility
- 307 Added Value of Visual Emphysema in Lung-RADS Categorization

- 308** Investigating the Factors Underlying Radiologist Variation in Pulmonary Nodules Recommendation
- 309** Evaluation of the Impact of Positron Emission Tomography on the Malignancy Probability of Lung Nodules
- 310** The Value of Artificial Intelligence Versus Traditional Lung Cancer Risk Prediction Models for Ground-glass and Pure-solid Pulmonary Nodules in Asia
- 311** Diagnostic Yield of Robotic Bronchoscopy in a Large, Multi-site Institution With Long-term Follow-up: A Focus on the Indeterminate Result
- 312** Therapeutic Bronchoscopy for Malignant Central Airway Obstruction Complicating Non-bronchogenic Cancers: Results From the Epigetit Registry
- 313** Comparing Primary Treatment Modalities for Stage 1A Non-small Cell Lung Cancer in US Veterans: Resection Versus Microwave Ablation Versus Stereotactic Body Radiation Therapy
- 314** Systematic Endoscopic Staging of Mediastinum to Determine Impact on Radiotherapy for Locally Advanced Lung Cancer (seismic): An International Multicentre Single-arm Clinical Trial
- 315** Comparative Effectiveness of Stereotactic Body Radiation Therapy Versus Wedge Resection in Long-term Health Outcomes in Early-stage Lung Cancer



MEET THE EXPERT SEMINARS

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

\$100 Member/Non-Members

\$70 LMIC Member/LMIC Non-Members

11:30 a.m. - 12:30 p.m. Marriott Marquis San Diego Marina

- MTE25 MILITARY PULMONARY TOXIC EXPOSURES**
Balboa (Level 3, South Tower)
- MTE26 CRITICAL THINKING AND CLINICAL REASONING:
IS ARTIFICIAL INTELLIGENCE INTELLIGENT?**
Cardiff (Level 3, South Tower)
- MTE27 BRONCHIECTASIS: GUIDELINES BASED
APPROACH TO CHALLENGING PATIENTS**
Pacific Ballroom 14 (Ground Floor, North Tower)
- MTE28 HOW TO CREATE A CENTRALIZED LUNG CANCER
SCREENING PROGRAM**
Point Loma (Level 1, South Tower)
- MTE29 MORE THAN JUST INITIAL SETTINGS: ADJUSTING
NIV FOR PATIENTS WITH PROGRESSIVE
NEUROMUSCULAR DISEASE**
Santa Rosa (Level 1, South Tower)
- MTE30 ALL YOU CAN LEARN: IMMUNIZATION FOR
PATIENTS WITH RESPIRATORY PROBLEMS**
Missions Hills (Level 3, South Tower)
- MTE31 ARE WE READY TO DITCH ALBUTEROL
AS-NEEDED IN ASTHMA OR NOT YET?**
Del Mar (Level 3, South Tower)

- MTE32 TEACHING IN THE ICU AT NIGHT**
Carlsbad (Level 3, South Tower)
- MTE33 ADDRESSING BARRIERS TO PALLIATIVE CARE IN
PULMONARY ARTERIAL HYPERTENSION- THE
WAY FORWARD**
Solana (Level 1, South Tower)
- MTE34 FAILING FORWARD: TURNING “FAILURE” INTO
GROWTH**
Palomar (Level 3, South Tower)
- MTE35 SELECTION AND MANAGEMENT OF “HIGH RISK”
LUNG TRANSPLANT CANDIDATES**
Miramar (Level 3, South Tower)
- MTE36 SICKLE CELL LUNG DISEASE MULTIDISCIPLINARY
CARE ACROSS THE LIFESPAN: BEST PRACTICES
TO ESTABLISH A CLINIC AT YOUR INSTITUTION**
Leucadia (Level 1, South Tower)

K3: KEYNOTE SERIES

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

San Diego Convention Center
Ballroom 20B-D (Upper Level)

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 2023 conference and are unopposed by any other programming.

Tuesday's Keynote Lecture will focus on:
Immigrant Health

YEAR IN REVIEW

C1 CLINICAL YEAR IN REVIEW 1

9:15 A.M. - 10:45 A.M.

San Diego Convention Center

Ballroom 20B-D (Upper Level)

Target Audience

Pulmonary, critical care and sleep providers.

Objectives

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

- apply new clinical research knowledge to clinical practice
- apply new findings about key conditions in pulmonary, critical care and sleep
- learn new strategies to manage the care of common conditions in pulmonary, critical care, and sleep

The program will discuss general topics of interest to a broad group of providers, inside and outside of these subspecialties. The program is relevant to not only clinicians, but also to researchers and administrators.

9:15 Interstitial Lung Disease

9:37 Medical Education

9:59 Sepsis

10:23 Occupational/Environmental Lung Disease

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

CLINICAL TOPICS IN PULMONARY MEDICINE

C2 DECENTRALIZED CLINICAL TRIALS: EASIER FOR PATIENTS AND PULMONOLOGISTS

Assemblies on Clinical Problems; Allergy, Immunology and Inflammation; Behavioral and Health Services Research; Critical Care; Nursing; Sleep and Respiratory Neurobiology

9:15 a.m. - 10:45 a.m. San Diego Convention Center

Room 6B (Upper Level)

Target Audience

Individuals who design and implement clinical trials, as well as end-users of information developed from clinical trials (patients, caregivers, clinicians, policymakers).

Objectives

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

- define decentralized clinical trials (DCTs)
- describe the potential impact of DCTs on participant enrollment and generalizability of study results to real-world practice
- identify examples of remote participant consent and monitoring of outcomes in DCTs

We will explore the growing interest of decentralized clinical trials (which allow some or all trial-related activities to take place in participants' homes or other convenient locations) instead of research sites from four perspectives: 1) regulator; 2) practicing clinician; 3) researcher; and, 4) funder.

9:15 Welcome and Session Overview

9:20 Clinical Trials: Why Are They So Difficult to Successfully Complete?

9:30 Decentralized Clinical Trials: FDA perspective

9:40 Moderated Q&A and Introduction of Next Speaker

9:45 Decentralized Clinical Trials: A Practicing Clinician Perspective

9:55 Decentralized Clinical Trials: Researcher Perspective About the Use of Remote Monitoring

10:05 Moderated Q&A and Introduction of Next Speaker

10:10 Division of Lung Disease / NHLBI Perspective

10:20 Moderated Q&A and Introduction of Next Speaker

10:25 Panel Discussion

CLINICAL

CLINICAL TOPICS IN PULMONARY MEDICINE

C3 PEDIATRIC CLINICAL CHEST ROUNDS

Assembly on Pediatrics

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

San Diego Convention Center

Room 6A (Upper Level)

Target Audience

Pediatric pulmonary clinicians and trainees (including students, physicians, advanced practice providers, nurses, therapists) interested in the diagnosis and management of challenging cases.

Objectives

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

- TBD depending on the selected cases.
- TBD depending on the selected cases.
- TBD depending on the selected cases.

Pediatric Clinical Chest Rounds is an annual symposium focused on the diagnosis and management of 4 challenging cases, selected from reports submitted to the PEDS Assembly. Each case is presented by a trainee (typically a Ped Pulm fellow),

followed by a discussion of the main points of the case (typically an expert in the field). This session is one of the most attended by Pediatric Assembly membership.

- 9:15 Case #1
- 9:27 Discussant #1
- 9:37 Case #2
- 9:50 Discussant #2
- 10:00 Case #3
- 10:12 Discussant #3
- 10:22 Case #4
- 10:35 Discussant #4

BEHAVIORAL • CLINICAL

CRITICAL CARE TRACK

C4 CARE OF THE DYING IN THE ICU: END OF LIFE CARE IN 2024 AND BEYOND

Assembly on Critical Care

9:15 a.m. - 10:45 a.m. **Marriott Marquis San Diego Marina**

Grand Ballroom 2-4 (Lobby Level, North Tower)

Target Audience

This session is intended for all those that work in an ICU including MDs (both trainees and non-trainees), RNs, APPs, RTs, PTs, Dieticians, social workers and Spiritual Care Providers

Objectives

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

- recognize the acutely dying patient in the ICU in order to improve the transition to comfort focused care
- improve the dying process for patients and families by adopting initiatives such as the Three Wishes Program
- describe epistemic injustice at the end of life and identify strategies to combat injustices

This session will focus on recognizing the acutely dying patient in the ICU and providing tangible strategies to care for providers, patients, and families in the current modern era that we live and practice in. The session will focus on dying with dignity in a highly technological society and environment where we have a myriad of interventions to offer and will cover challenging end of life scenarios and health disparities at the end of life.

9:15 Dying in the ICU: Setting the Stage

- 9:20 **Recognition and Management of the Acutely Dying Patient**
- 9:35 **Epistemic Injustice in Serious Illness**
- 9:55 **Symptom Management at the End of Life**
- 10:10 **Communication as the Key to Care of the Patient and Family at the End of Life**
- 10:25 **Adopting the 3 Wishes Program (3WP) at Your Institution**
- 10:40 **Wrap Up, Q&A with Speakers and Audience**

CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

C5 WHAT'S FAT GOT TO DO WITH IT? NEW EVIDENCE FOR THE INFLUENCE OF OBESITY ON CHRONIC AIRWAYS DISEASE

Assemblies on Respiratory Structure and Function; Clinical Problems

9:15 a.m. - 10:45 a.m. **Marriott Marquis San Diego Marina**

Grand Ballroom 5-6 (Lobby Level, North Tower)

Target Audience

Clinicians and translational scientists who care for and/or study patients with chronic airways disease, as well as interdisciplinary specialists (e.g. endocrinology, family medicine and general internal medicine)

Objectives

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

- gain perspective on the potential altered immune and inflammatory pathways in the airways associated with obesity and metabolic dysregulation
- learn new findings about the influence of obesity and metabolic dysregulation on airway structure and physiology, including bronchial hyperresponsiveness, that may contribute to the pathophysiology of chronic airways disease
- increase awareness of the clinical implications of obesity, metabolic dysfunction and chronic airways disease, as well as emerging novel therapeutics for difficult-to-treat asthma and COPD among patients with obesity

The growing epidemic of obesity across the life-course has amplified the importance of identifying mechanisms by which adiposity and associated metabolic derangements influence

airways dysfunction and obstructive lung diseases. This session will focus on the evidence for molecular, cellular, and physiologic alterations in the lung induced by obesity that predispose these individuals towards asthma and COPD, and inform potential targets for future therapies.

9:15 Introduction to the Session

9:25 Airway Epithelial Metabolic Dysregulation as a Driver of Downstream Inflammation and Bronchial Hyperresponsiveness

9:40 Obesity Induces Airway Smooth Muscle Cell Hyperresponsiveness

9:55 Insulin Resistance and Dysglycemia - Bystanders or Contributors to Asthma in Obesity

10:10 Physiological Phenotyping in the Evaluation and Treatment of Obese Asthma

10:25 The Obesity Paradox in COPD

10:40 Conclusion

BASIC • BEHAVIORAL • CLINICAL

PUBLIC ADVISORY ROUNDTABLE SYMPOSIUM

C6 ENVIRONMENTAL INFLUENCE ON LUNG HEALTH

Assembly on ATS Public Advisory Roundtable

9:15 a.m. - 10:45 a.m. San Diego Convention Center
Room 29A-D (Upper Level)

Target Audience

Providers of lung health and allied services

Objectives

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

- describe new findings with regard to the environmental influence on lung health
- define new strategies to manage the care of individuals with chronic lung conditions to help mitigate the negative effects of air pollutants
- better counsel patients on treatment options and preventive strategies to improve quality of life and optimize health outcomes

This session will focus on the effect that the environment has on lung health. Recently airborne particulates from forest fires brought home the impact of air quality, especially for individuals with compromised breathing. Presentations will discuss the consequences of a warming

climate, severe weather events, and flooding on this community. It is well known that higher levels of air pollution can lead to increased symptoms, worse lung function, and more hospitalizations in patients with airway diseases such as asthma and chronic obstructive pulmonary disease (COPD) and interstitial lung diseases (ILD). We also know that air quality is linked to poor health outcomes for patients with other lung conditions and conditions like heart disease or stroke.

9:15 PAR Award Presentations

9:30 Patient Speaker

9:45 The Climate Crisis and Lung Health: An Urgent Call to Action

10:05 Environmental Exposures and Life Course Lung Health: Timing is Everything

10:25 Environmental Contributions to Health Disparities in Obstructive Airway Disease

BEHAVIORAL • CLINICAL

SCIENTIFIC SYMPOSIUM

C7 ELEVATING THE QUALITY OF DELIVERY OF SUPPLEMENTAL OXYGEN

Assemblies on Nursing; Behavioral and Health Services Research; Clinical Problems

9:15 a.m. - 10:45 a.m. Marriott Marquis San Diego Marina
Pacific Ballroom 21-22 (Ground Floor, North Tower)

Target Audience

Target audience includes physicians, advanced practice professionals (APPs), nurses, physical therapists and respiratory therapists who are involved in caring for patients who require supplemental oxygen outside of the acute care/inpatient setting.

Objectives

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

- improve the quality of life/health status of patients receiving long term oxygen therapy by identifying the key drivers of quality of life and incorporating these findings into supplemental oxygen management
- better counsel patients on the limitations and advantages of pulse flow and continuous flow portable compressed gas cylinders, oxygen concentrators, and liquid canister oxygen devices
- describe new findings about the impact of the Competitive Bidding reimbursement model on supplemental oxygen services and what

legislative efforts are in place to improve access to medically appropriate long-term oxygen

This session addresses the effective and evidence-based delivery of supplemental oxygen to patients with chronic lung disease. It updates information presented two years ago at the 2022 ATS conference and identifies persisting barriers as well as the progress made in improving oxygen delivery. This multidisciplinary session addresses the urgent need to access and disseminate clinical, financial, and patient-reported outcome data to improve supplemental oxygen delivery services. Specific guidance is included for clinician assessment of patients' oxygen needs, and prescription of appropriate equipment, as recommended in the ATS Oxygen Clinical Practice Guidelines. The impact of, and current research around, technology innovation, reimbursement models, and legislative efforts are presented.

- 9:15 Introduction Including Taped Presentation from Patient with PH Using Sup Oxygen**
- 9:20 Patient Speaker**
- 9:25 Quality of Life for Patients Using Supplemental Oxygen**
- 9:40 The Cost Impact of Competitive Bidding on Supplemental Oxygen Users: A CMS Analysis in Patients with COPD**
- 9:55 Getting Portable Oxygen to Your Patients: What Clinicians Need to Know**
- 10:10 Oxygen Innovation: Remote Control, Auto-titration, High Continuous Flow**
- 10:20 Legislative Progress for Improving Oxygen Service Quality**
- 10:30 Summary of Session and Q & A**

CLINICAL

SCIENTIFIC SYMPOSIUM

C8 MOVING THE NEEDLE IN THE RIGHT DIRECTION: A PRO-CON DEBATE ON STRATEGIES FOR LUNG NODULE BIOPSIES

Assembly on Thoracic Oncology

9:15 a.m. - 10:45 a.m. Marriott Marquis San Diego Marina

Pacific Ballroom 24-26 (Ground Floor, North Tower)

Target Audience

Clinicians, nurses, allied health staff and researchers in primary care and respiratory diseases, including chest physicians, interventional pulmonologists, thoracic/general surgeons, oncologists, junior staff and scientists

Objectives

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

- understand and address challenges and limitations in robotic bronchoscopy relative to traditional procedures
- identify the options for advanced imaging techniques and know how to implement them into their bronchoscopy practice
- define and apply the adjunctive role of ROSE and OCT in confirmation of biopsy site and evaluation of an adequate tissue sample

This symposium engages experts and attendees in a thought-provoking discussion about the use of new technology and techniques in peripheral lung nodule biopsy. Designed as a pro-con debate, by presenting arguments from both sides, this session seeks to explore the benefits/ limitations of recent advances in lung nodule biopsy. Debate topics will include 1) Necessity of robotic bronchoscopy 2) Advantage of intra-operative imaging (eg. Cone beam CT) 3) Necessity of Rapid On-site Evaluation (vs no ROSE or other modalities such as OCT) and 4) Importance of cryobiopsy for biopsy of peripheral pulmonary nodules (vs other tools including various needle sizes)

- 9:15 Robotic Bronchoscopy is Necessary for Peripheral Lung Nodule Biopsy: Con**
- 9:26 Robotic Bronchoscopy is Necessary for Peripheral Lung Nodule Biopsy: Pro**
- 9:37 Cone Beam Imaging is Needed during Peripheral Nodule Biopsy: Con**
- 9:48 Cone Beam Imaging is Needed during Peripheral Nodule Biopsy: Pro**
- 10:00 Cryobiopsy Should be Used During Peripheral Nodule Biopsy: Con**
- 10:12 Cryobiopsy Should be Used During Peripheral Nodule Biopsy: Pro**
- 10:24 Rapid On-Site Evaluation is necessary During Peripheral Nodule Biopsy: Con**
- 10:34 Rapid On-Site Evaluation is necessary During Peripheral Nodule Biopsy: Pro**

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 • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

C9 RHINOVIRUS INFECTION OF THE AIRWAY EPITHELIUM IN ASTHMA

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

9:15 a.m. - 10:45 a.m. San Diego Convention Center
Room 24A-C (Upper Level)

Target Audience

Researchers and clinicians with an interest in understanding the effects of epithelial rhinovirus infection on the regulation of inflammation in asthma.

Objectives

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

- describe new findings about the regulation of inflammation relevant to asthma that occurs in response to rhinovirus infection
- understand the regulation of inflammation through cell-to-cell interactions among epithelial cells and innate cells within the epithelium
- gain insights into the prevention of rhinovirus mediated exacerbations of asthma

Rhinovirus infection is common at asthma onset and during exacerbation and progression. Rhinovirus infection of the airway epithelium induces a strong type-1 immune response but leads clinically to features of type-2 (T2) inflammation in some individuals who are susceptible to or have asthma. Recent work in this area has revealed new insights into the alterations in antiviral immune responses in asthma, potential modulators of this response and connections between rhinovirus infection of the susceptible epithelium and the origin of the accentuated inflammatory response in asthma.

9:15 The Importance of Respiratory Viral Infection in the Pathogenesis of Asthma

9:20 Inflammatory Responses to Rhinovirus C Infection Involve Cross-Talk Between Epithelial Subsets

9:40 Differential Epigenetic Responses to Rhinovirus A at Asthma-Associated Loci in Bronchial Epithelial Cells

10:00 Antiviral Responses in Epithelial Cells from Individuals with Asthma

10:20 Cross Talk Between the Epithelium and Mast Cells in the Context of Rhinovirus A Infection

10:40 Summary: The Influence of Rhinovirus Infection of the Airway Epithelium in Asthma

CLINICAL

SCIENTIFIC SYMPOSIUM

C10 BEYOND TOBACCO: Non-SMOKING CAUSES OF COPD

Assemblies on Environmental, Occupational and Population Health; Clinical Problems

9:15 a.m. - 10:45 a.m. Marriott Marquis San Diego Marina
Grand Ballroom 11-13 (Lobby Level, North Tower)

Target Audience

Clinicians in pulmonary, pediatrics, infectious disease and occupational health fields, PhD scientists, respiratory health workers, environmental and urban health experts and members of environmental/ global health researchers and agencies.

Objectives

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

- increase awareness about Non-smoking related causes of COPD across the lifespan
- review the evidence for specific Non-smoking related causes of COPD, including perinatal insults, post-infectious, occupational and environmental exposures
- learn strategies to recognize and address Non-smoking related causes of COPD in clinical practice

There is a growing need to address key contributors to COPD beyond tobacco use. This session highlights major drivers of Non-tobacco related COPD, and the impact of modifiable environmental exposures on COPD morbidity and mortality. Through this session, we will identify key knowledge gaps, highlight modifiable risk factors and provide practical guidance to address occupational and environmental drivers of COPD in clinical practice.

9:15 The State of the Science What Do We Know About Non-Smoking Related Causes of COPD?

9:30 Setting the Stage: the Role of In Utero and Early Life Exposures

9:45 Infectious Causes of COPD

10:00 Occupational COPD

- 10:15 **Indoor and Outdoor Air Pollution: Environmental Interventions to Improve Outcomes in COPD**
- 10:30 **Integrating the Epidemiology into Clinical Care: How Should We Address Non-Smoking Related Causes of COPD in the Office?**

BASIC • CLINICAL • TRANSLATIONAL
SCIENTIFIC SYMPOSIUM
C11 COHORT STUDIES IN PULMONARY HYPERTENSION - DEFINING NOVEL PHENOTYPES

Assembly on Pulmonary Circulation

9:15 a.m. - 10:45 a.m. **Marriott Marquis San Diego Marina**

Pacific Ballroom 18-19 (Ground Floor, North Tower)

Target Audience

Pulmonary hypertension physicians and researchers

Objectives

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

- describe new findings from global pulmonary hypertension registries and tissue banks
- understand how to access data generated by the global pulmonary hypertension registries
- understand how to access sample resources in the various pulmonary hypertension registries

Representatives of large cohort pulmonary hypertension biobanks and studies around the world discuss findings from their studies, as well as how to access their resources.

- 9:15 **A Patient's Perspective**
- 9:21 **The Pulmonary Hypertension Breakthrough Initiative (PHBI), Powering Discovery for 18 Years**
- 9:35 **Multi-Omics Analyses in UK PAH Cohort Studies to Define Novel Phenotypes**
- 9:49 **Precision Medicine Through the Pulmonary Vascular Disease Phenomics (PVDomics) Cohort**
- 10:03 **PAH-Targeted Therapies in Non-PAH Groups in PVRI GoDeep, a Worldwide PH Meta-Registry**
- 10:17 **The US Chronic Thromboembolic Pulmonary Hypertension Registry: Enrollment Characteristics and Initial Results**

- 10:36 **New Susceptibility Loci Associated with Pulmonary Embolism and CTEPH: a GWAS Analysis from the Beijing Cohort**

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BEHAVIORAL
SCIENTIFIC SYMPOSIUM
C12 CARING FOR THE HEALERS

Assemblies on Nursing; Sleep and Respiratory Neurobiology; Health Equity & Diversity Committee; Council of Chapter Representatives; Membership Committee

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

San Diego Convention Center

Room 7A-B (Upper Level)

Target Audience

Practicing healthcare workers, researchers, trainees, educators, healthcare administrators, and policy-makers.

Objectives

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

- list individual and institution-level determinants of wellbeing / burnout among healthcare workforce
- identify groups of healthcare workers at increased risk for wellbeing / mental health issues
- describe specific interventions to improve wellbeing of the healthcare workforce

As healthcare providers and researchers, ATS members experience many stressors that can erode wellbeing, resulting in high rates of burnout, depression, substance abuse, and suicide. This session will review the scope of the lack of wellbeing among nurses, providers, and researchers, including the negative impacts on patient care and healthcare institutions. This session will also provide approaches to address these problems. The speakers will review successful, evidence-based approaches to promote wellbeing and address mental health issues for providers, nurses, researchers, and other members of the healthcare workforce

- 9:15 **Introduction**

- 9:25 **An Overview of Healthcare Provider Wellbeing and What Happens When Providers are Not Well**

- 9:35 Supporting the Wellbeing of PhDs
- 9:45 Clinician Wellbeing - A Nursing Perspective
- 9:55 The Role of Sleep in Clinician Wellbeing
- 10:05 The Importance of Belonging: The Intersection of Wellbeing and Inclusion
- 10:15 Health Systems Solutions to Improve Provider Wellbeing
- 10:30 Question and Answer Period

CLINICAL • TRANSLATIONAL
SCIENTIFIC SYMPOSIUM
C13 REASSESSING THE VALUE OF PHYSIOLOGIC ENDOTYPES IN UNDERSTANDING OSA HETEROGENEITY
Assemblies on Sleep and Respiratory Neurobiology

9:15 a.m. - 10:45 a.m. Marriott Marquis San Diego Marina

Grand Ballroom 8-9 (Lobby Level, North Tower)

Target Audience

Clinicians, researchers, and others interested in using pathophysiological insights to inform the care of patients with sleep-disordered breathing.

Objectives

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

- describe the OSA physiological endotypes and the evidence supporting the role of each in producing the OSA syndrome
- review the robustness of evidence that physiologic endotypes can explain the heterogeneity in OSA and impact clinical decision-making on the diagnosis and treatment in patients seeking care for OSA
- define next steps necessary using physiologic endotypes or other strategies to individualize the care of patients with OSA

This session will critically evaluate the physiological endotype theory of obstructive sleep apnea pathogenesis, assess the robustness of findings resulting from this paradigm, and consider how to better utilize physiologic insights to advance an understanding of OSA heterogeneity and individualization of care.

9:15 Why the Basic Assumptions for OSA Physiologic Endotypes are Problematic

- 9:35 Physiologic Endotypes Have Not Informed the Diagnosis of OSA
- 9:55 Physiologic Endotypes Have Not Informed Treatment Decisions for OSA
- 10:15 What is the Future Potential for Endotyping to Explain OSA Heterogeneity?
- 10:30 What are Alternative Pathways to Explain OSA Heterogeneity?

BASIC • TRANSLATIONAL
MINI SYMPOSIUM
C14 HARMONY IN HEALING: IMMUNE CELL CHOREOGRAPHY OF LUNG INJURY AND REPAIR

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

San Diego Convention Center

Room 2 (Upper Level)

Oral Presentations:

- 9:15 Impaired Complement Regulation Drives Chronic Lung Allograft Dysfunction After Lung Transplantation
- 9:27 MAIT Cells Protect Against Lung Injury
- 9:39 Reengaging CD8+ T Cells in Clearance of Senescent Cells in Lung Injury Repair
- 9:51 Antigenic Responses Are Hallmarks of Fibrotic Interstitial Lung Diseases Independent of Underlying Etiologies
- 10:03 Acute Lung Injury Induced Via Intra-tracheal Lipopolysaccharide Administration Results in Expansion of Lung Megakaryocytes
- 10:15 Treg Subset Kinetics and Effector Functions Are ALI Injury Specific
- 10:27 The Scavenger Receptor, LOX-1, Promotes Alveolar Macrophage Identity and Regulates Innate Immune Cell Activity to Limit Inflammatory Injury During Pneumonia
- 10:39 Hypomethylating Therapy Reduces Allograft Rejection in a Murine Lung Transplant Model
- 10:51 Decitabine Affects Lung Monocyte-macrophage Dynamics and Phenotype in Acute Lung Graft Rejection

11:03 Depletion of Natural Killer Cells Suppresses Aspects of Cellular and Antibody-mediated Rejection Early Post-transplant in a Murine Model of Restrictive Allograft Syndrome

BEHAVIORAL • CLINICAL

MINI SYMPOSIUM

C15 COPD EPIDEMIOLOGY, TREATMENT, AND DISPARITIES

9:15 a.m. - 11:15 a.m. San Diego Convention Center
Room 8 (Upper Level)

Oral Presentations:

- 9:15 Efficacy of Mepolizumab in Patients With Chronic Obstructive Pulmonary Disease With or Without Chronic Bronchitis: Post Hoc Analysis of the METREX and METREO Phase 3 Trials
- 9:27 Short-term Outcomes of Endobronchial Valve Placement for Chronic Obstructive Pulmonary Disease in Patients With Underlying Cardiac Arrhythmias: A Propensity Matched National Study
- 9:39 Impact of Long-term Domiciliary Non Invasive Ventilation (NIV) on Severe Exacerbations and Survival in Patients With Chronic Obstructive Pulmonary Disease (COPD): A Nationwide Cohort Study Using Multistate Models
- 9:51 Childhood Cigarette Smoking and Risk of COPD in Older U.S. Adults
- 10:03 Social Isolation, Loneliness, and All-cause Mortality Risk in Older Adults With Chronic Obstructive Pulmonary Disease: A National Longitudinal Study
- 10:15 United States County-level Social Vulnerability and Chronic Obstructive Pulmonary Disease Mortality
- 10:27 Geographic Disparities in Tobacco Dependence Treatment Among Patients With COPD in a National Cohort
- 10:39 Food Insecurity Is Associated With Higher COPD Mortality
- 10:51 Cost-Related Nonadherence in the Medication Adherence Research in COPD (MARC) Study

11:03 The Economic and Health Burden of COPD in North America Through 2050: A Scenario Analysis Based on Two Large Data Sources

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

C16 SEPSIS IN 2024: FROM BENCH TO BEDSIDE AND AROUND THE WORLD

9:15 a.m. - 11:15 a.m. San Diego Convention Center
Ballroom 20A (Upper Level)

Oral Presentations:

- 9:15 Identifying Pre-sepsis Opportunities for Risk Stratification in Diverse Healthcare Venues
- 9:27 Large Language Models Identify Presenting Symptoms Associated With Infectious Diagnoses, Multi-Drug Resistant Organisms, and Mortality in Clinical Notes of Patients With Suspected Infection
- 9:39 Organ Dysfunction Scoring Systems Scale With Dysregulated Host Responses Among Adults With Suspected Sepsis in Uganda: A Prospective Cohort Study
- 9:51 Latent Class Analyses of the CLOVERS Trial Reveal Novel Phenotypes of Sepsis Patients With Shock Presenting to the Emergency Department
- 10:03 Variation in Initial Fluid Resuscitation Volume and Type in Patients With Sepsis Across Michigan Hospitals
- 10:15 Machine Learning of Heterogeneous Response to Resuscitation Strategy in Patients With Sepsis-induced Hypotension
- 10:27 An International Multicenter Prospective Observational Clinical Study to Identify Gene-expression Sepsis Immune Subgroups and Their Associations With Clinical Outcomes
- 10:39 Longitudinal Lower Airway and Systemic Host Response in Patients With Severe COVID-19 Pneumonia
- 10:51 Validation of Septic Shock Metabolic Phenotypes, Trajectory Over Time and Association With Outcome

Featured Speaker Presentation:

- 11:03 Among Patients With Sepsis a Hyperinflammatory Subphenotype Is Associated With Causative Pathogen

BASIC • CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

C17 PEDIATRIC IMPACT OF COVID-19 AND OTHER RESPIRATORY INFECTIONS

9:15 a.m. - 11:15 a.m. San Diego Convention Center
Room 6D (Upper Level)

Oral Presentations:

- 9:15 Dynamic Changes in Rhinovirus Diversity From 2015 to 2023: The Impact of Public Health Measurements and Its Implication to 'Immune Debt' in Children
- 9:27 Age-related STAT3 Signaling Regulates Severity of RSV Infection in Human Bronchial Epithelial Cells
- 9:39 Clinical Prediction Tool for Prioritizing Respiratory Syncytial Virus Prevention Products for High-risk Infants During Current Limited Availability of Nirsevimab in the United States
- 9:51 Multiplexed Detection of Airborne Respiratory Viruses in Inner-city Elementary Schools
- 10:03 Viral Determinants of Early-Life Lower Respiratory Tract Illnesses: Results From the PRIMERO Birth Cohort Study
- 10:15 Ethnic and Racial Differences in Children With Respiratory and Neurological Post-acute Sequelae of SARS-CoV-2 an EHR-based Cohort Study From the Recover Program
- 10:27 Symptom Control and Lung Function in Children With Asthma Up to 500 Days After COVID-19 Infection
- 10:39 Asthma Healthcare Utilization in Early Childhood: Using COVID-19 Pandemic as a Natural Experiment
- 10:51 Predictors of Hospitalization for Patients With Severe Asthma: An Update Since the COVID-19 Pandemic
- 11:03 Studying Pediatric Responses to Respiratory Infections Is Vital to Population Health

BASIC • CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

C18 TRANSLATING SCIENCE IN RESPIRATORY INFECTIONS

9:15 a.m. - 11:15 a.m. San Diego Convention Center
Room 6C-F (Upper Level)

Oral Presentations:

- 9:15 Host-bacterial Immune Responses to Ventilator-associated Pneumonia in COVID-19 Patients
- 9:27 Multi-omics Interrogation of Lung Epithelium Reveals Epigenetically Inducible Super-enhancer Mechanisms for Resistance Against Respiratory Infections
- 9:39 HEX17, A Novel Broad-spectrum Antiviral Intranasal Drug, Demonstrates Efficacy Against Influenza in a Controlled Human Infection Model Conducted in Healthy Adults
- 9:51 Subphenotypes of Self-reported Symptoms Inpost-acute Sequelae of COVID-19 (PASC) Relate to Oral and Gut Microbiota Profiles but Not to Viral Persistence
- 10:03 Lower Airway Microbial Characteristics of Ventilator-associated Staphylococcus Aureus Pneumonia in COVID19 Patients
- 10:15 Multiple Oral Commensal Aspiration Induces Resistance to Lower Airway Pneumococcus Infection
- 10:27 SARS-CoV-2 Viremia Associates With Thrombosis and Mortality in the ACTIV-4a Trial
- 10:39 Longitudinal Effects of Experimental Rhinovirus Challenge on Airway Phenotype in Chronic Obstructive Pulmonary Disease
- 10:51 Bronchoalveolar Lavage Amylase Levels Are Associated With Neutrophilic Alveolitis and Distinct Microbiologic Patterns in Critically Ill Patients
- Featured Speaker Presentation:
- 11:03 Translating Science into Solutions for Respiratory Infections - The Road Ahead

BASIC • TRANSLATIONAL**MINI SYMPOSIUM****C19 CHARTING THE LUNG: INNOVATION IN MULTIOMICS**

9:15 a.m. - 11:15 a.m. San Diego Convention Center
Room 32A-B (Upper Level)

Featured Speaker Presentation:

9:15 Single Nucleotide Resolution of Altered Transcription Factor Binding Sites in Fibrotic Human Lung Disease

Oral Presentations:

- 9:27 Whole Blood Transcriptome in Long-COVID Patients Reveals Association With Lung Function and Differences in Immune Response: Results From the P402 Consortium
- 9:39 Transcriptional Pathways in Small Airway Basal Cells Define Niches of Goblet Cell Metaplasia in Asthma
- 9:51 Revealing Lung Periphery Alterations in COPD Via Spatial Transcriptomics
- 10:03 Spatial Transcriptomics Resolve an Emphysema-Specific Lymphoid Follicle B Cell Signature in COPD
- 10:15 Spatial Transcriptomic Analyses of the Aging and IPF Lungs Reveals Age and Disease Senescence Niches
- 10:27 Mapping Intra-pulmonary Tissue Neighborhoods Reveals Localized Fibrotic and Regenerative Motifs in Murine Pulmonary Fibrosis
- 10:39 Spatial Transcriptomics Analysis Reveals Pathology-specific Alveolar Niches in Pulmonary Fibrosis
- 10:51 Integration of High-resolution 3D Organoid Engineering and Spatial Transcriptomics as a Next-generation Drug Discovery Platform for Pathologic Lung Remodeling
- 11:03 Multi Omic Profiling Identifies PUFINs: Novel Long Non Coding RNAs (lncRNAs) Regulating Pulmonary Myofibroblast Activation in Fibrosis

BASIC**MINI SYMPOSIUM****C20 HAVING A GROWTH MINDSET: REPROGRAMMING CELLULAR PATHWAYS TO DISEASE**

9:15 a.m. - 11:15 a.m. San Diego Convention Center
Room 30A-B (Upper Level)

Oral Presentations:

- 9:15 Disruption of Both BMP and TGF- β Signaling in Fetal Lung Mesenchyme Has Additive Effects on Developing Congenital Pulmonary Cysts
- 9:27 Hydrogen Sulfide (H₂S) Alleviates Effects of Hyperoxia on Mitochondrial Structure and Function in Human Developing Airway Smooth Muscle
- 9:39 Sex-specific Associations of DNA Methylation With Lung Function Reveal Early Life Programming of Inflammatory Pathways
- 9:51 Maternal High-fat Diet Programs Development of Airway Hyperinnervation and Hyperresponsiveness in Offspring Independent of Genetic Background
- 10:03 Stop! In the Name of (Light): Using Optogenetics to Define the Role of Parasympathetic Nerves in Allergen-induced Airway Hyperresponsiveness
- 10:15 Sensory Neurons Support Mast Cell Differentiation in an In Vitro Co-culture Model
- 10:27 Role of Novel E3 Ubiquitin Ligase RNF145 in Airway Smooth Muscle Growth and Lung Function
- 10:39 The Epigenetic Clock Grimace Captures a Universal Signature of Lung Aging
- 10:51 Survival, Growth, Respiratory Mechanics, and Neurodevelopmental Outcome in Former Preterm Lambs Treated With AVR-48 to Prevent BPD

BEHAVIORAL • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

C21 MIND, BODY AND AGING AFTER THE ICU: A CC/BSHSR COLLABORATIVE SESSION

9:15 a.m. - 11:15 a.m. San Diego Convention Center
Room 5A-B (Upper Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

- | | | | |
|-----|--|-----|---|
| 601 | How Much Is Too Much? An Assessment of Intensive Care Unit Sedative Use Across the Veterans Healthcare System During the COVID-19 Pandemic | 610 | Impaired Quality of Life and Associated Factors in Intensive Care Unit (ICU) Survivors at 30th Day of ICU Admission |
| 602 | Variation in Opioid Administration Among Patients Mechanically Ventilated With Acute Respiratory Failure | 611 | Progression of Symptoms in Post-acute Sequelae of SARS-CoV-2 (PASC) Patients |
| 603 | Biomarkers of Inflammation in Critically Ill Patients According to Data-derived Delirium Subtype Versus Persistent Coma Versus Never Delirious | 612 | Disparities in Functional Recovery Amongst ICU Survivors |
| 604 | Elevated Plasma Growth Differentiation Factor 15 Associates With Delirium Duration and 30-day Mortality in Sepsis | 613 | Feasibility of Administering a Risk Prediction Tool for Persistent Post-ICU Functional Impairment Among Older ICU Survivors in the Hospital Setting |
| 605 | Associations Between Biomarkers of Inflammation at Hospital Discharge With Cognitive and Physical Function in Survivors of Critical Illness | 614 | Factors Associated With Long-term Mortality and Disability in Critically Ill Patients in Tikur Anbessa Specialized Hospital, Addis Ababa, Ethiopia |
| 606 | Establishing the Role of the Brief Cognitive Assessment Tool in Evaluation of Cognitive Function After Recovery From Critical Illness | 615 | Relationship Between Change in Sleep Impairments and Burden of Post-Intensive Care Syndrome Among Intensive Care Unit Survivors |
| 607 | Development of a Mechanical Ventilation Decision-making Information Sheet for Surrogates of Patients With Advanced Dementia: A Pragmatic Mixed-methods Study | 616 | The Effect of Damage Control Surgery in Post-intensive Care Syndrome |
| 608 | Comparative Epidemiology of Inpatient Palliative Care Among Patients With Chronic Obstructive Pulmonary Disease and Other Common Serious Illnesses | 617 | Comparison of Change in Rectus Femoris Cross-sectional Area Over Time in Ventilated Vs Non-ventilated Patients With Shock |
| 609 | Differences in Healthcare Utilization at the End of Life: A Comparison Study Across Lung Cancer, COPD, and IPF | 618 | Differential Evolution of Inspiratory, Expiratory, and Limb Muscle Mass and Function During Mechanical Ventilation |
| | | 619 | Early Physical and Occupation Therapy Is Associated With Improved Outcomes in Mechanically Ventilated Us Adults: 2008-2021 |
| | | 620 | Development of an Australian Clinical Practice Guideline for the Use of Physical Rehabilitation and Mobilisation in Adult Intensive Care Units |
| | | 621 | Intensive Care Unit Mobilization Trends Before, During, and After the COVID-19 Pandemic by Oxygen Delivery Device |
| | | 622 | A Randomized Controlled Trial of Post-ICU Telehealth Care |
| | | 623 | Digital Peer Support for ICU Survivors (icuRESOLVE): A Pilot Randomised Controlled Trial |
| | | 624 | Validation of the ProVent 1-Year Mortality Prediction Model in ARDS Patients Receiving at Least 7 Days of Mechanical Ventilation |
| | | 625 | Clinical Variables on Day 7 of Mechanical Ventilation Predict 1-year Mortality Outcomes: Prospective Validation of the Provent Score |

BEHAVIORAL • CLINICAL

POSTER DISCUSSION SESSION

C22 ARTIFICIAL INTELLIGENCE IN THE ICU: THE MACHINE WILL SEE YOU NOW

9:15 a.m. - 11:15 a.m. San Diego Convention Center

Room 1A-B (Upper Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

- 201 Training and Validation of a Pandemic Clinical Decision Support Model for Ventilators Using Collective Intelligence and Imitation Learning
- 202 Local Validation of a Machine Learning Model for Mechanical Ventilation
- 203 Deep Learning-driven Prediction of Future Blood Pressure in the Intensive Care Unit
- 204 Systematic Evaluation of General Large Language Models for Contextually Assessed Semantic Concepts From Unstructured Critical Care Data
- 205 Utility of Multimodal Large Language Models in Analyzing Chest X-ray With Incomplete Contextual Information
- 206 Discriminatory Performance of Commonly Used Risk Triage Tools in Hospitalized Recipients of Hematopoietic Stem Cell Transplantation
- 207 Natural Language Processing and Machine Learning to Predict High-intensity Care in Patients With Alcohol Withdrawal Syndrome
- 208 Prediction Model Using Machine Learning for 90-day Mortality of Patients With Sepsis in Intensive Care Unit From MIMIC-IV Dataset
- 209 Automated Sequential Organ Failure Assessment: A Practical Alternative to Manual Sofa Scoring for Large Scale Data Analysis With Excellent Prognostic Performance
- 210 Frequency, Duration of, and Risk Factors for Diagnostic Delays Associated With Sepsis
- 211 Development and External Validation of a Natural Language Processing Tool to Identify Hospitalized Patients With Infection on Admission
- 212 Impact of a Deep Learning-based Sepsis Prediction Model on Quality of Care and Survival: A Causal Impact Analysis Using Before-and-After Observational Data
- 213 Development of a Machine Learning Model to Predict Serum Creatinine in Critically Ill Adults
- 214 Correcting Real-World Pulse Oximetry Readings Using Electronic Health Records and Machine Learning
- 215 A Retrospective Causal Inference-based Study Using Machine Learning for Identifying Treatment Effects of Various Therapies in Sepsis-induced Acute Respiratory Failure Phenotypes
- 216 Using Machine Learning to Predict the Effective Treatments for Patients With Clinical Deterioration
- 217 Discordance Between Clinician Actions and Artificial Intelligence Recommendations in the Treatment of Sepsis
- 218 Performance Evaluation of an Artificial Intelligence (AI)-based Algorithm for Incidental Findings of Pulmonary Embolism
- 219 A Natural Language Processing Method to Determine Endotracheal Tube Presence in a Public Image Database
- 220 Radiological Phenotypes of Acute Respiratory Distress Syndrome (ARDS)
- 221 Generation and Evaluation of Synthetic Critical Care Progress Notes With Large Language Models
- 222 Advancing Multi-center Clinical Research in Critically Ill Patients Through the Development of a Common Longitudinal ICU Format (CLIF)
- 223 Systematic Review of Publicly Available Critical Care Databases for Retrospective Statistical and Machine Learning Analysis
- 224 Automated Electronic Alerts Reduce Hyperoxemia in Mechanically Ventilated Patients

CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

C23 MACHINE LEARNED: AI-DRIVEN SOLUTIONS IN ILD AND LUNG TRANSPLANT

9:15 a.m. - 11:15 a.m. San Diego Convention Center
Room 33A-C (Upper Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

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|-----|--|-----|---|
| 901 | Survival Machine Learning Approach to Evaluate Proteomic Biomarkers of Idiopathic Pulmonary Fibrosis: A Window to Precision Medicine | 911 | Lung Texture Analysis Predicts Clinical Progression in a Cohort of Patients With Dermatomyositis and Scleroderma-related Interstitial Lung Disease |
| 902 | Evaluation of Quantitative Imaging in a Phase 2a Study for the Treatment of Idiopathic Pulmonary Fibrosis With Bexotegrast (INTEGRIS-IPF) | 912 | e-Lung CT Biomarkers Can Stratify Patients at Risk of IPF Progression at 52 Weeks; Post-hoc Analysis From a Randomised Control Trial |
| 903 | Utilising 3 Deep Learning Models for Outcome Prediction in Patients With Idiopathic Pulmonary Fibrosis | 913 | A Machine Learning Approach to Predict Lymphangioliomyomatosis Lung Disease Progression |
| 904 | Artificial Intelligence-based Decision Support for HRCT Stratification in Fibrotic Lung Disease: An International Study of 195 Observers From 43 Countries | 914 | Evaluating the Performance of an Ensemble Neural Network Pipeline in the Classification of Chest CT Scans as Control, Diffuse Cystic Lung Disease and Emphysema |
| 905 | Association of Quantitative Lung Fibrosis (QLF) Score With the Severity and Progression of Progressive Pulmonary Fibrosis (PPF) | 915 | Quantitative Assessment of CT Lung Abnormalities in Cystic Pulmonary Langerhans Cell Histiocytosis Using Parametric Response Mapping |
| 906 | Assessment of In Vivo Pulmonary Microvasculature in Interstitial Lung Disease Using Deep Learning-based Optical Coherence Tomography | 916 | In Silico Modeling of Airflow and Dosimetry in Sarcoidosis Airway Disease |
| 907 | Beyond Quantitative Interstitial Lung Diseases on High-resolution CT: Association of Single Timepoint Prediction (STP) Positive Score With Progression-free Survival | 917 | The Utility of Machine Learning for Predicting Donor Discard in Lung Transplantation |
| 908 | IS-IPF: Deep Learning Idiopathic Pulmonary Fibrosis (IPF) Classification and Its Association With Progression-free Survival | 918 | Automated Measurements of Lung Sizes Using Deep Learning and Computer Vision |
| 909 | Using Latent Class Analysis to Predict Outcomes and Inform Disease Classification in Fibrotic Interstitial Lung Disease | 919 | The Role of Imaging Biomarkers in Predicting Outcomes for Patients With Non-IPF Fibrotic ILD |
| 910 | Multi-modal Machine Learning Classifier for Idiopathic Pulmonary Fibrosis Predicts Mortality in Interstitial Lung Diseases | 920 | Machine Learning Classifier Predicts Mortality in Interstitial Lung Disease: A Validation Study |
| | | 921 | Novel Machine Learning Algorithm Predicts All-cause Mortality in the National Lung Screening Trial |
| | | 922 | Deep Learning-based Segmentation of CT Scans Predicts Disease Progression and Mortality in IPF |
| | | 923 | A Novel Radiomics Tool for Early Detection of Idiopathic Pulmonary Fibrosis |
| | | 924 | Validation of Automated Segmentation of Pulmonary Cysts in Lymphangioliomyomatosis |

BASIC • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

C24 CLINICAL, BIOLOGIC, AND RADIOLOGIC MARKERS OF KEY OUTCOMES AND TREATMENT RESPONSE IN COPD

9:15 a.m. - 11:15 a.m. San Diego Convention Center

Room 31A-C (Upper Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

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| <p>801 Psychobiologic Correlates of Stress: An Analysis of Perceived Stress, Nail Cortisol, and Serum Cortisol in Individuals With COPD</p> <p>802 Platelet Activation and Oxidative Stress as Potential Biologic Mechanisms of Psychological Stress in COPD</p> <p>803 Platelet Activation Is Associated With Respiratory Exacerbation Rate and Symptoms in SPIROMICS</p> <p>804 Protein Biomarkers Predictive of Acute Exacerbations in SPIROMICS and COPD Gene</p> <p>805 Differential Cytokine Profiles in Stable COPD Vs Acute Exacerbations</p> <p>806 Impact of Secondary Polycythemia on In-hospital Outcomes in Patients Admitted for Acute Exacerbation of Chronic Obstructive Pulmonary Disease</p> <p>807 Use of the Biofire Assay for Acute Respiratory Infection (ARI) Testing in the Community to Guide Antimicrobial Treatment in Chronic Obstructive Pulmonary Disease (COPD) and Asthma Exacerbations</p> <p>808 Nasal Mucosal Immune Biomarkers and Microbiome Among COPD Exacerbation Phenotypes: An Observational Study</p> <p>809 Insights into Immunogenetic Variability in the IgG Heavy Chain in COPD</p> <p>810 Eosinophilic Heterogeneity in COPD: How Stable Is the Eosinophilic Phenotype?</p> <p>811 Clinical Correlates of Exhaled Nitric Oxide in Patients With Eosinophilic COPD</p> | <p>812 Type 2 Inflammation Is Associated With CT Emphysema</p> <p>813 Predicting Endobronchial Valve Treatment Response in Emphysema Patients Using Quantitative Measures Extracted From Chest CT Scans</p> <p>814 Computer Assisted Quantitative Image Analysis as a Pathway to Identification of Combined Pulmonary Fibrosis and Emphysema (CPFE): Analysis of the SPIROMICS Cohort</p> <p>815 CT-derived Functional Imaging Biomarkers to Predict 10-year All-cause Mortality in COPD Gene Cohort</p> <p>816 Cardiovascular Biomarkers and Their Relationship to Radiologically Detected Coronary Artery Disease in Stable COPD and During Community-treated Exacerbation</p> <p>817 Chronic Obstructive Pulmonary Disease Classification Using Sex-specific Machine Learning Models and Quantitative Computed Tomography Imaging</p> <p>818 Airway Mucus Plugging and Cause-specific Mortality in COPD</p> <p>819 PODE: A Prognostic Score Using Quantitative Measurement of the Pectoralis Muscle and Subcutaneous Fat Area in Chronic Obstructive Pulmonary Disease</p> <p>820 Bronchoscopic Lung Volume Reduction Is Associated With Increased Pectoralis Muscle Mass Post-procedure in Chronic Obstructive Pulmonary Disease Patients</p> <p>821 Activin A Is an Associating Factors With Preserved Ratio Impaired Spirometry and Cognitive Function Impairment</p> <p>822 The Protease Anti-protease Balance in Chronic Obstructive Pulmonary Disease and Alpha-1 Antitrypsin Deficiency</p> <p>823 Clinical Characteristics and Health Care Resource Utilization Among Individuals Undergoing Alpha-1 Antitrypsin Testing in a Quaternary Health System</p> <p>824 Screening for Type 2 Inflammation and High Exacerbation Endophenotype in COPD</p> |
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825 Advancing Diagnostic Precision of Emphysema in Chronic Obstructive Pulmonary Disease: Machine-Learning Classification Integrating Non-Invasive Biomarkers, Clinical Characteristics, and Pulmonary Function

BASIC • TRANSLATIONAL

POSTER DISCUSSION SESSION

C25 GASLAMP QUARTER: SHEDDING LIGHT ON VASCULAR PATHOGENIC MECHANISMS IN PAH

9:15 a.m. - 11:15 a.m. San Diego Convention Center

Room 11A-B (Upper Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

501 Combined Inhibition of Histone Deacetylases and Bromodomain Proteins Normalizes Gene Expression and Reverses Sugen/Hypoxia-induced Pulmonary Hypertension

502 SOX17 Deficiency Is Additive to High Shear Stress in Compromising Endothelial Integrity

503 RKER-012, A Novel Modified ActRIIB Ligand Trap, Reduced Pulmonary Vascular Pathology in a Rat Model of Pulmonary Arterial Hypertension Through Attenuation of TGF β Family Autocrine/Paracrine Signaling Within the Vasculature

504 Inverse Expression of SOX17 and RUNX1 in Pulmonary Hypertension

505 Endothelial RAB7 Deficiency Impairs Endothelial Function and Promotes Pulmonary Hypertension Via Potential Induction of Pulmonary Artery Smooth Muscle Cell Growth

506 Intracellular Complement Signaling Drives Metabolic and Proinflammatory Reprogramming of Vascular Fibroblasts in Pulmonary Hypertension

507 Role of Vascular and Mural Cells in a Hypoxia-Pneumonectomy Model of Flow-Induced Pulmonary Hypertension

508 PIN1 Is Increased in Endothelial Cells Derived From Patients With Chronic Thromboembolic Pulmonary Hypertension (CTEPH)

509 Deconvolution of Human Pulmonary Artery Oxygen-sensing Cell Population in Health and Disease

510 BMP9-mediated ET-1 Transcription Requires Dual Activation of SMAD1/5/9 and SMAD2/3

511 XOR Activity in Scleroderma Associated-PAH

512 Circular RNA Profiling Identifies *circ5078* as a *BMPR2*-derived Regulator of Endothelial Translation

513 Hemin-induced Necrotic Pulmonary Artery Endothelial Dysfunction and Capillary Leak Is Regulated by Toll-like Receptor 4

514 HIF2A Activation Reduces Pulmonary Angiogenesis and Promotes Vascular Remodeling in PAH by Suppressing Wnt7a Production in Pulmonary Endothelial Cells

515 Snai1 Knockdown Induces Alterations in Methylation Status of Key Snai1-responsive Genes and Results in the Rescue of Pulmonary Hypertension-induced Right Ventricular Failure

516 Genetic Disruption of Protein C (PC) Binding to the Endothelial PC Receptor (EPCR) Selectively Impairs the Resolution of Acute Lung Injury in Mice

517 CYP1A1 Mediates Endothelial Dysfunction and Lung Injury Caused by Methicillin-resistant Staph Aureus (MRSA)

518 Epigenetic and Molecular Underpinnings of Preclinical and Clinical Group III Pulmonary Hypertension

519 Roles of CD26/DPP4 in Bleomycin-induced Pulmonary Hypertension in Mice

520 Hemoglobin-mediated Oxidation of Low-density Lipoprotein (oxLDL) Contributes to Lung Microvascular Endothelial Dysfunction Via Lectin-like Oxidized LDL Receptor 1 (LOX-1)

521 Shear Stress Increases Intracellular Calcium Concentration Via TRPV4 Channels in Human Lung Microvascular Endothelial Cells

522 Role of Pericyte Exosome-derived miRNAs in the Pathogenesis of Pulmonary Arterial Hypertension

523 Sex Differences in Pulmonary Arterial Hypertension Traced to Sphingosine-1-Phosphate Dynamics

524 Loss of the Cytosolic Double Stranded RNA Receptor MDA5 Contributes to Pulmonary Artery Endothelial Cell Dysfunction

CLINICAL • TRANSLATIONAL

RAPID POSTER DISCUSSION SESSION

C26 NOVEL TECHNOLOGIES AND IMAGING APPROACHES IN PEDIATRIC RESPIRATORY MEDICINE

9:15 a.m. - 11:15 a.m. San Diego Convention Center

Room 28C-E (Upper Level)

Viewing/Discussion 9:15-10:00

Abstract Summaries 10:00-11:15

- 301 Wearable Auscultation Device Validation in Children
- 302 Surface Diaphragm EMG and Bronchodilator Response in Children
- 303 How Should Monitored Adherence Be Measured? A Comparison of 2 Evaluation Methods
- 304 Three-dimensional Analysis of the Microvasculature in Alveolar Capillary Dysplasia
- 305 Quantification of Mechanical Ventilation Exposure Using Continuous Waveforms
- 306 The Role of Electrical Impedance Tomography (EIT) in Management Children With Severe Acute Respiratory Distress Syndrome on High Frequency Oscillator Ventilation
- 307 Initial Experience With Longitudinal Pulmonary MRI in Bronchopulmonary Dysplasia From Infancy to Early School-Age
- 308 Longitudinal Characterization of Ventilation and Perfusion in Infants With Bronchopulmonary Dysplasia Using Electrical Impedance Tomography
- 309 Automated Analysis of Bronchus and Artery Dimensions on Chest Computed Tomography in Children With Primary Ciliary Dyskinesia
- 310 XE-ing the Difference: Variability of Xenon MRI in Children With Primary Ciliary Dyskinesia
- 311 Characterizing the Lung Ultrasound Findings in Children With Pneumonia

312 Impaired Right Ventricular Remodeling and Biventricular Function as Assessed by Cardiac Magnetic Resonance Imaging and Cardiopulmonary Exercise Testing in Adolescents With Pectus Excavatum

313 Analysis of Central Airway Shape in Neonatal Congenital Diaphragmatic Hernia Before and After Surgical Repair

314 Contactless Bedside Monitoring Using the Albus Home Research Device (RD) to Predict Severe Asthma Attacks in Children

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

RAPID POSTER DISCUSSION SESSION

C27 NTM/BRONCHIECTASIS RAPID FIRE POSTERS

9:15 a.m. - 11:15 a.m. Marriott Marquis San Diego Marina

Pacific Ballroom 15-17 (Ground Floor, North Tower)

Viewing/Discussion 9:15-10:00

Abstract Summaries 10:00-11:15

- 101 Is Nontuberculous Mycobacterial Pulmonary Disease a New Etiotype of Chronic Obstructive Pulmonary Disease?
- 102 Effects of Aging on Host Responses Towards Pulmonary Mycobacterium Avium Infection in a Mouse Model
- 103 Association Between Nontuberculous Mycobacteria Isolation and Antibiotic Exposure
- 104 The Influence of Climate Change on Rising Incidence of Nontuberculous Mycobacteria Pulmonary Infection in the US, 2010-2019
- 105 Impact of Self-reported Symptomatic Adverse Events on Health-related Quality of Life in Patients Receiving Treatment for Mycobacterium Avium Complex Pulmonary Disease
- 106 Aspergillus Testing and Disease Outcomes in Bronchiectasis: Data From the EMBARC Registry
- 107 Health-related Quality of Life Measures in Nontuberculous Mycobacterial Pulmonary Disease: First Analysis of the NTM-KOREA Cohort

- 108 Lung Immune Cell Inflammasome Modulation to Volcanic Ash and Ash-derived Nontuberculous Mycobacteria
- 109 Clofazimine in the Treatment of Pulmonary Mycobacterium Avium Complex (MAC) Disease
- 110 Fully Automatic Analysis of Bronchus-artery Dimensions and Ratios of 625 Chest CTS of Bronchiectasis Patients Participating in the Embarc Registry
- 111 A Clinical Study of Longitudinal Changes in Radiographic Findings in Pulmonary Mycobacterium Avium Complex Diseases
- 112 Characterization and Evaluation of Gene Expression Profile for Nontuberculous Mycobacterial Pulmonary Disease
- 113 Clinical Significance of Cavity Obliteration Following Treatment in Patients With Mycobacterium Avium Complex Pulmonary Disease
- 114 Progression and Its Predictors in Patients With NTM Pulmonary Disease: 2nd Analysis of a Prospective Cohort Study
- 115 Lung-on-a-Chip Platforms for Nontuberculous Mycobacterial Pulmonary Disease: A Comparative Inspection of Patient-derived Epithelial Configurations
- 704 Epithelial Xbp1s Expression Leads to Distal Lung MUC5B Hyperproduction and Progression of Pulmonary Fibrosis Following Injury
- 705 The Role of Hedgehog-Interaction Protein (HHIP) in Pulmonary Fibrosis
- 706 Deletion of Epithelial Membrane Protein 2 Protects From Lung Fibrosis
- 707 Chemerin: A Novel Player in Pulmonary Fibrosis
- 708 Lung-targeted Delivery of Nrf2 Activator Attenuates the Development of Age-associated Lung Fibrosis
- 709 CD109 Attenuates Bleomycin-induced Pulmonary Fibrosis by Inhibiting TGF- β Signaling
- 710 Collagen Prolyl-3-hydroxylase 1 Controls Collagen Quality and Extracellular Matrix Deposition
- 711 Inflammatory and Pro-fibrotic Signals Sequentially Drive Pathologic Differentiation of Fibroblasts in Pulmonary Fibrosis
- 712 Contribution of Sex Chromosomes to the Development of Pulmonary Fibrosis
- 713 Cholesterol Accumulation in Alveolar Macrophages Drives Pulmonary Fibrosis
- 714 PLVAP Targeting IPF and Non-IPF-PF Drives Pulmonary Fibrosis
- 715 Aberrant Alveolar Epithelial Cells Alter the Alveolar Mesenchyme to Promote Fibrosis in a Clinical Sftpc Mutation Model of Lung Fibrosis
- 716 Deficiency of DSP, An IPF Susceptibility Gene, Promotes Pulmonary Fibrosis
- 717 Lysosomal Phospholipase A2 Reduces Lipid Accumulation and Modulates Macrophages Profibrotic Phenotype in Lung Fibrosis
- 718 In Vitro Culture of Primary Human Lung Fibroblasts Induces Collagen Expression and Promotes the Expansion of CTHRC1-positive Cells
- 719 The Role of Endothelial Mechanotransduction in Pulmonary Fibrosis
- 720 Matrix Stiffness-derived Mechanosignaling Regulates SPP1 Expression in Macrophages
- 721 Estrogen Receptor Alpha Signaling Potentiates Fibrogenic Responses to Lung Injury
- 722 Alveolar Epithelial Mitochondrial Impairments in Pulmonary Fibrosis: The Role of AMPK Signaling

BASIC • TRANSLATIONAL

POSTER DISCUSSION SESSION

C28 MORE THAN MEET THE EYE: NOVEL INSIGHTS IN IPF PATHOGENESIS

9:15 a.m. - 11:15 a.m. San Diego Convention Center

Room 30C-E (Upper Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

- 701 Profibrotic Role of GPR87 in Pulmonary Fibrosis
- 702 Piezo2 Is an Important Mechano-receptor in Pulmonary Fibrosis
- 703 A Novel Transgenic Mouse Model Allowing for the Inducible Lung-specific Activation of the p38 α Mitogen-activated Protein Kinase

- 723 Decoding Fibroblast Proliferation Dynamics in Murine Models and Precision Cut Human Lung Slices
- 724 Role of Noradrenaline and Macrophage Dynamics in Pulmonary Fibrosis
- 725 Dendritic Cell - Fibroblast Crosstalk Via Toll-like Receptor 9 and Aryl Hyrdocarbon Receptor Signaling Drives Lung Fibrogenesis

CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

C29 ADVANCED LUNG IMAGING; THE PULMONARY PAPARAZZI

9:15 a.m. - 11:15 a.m. San Diego Convention Center

Room 25A-C (Upper Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

- 401 Optimizing Spatiotemporal Resolution in Dynamic Imaging Using Phase Binning-guided K-means Clustering
- 402 Multi-site Xe MRI, Spirometry, and Multiple Breath Washout in Pediatric Patients After Highly-effective CFTR Modulation -The Hypoint Study
- 403 Fetal Imaging of Abnormal Lung Microstructure in Pulmonary Hypoplasia
- 404 Assessment of Obstructive and Restrictive Lung Disease Via MRI in Bronchopulmonary Dysplasia Patients
- 405 Changes in Individual Ventilation Defects in Cystic Fibrosis After Initiation of Modulator Therapy, in the Hypoint Trial
- 406 Concordance of Deep Learning Quantitative Lung CT and Pulmonary Function Testing Post Lung Transplantation
- 407 ¹²⁹Xe MRI and Oscillometry Evidence of Improved Small Airways Dysfunction After 6-weeks ICS/LABA/LAMA Therapy in Moderate Asthma
- 408 Does CT Mucus Burden Differ in Mild-moderate Asthma Compared to Severe Asthma?
- 409 Dual-energy CT-based Assessment of Regional Pulmonary V/Q in a Non-smoking Vs Smoking Populations: Effects of Sildenafil
- 410 Comparison of CT-based Measurements of Ventilation and Perfusion to Ventilation and Gas Exchange Measurements From Hyperpolarized ¹²⁹Xe MRI
- 411 AI Assisted Lung Texture Analysis Association With Lung Rads Score in an Urban Comprehensive Lung Cancer Screening Program for Lung Nodules Coupled With Detection of Comorbid Conditions: Temple Healthy Chest Initiative (THCI)
- 412 Relationship Between AI Assisted Lung Texture Analysis and Pulmonary Function Testing in an Urban Comprehensive Lung Cancer Screening Program for Lung Nodules Coupled With Detection of Comorbid Conditions: Temple Healthy Chest Initiative (THCI)
- 413 CT Mucus Score Predicts Response to 6-weeks ICS/LABA/LAMA in Moderate Asthma
- 414 Sputum Mucus Rheology, Inflammatory Profile, and CT Mucus Scores in Severe Asthma
- 415 Altered Upper Airway Dimensions by Quantitative CT Demonstrates Impact on Regional Lung Structure and Function in Asthma
- 416 Volumetric Assessment of Small Airway Mucus Plugs and Lumen Narrowing in Fatal and Non-Fatal Asthma Using microCT
- 417 Poorly Controlled Eosinophilic Asthma: Relationships of Airwave Oscillometry Resistance With CT Airway Measurements
- 418 ¹²⁹Xe MR Evidence of Abnormal Gas-exchange in Mild-moderate and Severe Asthma
- 419 Quantifying Regional Functional Ventilation in Asthma: A Comparative Analysis Using X-ray Velocimetry
- 420 Ventilation Defect Burden Quantified by Technegas SPECT and ¹²⁹Xe MRI Predicts Lung Cancer Resection Outcomes
- 421 Pulmonary Vessel Volumes on Chest Computed Tomography Are Associated With Interstitial Lung Abnormality Progression

- 422 Characterizing Inhaled Corticosteroid Deposition in Patients With Severe Asthma Based on Eosinophilic Inflammation and Airway Morphology
- 423 Automated Detection of Airway-occluding Mucus Plugs From Non-contrast CT

BASIC • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

C30 APNEA AWAKENING: DECODING INTERMITTENT HYPOXIA

9:15 a.m. - 11:15 a.m. San Diego Convention Center

Room 6E (Upper Level)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

- 1001 Unraveling the Metabolic Pathways Underlying the Circadian Regulation of Blood Pressure in Obstructive Sleep Apnea
- 1002 Time Restricted Eating Improves Intermittent Hypoxia-induced Dysglycemia Through Improved Pancreatic Function
- 1003 Cardiovascular Consequences in Mice Subjected to Long-term Sleep Fragmentation
- 1004 Nocturnal Hypoxemic Burden and Micro- and Macrovascular Disease in Patients With Type 2 Diabetes
- 1005 Sleep Apnea-specific Pulse-rate Response Is Associated With Higher Carotid Intima Media Thickness
- 1006 Longitudinal Effects of Chronic Intermittent Hypoxia (CIH) on Serum Metabolomics and Bronchiolalveolar Lavage (BAL) Cell Energetics
- 1007 Longitudinal Effects of Chronic Intermittent Hypoxia on Lung Function, Surfactant Function, and Bronchiolalveolar Lavage (BAL) Lipidomics
- 1008 Differences in Pulse Rate Response to Apnea and Hypoapnea Events
- 1009 Respiratory-related Leg Movement Index Is an Independent Predictor of All-cause Mortality: The Osteoporotic Fractures in Men (MrOS) Sleep Study

- 1010 Repeat, Longitudinal Sleep Testing in a Diverse Population Demonstrates Large Night-to-night Variability in Sleep Apnea Severity
- 1011 Relationships of Family History of Obstructive Sleep Apnea, Nasal Obstruction, and Fatigue, With Apnea Hypopnea Index, Among Adults Aged 18-40 Years in Sleep Clinics
- 1012 Burden and Impact of Obstructive Sleep Apnea in Patients Hospitalized With Cancer: A Comprehensive Trends Analysis From National Inpatient Sample, 2016-2020
- 1013 Physiological Predictors of Endothelial Function in Patients With Obstructive Sleep Apnea
- 1014 Multicenter Study of Nocturnal Transcutaneous Carbon Dioxide Monitoring in Early-stage Amyotrophic Lateral Sclerosis
- 1015 Clinical Correlates and Cardiovascular Phenotypes of Obstructive Sleep Apnea in Acute Coronary Syndrome
- 1016 Pulsed Transit Time in Predicting the Symptoms and Complications of Patients With Obstructive Sleep Apnea Syndrome
- 1017 Different Duration of Exposure to Intermittent Hypoxia Induces Tissue-specific Variation in Epigenetic Profiles and Epigenetic Age
- 1018 Associations Between Sleep Apnea Endotypes and Comorbid Diseases in a Large Clinical Cohort

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

C31 WHAT'S NEW IN CLINICAL ASTHMA

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P593 Extrafine Formulation Single-inhaler Triple Therapy Improves Lung Function After Six Months of Treatment in Patients With Asthma: Trimaximize Study

- P594** Mortality Among US Adults With Severe Asthma Is Increased With Maintenance Systemic Corticosteroid Treatment: Results From the CHRONICLE Study
- P595** Clinical Responses to Tezepelumab in Patients With Severe, Uncontrolled Asthma, and a History of Nasal Polyps From the NAVIGATOR Study
- P596** Impact of Early Transient Increase in Eosinophil Count on the Long-term Efficacy of Dupilumab in Patients With Moderate-to-Severe Asthma: Liberty Asthma Traverse
- P597** Clinically Relevant Reductions in FeNO Reported After 10-day Treatment With KN-002 in Subjects With Mild Asthma
- P598** Requirement of TRPA1 in Oxidized Phosphatidylcholine Induced Pro-inflammatory Gene Expression by Human Airway Fibroblasts
- P599** Opioid Use Disorder's Influence on Asthma Exacerbation Outcomes: Insights From the National Inpatient Sample
- P600** Predictive Roles of Basal Metabolic Rate and Muscle Mass for Lung Function in Obese Asthma: A Prospective Cohort Study
- P601** Ultra-high-resolution Computed Tomography Assessment of Airway Structure in Bronchial Asthma: Associations With Fractional Exhaled Nitric Oxide
- P602** Characteristics of T2-low and T2-high Asthma in a Population-based Sample Defined by Blood Eosinophils and Fractional Exhaled Nitric Oxide
- P603** Navigating Non-T2 Asthma: Impact of Bacterial Colonization and Inflammatory Subtype on Asthma Exacerbations
- P604** Efficacy of As-needed Albuterol-budesonide by Baseline Blood Eosinophil Count in Patients ≥ 18 years With Moderate-to-Severe Asthma
- P605** Comparison of Exhaled Volatile Organic Compounds Among Severe Asthma Phenotypes in Japan: A J-VOCSA Study
- P606** Construction of an Automated Algorithm for Diagnosis of Adult Asthma Using Machine Learning With Category Boosting (CatBoost)
- P607** Predicting Asthma Exacerbations: A Real World Study Examining the Biologic and Demographic Makeup of Patients With Severe Asthma
- P608** Development of the Pediatric Asthma Impairment and Risk Questionnaire (AIRQ®): A Qualitative Study
- P609** The Differential Effects of Inhaled and Oral Corticosteroids on Type-2 Inflammation in the Blood and Airway Compartments of Eosinophilic Asthmatics
- P610** Asthma Prevalence Differs by Primary Spoken Language Among US Chinese and Latino Adults
- P611** Influence of Different Thresholds for Asthma Control on Clinical Remission Composite Outcome in Patients Uncontrolled on ICS/LABA: A Post-hoc Analysis of Single Inhaler Triple Therapy With FF/UMEC/VI in the CAPTAIN Trial
- P612** Improved Lung Function Is Associated With Better Asthma Control in Adolescents and Adults Aged 12 Years and Older With Moderate-To-Severe Type 2 Asthma: A Post Hoc Analysis of Quest
- P613** Repeated Measurement of Spirometry and Type 2 Biomarkers to Diagnose and Identify Refractory Asthma in a Population of Symptomatic Individuals With Clinically Suspected Asthma
- P614** Biologics for Severe Asthma in Patients With Asthma-Chronic Obstructive Pulmonary Disease Overlap
- P615** Three-year Follow-up in the Selection of Inhalation Therapies for Severe Asthma in Japan
- P616** A Bayesian Dynamic Borrowing Approach to Evaluate the Efficacy of Albuterol-budesonide as Needed in Adolescents With Asthma: Design of the Acadia Study
- P617** Role of Dietary and Serum Selenium Across Asthma Phenotypes
- P618** Predicting Severe Asthma Attacks With Blood Eosinophils and Exhaled Nitric Oxide (FeNO): Initial Data Analysis for the ORACLE Patient-level Meta-analysis
- P619** Phenotyping of Asthma Patients Based on Inflammatory Blood Biomarkers and Characterization of Phenotypes Depending on Asthma Control, Frequency of Exacerbations, and Associated Comorbidities

- P620** Investigating Allergen-induced Acute Lung Inflammation in Asthmatic Individuals Using Breath Biopsies
- P621** Acute Asthma Outcomes Comparison: Low and Medium Dose Inhaled Corticosteroids After Hospitalization
- P622** Association Between Bronchial Asthma and TSLP Gene Polymorphism: A Systematic Review and Meta-analysis
- P623** Rheumatoid Arthritis Associated Asthma Exacerbations: A National Inpatient Sample 2016-2020
- P624** An Observational and Translational Pilot Study Phenotyping the Response to Systemic Corticosteroids in the Management of Asthma Attacks (PRISMA): Interim Results
- P625** Phenotype Characterization and Biomarker Evaluation in Moderate to Severe Type 2-high Asthma
- P626** ALbuterol-budesonide Treatment in Acute Airway Obstruction: Design of the ALTA Study
- P627** Patient Insights on Living With Type 2 Inflammation: A Community Survey
- P628** Gaps in Asthma Severity and Asthma Control Between Clinical Practice and Guideline According to a Real-World Survey in China
- P808** Monoclonal Antibodies for Allergic Bronchopulmonary Aspergillosis: A Case Series
- P809** Use of the Anti-interleukin-5-Receptor Monoclonal Antibody, Benralizumab, for the Treatment of Allergic Bronchopulmonary Aspergillosis
- P810** An Example of Tezepelumab Used to Treat Occupational Asthma
- P811** A Breath of Hope Turns to Heartbreak: Cardiac Arrest From Aerosolized Epinephrine Overuse for Undiagnosed Allergic Bronchopulmonary Aspergillosis
- P812** A Case of Anaphylaxis Associated Thrombocytopenia
- P813** Hyperimmunoglobulin E Syndrome: A Rare Autoimmune Masquerade of Th2 Asthma
- P814** Pneumatocoles and Bronchopleural Fistulas in a Patient With Hyper-IgE Syndrome
- P815** Tick Borne Disease, Ehrlichiosis as Risk Factor for Alpha-gal Syndrome: A Case Report
- P816** Life-threatening Mast Cell Activation and Anaphylaxis in Mast Cell Leukemia and the Role of Omalizumab
- P817** Psoriasiform Dermatitis During Dupilumab Treatment in Asthma and Allergic Bronchopulmonary Aspergillosis (ABPA)
- P818** A Rare Case of Acquired Bradykinin Mediated Angioedema Associated With Chronic Lymphocytic Leukemia
- P819** Bronchoprovocation Test Gone Awry
- P820** Can't Catch a Breath: Acute Eosinophilic Pneumonia in a Pregnant Female
- P821** Persistence of Severe Asthma With a T2 Phenotype Following Stem-Cell Transplant
- P822** Asthma as an Immune-Related Adverse Effect of Pembrolizumab
- P823** Ketamine Chronicles: A Breath of Fresh Air in Status Asthmaticus
- P824** A Combination of Tezepelumab and Omalizumab for Severe Persistent Asthma
- P825** A Case Review of Safety and Efficacy of Benralizumab in Haemodialysis Patients With Severe Eosinophilic Asthma

BASIC • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

C32 ALL THAT WHEEZES (AND THEN SOME): CASE STUDIES

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area H (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

P807 Hidden on Plain Film: Asymptomatic Allergic Bronchopulmonary Aspergillosis With Mucoid Impaction of the Right Mainstem Bronchus

- P826 Persistent Lung Eosinophilia While on Benralizumab
- P827 Acute Eosinophilic Pneumonia Induced by Sublingual Immunotherapy
- P828 Eosinophilic Pneumonia
- P829 A Case of Pulmonary Eosinophilia Refractory to Stem Cell Transplant
- P830 A Rare Case of Hypereosinophilic Obliterating Bronchiolitis
- P831 Pathology in the Pipeline - A Rare Case of Hypersensitivity Pneumonitis in an Otherwise Healthy Plumber
- P832 It Is Pigeon All the Way That Escaped Our Capture Net (Diagnosis)
- P833 Reactive Airway Disease Associated With Necrotic Non-small Cell Lung Cancer
- P834 Respiratory Conundrum: Concurrent Mycobacterium Abscessus and Aspergillus-related Pulmonary Disease in a Patient With Long-term Asthma
- P835 A Case of Idiopathic Pneumonia Syndrome in a Patient With Recent Stem Cell Transplant
- P836 A Case of Autoimmune Pulmonary Alveolar Proteinosis Initially Misdiagnosed as Lipoid Pneumonia
- P837 Birt-Hogg-Dubé Syndrome: Care for the Rare!
- P838 An Ace up the Sleeve: Sarcoidosis in a Patient With Controlled Human Immunodeficiency Virus (HIV) Infection
- P839 Dupilumab-Associated Sarcoidosis: Review of a Case and Consideration of Potential Mechanisms
- P841 Systemic Lupus Erythematosus Presenting as Acute Lupus Pneumonitis
- P842 When Fevers and Hypoxia Collide: A Case of Adult-Onset Still's Disease
- P843 A Case of Weakness and Dyspnea in a 62 Year Old Man With Rheumatoid Arthritis
- P844 Vexas Syndrome Presenting as Recurrent Relapses of Organizing Pneumonia- A Case Series
- P845 An Unusual Presentation of a Moderate Right Pleural Effusion in a Patient With MDA-5 Positive Dermatomyositis
- P846 A Rare Pulmonary Manifestation of Crohn's Disease: Acute Fibrinous and Organizing Pneumonia Presenting as Multifocal Nodules
- P847 Necrobiotic Pulmonary Nodules: An Uncommon Initial Manifestation of Rheumatoid Arthritis
- P848 Musk I Wait in Myasthenia Gravis?
- P849 Refractory Goodpasture's: A Clinical Conundrum
- P850 Spotting the Autoimmune Elephant in one Lung
- P851 Lung Nodule Dilemma: Differentiating Between Connective Tissue Disorder and Lung Malignancy: A Comprehensive Case Report
- P852 A Rare Case of IgA Vasculitis With Pulmonary Involvement Presenting as Diffuse Alveolar Hemorrhage
- P853 When Inspiration Becomes the Issue: A Case of Systemic Lupus Erythematosus Presenting as Diffuse Alveolar Hemorrhage
- P854 Diffuse Alveolar Hemorrhage in Lupus: A Rare Favorable Outcome to Therapeutic Plasma Exchange Plus Rituximab: A Case Series
- P855 Suffocated by Autoimmunity: A Bloodbath
- P856 Challenging Current Guidelines: ANCA-associated Vasculitis Supported by VV ECMO Requiring Plasma Exchange
- P857 A Case of Diffuse Alveolar Hemorrhage Secondary to Granulomatosis With Polyangiitis
- P858 A Case of New Multisystem Granulomatosis With Polyangiitis (GPA) Complicated by Progression to Diffuse Alveolar Hemorrhage (DAH), Acute Pulmonary Embolism, Cavitory Nodules, and Renal Failure Despite Pulse Steroids and Rituximab

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

C33 ATTACK OF THE ANTIBODIES: CASE STUDIES

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area H (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P859 Blood and Crescents With Atypical Anti Neutrophil Cytoplasmic Antibody: An Unusual Presentation of Pulmonary Renal Syndrome
- P860 ANCA Vasculitis Presenting With Diffuse Alveolar Hemorrhage
- P861 Small-vessel Vasculitis Causing Diffuse Alveolar Hemorrhage in a Patient With Polymyalgia Rheumatica: A Case Report
- P862 Anticoagulation Administration in a Case of Diffuse Alveolar Hemorrhage With Concomitant Acute Pulmonary Embolism
- P863 Celiac Disease Beyond the Gut: A Case of Lane-Hamilton Syndrome
- P864 Hypocomplementemic Urticarial Vasculitis: A Rare Cause of Emphysema Requiring Dual-Organ Transplant
- P865 IgA Nephropathy: A Rare Cause of Pulmonary Renal Syndrome
- P866 Therapeutic Uncertainty in a Case of Pulmonary-Renal Syndrome Due to IgA Vasculitis
- P867 Anti-myeloperoxidase (MPO) Antineutrophil Cytoplasmic Antibody (ANCA)-associated Vasculitis With Pulmonary Involvement Induced by Gastroenteritis With Spontaneous Remission
- P868 Microscopic Polyangiitis Presenting as New-onset Rheumatoid Arthritis
- P869 Rare Presentation of EGPA as Small Airways Disease
- P870 An Elderly Non-asthmatic Patient With Eosinophilic Granulomatosis With Polyangiitis
- P871 Unmasking Eosinophilic Granulomatosis With Polyangiitis in Severe Asthma During Exchange of Biologic Therapy
- P872 Tale of a Rogue Immune System: A Case Report of Life-Threatening Eosinophilic Granulomatosis With Polyangiitis
- P873 From Actinomyces to Granulomatosis With Polyangiitis
- P874 Suspect It, Treat It: Life-threatening Thoracic Manifestations in Granulomatosis With Polyangiitis
- P875 Initial Presentation of GPA After COVID-19: A Case Report
- P876 Three P's and a Cavity: Perinuclear Anti-neutrophil Cytoplasmic Antibody (p-ANCA), Proteinase-3 (PR3) and Granulomatosis With Polyangiitis (GPA)
- P877 Embolic Stroke and Interatrial Septal Aneurysm Masking the Diagnosis of Granulomatosis With Polyangiitis
- P878 Granulomatosis With Polyangiitis: A Case of Crooked Nose
- P879 Atypical Presentation of Pulmonary-Renal Syndrome (PRS) Caused by Hydralazine-induced Antineutrophil Cytoplasmic Antibody Vasculitis/Lupus Overlap: A Case Report
- P880 Unraveling the Diagnostic Dilemma of a Pulmonary Nodule: Polyarteritis Nodosa Versus Adenosine Deaminase 2 Deficiency in a Patient With Marfanoid Habitus

BASIC • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

C34 BIOLOGIC THERAPY IN THE FIGHT AGAINST ASTHMA AND ALLERGIC INFLAMMATION

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

San Diego Convention Center

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P630 Safety of Benralizumab in the Treatment of Eosinophilic Granulomatosis With Polyangiitis During the Open-label Extension Period of the Phase 3 MANDARA Study
- P631 Three-year Follow-up of the Selection of Biologics for Severe Asthma in Japan
- P632 Mepolizumab Depleted Blood Eosinophils Display a Reduced Adhesion Phenotype
- P633 Small Airways Disease (SAD) in Severe Asthma as a Novel Endpoint and Distinct Target for Mepolizumab (SASAM Study)
- P634 Response to Initial Biologic Therapy According to 4 Selection Algorithms in Adult Severe Asthma
- P635 Real-world Mepolizumab Use in Eosinophilic Granulomatosis With Polyangiitis (EGPA) Demonstrates Improvement in End-organ

- Manifestations and Long-term Corticosteroid Benefit: An Analysis of Allergy Practices in the United States
- P636 The Effect of Benralizumab Versus Mepolizumab on the Depletion of Eosinophils in the Treatment of Eosinophilic Granulomatosis With Polyangiitis During the Phase 3 MANDARA Study
- P637 Blood Eosinophil Phenotype During Treatment With Mepolizumab in Patients With Severe Eosinophilic Asthma
- P638 Impact of Disease, Use of Biologics and Clinical Remission in Severe Asthma: Insights From a Multicenter Longitudinal Real-life Registry in Brazil
- P639 Dupilumab Reduces Severe Exacerbations and Improves Lung Function in Patients With Type 2 Asthma Irrespective of Asthma Duration
- P640 Dupilumab Add-on to Medium-dose Inhaled Corticosteroid (ICS) Increases Odds of Asthma Control and Reduces FeNO Compared With Placebo Add-on to High-dose ICS
- P641 Liberal Withdrawal From Oral Corticosteroids Maintenance Therapy After Introduction of a Biological Agent Targeting Type 2 Inflammation in Severe Asthma
- P642 Use of Biologics and Asthma Remission in Underrepresented Patient Populations
- P643 Efficacy of Tezepelumab in Black or African American Patients: A Pooled Analysis of The PATHWAY and NAVIGATOR Studies
- P644 Dependence on a Single Blood Eosinophil Count May Lead to Misdiagnosis of Eosinophilic Asthma Phenotype and Misuse of Biologics in an Urban Cohort
- P645 Impact of Adherence to Maintenance Therapy, as Measured Using Digital Inhaler Data, on Asthma Control and Healthcare Resource Utilization Among Patients Using Biologics
- P646 A Phase 4, Single-arm, Open-label Study to Evaluate the Effectiveness and Safety of Tezepelumab in Patients With Severe Asthma, Including Underrepresented Racial and Clinical Groups: Initial Baseline Demographics and Clinical Characteristics From the PASS
- P647 Effect of Tezepelumab on Exercise Tolerance in Patients With Severe, Uncontrolled Asthma From the NAVIGATOR Study
- P648 Impact of Atopic Status, Prior Omalizumab Use and Baseline Blood Eosinophil Count Alone and in Combination With Total Serum IgE on Maintenance OCS Reduction Outcomes in Patients With Severe Asthma Treated With Mepolizumab in the REALITI-A Study
- P649 Safety Profile of Astegolimab, An Anti-ST2 Antibody: A Systematic Review
- P650 Dupilumab Superior to Other Asthma Biologics to Treat Allergic Bronchopulmonary Aspergillosis in a Retrospective Study
- P651 Efficacy of Biologics for Reducing Exacerbations Requiring Hospitalization or an Emergency Department Visit in Patients With Moderate-to-Severe, Uncontrolled Asthma
- P652 Long-term Effects of Biological Agents on Respiratory Function
- P653 Mepolizumab to Benralizumab: A Case Series of a Beneficial Switch in Severe Asthma
- P654 Real-world Experience With Tezepelumab for Severe Asthma in an Academic Medical Center
- P655 Systematic Literature Review of Real-world Outcomes of Benralizumab in Eosinophilic Granulomatosis With Polyangiitis
- P656 SWIFT-1 and SWIFT-2 Study Design: Replicate Phase 3A Randomized, Double-blind, Placebo-controlled, Multicenter Studies of the Efficacy and Safety of Depemokimab in Patients With Asthma With an Eosinophilic Phenotype
- P657 APG808, A Fully Human Monoclonal IgG1 Antibody, Binds to IL-4R α With High Affinity and Blocks IL-13 and IL-4 Mediated Signalling in Multiple In Vitro Assays
- P658 FeNO and Blood Eosinophils as Potential Predictive Biomarkers for Effectiveness of Dupilumab in Real-life Severe Asthma: Japanese Multi-center Prospective Cohort
- P659 Simultaneous Blockade of IL-4 and IL-13 Signaling With Dupilumab Attenuates Type 2 Inflammation and Airway Remodeling in a Mouse Model of Severe Airway Disease

- P660 Effect of Biologics on Biomarkers of Type 2 Inflammation in Asthma: A Review of the Literature
- P661 Real-world Effectiveness of Mepolizumab in the Treatment of Asthma in Japan: A Multicenter Retrospective Observational Study: J-Real-Mepo
- P662 The Difference in the Effectiveness of Anti-IL-5 Antibodies and Anti-IL-5 α Antibodies in Severe Bronchial Asthma
- P663 A Real-world Experience on New Starts Versus Biological Switchers for Tezepelumab in Severe Asthma
- P664 A Real-world Experience With Tezepelumab as the First Biologic Option in Severe Asthma Patients
- P665 Improved Lung Function Is Associated With Better Asthma Control in Children With Moderate-to-Severe Type 2 Asthma: Voyage Study
- P666 Impact of Half-life Extension Via YTE Modification on the Duration of Action, Efficacy, and Safety of Monoclonal Antibodies: A Systematic Literature Review
- P671 Effect of Aderamastat (FP-025), A Selective MMP-12 Inhibitor, on Allergen-induced Airway Responses in Subjects With House-dust Mite Allergic Mild Asthma and Blood Eosinophilia
- P672 Fatty Liver Infiltration Is Associated With Decreased Lung Function in Asthmatics and Correlates With Circulating Levels of IL-6
- P673 Changes in Nasal IL-1 During Acute Asthma Exacerbation in Adolescents
- P674 Inhibition of the Ion Channel TMEM16A With Niclosamide Inhalation Powder Reduces Inflammation, Bronchoconstriction, and Airway Hyperresponsiveness in a Large Animal Model of Asthma
- P675 APG808, A High-Affinity Fully Human IgG1 Monoclonal Antibody Targeting IL-4R α , Demonstrates Prolonged Half-Life in Non-Human Primates
- P676 IRF1 Is a Major Regulatory Transcription Factor for Immune Responses in Eosinophils
- P677 Transcriptomic Characterization of Type 2 Innate Lymphoid Cells From Asthma Patients in Response to Prostaglandin D₂ Metabolites
- P678 The Immune Regulatory Role of Subtype of Dendritic Cells in Patients With Allergic Rhinitis and Chronic Rhinosinusitis
- P679 Omega-3 Fatty Acid Intake Is Associated With Bronchodilator Response in Patients With Obesity and Poorly Controlled Asthma
- P680 Oxidant-induced Alteration of Fibrotic Markers in Airway Fibroblasts Isolated From Patients With Asthma and Obesity
- P681 Human Blood Neutrophils and Eosinophils Display Distinct Proteolytic Signatures
- P682 Decoding the Transcriptional Response to Severe Exacerbations Among African-american Individuals With Asthma
- P683 Patterns of Specific Allergen IgE Positivity in Allergic Bronchopulmonary Aspergillosis
- P684 The Mutual Relationship Between Type-2 Inflammation Signature Biomarkers and Serum Periostin Is Disease-dependent
- P685 Examining the Effect of ILC2s on Airway Smooth Muscle Hypercontractility in Asthma

BASIC • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

C35 INNOVATIVE BIOMARKERS TO IDENTIFY ALLERGIC INFLAMMATION

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P668 GLP-1 Agonists Reduce Functional Endoscopic Sinus Surgery Rates in Chronic Rhinosinusitis Patients With Obesity
- P669 Transient Receptor Potential A1 Channel Contributes to Enhanced Innate Airway Inflammation After Cold-air Exposure
- P670 Serum CC16 in Childhood and Adolescence: Associations With Lung Function Development and Asthma

- P686 Asthma-associated Non-classical Human Leukocyte Antigen Class II Proteins Are Expressed in Human Lung Antigen Presenting Cells
- P687 Innate Immune Biomarkers Associated With Acute Asthma Exacerbations
- P688 Unraveling the Role of the Neutrophil in a Mouse Model of Pollutant-aggravated Allergic Asthma

BEHAVIORAL • CLINICAL

THEMATIC POSTER SESSION

C36 ADVANCES IN COVID-19, LUNG INFECTION, AND TUBERCULOSIS

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area L (Hall H, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1339 Evaluation of the LTBI Care Cascade in an Academic Internal Medicine Practice and Referral TB Center: Sailing Through the Waves of a Pandemic
- P1340 Improving Outpatient Management of COVID-19 Through a Cloud-based Clinical Decision Supporting System
- P1341 Use of Alternative and Complementary Health Therapies One Year After Hospitalization for Severe COVID-19
- P1342 The Impact of the COVID-19 Pandemic on the Research Productivity of K-awardees
- P1343 Evaluating a Canadian Crisis Standards of Care Policy During the COVID-19 Surge in New York City: A Simulated Observational Cohort Study
- P1344 A Quality Improvement Project to Improve Utilization of Sputum Cultures in Hospitalized Patients With Pneumonia
- P1345 The Cost-effectiveness of the Plasma Microbial Cell-free DNA (mcfDNA) Sequencing Karius Test® to Establish an Etiology of Pneumonia Amongst Hospitalized Immunocompromised Adult Patients

With Hematologic Malignancy or Prior Hematopoietic Cell Transplantati

- P1346 Immunization Advice in ATS Clinical Guidance Documents: A Systematic Review
- P1348 Mental Health and Long-COVID In Peru: A Qualitative Exploration

BEHAVIORAL • CLINICAL

THEMATIC POSTER SESSION

C37 HEALTH SERVICES RESEARCH IN PULMONARY HYPERTENSION

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area C (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P197 Practice Patterns for Screening and Treating Interstitial Lung Disease-related Pulmonary Hypertension at Specialty Care Centers in the United States
- P198 Real-World Medication Cost Burden Among Patients Treated for Pulmonary Arterial Hypertension
- P199 Trends in Medicare Spending on Medications for Pulmonary Hypertension, 2012-2021
- P200 Impact of Delaying Access to Sotatercept on Patients Living With Pulmonary Arterial Hypertension
- P201 Expert Consensus on Best Practices for Oral Selexipag Titration and Management of Expected Side Effects in the Treatment of Pulmonary Arterial Hypertension (PAH)
- P202 Engaging With People With Lived Experience of Pulmonary Arterial Hypertension (PAH) Provides Impactful Insights Across the Clinical Development Pathway
- P203 A Cross Functional Collaboration to Achieve One Goal: The Pulmonary Arterial Hypertension (PAH) Experience

P204 Exploring Preferences for Techniques to Improve Resilience Among Patients With Pulmonary Arterial Hypertension: A Qualitative Study

BEHAVIORAL • CLINICAL

THEMATIC POSTER SESSION

C38 ADVANCES IN MEDICAL EDUCATION IN PULMONARY, CRITICAL CARE, AND SLEEP MEDICINE

**9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area C (Hall A-B2, Ground Level)**

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P206 “X-COVER”- A Learning Framework and Curriculum for Medical Students to Recognize and Respond to Emergent Patient Conditions**
- P207 The Resuscitation Curriculum: A Critical Care Educational Program for Residents**
- P208 Using an Empathy Map and Design Thinking to Improve Emotional Debrief After Code Blue for Internal Medicine Residents**
- P209 Ending Resident 24 Hour Shifts in the Medical ICU: A Comparative Analysis of Pre- and Post-Transition Survey Responses**
- P210 Burnout Syndrome Among Internal Medicine Residents During Wards and Medical Intensive Care Unit Rotations**
- P211 Did COVID-19 Impact Residents’ Interest in Pulmonary Disease and Critical Care Medicine?**
- P212 Multimodal Interdisciplinary Mechanical Ventilation Education for Critical Care Trainees: A Pilot Curriculum**
- P213 Anatomy-based Chest CT Interpretation Curriculum for Pulmonary Fellows**
- P214 Development and Evaluation of a Hands-on Intensive Course in Clinical Research for Fellows**
- P215 Pulmonary Hypertension Curriculum for Pulmonary and Critical Care and Cardiology Fellows: A Case Based and Flipped Classroom Model**
- P216 Variation in Pulmonary Hypertension Education Among Fellowship Programs**
- P217 Building a Groundwork for Change: A Sustainable Diversity, Equity, and Inclusion (DEI) Fellowship Curriculum in Pulmonary and Critical Care**
- P218 How Do We “Train the Trainer”? A Qualitative Exploration of Hospitalist Procedural Educators’ Reflections on Procedural Teaching**
- P219 Needs Assessment for a Novel Longitudinal Pleural Procedural Education Curriculum for Internal Medicine Residents**
- P220 Using a Needs Assessment to Develop a Longitudinal Critical Care Ultrasound Curriculum for Internal Medicine Residents**
- P221 The Rapid Outpatient Lung Ultrasound (ROLU) Algorithm**
- P222 Maybe Some More Gel? Getting a Better Image of Ultrasound Training in Medical School**
- P223 A Novel, Technology-Driven Health Professions Education Pathway for Cross-Disciplinary Fellows**
- P224 Impact of a Regional Virtual Critical Care Fellowship Core Curriculum**
- P225 Interstitial Lung Disease Education in Pulmonary Fellowship: Supporting Patients Through Their Illness Journey**
- P226 Resident Experiences With Structured Handoffs in a Community-based Internal Medicine Program in New York**
- P227 Implementing A Structured Pulmonary Consult Curriculum for Internal Medicine Residents**
- P228 Breathe Easy: A Multidisciplinary Approach to Improve Resident Driven Inhaler Education to Asthma and COPD Patients**
- P229 Development of a Gastroesophageal Balloon Tamponade Curriculum: A Model for Other High-acuity, Low-occurrence (HALO) Procedures**
- P230 Resuscitation Leadership Curriculum: Simulation Training for Internal Medicine Resident**
- P231 Multimodal, Iterative Lung Ultrasound Training in Hypoxemic Respiratory Failure in Sub-Saharan Africa**
- P232 Trends in Interventional Pulmonary Training: A National Survey of North America Interventional Pulmonary Fellowship Graduates**

BASIC • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

C39 PNEUMONIA AND SEPSIS: EPIDEMIOLOGY, TREATMENTS, AND OUTCOMES

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area K (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1169 **A Comprehensive Analysis of Clinical Outcomes and Demographic Characteristics of Patients With Pseudomonas Aeruginosa Isolated From Respiratory Specimens**
- P1170 **Feasibility Report of Observational Longitudinal Study at a Long-term Acute Care Hospital on Tracheobronchitis**
- P1171 **Contributing Factors Towards Intensive Care Unit Admission in Patients With Pneumonia and Their Clinical Profile**
- P1172 **An Epidemiological Study on Incidence, Predictors, and Prognosis of Ventilator-associated Pneumonia in Intensive Care Unit: A Prospective Cohort Study in Egypt**
- P1173 **Communication of Microbiology Results at a Referral Hospital in Western Kenya: A Qualitative Study**
- P1174 **The Mouse IL-8 Homologue KC in Plasma Has Predictive Value for the Severity of Bacterial Pneumonia in a Mouse Model of ARDS**
- P1175 **Transcriptomic Differences in Septic Patients With Hematopoietic Stem Cell Transplant and Immunocompetent Septic Controls**
- P1176 **Value of Monocyte Distribution Width in Bacteremia Assessment in Emergency Department Patients**
- P1177 **Procalcitonin as a Diagnostic Biomarker for Early Sepsis in Burn Patients: An Updated Diagnostic Accuracy Meta-analysis**
- P1178 **An Electronic Health Record-based Risk Prediction Model for Methicillin-resistant Staphylococcus Aureus in Adults With Suspected Sepsis**
- P1179 **Characteristics and Health Care Outcomes of Patients Diagnosed With Murine Typhus**
- P1180 **Efficacy of Inhaled Antibiotics to Prevent Ventilator Associated Pneumonia**
- P1181 **The Obesity Paradox in Sepsis: An In-Depth Analysis**
- P1182 **Gender Based Disparities in Outcomes of Septic Shock Related Hospitalizations in Solid Organ Transplant Recipients: A Propensity Matched National Study**
- P1183 **Epidemiology of Beta Blocker Use Among Critically Ill Patients With Sepsis**
- P1184 **Prevalence and Impact of Cannabis Use Disorder on Severe Sepsis and Subsequent Cardiopulmonary Outcomes in Cancer Patients: Insights From National Inpatient Sample, 2016-2020**
- P1185 **Poor Long-term Mortality Following Hospitalization for Sepsis in Cancer Patients**
- P1186 **Pre-existing Diabetes Mellitus Is Associated With Increased Risk of Developing Septic Shock in Patients With Acute Cholangitis**
- P1187 **Unravelling the Fluid Paradox in End Stage Kidney Disease and Sepsis: A Meta-analysis**
- P1188 **Passive Leg Raise Effect on Bioreactance Versus Velocity Time Integral for Fluid Responsiveness in Patients With Moderately Severe ARDS on Mechanical Ventilation in Vasodilatory Shock: A Prospective Observational Validation Study**
- P1189 **Determining an Optimal Initial Fluid Resuscitation Strategy for Patients With Sepsis-associated Hypotension and Shock Using Machine Learning and Real-world Evidence**
- P1190 **Association Between Adjunctive Vasopressors and Short-term Mortality in Adults With Septic Shock: A Systematic Review and Meta-analysis**
- P1191 **Angiotensin 2: Real-world Experience in Cancer Patients With Vasodilatory Shock**
- P1192 **Comparative Efficacy and Safety of Different Corticosteroid Regimens for the Management of Sepsis and Septic Shock: Preliminary Results From a Network Meta-Analysis**

- P1193 Assessing the Efficacy and Safety of Hydrocortisone, Ascorbic Acid, and Thiamine Combination Therapy for the Management of Sepsis and Septic Shock: A Systematic Review and Meta-Analysis of Randomized Controlled Trials
- P1194 Empiric Carbapenem Administration Against ESBL-E in Septic Shock
- P1195 Equity in Sepsis Care: Assessing the Impact of Sepsis Management With Mortality Rates in a Diverse Population, A Three Year Retrospective Data Analysis
- P1196 Improvement in Sepsis Mortality With Consistent Implementation of 3 Hour Sepsis Bundle and Healthcare Professional Education
- P1197 Setting Sepsis as a Priority: A Quality Improvement Project To Optimize Sepsis Care
- P1198 Sepsis Bundle Compliance and Its Effect on Mortality in a Safety Net Hospital Setting
- P1199 Lung Epithelial Injury and Inflammation May Mediate the Relationship Between Age and Mortality in Sepsis
- P1200 Mass Cytometry Reveals Complex Neutrophil Heterogeneity in Patients With Septic Shock
- P1201 Higher Levels of Soluble LOX-1 and Oxidized LDL Are Associated With the Hypoinflammatory LCA Phenotype in Sepsis
- P1204 Serum Biomarkers in Pediatric Acute Respiratory Distress Syndrome: A Prospective, Longitudinal Pilot Study
- P1205 Macrophage Levels in Alveolar Fluid: Signal or Noise?
- P1206 Energy Demand and Cholesterol Catabolism Intensify Prior to the Onset of ARDS in Surgical ICU Patients
- P1207 Trends in ARDS and Association Between ARDS Cause-specific Factors and Mortality: Insights From the National Inpatient Sample Database
- P1208 Long Term Outcomes Associated With Frailty in Hospital Survivors After Requiring Mechanical Ventilation
- P1209 Obesity in Critically Ill Patients Requiring Mechanical Ventilation
- P1210 Weaning Protocol Using Noninvasive Ventilator in Ventilator Dependent Guillain Barre Syndrome Patients
- P1211 Outcomes of High-flow Oxygen Therapy in Adult Medical and Post-surgical Oncology Patients: A Systematic Review and Meta-analysis
- P1212 Epidemiology of Acute Respiratory Failure Among Patients Hospitalized at the Veteran Affairs Health Care System Between 2012-2021
- P1213 Severe Acute Respiratory Distress Syndrome in Australia and New Zealand (SAGE-ANZ): An Observational Study
- P1214 Is There an Inflammatory Component Present in Immersion Pulmonary Edema? Evidence From Increased Fractional Exhaled Nitric Oxide (FeNO)
- P1215 Is an Acute Respiratory Distress (ARDS) Diagnosis Associated With Clinical Outcomes Independent From S:F Ratios?
- P1216 Septic Shock as Predictor for Development of Acute Respiratory Distress Syndrome in Pulmonary Source Sepsis Patients
- P1217 Mechanical Ventilation and Hospital Mortality in Gram-positive Sepsis
- P1218 Interstitial Lung Abnormalities as a Prognostic Factor of Acute Respiratory Distress Syndrome in Sepsis

sCLINICAL

THEMATIC POSTER SESSION

C40 ARDS AND ACUTE RESPIRATORY FAILURE: MECHANISM, RISK, AND OUTCOMES

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area K (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1203 Feasibility of a Multicenter Randomized Controlled Trial of Therapeutic Hypothermia in the Treatment of Moderate to Severe ARDS: The Cooling to Help Injured Lungs (CHILL) Trial

- P1219 **A Randomized, Double-Blind, Placebo-Controlled Phase1 Single and Multiple-Dose Pharmacokinetic First-In-Human Study of AV-001 in Healthy Subjects for the Treatment of Acute Respiratory Distress Syndrome**
- P1220 **Vilobelimab in Combination With Tocilizumab or Baricitinib Dramatically Improves Mortality in Critically Ill COVID-19 Patients: A Subgroup Analysis**
- P1221 **Real-time Prospective Classification of Biologic Sub-phenotypes in Severe Acute Respiratory Failure: An Interim Report on the SPARC Study**
- P1222 **The Association of Circulating Renin Angiotensin System Components With Clinical Outcomes and Treatment Responses in COVID-19: A Mechanistic Substudy of the ACTIV-4 Host Tissue Trials**
- P1223 **Translating Cis-regulatory Elements Activity With Traditional Transcriptomic Using Machine Learning - Implication on Profiling Transcription Factor Activity for ARDS Endotyping**
- P1228 **Impact of Obesity on Extracorporeal Membrane Oxygenation in ARDS**
- P1229 **Clinical Outcomes in Octogenarians, Nonagenarians, and Centenarians Who Underwent Veno-arterial Extracorporeal Membrane Oxygenation: A Retrospective Cohort Study**
- P1230 **Outcomes of Extracorporeal Membrane Oxygen (ECMO) Therapy and Acute Respiratory Distress Syndrome (ARDS) Severity at Time of Cannulation in Those With and Without COVID-19 Infection - A Single Center Retrospective Study**
- P1231 **Trends and Outcomes of ECMO Support Before and After the COVID-19 Outbreak: A Nationwide Study**
- P1232 **Cost Comparison of Veno-venous (VV) Extracorporeal Membrane Oxygenation (ECMO) Between Patients With COVID-19 and Non-pandemic Patients: A Binational Prospective Observational Clinical Registry Analysis**
- P1233 **Extracorporeal Membrane Oxygenation (ECMO) and Continuous Renal Replacement Therapy (CRRT): A Descriptive Review of Observations**
- P1234 **Frequency of Oxygenator Change in Extracorporeal Membrane Oxygenation (ECMO) - An Institutional Review of VV and VA ECMO Case Cohort**
- P1235 **Clinical Outcomes for Patients With Left Bundle Branch Block (LBBB) Who Underwent Venoarterial Extracorporeal Membrane Oxygenation (VA-ECMO): An Analysis of the National Inpatient Sample**
- P1236 **Sex Differences in Outcomes Among Patients Undergoing IABP Procedure: A Retrospective Cohort Study**
- P1237 **Clinical Outcomes for Intra-aortic Balloon Pump in Octogenarians, Nonagenarians, and Centenarians: A Retrospective Cohort Study**
- P1238 **Clinical Outcomes for Patients With Ventricular Tachycardia Who Underwent Intra-Aortic Balloon Pump: An Analysis of the National Inpatient Sample**
- P1239 **Adverse Events Related to Impella CP and Impella 5.5 from the Manufacturer and User Facility Device Experience Database**
- P1240 **Influence of Gender in LVAD-Associated Complications: 30- and 60-day Readmission and Discharge to Hospice**

BEHAVIORAL • CLINICAL**THEMATIC POSTER SESSION****C41 PUMP YOU UP - ECMO AND CARDIAC DEVICE OPTIMIZATION****9:15 a.m. - 4:15 p.m. San Diego Convention Center****Area K (Hall H, Ground Level)****Viewing:** Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1225 **Comparison of Anticoagulation Goals in Patients With COVID-19 ARDS Supported With VV-ECMO**
- P1226 **Ventilator and Pulmonary Physiology Parameters Prior to Extracorporeal Membrane Oxygenation (ECMO) Cannulation Do Not Predict Pulmonary Functional Recovery in Survivors of Severe Acute Respiratory Distress Syndrome (ARDS)**
- P1227 **Online Patient Information on Extracorporeal Membrane Oxygenation: An Assessment of Readability**

- P1241 Sedative Pharmacodynamics in Patients Supported With Extracorporeal Membrane Oxygenation
- P1242 “Awake” Cannulation for Venovenous Extracorporeal Membrane Oxygenation Support: An Analysis of the ELSO Registry
- P1243 Predictors of Terminal Withdrawal of VA-ECMO Compared to Death After Liberation Among Decedents Supported by VA-ECMO
- P1244 Assessing Volume Status and Responsiveness Using Carotid Artery Ultrasound: An Updated Systematic Review
- P418 Acute Respiratory Distress Syndrome Secondary to Blastomycosis Dermatitis Infection: Successful Recover After Adjunctive Systemic Steroids
- P419 Multiple Episodes of Acute Respiratory Distress Syndrome in a Patient With Recurrent Diabetic Ketoacidosis From Non-adherence
- P420 The Hidden Pathogen: A Case of Persistent ARDS
- P421 Catching Flights and Malaria
- P422 Mycoplasma Pneumonia Induced Acute Respiratory Distress Syndrome in Pregnancy
- P423 An Uncommon Presentation of a Common Bug: Legionella Pneumophila Pneumonia Progressing to Acute Respiratory Distress Syndrome
- P424 Acute Leukemia Presenting as Acute Respiratory Distress Syndrome Secondary to Legionella Pneumonia Requiring Extracorporeal Membrane Oxygenation
- P425 Acute Hypoxic and Hypercapnic Respiratory Failure Due to Pulmonary Leukostasis in Chronic Lymphocytic Leukemia
- P426 Acute Interstitial Pneumonia Secondary to Primary Sjogren’s Syndrome
- P427 A Rare, Rapidly Progressive, Acute Presentation of Sarcoidosis With ARDS
- P428 An Enigmatic Clinical Journey: Rhabdomyolysis Induced Acute Respiratory Distress Syndrome in an Elderly Patient
- P429 ARDS Following Steroid Refractory ICI-Pneumonitis: A Case Report
- P430 Terlipressin-Induced Acute Respiratory Distress Syndrome (ARDS)
- P431 Systemic Organ Failure With Acute Respiratory Distress Syndrome Due to Gluteal Silicone Injections Burst, A Case Report
- P432 Is Therapeutic Plasma Exchange an Underused Treatment for Anti-melanoma Differentiation-Associated Gene 5 (MDA 5) Amyopathic Dermatomyositis
- P433 APRV Using TCAV Method for COVID-ARDS in Obese Patients: A Case Series
- P434 Denied Extracorporeal Membrane Oxygenation Due to Morbid Obesity: A Case Report

CLINICAL

THEMATIC POSTER SESSION

C42 ALL ABOUT THE AIRWAYS AND ALVEOLI: RESPIRATORY FAILURE CASE REPORTS

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P411 Pneumocystis Jirovecii Pneumonia in the Setting of E-cigarettes, Vaping, Associated Lung Injury (EVALI): A Silent Pandemic
- P412 Vaping Associated Severe ARDS - When THC and Vitamin E Acetate Are Not the Culprits
- P413 “I Can’t Breathe” A Case of Severe EVALI
- P414 Vaping and Its Venom: Acute Eosinophilic Pneumonia’s Evolving Clinical Landscape
- P415 Acute Respiratory Compromise in the Context of COVID-19 and Gemcitabine
- P416 Vaccination to Ventilation: Unmasking Guillain-Barré Syndrome in a Case of Severe Respiratory Failure
- P417 Acute Monocytic Leukemia Presenting With Acute Respiratory Distress Syndrome (ARDS) and Multisystem Organ Failure

- P435** One Mode Does Not Fit All: Treating Acute Lung Injury With Time
- P436** Permissive Hypercapnia: Protecting the Lung With Permission
- P437** Severe COVID-19 ARDS With Prone Positioning and Lung Protective Ventilation, While Awake and Receiving Early Rehabilitation
- P438** Rescue Awake Venovenous Extracorporeal Membrane Oxygenation With Right Ventricular Support in Secondary to COVID-19, A Case Series
- P439** Persistent SARS-CoV-2 Viremia, COVID-19 Associated Acute Respiratory Distress Syndrome, Severe Coagulopathy and Massive Hemoptysis in a Renal Transplant Patient on Venovenous Extracorporeal Membrane Oxygenation
- P440** VV-ECMO as a Bridge to Recovery in ARDS Secondary to Adult-Onset Still's Disease
- P441** Extracorporeal Membrane Oxygenation in a Patient With Human Immunodeficiency Virus and Pneumocystis Jirovecii Pneumonia
- P442** Overcoming Drowning, Cardiopulmonary Arrest and Severe ARDS With ECMO for a Positive Neurological Outcome
- P443** The Role of ECMO in Managing Traumatic Lung Injury
- P444** Utilization of VA-ECMO in Non-pulmonary Hypoxemia During Pregnancy: A Case of Pheochromocytoma- Induced Cardiomyopathy
- P445** Acute Respiratory Distress Syndrome Secondary to Covert Squamous Cell Carcinoma of the Lung: A Case Report
- P446** Awake Venovenous Extracorporeal Membrane Oxygenation (V-V ECMO) Cannulation as a Bridge to Intubation
- P447** The Prognostication of Enteral Intake for a Patient With Acute Inhalation Injury; Calculations Versus Metabolic Cart Monitoring
- P448** Meth, PCP or Both? A Case of Diffuse Alveolar Hemorrhage in the Setting of Combined Amphetamine and Phencyclidine Use
- P449** Breathing Against the Odds: A Case of Prolonged Mechanical Ventilation in a Cervical Spinal Cord Injury
- P450** Timing of Noninvasive Ventilation Initiation in Pneumothorax Management
- P451** To Suction or to Not Suction; A Case of Persistent Air Leak Complicated by Respiratory Alkalosis
- P452** A Fatal Case of Diffuse Alveolar Hemorrhage in a Patient on Apixaban for Occlusive Extensive Internal Jugular Thrombus
- P453** Diagnosis and Endoscopic Management of Subglottic Stenosis
- P454** Recurrent Hypoxia With Feeding: Uncovering the Hidden Fistula
- P455** Near Complete Disruption of the Right Mainstem Bronchus After Blunt Thoracic Trauma
- P456** Airway Complications After Lung Transplant Needing Multiple Interventions: Mitomycin-C to the Rescue
- P457** A Case of High Flow Pulmonary Edema on V-PA ECMO
- P458** Fighting the Recovering Heart While Drowning in Volume: Role of VA-V ECMO Configuration in Migrating Mixing Cloud Effect
- P459** Acquired Hemophilia a Presenting as Airway Emergency Resulting in Airway Compromise Requiring Urgent Tracheostomy
- P460** Excessive Dynamic Airway Collapse: An Underrecognized Culprit Behind Respiratory Failure
- P461** Simultaneous Subcutaneous Emphysema, Pneumothorax and Pneumomediastinum - A Rare Complication of Asthma
- P462** A Case of Fatal Asthma Exacerbation Leading to Cardiac Arrest
- P463** Bilateral Zephyr Valve Procedures in Severe Emphysema
- P464** Breathing Battles: The Ongoing Struggle of Recurrent Covid-19-related Respiratory Failure in a Patient With Hashimoto's Encephalopathy Under Intermittent Immunosuppression
- P465** A Diagnostically Challenging Case of Malignant Obesity Hypoventilation Syndrome
- P466** Pericardial Decompression Syndrome in a Patient With Severe Valvular Disease Resulting in Refractory and Fatal Pulmonary Edema
- P467** A Breathless Puzzle: Refractory Hypoxia

CLINICAL

THEMATIC POSTER SESSION

C43 BRAIN-STORMS: NEUROLOGIC CRITICAL CARE CASES

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P469** A Case of a Young Patient With Wernicke Encephalopathy Secondary to Achalasia
- P470** A Case of Wernicke Encephalopathy After Sleeve Gastrectomy Operation
- P471** Bypassing into Trouble: Underrecognized Hyperammonemia Risk in Patients Following Roux-en-Y Surgery
- P472** A Rare Case of Hyperammonemic Encephalopathy Arising Without Cirrhosis in an ICU Twenty-Three Years Post Roux-en-y Gastric Bypass
- P473** A Case of Catatonia in the ICU
- P474** A Broken Brain
- P475** Brain Over Heart: Case Series and Literature Review of Anti-NMDA Encephalitis
- P476** Eyes on Uremic Optic Neuropathy: A Call for Early Intervention in Kidney Disease
- P477** An Embolic Shower: A Case of Thrombotic Stroke in a Patient With Nephrotic Syndrome on Anticoagulation
- P478** What a Headache! Managing Refractory Vasospasm Following Acute Subarachnoid Hemorrhage
- P479** Unusual Presentation of Ascending and Descending Aortic Plaques Presenting as MCA Infarction, Treated With Surgical Intervention
- P480** Non-compaction Cardiomyopathy: A Rare Cause of Embolic Stroke in a Middle-aged Woman
- P481** Bilateral Vertebral Artery (VA) Dissection Causing Acute Ischemic Stroke Following High Velocity Cervical Manipulation
- P482** Artery of Percheron Occlusion: A Rare Cause of Stroke
- P483** Oscillating Eyes: A Clue to an Uncommon Stroke Presentation
- P484** Blind Belief: A Case of Anton Syndrome
- P485** A Rare Case of Idiopathic Intracranial Hypertension in a 21-year-old Male Patient Presenting With Seizures
- P486** CHANTER Syndrome: A Rare Neurological Toxidrome
- P487** Spontaneous Intracranial Hemorrhage in a Patient With Thrombocytopenia Secondary to Cirrhosis
- P488** Double Jeopardy: When an Intraparenchymal Hemorrhage is Complicated by Renal Artery Dissection
- P489** Amidst Mimickers: Primary Central Nervous System Vasculitis
- P490** New Onset Refractory Status Epilepticus in Prion Disease
- P491** Seizure Disorder With Sickle Cell Trait: A Rare Case of Multicompartment Syndrome
- P492** Changing Landscape of Haemophilus Influenzae Meningitis and Implications for Public Health
- P493** Two Times Too Many: Recurrent H. Influenzae Meningitis in an Immunocompetent Adult
- P494** Acute Inflammatory Demyelinating Polyneuropathy Leading to Quadriplegia Mediated by H. Influenzae
- P495** Meningoencephalitis With Transverse Myelitis in a Patient With West Nile Virus - Clinical Insights and Awareness
- P496** Post-Covid-19 Guillain-Barre Syndrome Masked as Acute Congestive Heart Failure Exacerbation
- P497** Amyotrophic Lateral Sclerosis Is Not as Uncommon as You Think
- P498** From Bulbar Weakness to PEA Arrest: A Unique Case of Lambert-Eaton Myasthenic Syndrome
- P499** De Novo Metastatic Melanoma Presenting Like Guillain-Barré Syndrome
- P500** Different Faces of GBS
- P501** Carbon Monoxide Poisoning Leading to Cervical Spine Myelitis and Encephalomyelitis

- P502 Breathing for Two: A Myasthenic Twist in COVID-19 Pregnancy
- P503 Guillain-Barre Syndrome as the First Presentation of Systemic Lupus Erythematosus
- P504 Take It Out Early - A Case of Myasthenia Gravis in a Young Patient With Invasive Malignant Thymoma
- P505 A Mystifying Case of Upper Motor Neuron Syndrome in Atypical West Nile Virus Encephalitis Requiring Mechanical Ventilation
- P506 An Exceptional Instance: Severe Malaria With Cerebral Complications in Western New York
- P507 An Unusual Presentation of Neuroinvasive West Nile Virus Masked as Diabetic Ketoacidosis
- P508 Don't Forget the Bug Spray: A Case of West Nile Virus Meningoencephalitis in a Kidney Transplant Patient
- P509 HIV Associated HHV6 Encephalitis
- P510 Ticking Time Bomb: Meningoencephalitis by Multiple Tick-borne Vectors
- P511 Intraventricular Amphotericin B in the Management of Disseminated Blastomycosis With CNS Involvement: A Complex Case Study
- P512 Mucor or More? Invasive Sinusitis Masquerading as Mucormycosis Complicated by Brain Abscess and Middle Cerebral Artery Infarct
- P513 A Case of Rhino-Orbital-Cerebral Mucormycosis Leading to Multifocal Embolic Stroke, Mycotic Aneurysm, Interventricular, and Subarachnoid Hemorrhage
- P514 A Fatal Case of Cerebral Herniation Due to Elevated ICP in a Relapsed Case of Cryptococcal Meningitis
- P515 A Case of Lemierre's Syndrome Presenting as Cranial Nerve 6 Palsy Due to Septic Cavernous Thrombophlebitis
- P516 Cortical Blindness as the Initial Presentation of Fulminant Clostridium Difficile Infection
- P517 Cerebrospinal Fluid Leak From COVID-19 Nasopharyngeal Swabs
- P518 Brivaracetam-Related Neurological Decline in a Patient With Complex Medical History
- P519 A Rare Case of Neurosyphilis With Atypical Presentation
- P520 A Rapidly Progressive Case of Leptomeningeal Carcinomatosis
- P521 A Cloaked Culprit: Unraveling Cystic Glioblastoma's Deception
- P522 Diagnosis of Interventricular Glioblastoma and Cannabis Withdrawal: Dual Challenges in the Neurological Intensive Care Unit
- P523 Is It All in My Head? A Case of Posterior Reversible Encephalopathy Syndrome (PRES)
- P524 A Case of PRES in the Context of HIT: A Diagnostic Dilemma
- P525 Cervical Myelopathy/Radiculopathy and Median Nerve Entrapment Mimic Acute Ischemic Stroke

CLINICAL

THEMATIC POSTER SESSION

C44 TOXIDROMES AND ADVERSE MEDICATION REACTIONS IN THE ICU

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

San Diego Convention Center

Area K (Hall H, Ground Level)

Viewing: Posters will be on display for entire session**Discussion:** 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1246 Hyperammonemia as a Result of Amyloidosis in an Intravenous Drug User Without Known Liver Pathology
- P1247 A Case of Critical Bupropion, Olanzapine, and Oxcarbazepine Overdose
- P1248 Salicylate Induced Heart Block: A Silent Alarm
- P1249 The Highest Form of Flattery: Bupropion Overdose Mimicking Brain Death
- P1250 Hemorrhagic Pericardial Effusion Associated With Ibrutinib: A Case Report
- P1251 Another Case of the Blues, Methylene Blue as Adjunctive Therapy in Calcium-channel Blocker Induced Vasoplegia
- P1252 Recognizing Venous-occlusive Disease After Inotuzumab Treatment: An Urgent Call to Physicians in Non-Transplant Centers

- P1253 **A Curious Case of Cocaine Induced Quincke's Disease**
- P1254 **The Clash of Two Treatments: Antidote Hydroxocobalamin Hinders Hemodialysis**
- P1255 **From Tongue Swelling to Skin Sloughing: Azithromycin-induced SJS/TEN**
- P1256 **An Unintentional Second Chance: Co-poisoning With Insulin Glargine and Carvidolol**
- P1257 **Beyond the High- A Ketamine Induced Hematologic Crisis**
- P1258 **Unforeseen Complications Arising From Diphenhydramine**
- P1259 **Toxic Megacolon: A Rare Adverse Effect of Etoposide Chemotherapy**
- P1260 **A Case of Trazadone and Omeprazole Associated Wenckebach Phenomenon Disguised as Second-degree Mobitz Type 2 AV Block**
- P1261 **Infliximab-Induced Hemorrhagic Pericardial Effusion: A Rare Phenomenon**
- P1262 **Hemodialysis Reversed Bradyarrhythmia and Sinus Nodal Dysfunction From Acute Lithium Toxicity**
- P1263 **Beating to Its Own Drum; Flecainide Toxicity and Cardiogenic Shock in a Patient With Dual-Chamber Pacemaker**
- P1264 **Unmasking the Peril of Minoxidil: A Case of Pericardial Effusion Leading to Tamponade in Resistant Hypertension**
- P1265 **Triple Whammy of Amlodipine, Carvedilol and Diphenhydramine Overdose**
- P1266 **Pembrolizumab-Related Secondary Adrenal Insufficiency Precipitating Electrolyte Derangements in a Patient With Malignant Melanoma**
- P1267 **An Unsettling Twist: Unveiling Acute Hyponatremia Induced by Linezolid: A Case Report**
- P1268 **Early Extra Corporeal Membrane Oxygenation (ECMO) and Esophagogastroduodenoscopy (EGD) Implementation: A Timely Intervention in a Patient With Extended-Release Bupropion Overdose**
- P1269 **Assay Interference Causing Persistently Elevated Vancomycin Levels Ultimately Leading to Treatment Failure and Fatal Outcome**
- P1270 **Fentanyl-Induced Wooden Chest Syndrome**
- P1271 **A Tale of Immunosuppression: Pneumocystis Jiroveci Pneumonia (PJP) in a Patient on Ruxolitinib for a Hematologic Disorder**
- P1272 **Prolonged COVID-19 Pneumonia in a Patient on Obinutuzumab for Treatment of Follicular Lymphoma**
- P1273 **Rituximab Rendezvous: When COVID-19 Lingers and Lungs Throw Curveballs**
- P1274 **A Case of Drug-Induced Stevens-Johnson Syndrome With Primarily Visceral Involvement**
- P1275 **It's Not Always the Liver: Rifampin-induced Lupus Pericarditis With Tamponade**
- P1276 **Aripiprazole-Induced Diabetic Ketoacidosis and Hypertriglyceridemia Triggering Concurrent Pancreatitis: A Case Report**
- P1277 **A Case of Refractory, Self-potentiating Bradycardia: BRASH Syndrome**
- P1278 **From Rashes to Ruin: The Methotrexate Misadventure**
- P1279 **A Last Resort: Lipid Emulsion Therapy in Lidocaine Anesthetic Systemic Toxicity (LAST)**
- P1280 **Methamphetamine-Induced DIC Leading to Multi-Organ Failure in a 40-year-old Male**
- P1281 **Critical Crossroads: Navigating Multi-organ Failure Due to Immune Checkpoint Inhibitors Toxicity**
- P1282 **Rapidly Progressive Hepatic Veno-Occlusive Disease/Sinusoidal Obstruction With Multi-Organ Dysfunction as a Complication of Non-transplant Associated Chemotherapy**
- P1283 **A Case of Multiorgan Failure Following Glucagon-Like Peptide 1 Agonist Use for Weight Loss - Is It Worth the Risk?**
- P1284 **Beefing Up! Fulminant Liver Failure Secondary to Anabolic Steroid Use**
- P1285 **From Immune Checkpoint Inhibition to Intubation**
- P1286 **Black Esophagus: A Case of Sevelamer Induced Esophagitis Presenting as a Gastrointestinal Bleed**
- P1287 **Semaglutide Associated Acute Necrotizing Pancreatitis: A Case Report**
- P1288 **Too Much of a Good Thing: A Case of Beta Blocker and Warfarin Toxicity**
- P1289 **The Downside of Your Uppers: Venlafaxine-induced Hypertriglyceridemia Causing Acute Pancreatitis**

- P1290 Statin and Fenofibrate-Induced Rhabdomyolysis in Liver Transplant; A Case of Multiple Organ Dysfunction
- P1291 Covid Confusion: A Case of Paxlovid Induced Carbamazepine Toxicity
- P1292 Case Report: Nelarabine Neurotoxicity Induced Respiratory Failure
- P1293 Immune Checkpoint Inhibitors in Lung Transplant World
- P1294 Immunotherapy Induced Encephalitis
- P1295 Beta-Blocked: A Severe Propranolol Overdose Case Report
- P1296 Vancomycin Induced Anaphylaxis Presenting With Cardiac Arrest: Judicious Use of Antibiotic in Low Risk Procedures
- P1297 Mirtazapine-Induced Ventricular Arrhythmia
- P1298 Profound Lactic Acidosis and Shock in a Patient Taking Metformin
- P1299 Breaking the Spell: A Rare Case of Prolonged Benzodiazepine Elimination
- P1300 Levetiracetam-associated Rhabdomyolysis
- P1301 That Really 'Blows': Cocaine-Associated Ascending Aortic Thrombus
- P1305 Temperature Trajectories Following In-Hospital Cardiac Arrest: Insights for Targeted Temperature Management
- P1306 Duration of Code and Survival Following Cardiac Arrest: A Single Center Retrospective Cohort Study
- P1307 A Quality Initiative: Finding Room for Improvement During in Hospital Cardiac Resuscitation Measures
- P1308 Prevalence and Risk Factors Associated With Peri-intubation Cardiac Arrest: A Systematic Review and Meta-analysis
- P1309 Comparison of Venous Thromboembolism Risk in Endovascular Cooling Catheters to Central Venous Catheters in Patients Treated After Cardiac Arrest
- P1310 Does Gender or Ethnicity Play a Role in Achieving Rosc (Return of Spontaneous Circulation) in a Cardiac Arrest?
- P1311 The Impact of Day of Admission on Mortality and Other Outcomes in Patients With Cardiac Arrest: A Two-year Nationwide Analysis
- P1312 Health Care Disparities and Cardiac Critical Care Illnesses Related Mortality in the United States
- P1313 Correlation of Venous Excess Ultrasound Score With Right Atrial Pressure in Patients With Tricuspid Regurgitation - A Subgroup Analysis
- P1314 Reliability and Reproducibility of the Venous Excess Ultrasound (VExUS) Score
- P1315 Using the Double Product and Pulse Pressure Heart Rate Product to Predict Low Cardiac Output States in a Cardiothoracic Surgery ICU
- P1316 Determination of Systolic Blood Pressure With Color Power Doppler
- P1317 Impact of Hypokalemia on Arrhythmias and Patient Outcomes: A Data Analysis Study From National Inpatient Sample
- P1318 Intracranial Hemorrhage and ECG Changes
- P1319 Preoperative and Intraoperative Predictors of Mechanical Ventilation Duration Following Aortic Surgery
- P1320 Pre- and Intra-operative Correlates of Pulmonary Complications Following Lung Resection Surgery
- P1321 Perioperative Gabapentinoid Use Increases the Risk of Respiratory Complications After Uncomplicated Coronary Artery Bypass Graft

BASIC • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

C45 CARDIAC CRITICAL CARE: AT THE HEART OF THE MATTER

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area K (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1303 The Impact of Mechanical Device Compressions Compared to Manual Compressions on In-hospital Cardiac Arrest Outcomes
- P1304 Extracorporeal-CPR Versus Conventional-CPR for Adult Patients in Out of Hospital Cardiac Arrest-Systematic Review and Meta-analysis

- P1322** PCO₂ Gap as a Predictor of Trend in Cardiac Index in Immediate Post CABG Patients Who Are on Inotrope Infusion- A Prospective Cohort Observational Study
- P1323** Differences in Blood Methemoglobin Formation With Different Methods of Nitric Oxide Delivery
- P1324** Nitric Oxide Administration in Cardiac Surgical Patients With Endothelial Dysfunction to Prevent Acute Kidney Injury
- P1325** Comparison of Early Versus Delayed Transition From Intravenous to Subcutaneous Insulin in Postoperative Coronary Artery Bypass Graft Surgery Patients: Outcomes and Glycemic Control
- P1326** Lactate Levels Predict Post-operative Extubation Time in Cardiothoracic Surgery Patients: A Reality or a Myth?
- P1327** Patient Care Pathways in Patients Admitted in the Emergency Department With Acute Heart Failure: Impact on Short-term Mortality
- P1328** Cardiac Magnetic Resonance Imaging and Deep Learning Models for Hypertrophic Cardiomyopathy Diagnosis and Prognosis: A Systematic Review and Meta-analysis
- P1329** Efficacy and Safety of Combinations of Azilsartan-Medoximil/Chlorthalidone Versus Olmesartan-medoximil/Hydrochlorothiazide Among Hypertensive Patients: A Meta- Analysis
- P945** Associations of Pre-pandemic Spirometry With COVID-19 Hospitalization or Death: The Collaborative Cohort of Cohorts for COVID-19 Research (C4R) Study
- P946** Comparison of Percent-predicted and Z-score Thresholds for Severity of Airflow Obstruction Using Race-specific Versus Race-neutral Reference Equations
- P947** The Characteristics and Risk Factors of Underdiagnosed Obstructive Lung Disease Patients: Findings From the National COPD Screening Programme in China
- P948** Gradient Boosting Decision Tree-based Method Accurately Detects True Ventilatory Restriction
- P949** Reduced Risk of Incident Chronic Obstructive Pulmonary Disease Following EGFR-targeted Therapies in Patients With Lung Cancer
- P950** Prevalence of Spirometric Obstruction and Undiagnosed COPD in Lung Cancer Screening Cohorts: A Systematic Review and Meta-analysis
- P951** A Polygenic Risk Score and Case Finding for Chronic Obstructive Pulmonary Disease
- P952** The Effect of Utilizing Caucasian Reference Values on the Interpretation of Pulmonary Function Testing in African American Patients
- P953** Patient-reported Worsenings of Their Asthma and/or COPD (NOVELTY)
- P954** Pulmonary Findings on Autopsy in Veterans
- P955** Normalized Airflow Obstruction and Its Clinical Significance in Comparison to Normal and Chronic Obstructive Pulmonary Disease (COPD) Patients in a Korean Loco-regional Population-based Cohort
- P956** Clinical Significance of Acute Respiratory Events in Participants With Preserved Spirometry: A Prospective Cohort Study in China
- P957** Overdiagnosis and Overtreatment of “Chronic Obstructive Pulmonary Disease” in the United States
- P958** Application of the Lancet Commission COPD Classification to COPD Cohort Population
- P959** Assessing the Health Status Using Chronic Obstructive Assessment Test and Clinical COPD Questionnaire Among Stable COPD Patients Residing in High Altitude of Nepal

CLINICAL • TRANSLATIONAL
THEMATIC POSTER SESSION
C46 CLINICAL AND PHYSIOLOGIC METRICS OF RESPIRATORY DISEASE AND COPD: FROM DIAGNOSIS TO PROGNOSIS

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area I (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

P960 Performance of New Field Tests for the Evaluation of Exercise Capacity in Patients With COPD

P961 Longitudinal Changes in Quality of Life Among Korean COPD Patients: A Prospective Observational Study

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

C47 COMPLICATIONS, CONSTRICTIONS, BLOOD AND FOREIGN BODIES: AIRWAY CASE REPORTS IN INTERVENTIONAL PULMONARY

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

P713 External Dynamic Airway Collapse: Unfamiliar Suspect in a Cardiac Arrest

P714 Severe Airway Stenosis From Tracheobronchial Amyloidosis

P715 Tracheal Stenosis Mimicking Severe Asthma Exacerbation in a Patient With Post-COVID-19 Asthma

P716 Mycobacterium Avium Immune Reconstitution Syndrome Presenting as Obstructing Endobronchial Lesions

P717 Management of Tracheal Stenosis With Rigid Bronchoscopy With Initial Support by Venovenous Extracorporeal Membrane Oxygenation

P718 Pledget Erosion into the Airway

P719 A Case of Bronchial Artery Aneurysm Exhibiting an Esophageal Submucosal Mass

P720 Off the Beaten Path: Intubation Over a Y-stent

P721 A Rare Case of Endobronchial Lipoma Presenting as Incidental Pleural Effusion

P722 A Rare Case of Endobronchial Hamartoma as a Cause of Unresolving Pneumonia

P723 Primary Tracheal Schwannoma Masquerading as Pneumonia

P724 Caught in the Web: A Case of Acquired Bronchial Web Obstruction Masquerading as Chronic Bronchitis

P725 The Use of Macgyvering to Treat a Gunshot Induced Tracheal Tear

P726 Unveiling the Enigma: An Intriguing Case of Endobronchial Polyp in a Post-lung Transplant Recipient Stemming From Aspiration

P727 Idiopathic Hoffman's "Plastic" Bronchitis in an Adult Female

P728 An Infrequent Cause of Wheezing and Cough

P729 A Rare Cause of Massive Hemoptysis

P730 Spontaneous Pulmonary Hematoma on Heparin Infusion With Rapid Progression

P731 Bronchoscopic Use of Thrombin Slurry to Control Airway Bleeding

P732 Lightning Sometimes Strikes Twice: A Case of Hemoptysis Revealing Two Rare Diseases

P733 Recurrent Pulmonary Glomus Tumor Presenting With Hemoptysis: A Case Report

P734 A Tough Pill to Swallow: A Unique Case of Foreign Body Aspiration

P735 A Tough Nut to Crack - Case Report of Foreign Body Aspiration Causing Recurrent Pneumonias

P736 A Bone to Pick: Chronic Foreign Body Obstruction Mimicking an Endobronchial Neoplasm

P737 Traumatic Aspiration of Foreign-body Obscured by Pulmonary Contusion and Contrast on Imaging

P738 Successful Retrieval of a Dislodged Tracheoesophageal Voice Prosthesis in a Laryngectomized Patient

P739 Successful Foreign Body Extraction of a Garlic Clove Using Bronchoscopy-cryotherapy in an Adult Male

P740 The Writing Is on the (Tracheal) Wall; A Case of a Unique Aspirated Foreign Body

P741 Chronic Cough Conundrum

CLINICAL

THEMATIC POSTER SESSION

C48 CASE REPORTS IN VASCULITIS LUNG DISEASE

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P743 Diffuse Alveolar Hemorrhage in Choriocarcinoma Syndrome: The Potential Impact of Corticosteroids
- P744 An Interesting Case of Drug-Induced Anti-neutrophil Cytoplasmic Antibody-Associated Vasculitis With Pulmonary and Renal Involvement
- P745 Recurrent Unilateral Pneumothorax in a Patient With ANCA Positive Vasculitis
- P746 Avacopan for Treatment of MPO-ANCA Associated Vasculitis Presenting as Diffuse Alveolar Hemorrhage and Glomerulonephritis
- P747 Managing Interstitial Lung Disease With ANCA-associated Vasculitis: A Complex Case
- P748 Rituximab or Plasma Exchange? A Case of Microscopic Polyangiitis Complicated by Streptococcus Viridans Bacteremia
- P749 An Atypical Presentation of Granulomatosis With Polyangiitis Tracheal Stenosis in a 23-year-old Male
- P750 Navigating the Grey: Extracorporeal Membrane Oxygenation and Plasmapheresis in Severe Diffuse Alveolar Hemorrhage Due to Microscopic Polyangiitis
- P751 Successful Use of VV ECMO for Cavitory Pneumonia in the Setting of Eosinophilic Granulomatosis With Polyangiitis
- P752 Eosinophilic Granulomatosis With Polyangiitis in a Non-asthmatic, C-ANCA Positive Patient
- P753 Granulomatosis With Polyangiitis Without Pulmonary Parenchymal Involvement: A Diagnostic Challenge

P754 Unilateral Diffuse Alveolar Hemorrhage Due to Microscopic Polyangiitis and Review of Therapy Options

P755 Diffuse Alveolar Hemorrhage as an Uncommon Presentation of Granulomatosis With Polyangiitis: A Case Report

P756 Early Recognition of Anti-Glomerular Basement Membrane Disease Can Be Lifesaving!

CLINICAL

THEMATIC POSTER SESSION

C49 PROCEDURAL COMPLICATIONS AND COMPLEX CLINICAL MANAGEMENT IN INTERVENTIONAL PULMONARY AND PLEURAL DISEASE

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area I (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P963 Drainage of Multi-Loculated Empyema Using Small Bore Pleural Pigtales With Intra-Pleural Lytic Enzyme Therapy May Mitigate Open Thoracotomy in Patients Deemed High Risk for Surgical Intervention
- P964 Fungal Empyema Thoracis With Elevated Pleural Fluid Adenosine Deaminase in a Patient With Mesothelioma
- P965 Combination of Surgical Decortication and Post-operative Intrapleural Fibrinolysis Approach in Management of a Challenging Empyema Case
- P966 Entrapped Between an Effusion and a Hard Place: Entrapped Lung Secondary to Biliary Pleural Effusion
- P967 Chronic Empyema Presenting With Subtle Symptoms and Progressive Pulmonary Compromise: A Case Report
- P968 An Unusual Presentation of Lemierre Syndrome in a 21 Year-Old-Male

- P969 A Rare Case of Recurrent Exudative Pleural Effusion Secondary to Vertebral Osteomyelitis
- P970 Pulmonary Pseudotumor: Air-fluid Level Does Not Always Mean Abscess
- P971 Serial Pleural Studies to Determine Removal of Tube Thoracostomy in a Patient With Infected Hepatic Hydrothorax: A Case Report
- P972 Lost in Thought, Found in the Chest: A Rare Case of Isolated Mediastinal Amyloidosis
- P973 Management of a Patient With Boerhaave's Syndrome
- P974 'PE'ek-a-Clot: Incidental Pulmonary Embolism Finding on EBUS
- P975 Serotonin- Like- Syndrome Resulting From Tranexamic Acid Applied to Airways During Flexible Bronchoscopy
- P976 Sternoclavicular Joint Septic Arthritis Following EBUS-Guided Transbronchial Needle Aspiration: A Rare Complication
- P977 Mediastinitis Following Endobronchial Ultrasound-guided Transbronchial Needle Aspiration of Necrotic Lymph Nodes
- P978 Beyond the Lung: A Rare Complication of a Common Procedure
- P979 A Case of Capnothorax Following Robotic Assisted Laparoscopic Nissen Fundoplication
- P980 Ultrasound Guided Chest Tube Lodged in the Right Main Stem Bronchus
Ultrasound Guided Chest Tube Lodged in the Right Main Stem Bronchus
- P981 Rare Complication of Mediastinal Hematoma After Hiatal Hernia Fundoplication
- P982 An Exudative Enigma: Recurrent Pleural Effusions Following Drug-Eluting Bead Transarterial Chemoembolization With Percutaneous Ethanol Injection for Palliative Treatment of Hepatocellular Carcinoma
- P983 Recurrent and Rapidly Progressing Unilateral Pleural Effusion: A Diagnostic Dilemma

CLINICAL

THEMATIC POSTER SESSION

C50 CASE REPORTS IN COPD AND ALPHA-1-ANTITRYPSIN DEFICIENCY

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

San Diego Convention Center

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees**12:30-1:15** Authors will be by their posters for individual discussion with attendees

- P758 Null Gives a Lot: A Rare Heterozygotic Alpha-1 Antitrypsin Deficiency Mutation In Ireland, Z Null Porto; A Case Report
- P759 Alpha-1 Antitrypsin Deficiency in a Young Never Smoker With Novel Null Homozygous Mutation: A Case Report
- P760 A Noteworthy Case of Pi*MF Variant of Alpha-1 Antitrypsin With Early Onset Severe Emphysema
- P761 Alpha-1-Antitrypsin Deficiency Discovered Following Nephrectomy
- P762 Severe COPD Case With Eosinophilia That Had Significant Improvement With Benralizumab
- P763 More Than COPD Exacerbation - A Case of Asthma-COPD Overlap With Concomitant Allergic Bronchopulmonary Aspergillosis Successfully Treated With Dupilumab
- P764 Lung Hernia: An Uncommon Presentation After Chronic Obstructive Pulmonary Disease (COPD) Exacerbation
- P765 Diagnostic and Therapeutic Challenges in Superinfected Giant Bulla: A Case Report
- P766 A Case of Spontaneous Pneumothorax in Neurofibromatosis-1
- P767 Autobullectomy Following Bulla Infection in a Patient With Severe COPD
- P768 Endobronchial Abnormality: An Unlikely Cause of Frequent COPD Exacerbation
- P769 Bronchoscopic Lung Volume Reduction Complicated by Ipsilateral Pleural Effusion

P770 Strategic Intervention for Severe Emphysema and Hyperinflation: Harnessing the Potential of Endobronchial Lung Volume Reduction in High Target Lobes

P771 Severe Bullous Emphysema Induced by Crack Cocaine Use

CLINICAL

THEMATIC POSTER SESSION

C51 CASE REPORTS IN COUGH, CYSTIC FIBROSIS, AND BRONCHIECTASIS

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area G (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

P773 Non-Cystic Fibrosis Bronchiectasis in Peters Plus-like Syndrome

P774 He's Full of Cysts! A Case of Cystic Bronchiectasis

P776 A Case of Allergic Bronchopulmonary Aspergillosis in Non-Asthmatic Patient

P777 Navigating a Complex Case of Hypoplastic Right Lung With Bronchiectasis in an Elderly: A Ten-Year Journey

P778 A Case of Severe Spontaneous Pneumomediastinum and Subcutaneous Emphysema After Airway Clearance Therapies - Too Much of a Good Thing?

P779 Switched at Birth: A Curious Case of Situs Inversus Totalis

P780 Massive Hemoptysis Preceded by Dabigatran in a Patient With Bronchiectasis

P781 Kartagener's Syndrome With Situs Inversus Totalis: Breaking the Vicious Cycle

P782 Adult-Onset Williams-Campbell Syndrome: Clinical Presentations, Diagnostic Challenges, and Treatment Approaches

P783 Dip into a New Diagnosis: DIPNECH as an Uncommon Cause of Cough and Dyspnea

P784 Chyloptysis-induced Plastic Bronchitis: A Complex Case Resolved Through Retrograde Cannulation and Embolization

P785 Never Ignore Chronic Cough: Diagnosis of Mucoepidermoid Carcinoma

P786 Nebulized Tranexaminic Acid as an Adjuvant Therapy for Mild to Moderate Hemoptysis: Case Series

P787 A Life Saving Chronic Cough

P788 Recurrent Haemoptysis and Lung Ground Glass Opacity in a 36 Year Old Female

P789 Coughing Up Worms: A Case of Plastic Bronchitis

P790 Cough Syncope: A Uncommon Complication of SVC Syndrome

P791 Refractory Cough - Is Bronchoscopy Always Futile?

P792 Radical Therapy: Resolution of Refractory Cough After Nephrectomy for Renal Epithelioid Angiomyolipoma

P793 Spontaneous Intrathoracic Lung Herniation Treated Conservatively

P794 Respiratory Failure? What to Do in Duchenne's Muscular Dystrophy Patients

P795 Prolonged Dyspnea Secondary to Recurrent Pneumonia in an Adult CF Patient Lost to Follow Up

P796 At Least Is Not Cancer: Persistent Cough as a Symptom of Pulmonary Hamartoma

P797 Suspected Drug-induced Liver Injury From CFTR Modulatory Therapy

P798 Constrictive Pericarditis in an Adult With Cystic Fibrosis: A Case Report and the Literature Review

P799 Burkholderia Cepacia Mediastinitis in a Patient With Cystic Fibrosis

P800 Curing the Carrier: A Case Report of CF Specific Treatment for Bronchiectasis in a CF Carrier

P801 Cystic Fibrosis: Unveiling Late-onset Diagnoses in Adults

P802 Sensory-Mechanical Responses to Direct and Indirect Inhalation Challenges in Individuals With Cough Variant Asthma and Chronic Cough

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

C52 CASE REPORTS IN RARE LUNG DISEASE

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P329 Granulomatous Lymphocyte Interstitial Lung Disease (GLILD): A Rare Complication of Common Variable Immunodeficiency (CVID)**
- P330 A Study of 10 Cases of Autoimmune Pulmonary Alveolar Proteinosis: Role of Complication With Interstitial Pneumonia**
- P331 Unmasking the Hidden Culprit: GLILD Then CVID Unveiled in a Pneumonia Patient**
- P332 61 Year Old Male With a Rare Diagnosis**
- P333 Lungs Veiled in Mystery: Hermansky-Pudlak Syndrome's Pulmonary Enigma**
- P334 Pulmonary Langerhans' Cell Histiocytosis Masquerading as Metastatic Breast Cancer**
- P335 Hermansky-pudlak Syndrome With Pulmonary Embolism**
- P336 Exacerbation of Lymphangiomyomatosis in a Tuberous Sclerosis Complex Patient: Management, Complications, and Socioeconomic Challenges**
- P337 Autoimmune Pulmonary Alveolar Proteinosis: Two Cases**
- P338 A Rare Case of Hereditary Transthyretin Amyloidosis Presenting With Diffuse Alveolar Hemorrhage**
- P339 Recognizing the Rare Erdheim-Chester Disease: Finding Patterns in Pulmonary CT Findings and Other Organ Systems**
- P340 Secondary (Acquired) Pulmonary Alveolar Proteinosis Due to Sandpaper Manufacturing Exposure Treated With Total Lung Lavage**
- P341 A Masquerading Mystery: Malignancy or Diffuse Granuloma Formation**
- P342 A Rare Case of Lipoid Pneumonia With Underlying Lung Disease**
- P343 A Case of Lipoid Pneumonia Mimicking Lung Malignancy**
- P344 Successful Diagnosis of Erdheim-Chester Disease by Transbronchial Lung Biopsy**
- P345 Copa Syndrome - A Rare Inherent Immune Dysregulatory Disease Leading to Pulmonary Hemorrhage and Interstitial Lung Disease**
- P346 When Two Deadly Zebras Collide**
- P347 A Novel Case of Acute Eosinophilic Pneumonia Associated With an Essential Oil Inhalable Device**
- P348 Clinically Significant Mega Hepatic Hemangioma in an 80-year-old Woman With Chronic Eosinophilic Pneumonia, Severe Persistent Asthma, Severe Osteoporosis, and Urticaria**
- P349 Usefulness and Safety of Long-Term GM-CSF Inhalation Therapy for Autoimmune Pulmonary Alveolar Proteinosis**
- P350 Pulmonary Chronic GVHD Manifesting as Photograph Negative Pulmonary Edema**
- P351 Isolated Pulmonary Amyloidosis With Delayed Diagnosis**
- P352 Lung Amyloidosis in a Previously Healthy 85 Year Old**
- P353 Diffuse Alveolar Hemorrhage (DAH) Secondary to Alport Syndrome (AS) in a Patient With a Pulmonary-Renal Syndrome**
- P354 Lungs in Disguise: Waldenström Macroglobulinemia's Unusual Path to Pulmonary Amyloidosis**
- P355 Misdiagnosis of Chronic Eosinophilic Pneumonia: A Case Report**
- P356 Recurrent Effusions in a Patient With Generalized Lymphatic Anomaly (GLA) Treated Successfully With Sirolimus**
- P357 Severe Pre-capillary Pulmonary Arterial Hypertension in a Patient With Common Variable Immunodeficiency With Granulomatous Lymphocytic Interstitial Lung Disease**

- P358 A Complex Case of Pulmonary Alveolar Proteinosis With Worsening Chronic Hypoxemic Respiratory Failure After Whole Lung Lavage
- P359 An Atypical Presentation of Auto Immune Pulmonary Alveolar Proteinosis
- P360 Parenchymal Lung Involvement in Elderly Onset Still's Disease
- P361 Primary or Secondary Pneumothorax? A Confounding Question
- P362 A Diagnostic Conundrum of Pulmonary Alveolar Proteinosis
- P363 Breath of Fresh Air: Unraveling the Mysteries of Pulmonary Alveolar Proteinosis on Chromosome 8
- P364 The Recurrence of Granulomatous-Lymphocytic Interstitial Lung Disease (GL-ILD) in a Lung Transplant Patient - An Already Rare Complication of Common Variable Immunodeficiency
- P365 Lipoid Pneumonia Due to Black Seed Oil
- P366 A Promising and Novel Therapy for HHT
- P367 Chronic Eosinophilic Pneumonia: Shedding Light on an Under-recognized Syndrome Through a Comprehensive Case Report
- P368 Idiopathic Hypereosinophilic Syndrome in a Rare Case of Quadricuspid Aortic Valve
- P369 Treatment of Acute Respiratory Failure Secondary to Chronic Graft-Versus-Host Disease With Fluticasone, Azithromycin, Montelukast, and High-Dose Glucocorticoids
- P372 When Stable Sarcoid Hides Something Sinister
- P373 A Challenging Diagnostic Dilemma - Progressive Lymphadenopathy in a Sarcoidosis Patient
- P374 Genetic Biomarkers in Hepatic Sarcoidosis: Is There an Association With ABCG8 and TNFRSF13B Genes?
- P375 Metastatic Cancer? Think Again. An Unusual Presentation of Granulomatous Lung Disease in an HIV Patient Deplete of T Cells
- P376 Multisystemic Sarcoidosis Culminating in Asymptomatic Complete Heart Block
- P377 Multisystem Sarcoidosis Presenting as Young Stroke
- P378 Pulmonary Interstitial Emphysema as a Manifestation of Sarcoidosis
- P379 Case Report: Subtle Perilymphatic Sarcoidosis Mimicking Miliary Tuberculosis
- P380 Chylothorax: A Rare Manifestation of Pulmonary Sarcoidosis
- P381 Sarcoidosis in a Patient With Immune Reconstitution Inflammatory Syndrome
- P382 Post Surgical Bleeding? Maybes Not! Early Sarcoidosis Presenting as Hemoptysis
- P383 A Case of Amyloidosis Masquerading as Sarcoidosis
- P384 Silicone Heart: Unraveling Cardiac Sarcoidosis in a 42-Year-Old Female
- P385 Cutibacterium Acnes and Sarcoidosis: A Triggering Relationship
- P386 Cavity and Conundrums: Unraveling a Rare Case of Cavitory Pulmonary Sarcoidosis
- P387 A One-Sided Story: A Case of Unilateral Pulmonary Sarcoidosis
- P388 Sequestered Sarcoid: A Rare Cause of Recurrent Pneumonia
- P389 Necrotizing Sarcoid Granulomatosis Masquerading as Primary Lung Neoplasm on FDG-PET Scan
- P390 A Tale of Two Chest Tubes, Marijuana Versus Sarcoid
- P391 An Ode to a Node: Lymphoma Masquerading as Sarcoidosis
- P392 Miliary Sarcoidosis: The Great Imitator

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

C53 CASE REPORTS IN SARCOIDOSIS

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area D (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

P371 Pan-positive PET-CT - Metastasis or Multisystem Sarcoidosis?

- P393 A Pulmonary Sarcoidosis Case: A Mimicker of Metastatic Disease
- P394 Sarcoidosis and Idiopathic Pulmonary Fibrosis Overlap, A Rare Coincidence
- P395 A Diagnostic Odyssey: Unmasking Neurosarcoidosis With Leptomeningeal Involvement
- P396 Role of Imaging Modalities in Cardiac Sarcoidosis: A Case Report
- P397 ⁶⁸Ga-FAPi (Fibroblast-Activation-Protein Inhibitors) Pet/CT Scan Detection of Fibroblast Activity in a Case of Active Multisystem Sarcoidosis
- P398 Upper Lobe Predominant Pulmonary Fibrosis: Presumption of End-Stage Sarcoidosis
- P399 Heart in the Shadows: The Intricacies in Navigating the Diagnosis of Cardiac Sarcoidosis
- P400 Sarcoid-Like Reaction Induced by PD-1 Check Point Inhibitor Treatment for Hepatocellular Carcinoma
- P401 Lofgren Syndrome, Not Always a Straight Clinical Diagnosis
- P402 The Enigma of Bullous Sarcoidosis: Unraveling a Case Presentation With Pneumothorax
- P403 Drug-Induced Systemic Lupus Erythematosus in Patients With Sarcoidosis Treated With Infliximab: A Case Series of 3 Patients
- P404 Titin Gene and Its “Likely Pathogenicity” in Sarcoidosis: Coincidence or Linked?
- P405 Sarcoidosis Presenting With Aphasia
- P527 Lung Transplant for Acute Exacerbation in Interstitial Pneumonia With Autoimmune Features (IPAF)
- P528 Long-Term Nintedanib Treatment for Interstitial Pneumonia Associated With Hermansky-Pudlak Syndrome Followed by Lung Transplantation
- P529 First Case Report of Vancomycin-resistant Enterococci Infective Endocarditis in a Post Cardiac Transplant Patient
- P530 Sirolimus-Induced Thrombotic Microangiopathy in a Lung Transplant Recipient
- P531 Atypical Presentation of Central Serous Chorioretinopathy (CSCR) After Lung Transplantation
- P532 Acute Cholecystitis Due to MRSA Infection in a Patient With Recent Lung Transplantation
- P533 Medication-Induced Significant Bradycardia in a Fresh Lung Transplant Recipient: To Use or Not to Use?
- P534 Persistent Leukocytosis During Lung Transplant Evaluation: Unmasking Myelodysplastic Syndrome!
- P535 Post-transplant Lymphoproliferative Disorder: A Nodular Area That Kept Growing!
- P536 The Unforeseen: Incidental Explant Cancer in a Lung Transplant Patient With Rapidly Progressing Pulmonary Fibrosis Confounded by Exposure to Bleomycin Many Years Ago
- P537 A Case of Parvovirus B19 in an Adult Lung-Liver Transplant Recipient
- P538 Multi-Organ Complexities in Telomere Biology Disorders: Liver Cirrhosis, Pulmonary Fibrosis, and Transplantation Challenges
- P539 Incidentally Detected De Novo Thyroid Cancer in a Lung Transplant Recipient
- P540 Metastatic Large Cell Neuroendocrine Carcinoma of Unknown Primary in a Lung Transplant Recipient
- P541 Deep Learning Quantification of Unilateral Air Trapping and Bronchiolitis Obliterans Syndrome Post Lung Transplantation
- P542 Classic Foot Drop in Focus: A Puzzling Neurological Case After Lung Transplantation

CLINICAL

THEMATIC POSTER SESSION

C54 CASE REPORTS IN LUNG TRANSPLANT

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

C55 COMORBIDITIES OF COPD: EPIDEMIOLOGY AND TREATMENT IMPLICATIONS

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area I (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P985** The Prognostic Impact of Comorbidity in Chronic Obstructive Pulmonary Disease Outpatients
- P986** The Association Between Spirometry, Chest CT Parameters, and Prevalent and Incident Atrial Fibrillation in a Tobacco-exposed Cohort
- P987** Characteristics of Ever-smokers With and Without Chronic Obstructive Pulmonary Disease Who Demonstrate Coronary Artery Calcium Progression
- P988** The Burden of Radiological Coronary Artery Disease in Chronic Obstructive Pulmonary Disease and Its Relationship to Shared Risk Factors
- P989** New 2022 ESC/ERS Severe Pulmonary Hypertension Definition Better Predicts Mortality in Patients With COPD
- P990** Association of Sodium-glucose Cotransporter 2 (SGLT-2) Inhibitor Use and Chronic Obstructive Pulmonary Disease (COPD) Outcomes Amongst Patients With Type 2 Diabetes Mellitus
- P991** Implications of Sodium-glucose Cotransporter 2 (SGLT-2) Inhibitor Use in the Incidence of Asthma and Chronic Obstructive Pulmonary Disease (COPD) Amongst Patients With Type 2 Diabetes Mellitus
- P992** Evaluating the Pulmonary Impact of Semaglutide in Patients With Diabetes: A Meta-analysis of Randomized Clinical Trials
- P993** The Relationship Between Diabetes and Preserved Ratio Impaired Spirometry (PRISM): Findings From Nhanes 2007-2012
- P994** Increased Risk of Mortality in Patients With Acute Stroke and a Diagnosis of COPD Who Underwent

Thrombolysis. Analysis of a National Inpatient Sample

- P995** Use of the Wnt/ β -catenin Activator Lithium Is Associated With Less Emphysema
- P996** Association Between the Cross-sectional Area of Erector Spinae Muscles and Mortality in Patients With Combined Pulmonary Fibrosis and Emphysema
- P997** Epidemiology of Osteoporosis in Patients With Chronic Obstructive Pulmonary Disease in Taiwan
- P998** Impact of Chronic Obstructive Pulmonary Disease on the Prognosis of Patients With Lung Cancer
- P999** COPD Exacerbations in Patients With Inflammatory Bowel Disease, Is There a Difference in Outcomes?
- P1000** Does Persistent Hypercapnia Have Worse Outcomes With Coronary Artery Disease?
- P1001** Risk Factors for Severe Exacerbation Occurrence Among Patients With COPD-OSA Overlap Syndrome Using Bilevel Positive Airway Pressure Therapy
- P1002** An Epidemiological Survey of Ugandans With COPD and Sleep Apnea
- P1003** Development of a Clinical Prediction Model for Fall Risk in COPD
- P1004** Pulmonary Comorbidities, Respiratory Symptoms, and Spirometry in a Real-world, Urban Lung Cancer Screening Program
- P1005** Healthcare Utilization Burden, Treatment Patterns, and Cardiopulmonary Outcomes in Patients Following Hospital Discharge for a COPD Exacerbation in a United States Administrative Database

BEHAVIORAL • CLINICAL

THEMATIC POSTER SESSION

C56 NAVIGATING OCCUPATIONAL HAZARDS: CASE REPORTS IN WORK-RELATED LUNG DISEASE

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P544 Bronchial Thermoplasty in a Veteran With Inhalational Exposure to Combusted Jp-5 Jet Fuel
- P545 The Inflammatory Phenotype of SIPE
- P546 Dendriiform Pulmonary Ossification In Combat Veterans: An Emerging Link?
- P547 Detection of Polycyclic Aromatic Hydrocarbons (PAH) Originating From Jet Fuel (Jet A/A1) in Lung Cancer Tissue From a Patient Exposed to the World Trade Center on 9/11
- P548 Pulmonary Talc Granulomatosis: An Unexpected Cause of Pneumoconiosis
- P549 A Case of a Welder With Secondary Hemochromatosis, Which Rarely Accompanies Pneumoconiosis
- P550 An Unusual Case of Metal Fume Fever Presenting After Four Decades of Occupational Exposure
- P551 Metal Fume Fever in a Bearded Worker: A Hairy Dilemma
- P552 When Cement Meets Asbestos: A Multifaceted Approach to Dyspnea and Chest Pain in an 81-year-old
- P553 A Case of Interstitial Lung Disease Secondary to Silicone Embolism
- P554 A Case of Caplan Syndrome in a Patient With Silicosis
- P555 An Unusual Case of Silicosis Evolving into Progressive Massive Fibrosis
- P556 Dust to Dawn: A Case of Complicated Silicosis With Progressive Massive Pulmonary Fibrosis
- P557 Silicosis: A Rare Cause of Endobronchial Lesions
- P558 Rapidly Progressive Interstitial Lung Disease Due to Silicosis in an Otherwise Healthy Jeweler
- P559 Three Cases of Silicosis in Countertop Workers at a County Hospital
- P560 Diagnosing Methemoglobinemia at the Bedside: The Filter Paper Test
- P561 Severe Progressive Silicosis, Autoimmune Vasculitis and Glomerulonephritis in a Young Engineered Stone Fabricator
- P562 Asbestosis Requiring Lung Transplantation in a Retired Hairdresser: An Unrecognized Occupational Exposure
- P563 The Baker's Bane: Hypersensitivity Pneumonitis
- P564 Case of Lung Adenocarcinoma in a Radiation Oncologist. Does the Career You Choose Put You at Risk?
- P565 Is the Work of Your Hands Making You Sick: Rhodium Salts Causing Asthma?
- P566 Diagnostic Dilemma: Sarcoidosis Versus Chronic Beryllium Disease, Can They Coexist?
- P567 Cleaning Cycles of Hospital Room Curtains in Rural Japan
- P568 Mortality From Infectious Pneumonia Associated With the Severity of Airflow Limitation, Cohort of Pneumoconiosis

BASIC • BEHAVIORAL • CLINICAL

THEMATIC POSTER SESSION

**C57 MEDICAL MYSTERIES UNVEILED:
CASE REPORTS HIGHLIGHTING RARE
RESPIRATORY CONDITIONS**

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

San Diego Convention Center

Area E (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P570 Psyllium Husk (Metamucil) Induced Non-atopic Perennial Asthma: A Case Report
- P571 Status Asthmaticus: Impact of Abrupt Cessation of Mepolizumab in Eosinophilic Granulomatosis With Polyangiitis Management
- P572 New Onset Severe Asthma in a College Student?
- P573 A Painful Case of Asthma
- P574 A Cautionary Tale: A Case of Acute Inhalation Pneumonitis Due to Household Cleaning Supplies
- P575 A Rare Case of Anabolic Testosterone Induced Acute Lung Injury With Pulmonary Eosinophilia
- P576 Jet Tub Lung: A Rare Cause of Cladosporium Herbarum Related Hypersensitivity Pneumonitis
- P577 Swimming Induced Pulmonary Edema: A Case Report and Review of the Literature

- P578 Case Report Emphasizing Importance of Lung Cancer Screening in Patients With Family History
- P579 Welcoming Motherhood With Malignancy: A Case of Invasive Mucinous Adenocarcinoma in the Postpartum Period
- P580 Challenges in Diagnosing and Managing Concurrent Silicosis and Coccidioidomycosis With Hypersensitivity Symptoms: A Case Report
- P581 From the Pipes to the Pleural Space: A Rare Case of a Cryptococcal Effusion
- P582 Chronic Pulmonary Melioidosis: An Elusive Case Series From Eastern India
- P583 First Case of Elizabethkingia Lung Infection Strikes Central Valley California
- P584 Multi-organ Manifestations of Atypical Fascioliasis; Why History Matters
- P585 A Rare Cause of Rhabdomyolysis and Acute Renal Failure: Legionnaires Disease
- P586 When Lung Cavities Meet Brain Lesions: Infection or Malignancy, or Both
- P587 What in the Cavity Is Going On? A Rare Case of Concomitant Infection With Aspergillosis and Penicillosis
- P588 Caplan Syndrome Masquerading as Pulmonary Histoplasmosis
- P589 Hanging and Hypoxia: An Unexpected Diagnostic Surprise of Methemoglobinemia
- P590 A Case of High Altitude Pulmonary Edema
- P234 Different Treatments in Chronic Thromboembolic Pulmonary Hypertension: Comparison of Strategies in the Italian Centre Real-world Experience
- P235 Subgroup Analysis of Patients Undergoing Balloon Pulmonary Angioplasty With Risk of Distal Chronic Thromboembolic Pulmonary Disease
- P236 Determination of the Prevalence and Risk Factors That Lead to the Development of Chronic Thromboembolic Pulmonary Hypertension (CTEPH) in Veterans With Acute Pulmonary Embolism
- P237 The Etiology for Splenectomy Does Not Affect the Level of Operable Disease in CTEPH or Influence the Risk for Residual Pulmonary Hypertension
- P238 Improvement in Cardiac Effort, 6-minute Walk Distance, and Metabolic Parameters After Acute Pulmonary Embolism but Not Activity Time
- P239 Single-Center Retrospective Study on Pulmonary Hypertension in Setting of Low-Risk Pulmonary Emboli
- P240 Correcting Trainee Experience in Pulmonary Hypertension (CTEPH)

CLINICAL • TRANSLATIONAL
THEMATIC POSTER SESSION
C59 PICKING UP THE KIDS AT BALBOA PARK: INSIGHTS IN PEDIATRIC PULMONARY HYPERTENSION
9:15 a.m. - 4:15 p.m.
San Diego Convention Center
Area C (Hall A-B2, Ground Level)
Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P242 Phase-Resolved Functional Lung 0.55T MRI Analysis Demonstrates Ventilation-perfusion Defects Driven by Abnormal Perfusion in Patients With Fontan Circulation
- P243 Efficacy of Pulmonary Arterial Hypertension Specific Therapy in Pediatric Population
- P244 Evaluation of Blood Volume Changes in the Lung Using EIT Pre and Post Catheterization in Pediatric Patients With Pulmonary Vein Stenosis

CLINICAL • TRANSLATIONAL
THEMATIC POSTER SESSION
C58 BACK TO WHERE IT ALL BEGAN: EMERGING CLINICAL INSIGHTS INTO CTEPH
9:15 a.m. - 4:15 p.m.
San Diego Convention Center
Area C (Hall A-B2, Ground Level)
Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

P245 Determinants and Prognostic Value of Albuminuria in Adult Patients With Congenital Heart Disease: A Meta-Analysis

BASIC

THEMATIC POSTER SESSION

C60 BEACHCOMBING FOR GOLD: -OMICS, INFLAMMATION, AND THE RV IN PH

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area C (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

P247 Heartbreaking Ends: Unraveling the Significance of Alternative Polyadenylation in Right Ventricular Failure

P248 Proteomic Analysis of Right Ventricular Hypertrophy in Experimental Pulmonary Arterial Hypertension and the Impact of Therapeutic Intervention

P249 Genomic Editing-mediated Disruption of Epas1 in Endothelial Cells Inhibit Experimental PAH in Rats

P250 Methylation Profiling of Endothelial Cells Isolated From Pulmonary Wedge Blood Supports Their Origin From the Pulmonary Vasculature: A New Approach to Study Pulmonary Hypertension

P251 Serial Echocardiogram Assessments of Pulmonary Hemodynamics and Right Ventricular Hypertrophy in Infant Rats With Experimental Bronchopulmonary Dysplasia Due to Antenatal Endotoxin

P252 Increased COL18a1/Endostatin Expression Correlates With Right Ventricular Fibrosis and Remodeling in the Sugen-hypoxic Rat Model of Pulmonary Hypertension

P253 Behavior and Effect of Nanoparticles on Neutrophil Recruitment in the Pulmonary Microcirculation

P254 High-throughput Assay System Reveals Candidate Genes Regulating SPL-induced XPB Degradation, A Novel Anti-Inflammatory Mechanism

P255 Sex Differences in Cardiac Macrophages in Response to Pulmonary Hypertension

P256 Carbonic Anhydrase IX KO Mice and Mice Fed Ammonium Chloride Water Have Altered Circulating Immune Cell Counts During Pneumonia

P257 Single-cell Omics Assisted Identification of Cell-cell Communication Changes in Endothelial Cells of NFU1 Rat Model of Pulmonary Hypertension

CLINICAL

THEMATIC POSTER SESSION

C61 FINDING HIDDEN GEMS AT SUNSET CLIFFS: NOT JUST PE AND PH! PULMONARY VEINS, AVMS, AND OTHER PULMONARY VASCULAR CASES

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area I (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

P1007 Triple Trouble: Pulmonary Arterial Hypertension, Moyamoya, and Aortic Coarctation, Oh My!

P1008 Internal Mammary Artery to Pulmonary Artery Fistula Following Apical Bullectomy

P1009 Lymph Node Mimics During Endobronchial Ultrasound (EBUS): Pulse-Wave Doppler Saves the Day

P1010 A Rare Case of Non-fatal Pulmonary Artery Dissection

P1011 A Perplexing Phenomenon: Systemic Lupus Erythematosus, Pulmonary Arterial Hypertension, and the Paradoxical Progression of Pulmonary Artery Aneurysms

P1012 Large Patent Ductus Arteriosus Masked by High Altitude Hypoxia Until Descent to Sea Level

P1013 Delayed Diagnosis of Pulmonary Vein Occlusion After Atrial Fibrillation Ablation

- P1014** Don't Burst My Bubble: A Case of Pulmonary Artery Pseudoaneurysm Following Right Heart Catheterization
- P1015** Approach to Treating Newly Diagnosed Pulmonary Arteriovenous Malformations in the Third Trimester of Pregnancy
- P1016** Clinically Significant Pulmonary Invasion in Multiple Myeloma - Associated Amyloid Light Chain Amyloidosis
- P1017** Is the Lesion Really a Pulmonary Arteriovenous Malformation? A Case Series of Pulmonary Lesions That Initially Mimic Pulmonary Arteriovenous Malformation
- P1018** A Rare Case of Extra Pericardial Mass Causing Cardiac Tamponade Physiology
- P1019** Inferior Vena Cava Filter Fracture and Embolization
- P1020** Four's a Crowd: Simultaneous Diagnoses of Severe Malaria, Partial Anomalous Pulmonary Venous Return, Chronic Thromboembolic Pulmonary Hypertension, and Pheochromocytoma
- P1021** Shortness of Breath Due to Iatrogenic High-Output Heart Failure
- P1022** Levoatriocardinal Vein Without Left Heart Obstruction: Rare Entity Masquerading as Misplaced Central Line
- P1023** A Case of Intracardiac Monophasic Synovial Sarcoma in a Young Healthy Male
- P1024** Where Is the Shunt? Refractory Hypoxemia in Malignant Superior Vena Cava Syndrome: A Case Report
- P1025** A Rare Case of Recurrent Pulmonary Arteriovenous Malformation in a Patient With Hereditary Hemorrhagic Telangiectasia
- P1026** A Severe Case of Hepatopulmonary Syndrome With Medical Management as a Bridge to Liver Transplant
- P1027** Exercise-Induced Hemoptysis in a Low-Activity Patient: A Rare Presentation and Its Underlying Mechanisms
- P1028** Unique Utilization of Temporary Pulmonary Artery Occlusion: A Case of a Massive Pulmonary Arteriovenous Malformation
- P1029** Acute Pericarditis After Embolization of Pulmonary Arteriovenous Malformations in Hereditary Hemorrhagic Telangiectasia
- P1030** Post-operative Diffuse Alveolar Hemorrhage Associated With Vaping, Desflurane, and Negative Pressure Pulmonary Edema
- P1031** Getting a Second Wind: Pulmonary Artery Stenting for Treatment of Refractory Hypoxemia
- P1032** Pulmonary Vein Injury Complicating Watchman Device Implantation for Stroke Prophylaxis: A Rare Complication
- P1033** The Dangers of Hemoptysis: A Case of Pulmonary Artery Pseudoaneurysm
- P1034** Pulmonary Vein Stenosis After Radiofrequency Ablation
- P1035** Delayed Diagnosis of Pulmonary Vein Stenosis Following Ablation
- P1036** Whats Lungs Got to Do With It
- P1037** Vascular Ehlers-danlos Syndrome in a Young Man With Hemoptysis
- P1038** Small Abnormalities With Big Consequences: Pulmonary Artery Pseudoaneurysm Presenting With Simultaneous Massive Hemoptysis and Hemothorax
- P1039** Uncharted Pathways: Unveiling the Mystery of Chronic Vena Caval Occlusion and Right-to-left Shunting in a Complex Case
- P1040** Water Fast Diet for Longevity, but Is It Safe?
- P1041** A 24-Year-Old Male With Dyspnea on Exertion After Arrival to High Altitude
- P1042** No Pressure: An Unusual Case of PFO Induced Hypoxia
- P1043** Nagging Dyspnea: Use of Cardiopulmonary Exercise Test for Diagnosing Complete Heart Block
- P1044** Vagal Schwannoma Masquerading as Syncope
- P1045** Unmasking the Cause of Dyspnea: Partial Anomalous Pulmonary Venous Return in an Adult
- P1046** Acute Chest Syndrome Triggered by EBV Infection in a Patient With Hemoglobin SC Disease
- P1047** Atypical Chest Pain Leading to a Serendipitous Diagnosis of Pulmonary Arteriovenous Malformation

- P1048 An Unusual Case of Chest Pain in a Young Woman
- P1049 Acute Gastrointestinal Bleed Unmasks Rare Cause for Elevated A-a Gradient
- P1050 An Unusual Case of Asthma
- P1051 Hemoptysis and a Hole in the Heart; When Uncommon Becomes Extraordinary
- P1052 A Rare Case of Hemoptysis During Sexual Intercourse
- P1053 Apical Hypertrophic Cardiomyopathy, an Initial Encounter Highlighting Need for Broader Approach to Screening
- P1054 A Rare Encounter: Unveiling May-Thurner Syndrome Amidst a Complex Clinical Scenario
- P1055 A Rare Case of Pulmonary Arterial Sarcoma

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

C62 TOP GUN: NOVEL THERAPEUTICS AND OUTCOMES IN PAH

9:15 a.m. - 4:15 p.m. San Diego Convention Center

Area C (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P259 Longitudinal Hemodynamic Response and Clinical Outcomes in Portopulmonary Hypertension
- P260 Low Plasma Serotonin Levels Are Associated With Decreased Exercise Capacity in Long-COVID Patients During ICPET
- P261 Factors Associated With Higher or Lower Risk of Receiving a Transplant in Pulmonary Hypertension Subtypes: Insights From the National Inpatient Sample
- P262 Exploring Variations and Outcomes Among Pulmonary Hypertension Subtypes: Insights From the National Inpatient Sample
- P263 Pre-planned Study Design Adaptations in UNISUS: A Phase 3, Randomized Superiority Study Comparing the Efficacy, Safety, and Tolerability of Macitentan 75 Mg Versus 10 Mg in Patients With Pulmonary Arterial Hypertension (PAH)
- P264 Pulmonary Arterial Compliance Is an Important Predictor of Post-transplant Survival Among Kidney Transplant Recipients
- P265 MELD-Na Can Predict the Severity of Pulmonary Arterial Hypertension
- P266 Determinants of Estimated Glomerular Filtration Rate in Pulmonary Arterial Hypertension and Chronic Thromboembolic Pulmonary Hypertension
- P267 Baseline Characteristics From the IMPAHCT Trial of AV-101, Inhaled Imatinib, in Subjects With Pulmonary Arterial Hypertension
- P268 Phenotypic Drift in Patients With Pre-capillary Pulmonary Hypertension
- P269 Predicting Pre-capillary Pulmonary Hypertension in Systemic Sclerosis by Regional Longitudinal Strain Patterns on Echocardiography
- P270 Provider Preferences Regarding the Use of Combination ERA+PDE5i for the Treatment of Pulmonary Arterial Hypertension: Results From a Discrete Choice Experiment
- P271 Blood Pressure Change During Six-minute Walk Test Is an Independent Predictor of Clinical Worsening in Patients With Pulmonary Hypertension
- P272 Efficacy of Specific Drug Class Therapy in Pulmonary Arterial Hypertension Associated With HIV, Portal Hypertension or Both: A Single Center Experience
- P273 Identification of Inflammatory Cells in the Sex Dimorphism of Pulmonary Arterial Hypertension
- P274 Pulmonary Hypertension in HIV and Heart Failure: Clinical Insights and Survival Outcomes
- P275 Number of Attempts and Interventions Needed to Adequately Measure the Pulmonary Artery Wedge Pressure During Right Heart Catheterization
- P276 Alterations in ECG in PAH Patients Who Died From Sudden Death Compared With Right Heart Failure

- P277 Real-world Safety and Efficacy of Riociguat in Adults With Pulmonary Arterial Hypertension: 6-month Data From the RiOciguAt UseRs (ROAR) Registry
- P278 Stratification of Risk of Pulmonary Hypertension Using Non-invasive Measures in Patients With Schistosomiasis-related Liver Disease in Ethiopia and Zambia
- P279 Increased Body Mass Index Is Associated With Reduced All-cause Mortality in Sarcoidosis-associated Pulmonary Hypertension
- P280 Pulmonary Hypertension Is Not Associated With Mortality After Thrombolysis in Acute Stroke. Analysis of National Inpatient Sample
- P281 The Definition of Pulmonary Hypertension Varies Widely Across Empiric Research Studies
- P282 Causal Association Between Platelet Counts and Pulmonary Arterial Hypertension: A Two-sample Mendelian Randomization Study
- P283 Advanced Pulmonary Hypertension Portends Worse Survival in Polycythemia Vera
- P284 Real-world Transition and Persistence to Oral Treprostinil Therapy From Parenteral Prostacyclins in Patients With Pulmonary Arterial Hypertension
- P285 The Influence of Pre-existing Pulmonary Hypertension on Noncardiac Surgical Outcomes: A Systematic Review and Meta-analysis
- P286 Choice of Antidiabetic Therapy Is Associated With Survival in Patients With Pulmonary Hypertension and Diabetes
- P287 The Role of Pulmonary Hypertension in Patients Undergoing Atrial Fibrillation Ablation: National Inpatient Sample (NIS)
- P288 Case Series: Marked Attenuation of Methamphetamine-associated Pulmonary Arterial Hypertension With Methamphetamine Cessation and Pharmacologic Therapy
- P289 Impact of Group 1 Pulmonary Arterial Hypertension in Sepsis Hospitalizations
- P290 SGLT2 Inhibitors and Pulmonary Arterial Hypertension: A Retrospective Study
- P291 Predictors of Methamphetamine Use in the Midwest/Western United States: Xpose
- P292 Clinical Characteristics and Treatment Outcomes in Pulmonary Langerhans Cell Histiocytosis Associated Pulmonary Arterial Hypertension: A Retrospective Case Series
- P293 Clinical Characteristics and Treatment Outcomes in Hereditary Hemorrhagic Telangiectasia Associated Pulmonary Arterial Hypertension: A Retrospective Case Series
- P294 Characteristics of Methamphetamine-associated Pulmonary Arterial Hypertension at a Single Center
- P295 Diet Quality in Patients With Pulmonary Arterial Hypertension
- P296 Selexipag in Pulmonary Arterial Hypertension Associated With Connective Tissue Disease (PAH-CTD): Real-world Evidence From EXPOSURE

BASIC • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

C63 PEDIATRIC IMMUNOLOGY, ONCOLOGY, PHYSIOLOGY, AND CELL BIOLOGY

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

San Diego Convention Center

Area A (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1 Complement Component C3 Modulates Surfactant in the Lung
- P2 Oscillometry Phenotypes in Children With Down Syndrome
- P3 Infant Pulmonary Function Testing Duration Differs by Anesthesia Type
- P4 Spectral and Intra-breath Oscillometry in Adolescents Living with Obesity
- P5 Functional Redundancy in Reparative T Cell Subsets Is Associated With Improved Respiratory Viral Infection Outcome
- P6 Anti-thymocyte Globulin for Maintenance Immunosuppression After Lung Transplantation Complicated by Acute Renal Failure

BASIC • BEHAVIORAL • CLINICAL

THEMATIC POSTER SESSION

C64 PEDIATRIC ASTHMA

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

San Diego Convention Center

Area A (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees**12:30-1:15** Authors will be by their posters for individual discussion with attendees

- P7 A Rare Condition Masquerading as a Common Disease
- P8 Just How Many Respiratory Infections Is Too Much?
- P9 Symptom Overlap in Immunodeficiency and Primary Ciliary Dyskinesia: A Case Report
- P10 Case Report: Diffuse Interstitial Pneumonia in an Infant With Combined Immunodeficiency
- P11 Congenital Lung Formation: Is It a Congenital Pulmonary Malformation (CPAM) Type 4 or a Pleuropulmonary Blastoma?
- P12 An Unusual Case of Pneumonia in a Previously Well 16-year-Old
- P13 A Rare Cause of Anterior Mediastinal Mass in an 18 Month-old Boy
- P14 A Case Report of a Bronchial Carcinoid Tumor in an Adolescent Female Presenting as Recurrent Pneumonia
- P15 From Inhalers to Insights: When Wheezing Isn't Asthma
- P16 Diagnosis and Management of 8-Year-Old Male With Endobronchial Neuroendocrine Tumor Resected via Robotic Sleeve Resection and Bilobectomy
- P17 Pulmonary Leiomyoma in an Immunocompetent 14 Year Old Male
- P18 Minimally Invasive Resection of an Endobronchial Carcinoid Tumor in Adolescence
- P19 A Rare Diagnosis of Atypical Bronchial Carcinoid Tumor in a Pediatric Patient With Massive Hemoptysis
- P20 The Role of GATA4 in Lung Hypoplasia and Pulmonary Hypertension Associated With Congenital Diaphragmatic Hernia
- P21 A New Mouse Model to Dissect the Contribution of Intrinsic Lung Defects Versus Extrinsic Skeletal Defects to Impaired Lung Function in Osteogenesis Imperfecta
- P22 Optimization of Human DNA Depletion and Microbial-enrichment Techniques in DNA Extraction From Oropharyngeal Swabs: Preparing for Shotgun Metagenomic Analysis in the PROMISE Pediatric Substudy

- P24 Effect of Bioactive Sphingolipids on Airway Reactivity
- P25 Taste and Smell Sensitivity of Children With Obesity and Asthma
- P26 Dyspnea on Exertion Provokes Unpleasantness and Negative Emotions in Children With Obesity: Examining the Impact of Respiratory Symptoms
- P27 Characteristics of Allergic, Eosinophilic, and Overlapping Asthma Phenotypes Among Pediatric Patients With Current Asthma: A Cross-sectional Study From Saudi Arabia
- P28 A Novel Approach to Asthma Endotypes
- P29 Rate of Hospitalization and Severity of Status Asthmaticus Among Children in Hong Kong Before, During and After the COVID-19 Pandemic
- P30 Long-Term Follow-Up for Children With Asthma Who Had Reduced Lung Function or Asthma Control Following SARS-CoV-2 Infection
- P31 Decreasing the Equity Gap in Pediatric Asthma Hospitalizations Among a Shared Population
- P32 Creating a Cost-map From Claims Data to Guide Improvement Actions for Children With Asthma
- P33 Reference Values for Within-breath Oscillometry in Italian Children and Adolescents Aged 3 to 17 Years
- P34 The Impact of Routine Asthma Reviews: A UK Population-based Cohort
- P35 Validation of the Chat: An Asthma Knowledge Tool to Assess the Efficacy of Comprehensive Pediatric Asthma Education
- P36 The Minimally Important Difference for the Childhood Asthma Control Test

- P37 Icy Discoveries: Surprising Imaging Findings in an Otherwise Healthy Hockey Enthusiast
- P38 Small Airway Dysfunction in School-age Children With Asthma and Both FEV1 and FEV1/FVC in the Normal Range
- P39 Improving Pediatric Asthma Outpatient Follow-up Within 90 Days of Hospitalization: A Single-center Quality Improvement Program
- P40 Persistent Pet Ownership and Asthma in Puerto Rican Youth
- P41 Response to Inhaled Corticosteroids in Youth With Asthma and History of Child Maltreatment
- P42 Intravenous Magnesium Sulfate for Asthma Exacerbations in Children: Systematic Review With Meta-analysis
- P43 Project BREATHE: Effects of Specialist Follow-ups in Asthma Outcomes: A Quality Improvement Project
- P44 Real-World Impact of Mepolizumab on Pediatric and Adolescent Patients With Severe Asthma in the United States
- P45 Assessing Asthma Clinical Remission in Pediatric Patients on Biologic Therapies
- P46 U.S. Healthcare Burden of Asthma Among Overweight and Obese Hospitalized Children With Asthma
- P47 Attenuation of Severe Steroid-Dependent Eosinophilic Asthma in a Child Under 6 Years Old With Dupilumab
- P48 Vaping-Associated Lung Injury From Oxycodone-Acetaminophen Inhalation
- P49 Attention Deficit Hyperactivity Disorder (ADHD) and Atopic Disease. Systematic Review of the Literature and Meta Analyses
- P50 Vocal Cord Dysfunction in Children: A Pandemic-proof Phenomenon?
- P51 Association of Inhaled Corticosteroid Use With Bronchoalveolar Lavage Findings in Children With Oropharyngeal Dysphagia
- P52 Intracranial Hypertension as an Initial Sign of Adrenal Insufficiency Secondary to Inhaled Corticosteroids in a Child With Asthma
- P53 Boy With Asthma Found to Have Bronchial Atresia

- P54 When Recurrent Wheeze and Cough Is More Than Just Asthma—A Pediatric Case of Common Variable Immunodeficiency (CVID)
- P55 Non-asthmatic Eosinophilic Bronchitis in a Pediatric Patient
- P56 Can Preventing an Asthma Exacerbation During Pregnancy Reduce the Risk of Adverse Asthma Trajectories in Children?
- P57 Early-life Exposures Interact With Genetic Risk to Modulate Lung Function and Risk of Asthma in Pre-School-Aged Children
- P58 Recent Wildfire Smoke and Asthma Hospitalizations and Emergency Department Visits of Children in California

CLINICAL • TRANSLATIONAL
THEMATIC POSTER SESSION
C65 PEDIATRIC RESPIRATORY FAILURE, CRITICAL CARE, AND VASCULAR PULMONARY DISEASE

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

San Diego Convention Center

Area A (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P60 Are Red Blood Cell Distribution Width and Mean Platelet Volume Associated With Mortality in Critically-ill Pediatric Population?
- P61 Characteristics and Outcomes of Children Admitted into the Intensive Care Unit in South- West Nigeria
- P62 Low Concentration of Vitamin C and Prognosis in Critically Ill Children
- P64 Pulmonary Embolism in Children: A French National Multicentric Retrospective Cohort Study
- P65 Identification of Pulmonary Vascular Disease in Preterm Infants Using Oxygen Saturation Index
- P66 Prevalence of Pulmonary Hypertension in Children With Prader-Willi Syndrome
- P67 Determining the Role of Wnt Modulation in Driving Neointimal Growth in Pulmonary Hypertension

- P68 Comparing the Effects of Different Levels of High-flow Nasal Cannula on Cardiac Output, Tracheal Pressure, and Arterial Oxygen Tension in Neonatal Porcine Lung Injury Model
- P69 Comparison of In Vivo Pulmonary Function Tests to Ex Vivo Lungs of Infant Baboons
- P70 Albuterol Delivery Through Laryngeal Mask Airways
- P71 Clinical Profile and Outcome of Neonates Requiring Assisted Mechanical Ventilation: Exploring Currents Trends and Trajectories of Short-term Neonatal Respiratory Morbidities in a Tertiary Care Centre in Nepal
- P72 Travel Experiences of Children Using Home Mechanical Ventilation and Their Families
- P73 The Impact of COVID-19 on Home Health Nursing Availability, Readmission Rates, and Mortality in Tracheostomy Dependent Children
- P74 Thirty-day Readmission Rates for Patients With New Tracheostomy Dependence Before and After Implementation of Pulmonary Sick Plan During Pre-discharge Education
- P75 Initiation of Home Positive Pressure Mechanical Ventilation at the University of Michigan C.S. Mott Children's Hospital, 2012-2022
- P76 Ticket to Home: Development of an Individualized Discharge Framework for Children With Long-term Mechanical Ventilation Dependence
- P77 Rare Mid-tracheal Stenosis in a Child Post Blunt Chest Trauma
- P78 Right Mainstem Bronchial Transection From Horse-drawn Carriage Injury
- P79 Fraser or Cryptophthalmos Syndrome: A Case Report
- P80 A Cardiac Cause of Hypercapnia
- P81 An Orange a Day: Vitamin C Deficiency-induced Pulmonary Hypertension in a Pediatric Patient With Autism Spectrum Disorder
- P82 Initiation of Triple Therapy in a Pediatric Patient Diagnosed With Severe Pulmonary Hypertension. A Case Report

- P83 Life-Threatening Pulmonary Manifestation of Plasminogen-Deficiency Type I in a 16-Month-Old Boy: A Case Report
- P84 Rare Case of Acute Idiopathic Pulmonary Hemorrhage of Infancy Versus Physical Child Abuse
- P85 Pediatric Tracheostomy: Experience on a Tertiary Academic Medical Center Before and During COVID-19 Pandemic
- P86 Pseudo Respiratory Alkalosis in a Chronically Mechanically Ventilated Patient
- P87 Discharge Practices and Implementation of the ATS Guideline on Pediatric Chronic Home Invasive Ventilation
- P88 Analysis of Pediatric Acute Respiratory Distress Syndrome in Pediatric Intensive Care Unit

BEHAVIORAL • CLINICAL
THEMATIC POSTER SESSION
C66 BEHAVIORAL, ENVIRONMENTAL, AND HEALTH SERVICES RESEARCH IN PEDIATRIC PULMONOLOGY
9:15 a.m. - 4:15 p.m.
San Diego Convention Center
Area A (Hall A-B2, Ground Level)
Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P90 Improving a Virtual Platform for Pediatric Residents on Pediatric Pulmonology Topics
- P91 Virtual International Pediatric Pulmonology Research Academy (VIPRA): An International Methodology Course Experience
- P92 Pivot in Pediatric Pulmonology Instruction at a Time of Exponential Growth in Medical Knowledge; Process Oriented Guided Inquiry Learning

- P93 Patient- and Proxy-reported Outcome Measurement Instruments for the Assessment of Asthma Control: A Content Analysis Overview According to the International Classification of Functioning, Disability, and Health Framework
- P94 Brazilians' Perception on Asthma Control: Analysis of Focus Groups Discussions Among Pediatric Population and Caregivers
- P95 Summarizing the Characteristics of the Instruments to Assess Asthma Control in Children, Adolescents, and Adults: A Systematic Review
- P96 A Tool to Assess Clinical Diversity in Pediatric Meta-analyses (CDIPM) of Interventions
- P97 Parental Perspectives: Pediatric Asthma and the Health Impacts of Climate Change
- P98 The Role of Standardizing Asthma Management and Education for Patients With Uncontrolled Asthma Symptoms
- P99 School Staff Education Program to Enhance Care for Students With Asthma in Communities With High Prevalence
- P100 Impact of a Severe Asthma Virtual Home Visit on Medication Adherence
- P101 Implementation of a Clinical Standard Work Pathway in Patients With Congenital Diaphragmatic Hernia Leads to Decreased Readmission Rate
- P102 Reasons Driving Teen and Young Adult E-cigarette Vapers to Switch to or Add in Combustible Tobacco Cigarettes
- P103 Preoperative Vaping Screening in Pediatric Patients
- P104 Engaging Youth in Pollution and Lung Health Monitoring in Washington Heights, New York City: A Pilot Study
- P105 Prenatal Delta-9-tetrahydrocannabinol Exposure Adversely Impacts Lung Development, Function, and Volume in Rhesus Macaque Offspring
- P106 Role of Race and the Childhood Opportunity Index in Predicting Lung Function Outcomes Among Adolescents and Adults Born Premature

BASIC • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

C67 SCIENCE AND BEDSIDE BACTERIAL PNEUMONIA

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

San Diego Convention Center

Area L (Hall H, Ground Level)

Viewing: Posters will be on display for entire session**Discussion:** 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1350 Features of Community Acquired Pneumonia and Implicated Microbial Pathogens Before and After the COVID-19 Pandemic
- P1351 Anti-inflammatory Roles of Type I Interferon Signaling in the Lung
- P1352 IGF1R Plays a Protective Role in Pneumococcal Pneumonia
- P1353 Inhibition of Pseudomonas Aeruginosa-Induced Ferroptosis Protects Host Lung Function During Acute and Chronic Murine Lung Infections
- P1354 The Effect of Corticosteroid Use on the Mortality of Community Acquired Pneumonia: A Systematic Review and Meta-analysis of Randomized Controlled Trials
- P1355 Anti-bacterial Efficiency of a Novel Phage Cocktail Against Clinical Pseudomonas Aeruginosa
- P1356 Establishing an In Vivo Galleria Mellonella Model for Studying Pseudomonas Aeruginosa Bacteriophage Interactions
- P1357 Comparing Outcomes Among Pneumonia Prediction Models in Elderly Patients: A Single Center Validation Study
- P1358 Cell-specific CD40 Expression During Development of Lung-resident Heterotypic Immunity
- P1359 Enterobacteriaceae Species Drive Inflammation in Intra-abdominal Sepsis in Mice and Humans
- P1360 Long Read 16S rRNA Sequencing Identifies a Link Between Sputum Microbiome Dysbiosis and Disease Severity in Chronic Obstructive Pulmonary Disease

- P1361** Production and Characterization of Alteplase and Urokinase Loaded Echogenic Liposomal Carriers for Emphyema
- P1362** Initial and Residual Cardiovascular Damage Remaining at Day 30 in Community-acquired Pneumonia
- P1363** Routine Testing for Mycoplasma and Legionella in Community Acquired Pneumonia - A Quality Improvement Project
- P1364** Exacerbation of Pneumococcal Pneumonia in Triply Nitric Oxide Synthase Knockout Mice
- P1365** Pneumonia Activates Distinct Metabolic Pathways Among Patients Hospitalized With Infection in Northeastern Thailand
- P1366** Characterization of Factors Associated With Disease Severity in Adults Hospitalized With Respiratory Viral Infection: The Universal Study
- P1367** The Role of the DNA Repair Enzyme 8-Oxoguanine DNA Glycosylase (OGG1) in the Host Response to Streptococcus Pneumoniae Pneumonia
- P1368** Clinical Efficacy of Beta-lactam and Quinolone Combination Therapy for Severe Community-acquired Pneumonia in Chronic Obstructive Pulmonary Disease
- P1369** Assessment of the Impact of Pre-pyloric vs Post-pyloric Feeding on the Incidence of Aspiration Pneumonia and Its Outcomes
- P1370** Hospital-level Factors for Community Acquired Pneumonia Mortality Based on a Nationwide Mandatory Performance Measurement Program 2014-2022
- P1371** Upper Respiratory Microbiota and Lower Respiratory Disease in Hospitalized Children in Kenya: A Secondary Pilot Analysis of the Toto Bora Trial
- P1372** Experimental Models to Characterize Pneumonia Sub-phenotypes Observed in Humans
- P1373** Evaluation of C3HeB/FeJ Mice for Sustained Pulmonary Intracellular Bacterial Infections
- P1374** Route of Respiratory Pathogen Administration and Heterogeneity of Microbial Seeding in Murine Models
- P1375** Antibacterial Functions of Eosinophils: Old Dog With New Tricks
- P1376** Do Providers Know When Sputum Is Purulent? Accuracy of Healthcare Provider Assessments of Endotracheal Secretions in Mechanically-Ventilated Patients
- P1377** Clinical Characteristics and Outcomes of Critically Ill Patients With Corynebacterium Species on Bronchoalveolar Lavage
- P1378** Comparison of Full Length Loopseq 16S rRNA Gene Sequencing and Illumina Short Read 16S Gene Sequencing in a Cohort of Patients With Chronic Obstructive Pulmonary Disease
- P1379** Empyema Therapy: Investigating the Impact of Educational Lectures
- P1380** Airway Fibroblasts Fuel Infection
- P1381** Trends in Invasive Pneumococcal Serotypes in Taiwan: Data Analysis by Web Crawling and Whole Genome Sequencing
- P1382** Clinical Effectiveness of Lascufloxacin Drip Infusion, A Novel Fluoroquinolone Antibiotic, for the Treatment of Patients With Elderly Pneumonia and Lung Abscess
- P1383** Pathogenic Staphylococcus Displays Enhanced Growth Compared to a Commensal Species in the Bronchoalveolar Lavage Fluid of Hyperoxia-exposed Mice
- P1384** Interleukin-27 Is Critical for Lymphocyte Responses to Legionella Infection in the Lung
- P1385** Pseudomonasaeruginosa-derived Volatile Organic Compounds Activateahr Signaling and Polarize Toward M1 Macrophage, Neutrophils, and Type 17 Immune Responses That Favor Mucus Hypersecretion in Diseased Lungs
- P1386** Furin Inhibition With BOS-318 Protects Against Acute Lung Injury in a Mouse Model of Pseudomonas Aeruginosa Infection

BASIC • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

C68 NTM: CHALLENGING SCIENCE AND CASES

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area L (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1388** Imipenem Pharmacokinetics/Pharmacodynamics in the Hollow Fiber Model of Mycobacterium Abscessus
- P1389** Multi-Plex Immunofluorescent Imaging of Bronchus-Associated Lymphoid Tissue in Mycobacterial-Infected Lungs
- P1390** Analysis of Genetic Patterns in Nontuberculous Mycobacteria by PCR-RFLP of the Hsp65 Gene
- P1391** The Role of Programmed Death Ligand-1 in Pulmonary Immune Microenvironment Among Patients With Nontuberculous Mycobacteria Lung Disease
- P1392** Analysis of Alpha-1-antitrypsin-regulated Genes That Are Dependent on Glucocorticoid Receptor in Macrophages Reveals a Novel Host-defense Mechanism of Alpha-1-antitrypsin Against Non-tuberculous Mycobacteria
- P1393** Chest CT Analysis of Lung Disease Due to Non-tuberculous Mycobacteria
- P1394** Antimicrobial Peptides Against Mycobacterium Abscessus Complex Isolates in Medellin, Colombia
- P1395** All Trans Retinoic Acid as a Host-directed Therapy for Nontuberculous Mycobacteria
- P1396** Staphylococcus Aureus Genotype and Risk of Cystic Fibrosis-related Diabetes Mellitus
- P1397** Demographics and Characteristics of High-resolution CT (HRCT) Findings in Patients With Non-tuberculosis Mycobacterial Pulmonary Disease (NTM-PD) at a Tertiary Hospital in the South
- P1398** Incidence of Pulmonary Artery (PA) Enlargement in Patients With Non-tuberculosis Mycobacterial Pulmonary Disease (NTM-PD)
- P1399** GM-CSF Inhalation Therapy for Pulmonary Nontuberculous Mycobacterium Diseases Pilot Study
- P1400** Investigating Nontuberculous Mycobacteria as Climate Sensitive Environmental Pathogens Using the National Ecological Observatory Network (NEON)
- P1401** Pulmonary Exacerbations and Respiratory Illness Among Patients With Bronchiectasis and Nontuberculous Mycobacterial Pulmonary Infections During the COVID-19 Pandemic: A Prospective Self-report Survey
- P1402** Serum Cell-free DNA-based Diagnosis of Mycobacterium avium Complex Infections
- P1403** Periaortic Abscess Due to Mycobacterium Abscessus
- P1404** Non-tuberculosis Mycobacterium Infections and Pulmonary Artery Aneurysms: Rare Complications of Sickle Cell Disease
- P1405** There and Back Again
- P1406** Fatal Hemoptysis Secondary to Pulmonary Artery Pseudoaneurysm in the Setting of Prior Mycobacterium Tuberculosis Infection
- P1407** Pulmonary Non-tuberculous Mycobacterial Colonization Versus Disease Diagnosed During Tuberculosis Treatment
- P1408** A Case of Cavitory Pulmonary Non-tuberculous Mycobacterial Disease Demonstrating Significant Improvement on Oral Drugs Without Parenteral Amikacin
- P1409** An Unusual Presentation of Nontuberculous Mycobacteria Lung Infection in a Ventilator Dependent Child
- P1410** An Unusual Presentation of Mycobacterium Fortuitum With Classical Findings of Pleuroparenchymal Fibroelastosis on Imaging
- P1411** Rare Case of Non-TB Mycobacterium in Ohio
- P1412** A Case of Acute Hypoxic Failure Due to COVID-19 and Influenza A With Concurrent Salmonella Bacteremia and Other Opportunistic Infections: Pathogenesis and Early Consideration of HIV

- P1413 A Case of Fatal Adenovirus Infection After Lung Transplant
- P1414 Mycobacterium Abscessus and Klebsiella Oxytoca Co-Infection
- P1415 A Case of Disseminated MAC Disease as First Presentation for HIV
- P1416 Mimicry or MAC: A Case of Recurrent Pneumonia With Significant Hilar and Mediastinal Lymphadenopathy in an Immunocompetent Young Female Patient
- P1417 A Very Rare Case of an Immunocompetent Patient With Concomitant M. Avium Complex, M. Abscessus, and M. Shimoidei Lung Infection
- P1418 A Case of Nontuberculous Mycobacterium Infection in an Immunocompetent Patient From a Low-Middle Income Country
- P1419 A Case Report of Mycobacterium Avium Complex (MAC) in a Pregnant Sickle Cell Anemia Patient
- P1420 A Case of a Recurrent Pleural Effusion Caused by Mycobacterium Fortuitum
- P1421 Importance of Early Diagnosis in Mycobacterium Avium Complex Infections
- P1422 New-onset Diffuse Alveolar Hemorrhage in Setting of Mycobacterium Avium Complex in an Elderly Patient
- P1423 Factors Related With the Recurrence and Mortality of Mycobacterium Avium Complex Pulmonary Disease
- P1424 Metformin Use Reduces the Risk of Nontuberculous Mycobacteria Infection: Results From a Population-based Cohort in Hawaii, USA
- P1425 The Prevalence of Nontuberculous Mycobacteria Pulmonary Disease in the US, 2010-2019
- P1426 Higher Asthma Prevalence Among Bronchiectasis Patients With Allergenic Molds in Respiratory Cultures
- P1427 NTM Infection Risk and Environmental Factors: A Population-Based Epidemiologic Study of New York City, NY
- P1428 Nontuberculous Mycobacterial (NTM) Disease Among Pulmonary Tuberculosis Suspects in India: A Multicentre Study

- P1429 Epidemiology of Non-tuberculous Mycobacterial Pulmonary Disease With a Focus on the Association Between Soil and Rapidly Growing Mycobacteria Detection in Okinawa, Japan

CLINICAL

THEMATIC POSTER SESSION

C69 FUNGAL INFECTION CHALLENGES

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

San Diego Convention Center

Area L (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees

12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1431 A Case of Miliary Histoplasmosis of the Lung With Bullous Formation
- P1432 A Case of Chronic Cavitory Pulmonary Schizophyllum Commune Infection With Fungal Ball Formation
- P1433 Pulmonary Histoplasmosis in a 60-Year-Old Male With Ulcerative Colitis on Tofacitinib
- P1434 Which Came First: Sarcoidosis or Histoplasmosis?
- P1435 Life-Threatening Bronchial Mucormycosis Case
- P1436 Bone and Blood and Broncholithiasis
- P1437 Invasive Pulmonary Aspergillosis in a Solid Organ Transplant Patient With ANCA-Associated Vasculitis
- P1438 Cryptococcoma Presenting as a Cavitory Lung Lesion in a Renal Transplant Recipient
- P1439 Allergic Bronchopulmonary Aspergillosis - An Unsuspecting Case
- P1440 Unmasking Mimics: When Disseminated Histoplasmosis Masquerades as Tuberculosis in HIV Patients
- P1441 A Rare Case of False Positive Bronchoalveolar Lavage Galactomannan
- P1442 Cryptococcus and Coxiella: The Two Rare Cs
- P1443 Difficult to Diagnose: An Unusual Cause of Cavitory Lung Lesion
- P1444 Granulomatous Pneumocystis Jirovecii Pneumonia

- P1445 **Mucormycosis Tracheitis: A Rare Clinical Presentation**
- P1446 **Resistant Pneumocystis Jiroveci Pneumonia in Patients With ANCA-Associated Vasculitis**
- P1447 **Delusional Nature of Flip Flop Sign Secondary to Histoplasmosis**
- P1448 **Cavitary Lesion vs Lung Abscess in HIV Positive Patient: A Clinical Spectrum**
- P1449 **A Case of Acute Hypoxic Respiratory Failure After Administration of Rituximab**
- P1450 **Wherever You Go, Cryptococcus Is There: A Case Series**
- P1451 **Survival Against the Odds: Hemophagocytic Lymphohistiocytosis Amidst the Shadows of Disseminated Histoplasmosis**
- P1452 **Blastomycosis Disguised as a Sternal Mass**
- P1453 **Invasive Aspergillosis With Fatal Hemoptysis in a Non-Immunocompromised Patient**
- P1454 **Large Mediastinal Mass Caused by Invasive Aspergillosis**
- P1455 **A Case of Symptomatic Hypercalcemia Secondary to Histoplasmosis**
- P1456 **A Rare Case of Bilateral Lung Cysts**
- P1457 **Acute Respiratory Distress Syndrome Due to Influenza a Mimicking Pneumocystis Jiroveci Pneumonia in an Immunocompromised Adult**
- P1458 **Blastomycosis Unleashed: The Hidden Cavity**
- P1459 **Disseminated Blastomycosis With Central Nervous System (CNS) Involvement: A Pulmonary Malignancy Mimic**
- P1460 **Pneumomediastinum in the Setting of Invasive Pulmonary Aspergillosis**
- P1461 **Risk of Aspergillus Infection in Patients With Chronic Structural Lung Disease**
- P1462 **Targeted Delivery of Iron Chelators Using Poly-(lactic-co-glycolic) Acid Nanoparticles for the Treatment of Invasive Aspergillosis**

BASIC • TRANSLATIONAL

THEMATIC POSTER SESSION

C70 FROM BUDS TO BREATH: MECHANISMS AND PATHOGENESIS OF LUNG DEVELOPMENT

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

San Diego Convention Center

Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P111 **Umbilical Cord Blood Cell Transcriptional and Methylation Signatures at Birth Are Associated With BPD Development**
- P112 **Multomics of the Human Bronchopulmonary Dysplasia Lung**
- P113 **The Role of Secreted Frizzled-Related Protein 1 (SFRP1) in Normal Lung Development**
- P114 **RSV-induced Epithelial Inflammation Downregulates the Beta2 Adrenergic Agonist-mediated Airway Smooth Muscle Relaxation in Early Life**
- P115 **Defective Mechanotransduction in Congenital Diaphragmatic Hernia Impairs Airway Epithelial Cell Differentiation**
- P116 **Cellular Senescence in Lungs of Neonates, Children, Adolescents, and Young Adults**
- P117 **Differential Proteomic Responses of Patient-derived Preterm Vs. Term Neonatal Tracheal Airway Epithelial Cells Following Hyperoxia Exposure**
- P118 **Disruption of Aryl Hydrocarbon Receptor (AHR) Exacerbates Neonatal Hyperoxic Lung Injury After Prenatal Exposure to Polycyclic Aromatic Hydrocarbons (PAHs)**
- P119 **Antenatal Corticosteroids Promote Perinatal Lung Function Via Directed Maturation of the Alveolar Capillary Endothelial Network**
- P120 **Stress Ligands for the Activating NKG2D Receptor Mediate Pulmonary Immunopathology in Experimental Bronchopulmonary Dysplasia**

- P121 Reduced Natural Killer Cell Activity in Individuals With Cystic Fibrosis Is Mediated by Decreased NKp30 Expression
- P122 Evaluation of KB407, An HSV-1-Based Gene Therapy Vector for the Treatment of Cystic Fibrosis, in Healthy and Patient-Derived Airway Cells Including an Apical-out Diseased Airway Organoid Model
- P123 The Orai1 Antagonist ELD607 Safely Reduces Lung Inflammation in G551D Cystic Fibrosis Ferrets
- P124 Dysbiosis of the Oral Microbiome Is Associated With Pulmonary Function, Chronic Antibiotic Use and Inhaled DNase Therapy in People With CF Receiving HEMT
- P125 Rapid Reversal of Mucociliary Transport Defects in G551D Neonatal Pigs
- P126 Role of DNAJB11 in CFTR Expression and Degradation
- P127 Comparison of the Effectiveness of Angiotensin Receptor Blockers in Reversing TGF- β 1-Induced CFTR and Mucociliary Dysfunction in Cystic Fibrosis Airway Epithelial Cells
- P128 Understanding Impact of CFTR Dysfunction on Airway Immune Cell Composition in Early Lung Disease Pathogenesis
- P129 Regional Susceptibility to Hypoxia-induced Changes in Airway Lipid Composition and Implications in Muco-obstructive Lung Diseases
- P130 Development of a CF Monocyte Model for Investigating the Role of Immune Dysfunction in CF Disease Onset and Progression
- P131 Targeting IL-6 and Endothelin Axis Enables Alveolar Growth in Mechanically Ventilated Newborn Mice
- P132 Caffeine Promotes Epithelial Wound Healing Through a TGF β -dependent Pathway

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

C71 ASTHMA CLINICAL PHENOTYPES AND THERAPIES

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

San Diego Convention Center

Area F (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P690 Rapid and Persistent 6-week Response to ICS/LABA/LAMA in Mild-moderate Asthma
- P691 Small Airway Asthma Phenotype Has Higher Type 2 Biomarker Levels Than Patients With Normal Lung Function
- P692 An Analysis of the Accuracy of Digital Home Peak Flow Monitoring, Relative to Supervised Measurements, in Uncontrolled Asthma
- P693 Prevalence of Small Airways Dysfunction as Defined by R5-R20 on Oscillometry in the Asthmatic Population and Its Co-relation With Spirometry: Findings From the Arise Network
- P694 Airway pH Is Low in Asthma: Assessment Using Buffer Inhalation
- P695 Effects of Benralizumab on Mucus Plugs in Eosinophilic Severe Asthma
- P696 Diagnostic Accuracy of Impulse Oscillometry for the Diagnosis of Asthma in Preschool Children, in a High Altitude Reference Institution
- P697 At-home Handheld Spirometry Quality in Patients With Moderate Asthma
- P698 Increased Abdominal Visceral Fat Relative to Erector Spinae Muscle on Computed Tomography and Impaired Asthma Related Quality of Life
- P699 Mucus Plugs Associated With Dupilumab Induction in Severe Asthma
- P700 Prenatal Omega-3 Fatty Acid Status in High-risk Pregnant Women With Asthma

P701 An Indirect Case Matched Comparison of Dupilumab and Benralizumab on Peripheral Airway Resistance and Compliance in Type 2 High Severe Asthma

CLINICAL

THEMATIC POSTER SESSION

C72 CASE REPORTS IN RESPIRATORY STRUCTURE AND FUNCTION

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area H (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P882** A Late, Unusual Presentation of Chronic Eosinophilic Pneumonia Requiring Anti-IL5 Therapy
- P883** Potential Protective Effects of Titrated Peep Under Chest Wall Loading in Non-COVID-19 Acute Respiratory Distress Syndrome: An Illustrative Case
- P884** Case Report: First Lobectomy in a Pediatric Patient With a Diagnosis of Cystic Fibrosis in Colombia
- P885** Severe Airflow Obstruction in Advanced Sarcoidosis With Dramatic Response to Prednisone Treatment
- P886** The Vanishing Lung: A Rare Case of Sepsis Secondary to an Infected Giant Emphysematous Bulla in an Elderly Patient and Treated With the Modified Monaldi Procedure
- P887** A Case of Alpha-1 Antitrypsin Deficiency Presenting With Bronchiectasis and Mycobacterial Abscessus Infection
- P888** A Rare Case of Bilateral Diaphragmatic Dysfunction in Behçet's Disease
- P889** Diffuse Idiopathic Skeletal Hyperplasia Presenting as a Rare Case of Airway Obstruction
- P890** A Rare Case of Superior Vena Cava Syndrome Induced Airway Edema
- P891** Carfizomib Induced Pulmonary Hemorrhage and Acute Renal Failure in the Setting of Relapsed Multiple Myeloma
- P892** Sucking It Up: A Case of Negative Pressure Ventilation Use in Management of Lymphedema in Yellow Nail Syndrome
- P893** The Treatment of COPD With a Disease Modifying Agent. A New Paradigm Shift in an Old Inflammatory Disease
- P894** A Rare Case of Diaphragm Paralysis Secondary to Non-Severe COVID
- P895** A Missed Diagnosis of Chronic Dyspnea Due to Subglottic Stenosis
- P896** Beware of This Cause of Post-covid Dyspnea
- P897** Recreational Breath-Hold Diving-Induced Diffuse Alveolar Hemorrhage in a Patient With Immune System Dysregulation
- P898** Acute Exacerbation of Usual Interstitial Pneumonia With Predominant Diffuse Alveolar Hemorrhage Pattern, Caused by Rhinovirus: A Case Report
- P899** A Rare Pulmonary Manifestation of Erdheim-Chester Disease
- P900** Obesity-Induced Lobar Collapse
- P901** An Unforgettable Presentation of a Forgotten Disease; Lemierre Syndrome
- P902** Pulmonary Sarcoidosis: An Unusual Cause of Dysphagia
- P903** Asymmetric Interstitial Lung Disease (ILD): Insights into ILD Pathophysiology
- P904** Not All Flash Pulmonary Edema Is Flash Pulmonary Edema: A Rare Case of a Laryngopyocele Causing Acute Respiratory Compromise in the ICU
- P905** Acute Eosinophilic Pneumonia in the Setting of Intramuscular Progesterone Usage
- P906** Solving a Paradox: Use of Biologic Monotherapy in an Unusual Case of Asthma With Paradoxical Bronchospasm
- P907** Blood at the Crossroads: Investigating Catamenial Hemoptysis
- P908** Fabry Disease With Complex Restrictive Pulmonary Function Pattern

- P909 A New PRISm (Preserved Ratio with Impaired Spirometry) for Large Solitary Fibrous Tumor
- P910 A Case of Diffuse Alveolar Hemorrhage Associated MPO-Vasculitis in a Community Setting
- P911 Sarcoidosis- A Rare Presentation
- P912 Submaximal Inhalation Error Detection Can Be Obscured by Operator Technique: Lessons Learned From Clinical Trials
- P913 Delayed Presentation of Postoperative Negative Pressure Pulmonary Edema, A Case Report
- P914 Air Everywhere in a Young Male With Inhalation Marijuana Use and Asthma
- P915 A Case Report of Tracheal Stenosis After Intubation for Severe SARS-CoV-2 Pneumonia/Acute Respiratory Distress Syndrome
- P916 Chronic Cough in an Immunosuppressed Patient: A Challenging Asthma Case. A Case Report
- P917 A Rapidly Progressive Case: From Radiation Pneumonitis, to End Stage Radiation-induced Pulmonary Fibrosis in Less Than 3 Months
- P918 Dyspnea and Chest Pain After Esophagectomy
- P919 Vocal Cord Spasm Causing Respiratory Failure: An Underdiagnosed Differential
- P920 A Noteworthy Example of Mosaic Attenuation Identified in a Patient With Chronic Obstructive Pulmonary Disease
- P921 Macrobid-induced Acute Pulmonary Toxicity
- P922 Lung Regeneration in Squamous Cell Carcinoma of Right Lung With Cystic Lung Diseases
- P923 A Rare Complication of Endoscopic Sleeve Gastroplasty
- P924 Intralobar Pulmonary Sequestration With Congenital Pulmonary Airway Malformation Presenting as Chronic Cough and Hemoptysis: A Case Report
- P925 Diffuse Idiopathic Pulmonary Neuroendocrine Cell Hyperplasia (DIPNECH): An International Case Series
- P926 Wolf in Sheep's Clothing: Pneumothorax Mimicking Stemi - A Case Study

BASIC • TRANSLATIONAL

THEMATIC POSTER SESSION

C73 PRECLINICAL MODELING OF PULMONARY INFLAMMATION AND EMPHYSEMA

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

San Diego Convention Center

Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
 12:30-1:15 Authors will be by their posters for individual discussion with attendees.

- P134 Airway Submucosal Gland Hypertrophy in Primary Ciliary Dyskinesia Pigs
- P135 Loss of RUNX1 Expression in Airway Epithelial Cells Contributes to Cilia Dysfunction in Chronic Lung Diseases
- P136 Inhibition of Airway Epithelial ERK, Barrier Permeability, and Neutrophil Migration by Airway-targeted Statins: A Therapeutic Role in COPD
- P137 Genotype-Phenotype Assessment of CRISPR-Cas9 Deletion of Multicillin in Induced Basal Cells for Rapid In Vitro Assessment of Primary Ciliary Dyskinesia
- P138 Mechanisms of Small Airway Clearance in Primary Ciliary Dyskinesia
- P139 Neutrophil Elastase Drives Emphysema and Airway Wall Remodeling, but Not Goblet Cell Metaplasia, in a Mouse COPD Model
- P140 The Nitroxide 3-Carbamoyl Proxyl (3-CP) Attenuates Severity of Emphysema in an Elastin-lipopolysaccharide Model of COPD
- P141 A Preclinical Model to Evaluate Pulmonary Immunity Following the Transition From Combustible Cigarette Smoking to Electronic Cigarette Use in C57BL/6 Mice
- P142 Studying the Relationship Between Prenatal Exposure to Maternal Diabetes and Sensitivity to Cigarette Smoke in Adulthood in Mice
- P143 Bone Morphogenetic Protein 6 Deficiency Distorts Wnt and Oxidative Stress Signaling in Lung Tissue

- P144** The Substitution of Fifty Percent of Combustible Tobacco Smoke Exposure With Either Electronic Cigarettes or Heated Tobacco Products Did Not Attenuate Acute Lung Injury in an Animal Model
- P145** Smoking-Induced Development of Emphysema Is Accelerated in Alpha-1 Antitrypsin Knockout Ferrets
- P146** Small Mobile Stem Cells, Unique Regenerative Effects on Lung of Emphysema Animal Model, Currently Undergoing Phase 1 Clinical Trial
- P147** Cigarette Smoke Stimulated 3D Hydrogels to Investigate Aberrant Fibroblast Macrophage Crosstalk in Chronic Pulmonary Diseases
- P148** Chronic Exposure to Cigarette Smoke Distorts Epithelial Progenitor Cell Differentiation
- P149** Progressive Immunologic Dysregulation With Exposure to Tobacco Smoke in a Model of Chronic Obstructive Pulmonary Disease (COPD)
- P150** The STAT3 Protein Inhibitor Treatment Attenuates Structural Changes in a Cigarette Smoke-induced Model of Chronic Obstructive Pulmonary Disease (COPD)
- P151** The Effects of Mechanical Ventilation on Pulmonary Function in Aging Alzheimer's Disease Transgenic, NLRP3 Deficient Mice
- P152** Effects of Exposure to Environmental Pollution From Iron Ore Pelletization on the Lungs of Genetically Modified Animals
- P153** Longitudinal Functional and Pathological Assessment of Pulmonary Changes Associated With Low-level Repeated Blast Exposure
- P154** Spatial and Gravitational Dependence of Parenchymal Tissue Deformation in Porcine Lung Injury
- P155** Therapeutic for Improving Oxygenation in Inflammatory Acute Lung Injury
- P156** Evaluation of Xenon Gas Phase and Dissolved Phase Delays Using Dynamic ¹²⁹Xe-hyperpolarized MRI in Pre-clinical Thoracic Insufficiency Syndrome Model
- P157** Alveolar Distribution of Nebulized Particles in Healthy and Injured In Vivo Rats Assessed by Confocal Microscopy
- P158** Structural and Functional Effects of Cholesterol on Crystalline Films of DPPC
- P159** Acute Lung Injury Induced by Bothrops Leucurus Venom Bleu-PLA2-like in Mice: An Experimental, Randomized, Pilot Study
- P160** Mouse Precision-cut Lung Slices as a Novel Model of Early Bacterial Infection With Methicillin-Resistant Staphylococcus Aureus
- P161** Effects of Bacterial Collagenase on the Failure of Lung Collagen Fibers
- P162** The Effect of Ischemia-reperfusion-induced Hypoxia on Changes in the Level of Antioxidants in Rat Lung Tissue
- P163** Assessing Lung Cellular Senescence in Immune Cell Population in Patients With HIV
- P164** Investigating Visceral Pleura Mechanics to Improve Biomimetic Surgical Adhesives Design
- P165** Exploring Development of Lung Lymphatics and Their Role
- P166** Hemoglobin Oxygen Carrier Reduces the Pathology of Interstitial Pulmonary Fibrosis by Decreasing the Expression of mRNA and Proteins Related to EMT and FMT
- P167** Development of an In Vitro Model of Dry Nose
- P168** Repetitive Intratracheal Bleomycin Induces Persistent Progressive Lung Fibrosis in a Mouse Model of Idiopathic Pulmonary Fibrosis (IPF)
- P169** Effectiveness of Brilaroxazine on Functional and Underlying Pathological Inflammation and Fibrosis Parameters in a Bleomycin-induced Idiopathic Pulmonary Fibrosis Model Using Male Sprague Dawley Rats
- P170** Respiratory Pathology in the mdx/utrn^{-/-} Mice: A Murine Model for Duchenne Muscular Dystrophy (DMD)
- P171** Transcriptomic Analysis of Mechanically Stretched Patient-derived Lung Alveolar Epithelial Cells From Organoids in a New Lung-on-Chip Platform

BASIC • CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

C74 CYSTIC FIBROSIS AND NON-CF BRONCHIECTASIS

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees will be present for discussion with assigned facilitators.

- P173** Individuals With CF Lung Disease Segregated by Severity With Xenon Ventilation MRI Display Divergent Molecular Signatures of Respiratory Tract Disease
- P174** Xe MRI Reveals Regional Gas-exchange Abnormalities in Cystic Fibrosis Lung Disease
- P175** Baseline Data From the Phase 2 Airleaf™ Trial of the Novel Cathepsin C Inhibitor BI 1291583 in Adult Patients With Bronchiectasis
- P176** Evaluation of Open-source Ciliary Analysis Software in Primary Ciliary Dyskinesia: A Comparative Assessment
- P177** Abnormal Sweat Chloride in Non-Cystic Fibrosis Bronchiectasis
- P178** Fully Automatic Assessment of Bronchus-Artery Dimensions and Ratios, Mucus Plugs, and Low Attenuation Regions in Cystic Fibrosis Patients Before and After Elexacaftor-Tezacaftor-Ivacaftor
- P179** Quantification of Lung Disease Severity in Cystic Fibrosis Using Z-scores: A Retrospective Cohort Study
- P180** EIT Images of Ventilation and Perfusion Correlate With Spirometry in Patients With Cystic Fibrosis and Healthy Controls
- P181** Males With Cystic Fibrosis Have Larger Central Airway Luminal Areas Than Females
- P182** Conducting Airway Luminal Area Is Greater in Individuals With Cystic Fibrosis Versus Healthy Controls: A Retrospective Analysis

- P183** Implications of High Oxygen Treatment on Healthy Airways and the Impact of Oxidative Processes
- P184** An AI-driven CT Biomarker of Airway Morphology for Monitoring Regional Changes in Pediatric Cystic Fibrosis

CLINICAL • TRANSLATIONAL

THEMATIC POSTER SESSION

C75 STRUCTURAL AND FUNCTIONAL CONSEQUENCES OF COVID

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area B (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P186** Quantitative Characterization of Regional Ventilation and Perfusion in Patients With Persistent COVID-19 Symptoms Using Hyperpolarized ¹²⁹Xe MRI and Dual Energy CT
- P187** Single Breath Diffusing Capacity of the Lungs for Carbon Monoxide and Nitric Oxide in Patients With Persistent Symptoms After COVID Infection
- P188** Functional Status, Quality of Life and Lung Function of People Living With HIV With Post-acute COVID-19 Sequelae After 2 Years of Acute Disease: A Descriptive Study in the Western Brazilian Amazon, Brazil
- P189** Can Obesity Influence the Response of Muscle Oxygenation Kinetics in Long COVID-19 Patients?
- P190** Quantitative Computed Tomography Based Cluster Informed Assessment of Airway Resistance and Particle Deposition in Post-COVID-19 Lungs
- P191** St. George's Respiratory Questionnaire (SGRQ) Based Cluster Analysis of Post-acute COVID-19 Sequelae
- P192** Longitudinal Analysis of Cytokine Profiles and Pulmonary Function in Post-acute Sequelae of SAR-CoV-2 (PASC) Patients

- P193 Ventilatory, Cardiovascular, and Functional Responses During the Six-minute Walk Test 26 Months After Recovery From Severe COVID-19
- P194 Trajectories of Lung Recovery Following COVID-19 in a Prospective Multicentric Cohort Study: Impact of Obstructive Sleep Apnea
- P195 The EXPLAIN (Hyperpolarised Xenon Magnetic Resonance Pulmonary Imaging in Patients With Long-COVID) Study: The Primary Outcome

BEHAVIORAL • CLINICAL • TRANSLATIONAL
THEMATIC POSTER SESSION
C76 SLEEP DISORDERS IN UNCOMMON REALMS

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area C (Hall A-B2, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P298 Adenotonsillectomy Leads to Changes in Cellular Heterogeneity of Peripheral Blood Mononuclear Cells in Children With Obstructive Sleep Apnea
- P299 Adherence to Positive Airway Pressure Therapy in a Pediatric Population With Sleep-disordered Breathing in a City Located at High Altitude in Colombia
- P300 Restless Minds in a Sleepless Dream: Neuropsychiatric and Sleep-related Disorders in Primary Ciliary Dyskinesia
- P301 Pediatric Obstructive Sleep Apnea and Dysphagia: Overlap and Correlations
- P302 Inflammatory Biomarker Levels in Children Residing at High Altitude With Obstructive Sleep Apnea, Asthma, or Both
- P303 Neurophysiological Basis of Respiratory Discomfort Improvement by Mandibular Advancement in Awake OSA Patients

- P304 The Effects of a Probiotic on Nocturnal Oxygen Saturation During the First Night of Acclimatization to High Altitude
- P305 Unlocking Nocturnal Secrets: A Case of Primary Ciliary Dyskinesia, Sleep Apnea, and Sleep-Related Movements
- P306 The Association of Ankylosing Spondylitis and Obstructive Sleep Apnea: A Nationwide Sample 2016-2020
- P307 A Time-frequency Deep Learning Approach for Classification of Transmembranous Electromyography Probe Recordings in Healthy Volunteers and Patients With Obstructive Sleep Apnea and Amyotrophic Lateral Sclerosis
- P308 Predictors of ICU Transfer and Length of Stay in Hospitalized Patients With Amyotrophic Lateral Sclerosis
- P309 Multicenter Prospective Validation of a Clinical Prediction Tool for Respiratory Insufficiency in Amyotrophic Lateral Sclerosis
- P310 Beneficial Effects of a 1 -Month Sleep Educational Program on Sleep, Cognitive, and Physical Performance in Student-Athletes
- P311 Obstructive Sleep Apnoea in Adults With Heart Failure in Jos, Nigeria: Assessment, Prevalence, Associations, and Influence on Clinical Outcomes
- P312 Early Hypoventilation in a Subset of Young Boys With Duchenne Muscular Dystrophy (DMD)

BEHAVIORAL • CLINICAL
THEMATIC POSTER SESSION
C77 NEEDLES AND KNIVES: INVESTIGATING LUNG CANCER DIAGNOSIS AND TREATMENT

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area J (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1067 **Our Experience With Endobronchial Ultrasound-guided Transbronchial Needle Aspiration (EBUS - TBNA); Results in Mediastinal Lymphadenopathy in the VA Caribbean Healthcare System (VACHS) at San Juan, Puerto Rico**
- P1068 **Retrospective Analysis of Operative Outcomes Between Robot-assisted Thoracoscopic Surgery and Video-assisted Thoracoscopic Surgery**
- P1069 **Sensitivity Vs. Diagnostic Yield for Assessment of Guided Bronchoscopy Performance**
- P1070 **Timeliness of Lung Cancer Diagnosis in Veterans: Improving With Robotic Assisted Bronchoscopy**
- P1071 **Navigational Bronchoscopy Yield Compared to Pre-biopsy Nodule Risk Assessment**
- P1072 **Comparing Diagnostic Tool Efficacy for Robot-assisted Electromagnetic Navigation Bronchoscopy: A Comprehensive Single-center Analysis**
- P1073 **Thoracic Magnetic Resonance Imaging Improves Postoperative Chylothorax Management in Thoracic Surgery Patients**
- P1074 **Safe Sampling of Lung Nodules in Patients With Advanced Pulmonary Hypertension Using Robotic Assisted Bronchoscopy**
- P1075 **Report of Radiation Dosimetry Using a Novel Externally Cooled Bronchoscopic Radiofrequency Ablation Catheter**
- P1076 **Comparative Analysis of Post-operative Pain Levels in Robotic Thoracic Surgery Versus Video- Assisted Thoracic Surgery for Lung Cancer: A Retrospective Study**
- P1077 **Thoracentesis Versus Thoracoscopy for Diagnosis of Malignant Pleural Effusion: A Cost-effectiveness Analysis**
- P1078 **The Surgical Cases of Esophageal Squamous Cell Carcinoma and Adenocarcinoma in Shanxi Changzhi Hospital in China: Demographics, Tumor Characteristics, and Surgical Care**
- P1079 **Surgical Outcomes of Synchronous Multiple Primary Lung Cancers With More Than Three Lesions**

CLINICAL

THEMATIC POSTER SESSION

C78 WHAT'S THAT? ATYPICAL AND RARE PRESENTATIONS IN THORACIC ONCOLOGY

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

San Diego Convention Center

Area J (Hall H, Ground Level)

Viewing: Posters will be on display for entire session**Discussion: 11:30-12:30** Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1081 **Beneath the Quiet Surface: The Rare Endobronchial Impact of Benign Pulmonary Hamartoma**
- P1082 **A Bubbly Lesion**
- P1083 **An Unusual Presentation of Teratoma**
- P1084 **Choroidal Metastases in a Patient With Primary Mixed Ductal-lobular Invasive Carcinoma**
- P1086 **A Rare Case of Pulmonary Spindle Cell Neoplasm**
- P1087 **Uncommon Breast Metastasis in PDL1 and EGFR-Positive Non-Small Cell Lung Cancer: A Case Report**
- P1088 **Primary Synovial Sarcoma in the Mediastinum**
- P1089 **A Needle in a Haystack Diagnosis - A Rare Diagnosis of Hodgkin Lymphoma via Endobronchial Biopsy**
- P1090 **A Stable Large Mediastinal Germ Cell Tumor Causes Rapidly Progressive Mass Effect**
- P1091 **A Case of a Rare Middle Mediastinal Mass**
- P1092 **A Rare Presentation of Large B-cell Lymphoma With Anterior Mediastinal Mass in a 24-year-old Female**
- P1093 **Pulmonary Metastasis 19 Years After Thymoma Resection**
- P1094 **The Largest Recorded Leiomyosarcoma of the Lung**
- P1095 **Rare but Not Forgotten: A Case of Pulmonary Kaposi Sarcoma in the Era of Antiretroviral Therapy**
- P1096 **A Case Report: The Diagnostic and Therapeutic Dilemma of the Highly Rare Diagnosis of Primary Pulmonary Synovial Carcinoma During Pregnancy**

- P1097 **A Rare Case of Primary Endobronchial Schwannoma: A Case Report**
- P1098 **Pulmonary Origin of Metastatic Melanoma: Revisiting the Role of Imaging and Immunohistochemistry**
- P1099 **A Rare Case of Intrapulmonary Mature Teratoma**
- P1100 **Navigating the Uncharted: Primary Pulmonary Carcinosarcoma With Metastasis Treated With Induction Chemotherapy**
- P1101 **More Than Meets the Eye - A Case of Erdheim-Chester Disease**
- P1102 **That's Nuts: A Case of Successfully Treated Locally Advanced Nut Midline Carcinoma**
- P1103 **Malignant Melanoma Originating in the Lungs as the Primary Tumor**
- P1104 **Incidental Giant Water-Clear Cell Parathyroid Adenoma**
- P1105 **Unraveling a Mediastinal Mass Enigma: A Rare Case of Young Adult Presenting With Thymoma**
- P1106 **A Missed Mass: An Exceedingly Rare Round Cell Sarcoma Leading to Respiratory Failure in a 19-year-old**
- P1107 **Pulmonary Metastasis From Type Ab Thymoma**
- P1108 **An Unexpected Finding: A Progressive Case of Thoracic Sarcoma**
- P1109 **Hidden in Plain Sight: A Case of Diffuse Idiopathic Pulmonary Neuroendocrine Cell Hyperplasia**
- P1110 **Infantile-Onset Recurrent Respiratory Papillomatosis Progressing to Pulmonary Papillomatosis and Transforming to Locally Invasive Mass**
- P1111 **Lymphangitic Carcinomatosis, A Rare Phenomenon**
- P1112 **Extensive Stage Small Cell Lung Carcinoma With Leptomeningeal Metastases Diagnosed on Routine Lung Cancer Screening**
- P1113 **Endobronchial Chondroma: A Very Rare Benign Tumor of the Lung**
- P1114 **Aids-Associated Kaposi Sarcoma: A Rare Case of Diffuse Life-Threatening Visceral Kaposi Sarcoma Lesions**
- P1115 **A Case of Incidental Ancient Giant Cell Schwannoma of Posterior Mediastinum With Hemothorax**
- P1116 **Three Lung Squamous Cell Carcinomas Patients Positive for BRAF V600E Mutation**
- P1117 **Squamous Cell Carcinoma of the Lung Presenting as an Ulcerated Fungating Skin Lesion**
- P1118 **Sternal Hemangioma: Benign Chest Wall Mass**
- P1119 **When Cancer Cheats - Metastatic Adenocarcinoma Masquerading as Pulmonary Sarcoidosis**
- P1120 **An Unusual Histology for a Lung Lesion: A Case Report of an Asymptomatic Primary Pulmonary Paraganglioma**
- P1121 **A Rare Occurrence of Metastatic Disease to the Lung in Oculocutaneous Albinism**
- P1122 **Mucoepidermoid Tumors of the Lung: Emerging From the Shadows of Medical Literature**
- P1123 **Pulmonary Sarcomatoid Carcinoma - A Rare and Atypical Case**
- P1124 **Duodenal Metastasis From Lung Squamous Cell Carcinoma: A Rare Presentation and Diagnostic Challenge**
- P1125 **Primary Pulmonary Biphasic Synovial Sarcoma - A Case Report**
- P1126 **A Case of Primary Cardiac Lymphoma**
- P1127 **Mediastinal Mass Causing Mass Problems**
- P1128 **Salivary Gland Tumors: Frothing to the Trachea and Pleura**
- P1129 **Unmasking the Elusive: A Rare Encounter With a Mediastinal Schwannoma**
- P1130 **The Multiple Faces of a Unique Cancer: A Case of Mucinous Adenocarcinoma**
- P1131 **Exploring a Rare Malignant Lung Cancer - Primary Pulmonary Leiomyosarcoma: An Intriguing Case Report**
- P1132 **Small, Round, Blue: A Rare Lung Tumor Not To Miss**
- P1133 **Breathtaking Intrathoracic Rhabdoid Tumor**
- P1134 **A Race Against Time; Rare Case of Rapidly Encasing Metastatic Small Cell Carcinoma to Lymph Node With High Mutation Burden**

CLINICAL

THEMATIC POSTER SESSION

C79 INFECTIONS AND CRITICAL ILLNESS: CHALLENGES IN THORACIC ONCOLOGY

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area J (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees.

- P1136 All That Glitters Is Not Gold: A Story of False Positive Acid Fast Bacilli (AFB) Smear Testing
- P1137 Cavitating Lung Lesions Secondary to Adenocarcinoma Misdiagnosed as Septic Emboli
- P1138 The Unusual Case of a Primary Clear Cell Sarcoma of the Lung With Superimposed Actinomycosis
- P1139 The Masquerader: A Rare Case of Adenocarcinoma Lung Presenting as Chronic Pulmonary Aspergillosis in a Young Male: Non-Resolving Pneumonia
- P1140 A Rare Case of Pulmonary Mucoepidermoid Carcinoma Manifesting as Recurrent Post-obstructive Pneumonia
- P1141 Is Osimertinib the New Medical ICU Miracle Drug? The Role of Osimertinib in Critical Illness for Patients With Metastatic EGFR Mutated Lung Cancer
- P1142 Primary Endobronchial Leiomyoma: An Unusual Case of Post-Obstructive Pneumonia
- P1143 The Veillonella Revelation: A Case of Unmasking Lung Cancer Through Microbial Clues
- P1144 A Rare Mimic of Non-resolving Pneumonia
- P1145 A Curious Case of Diffuse Alveolar Hemorrhage (DAH): Primary Adenocarcinoma of the Lung With Superimposed Coccidioidomycosis Infection
- P1146 "Lazarus Response" Upon Initiation of Targeted Oncogenic Therapy for Acute Respiratory Failure in Rapidly Progressive ALK-Positive Pulmonary Adenocarcinoma

- P1147 Looking Through the Ground Glass: A Rare Cause of Hypoxia in the ICU
- P1148 Seven Days in the ICU; The Profound Storm of a Proliferative Disease
- P1149 Rosai Dorfman's Disease Mimicking Tuberculosis - A Case Report
- P1150 An Unusual Case of Lung Adenocarcinoma Mimicking Tuberculosis
- P1151 A Case Report of Severe Lung Cancer Complicated with Severe Infection
- P1152 TB or Not TB
- P1153 Cancer in Disguise: Poorly Differentiated Carcinoma With Rhabdoid Features Masquerading as Aspergillosis

CLINICAL

THEMATIC POSTER SESSION

C80 THORACIC COMPLICATIONS OF CANCER DRUGS AND IMMUNOTHERAPIES

9:15 a.m. - 4:15 p.m. San Diego Convention Center
Area J (Hall H, Ground Level)

Viewing: Posters will be on display for entire session

Discussion: 11:30-12:30 Discussion with facilitators, authors, and attendees
12:30-1:15 Authors will be by their posters for individual discussion with attendees

- P1155 Spontaneous Pneumomediastinum in a Fatal Case of Immune Checkpoint Inhibitor-Related Pneumonitis
- P1156 No Action Without Side Effects; Casodex Induced Lung Injury
- P1157 CAR-T Party in the Lungs: A Case of Immune-Mediated Pneumonitis
- P1158 Recurrent Pleural Effusions and Evidence of Pulmonary Arterial Hypertension on Bosutinib in a CML Patient Previously Treated With Dasatinib Therapy
- P1159 A Case of Trastuzumab-deruxtecan Induced Eosinophilic Pneumonia

- P1160 Hemoptysis and Thrombocytopenia in a Patient With Metastatic Lung Adenocarcinoma on Selpercatinib: A Diagnostic and Therapeutic Challenge**
- P1161 Timing Is Everything, Early Detection in Bleomycin-Induced Pneumonitis: A Case Report**
- P1162 A Case of Durvalumab-induced Pneumonitis**
- P1163 E-cigarette or Vaping-Associated Lung Injury (EVALI) With Incidental Discovery of Mediastinal Ganglioneuroma**
- P1164 Unexpected Revelation: Stage 4 Lung Cancer Mimicking Coal Worker's Pneumoconiosis**
- P1165 Crizotinib Induced Bradycardia in a Patient With ALK Positive Non Small Cell Lung Cancer**
- P1166 A Case of Sarcomatoid Carcinoma Presenting in the Setting of Anastrozole Use**

MEDICAL EDUCATION SEMINAR

ME103 INFLUENCE, INSPIRE, INNOVATE: DEVELOPING LEADERSHIP SKILLS ACROSS HEALTHCARE DISCIPLINES

 Pre-registration and additional fee required. Attendance is limited.
\$100 Member/Non-Member

10:30 a.m. - 11:30 a.m. Marriott Marquis San Diego Marina
Marina Ballroom E (Level 3, South Tower)

Target Audience

All Health Professionals at any level of training (student, trainee, and faculty), including: Research Scientists, Dietitians, Pharmacists, Respiratory Therapists, Rehabilitation Therapists, Nurses, Advanced Practice Providers, and Physicians.

Objectives

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

- develop an appreciation for personal leadership development and its crucial role in achieving personal and professional objectives
- cultivate best practices for identifying and enhancing essential leadership skills needed to flourish in your current and future roles
- identify and commit to the development of two specific leadership skills utilizing an individualized leadership development plan

Recognizing that in medicine leadership is often "accidental" with technical expertise rather than leadership skills and experience often guiding promotion, this session will focus on developing effective leadership skills for health professionals across all disciplines and at any career stage. We aim to: (1) Demonstrate the tangible advantages of fostering individual leadership growth, including increased team performance, improved patient care, and greater career satisfaction. (2) Explore core leadership skills such as effective communication, emotional intelligence, and decision-making. (3) Present proven strategies for health professionals, which will allow them to identify and develop the specific leadership skills required to flourish in their present and future roles.

SPS7 THE UNTOLD STORY OF THE NURSES WHO HELPED CURE TUBERCULOSIS

10:30 a.m. - 11:30 a.m. San Diego Convention Center

Room 28A-B (Upper Level)

10:30 Welcome and Introduction

10:35 Black Nurses, Tuberculosis and Sea View Hospital



11:45 a.m. - 1 p.m.

PLENARY SESSION

San Diego Convention Center
Ballroom 20 B-D (Upper Level)

Plenary session will feature Journal of Zoo and Wildlife Medicine's Editor in Chief, veterinarian, Nancy Lung VMD, MS, and pediatric and adult pulmonologist at National Jewish Health and International Conference Committee Chair-elect, Jennifer Taylor-Cousar, MD, MSCS, ATSF discussing their work with Orangutans and respiratory health.

ATS President, Dr. M. Patricia Rivera, MD, ATSF, and International Conference Committee Chair, Dr. Debra Boyer, MD, MHPE, ATSF, will moderate this interview style discussion, "Saving the People of the Forest, One Chocolate Bar and One Nebulizer Treatment at a Time".

Dr. Lung and Dr. Taylor-Cousar will discuss how observation of disease presentation and response to prescribed therapeutic intervention in orangutans may provide new insights relevant to human chronic airway disease. Orangutans are 97% homologous to humans. Due to their relatedness, orangutans can contract human respiratory pathogens, resulting in acute and chronic airway disease.

The deforestation of millions of acres of rainforest to grow trees that produce palm oil is impacting their environment in a way that is resulting in their extinction. As one of our closest relatives, the impact on their environment affects us all. Through conservation efforts and use of medical treatments used in human lung disease, Drs. Lung and Taylor-Cousar

will discuss how we can improve the likelihood of the survival of orangutans as a species, and the environment that affects respiratory health.

The Plenary Session also will include the ratification of the bylaws, 2024-2025 slate of officers as well as remarks from outgoing president M. Patricia Rivera, MD, ATSF, and incoming president Irina Petrache, MD, ATSF.

In addition, the following awards will be presented, including:

- Outstanding Educator Award
- Research Innovation & Translation Award
- Outstanding Clinician Award
- Philip Hopewell Prize for Leaders in Global Respiratory Health

Plenary Session Keynote Speaker

Nancy Lung, VMD

Jennifer Taylor-Cousar, MD, MSCS, ATSF

ADULT CLINICAL CORE CURRICULUM

CC5 ADULT CRITICAL CARE CLINICAL CORE CURRICULUM

2:15 p.m. - 3:45 p.m.

San Diego Convention Center

Ballroom 20B-D (Upper Level)

Target Audience:

All attendees

Objectives

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

- discuss the management of unstable arrhythmias in people admitted to the intensive care unit
- describe current approaches to addressing hemodynamic instability in the intensive care unit including vasopressors, inotropes and mechanical support
- explain the clinical evaluation prior to starting ECMO and basic troubleshooting for issues that arise during its use

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 "The Rhythm is Gonna Get You": Managing Unstable Arrhythmias in the ICU**
- 2:40 "Under Pressure": Use of Vasopressors for Hemodynamic Support**
- 3:10 "Total Eclipse of the Heart": Management of PE and RV Failure**
- 3:35 Question and Answer**

CLINICAL

CLINICAL TOPICS IN PULMONARY MEDICINE

C81 CURRENT AND EVOLVING STRATEGIES FOR MANAGEMENT OF PULMONARY SARCOIDOSIS

Assembly on Clinical Problems

2:15 p.m. - 3:45 p.m. Marriott Marquis San Diego Marina

Pacific Ballroom 21-22 (Ground Floor, North Tower)

Target Audience

All providers including physicians, trainees, allied health professionals and advanced practice providers who care for patients with sarcoidosis.

Objectives

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

- describe the health disparities that persist in the field of sarcoidosis
- review recent insights on pathophysiology of pulmonary sarcoidosis
- discuss available therapeutic options and future research in pulmonary sarcoidosis and advanced pulmonary sarcoidosis

The majority of patients with pulmonary sarcoidosis have a good prognosis but a small subset progress to severe disease described as Advanced Pulmonary Sarcoidosis (APS). The variable nature of this disease and lack of understanding of the reasons of this variability make management of pulmonary sarcoidosis challenging. There needs to be better recognition of different (and especially progressive and severe) disease patterns and effective management strategies of pulmonary sarcoidosis and APS. We will discuss current

understanding of (and knowledge gaps in) disease mechanisms, recent advances in management and ongoing/ future research endeavors on pulmonary sarcoidosis and APS.

- 2:15 Demographics and Disparities in Pulmonary Sarcoidosis**
- 2:30 Inflammation and Anti-Inflammatory Treatment in Pulmonary Sarcoidosis**
- 2:45 Fibrosis in Pulmonary Sarcoidosis**
- 3:00 Sarcoidosis Associated Pulmonary Hypertension (SAPH)**
- 3:15 Lung Transplantation and Holistic Care in APS**
- 3:30 Panel Discussion and Q/A Session 1**
- 3:35 Panel Discussion and Q/A Session 2**
- 3:40 Panel Discussion and Q/A Session 3**

CLINICAL • TRANSLATIONAL

CLINICAL TOPICS IN PULMONARY MEDICINE

C82 PRO CON DEBATE ON PROGRESSIVE PULMONARY FIBROSIS: IMPROVING UNDERSTANDING OF A DISEASE PHENOTYPE

Assembly on Clinical Problems

2:15 p.m. - 3:45 p.m. Marriott Marquis San Diego Marina

Grand Ballroom 8-9 (Lobby Level, North Tower)

Target Audience

ILD clinicians, physician-scientists, and clinical and industry trialists

Objectives

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

- understand and discuss the impact of PPF in clinical care
- understand and discuss the extent to which precision medicine can predict or allow for early identification of PPF
- understand the benefits and challenges of defining clinical trial populations using the PPF phenotype

Progressive pulmonary fibrosis (PPF) designates a subset of fibrotic ILDs with a shared phenotype - characterized by irreversible progression, worsening respiratory symptoms, declining lung function, and premature mortality. PPF was included in the most recent international clinical practice guidelines and has been used as inclusion criteria in clinical

studies. Undoubtedly, PPF is shaping the ILD clinical and research landscape - and yet there is limited consensus on how it should be defined, identified, or applied. In this scientific session, we propose a Pro-Con debate designed to evaluate the evolutionary state of PPF with the goal of identifying areas of consensus and controversy that should guide future investigation and application.

- 2:15 Progressive Pulmonary Fibrosis: Taking Stock**
- 2:20 Pro: PPF - Is It a Meaningful Diagnosis?**
- 2:29 Con: PPF - Is It a Meaningful Diagnosis?**
- 2:38 Audience Discussion and Debate**
- 2:47 Pro: Can Precision Medicine Predict PPF? Are We There Yet?**
- 2:56 Con: Can Precision Medicine Predict PPF? Are We There Yet?**
- 3:05 Audience Discussion and Debate**
- 3:14 Pro: Should the PPF Designation Be Used for Future ILD Clinical Trial Design?**
- 3:23 Con: Should the PPF Designation Be Used for Future ILD Clinical Trial Design?**
- 3:32 Audience Discussion and Debate**
- 3:41 Progressive Pulmonary Fibrosis: Where Do We Go From Here?**

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

CRITICAL CARE TRACK

**C83 WHEN SEPSIS GOES VIRAL:
RECONSIDERING SEPSIS IN THE
POST-COVID ERA**

**Assemblies on Critical Care; Clinical Problems; Pediatrics;
Pulmonary Infections and Tuberculosis**

2:15 p.m. - 3:45 p.m. San Diego Convention Center

Room 24A-C (Upper Level)

Target Audience:

All who care for patients with sepsis and/or research sepsis epidemiology, outcomes, pathophysiology, and/or treatments

Objectives

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

- define the contribution of viral pathogens to the overall burden of sepsis and describe challenges in applying traditional methods of sepsis surveillance to identify viral sepsis
- discuss intersection between existing sepsis phenotyping efforts and viral sepsis for understanding pathophysiology of sepsis and implications for previous and future interventional trials
- describe implications of viral sepsis for current sepsis treatment protocols and potential need for policy change to address one-size-fits-all approach to sepsis

Sepsis is the syndrome of life-threatening organ dysfunction caused by a dysregulated host response to infection. While all consensus definitions of sepsis have been agnostic to the type of pathogen which triggers this host response, clinicians, policymakers, and researchers have historically equated sepsis primarily with bacterial infections. The SARS-CoV-2 pandemic raised awareness that viral infections are (and always have been) important contributors to the total burden of sepsis for both adults and children, with important implications for the understanding of sepsis epidemiology, pathophysiology, and ideal treatment approaches.

- 2:15 Introduction**
- 2:21 Undercounted: Best Estimates and Challenges in Measuring the Burden of Viral Sepsis**
- 2:35 Overtreated: Reconciling Viral Sepsis with Surviving Sepsis**
- 2:49 Undifferentiated: Causative Pathogen Type as Potential Key to Unpacking Sepsis Heterogeneity**
- 3:03 Dysregulated: How the Immune Response Varies in Viral vs Bacterial Sepsis and What it Means for Immunomodulating Therapies**
- 3:17 A Trialist's Dilemma: Enroll or Exclude?**
- 3:31 Lessons from Littles: What We Can Learn from Pediatric Sepsis, Where Viruses Have Long Ruled**

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

C84 NOVEL AND NEGLECTED ENVIRONMENTAL EXPOSURES AND LUNG HEALTH

Assemblies on Respiratory Structure and Function; Environmental, Occupational and Population Health; Respiratory Cell and Molecular Biology

2:15 p.m. - 3:45 p.m. San Diego Convention Center

Room 6D (Upper Level)

Target Audience

Pulmonologists, environmental scientists, occupational medicine specialists, basic and clinic public health professionals

Objectives

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

- understand the various types of novel environmental and occupational exposures affecting lung health and the cellular and molecular mechanisms underlying their damaging effects
- describe new findings about detection of exposure and lung damage to inhaled toxicants using novel screening and imaging techniques
- more appropriately refer or counsel patients earlier on the basis of increased knowledge of the risks and consequences of environmental and occupational exposures

This symposium will highlight the impact of environmental exposures to various inhaled toxins and pollutants, describing the mechanisms underlying their toxicity and potential for initiating or exacerbating lung diseases. The speakers will focus on the risks and consequences of exposure to respirable silica, wildfire smoke and microplastics for both exposed workers and the wider community, highlighting the disparities between high, middle and low income countries. This session will also explore preventative measures, regulatory strategies, and novel approaches for surveillance of those exposed and at risk of environment-induced respiratory conditions.

2:15 Engineered Stone Dust: A Lot of Silica and More

2:30 Are Airborne Microplastics the New Threat to Our Lungs?

2:45 Effects of Pollution Caused by Burning Sugar Cane and Forest Fires on Health - Evidence from Brazilian Research

3:00 Environmental Exposures Adding to the Burden of Existing Lung Disease

3:15 Monitoring the Environment and Biomonitoring Workers for Ultrafine Particle Exposure

3:30 The Challenge of Detecting Small Airways Disease Associated with Deployment

CLINICAL

SCIENTIFIC SYMPOSIUM

C85 ATS DOCUMENTS: ADVANCING AND IMPROVING CLINICAL PRACTICE

Assemblies on Behavioral Science and Health Services Research; Clinical Problems; Critical Care; Sleep and Respiratory Neurobiology; This proposal is jointly sponsored by the PRS and the Quality Improvement and Implementation Committee chairs.; Documents Development and Implementation Committee

2:15 p.m. - 3:45 p.m. San Diego Convention Center

Room 8 (Upper Level)

Target Audience

Physicians, Nurses, Respiratory therapists, Educators, Trainees

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 recommendations from recently published clinical practice guidelines
- learn new strategies to approach: scleroderma-related interstitial lung disease, pediatric obstructive sleep apnea following adenotonsillectomy, the management of ARDS, as well as time-limited trials in critical care

This session is proposed as the 9th annual scientific symposium highlighting ATS documents, with a focus on clinical practice guidelines, as requested by the ATS Executive Committee. This year's symposium will highlight the following guidelines: Management of ARDS, Treatment of Scleroderma-related Interstitial Lung Disease, and Pediatric OSA following Adenotonsillectomy. Additionally, the symposium will highlight the following workshop report: Defining Time-Limited Trials in Critical Care. Speakers will describe how ATS documents provide the foundation for advancing and improving clinical practice.

2:15 Welcome and Introduction

2:20 Clinical Practice Guideline Methodology

- 2:25 **ATS Clinical Statements: A New Document Type**
- 2:35 **Clinical Practice Guideline: Management of ARDS (1)**
- 2:42 **Clinical Practice Guideline: Management of ARDS (2)**
- 2:50 **Clinical Practice Guideline: Treatment of Scleroderma-Related Interstitial Lung Disease**
- 3:05 **Clinical Practice Guideline: Pediatric Obstructive Sleep Apnea following Adenotonsillectomy**
- 3:20 **Workshop Report: Defining Time-Limited Trials in Critical Care**
- 3:35 **Implementation of Clinical Practice Guidelines**

TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

C86 PULMONARY REHABILITATION - KEEPING THE WHEEL ROLLING FORWARD

Assembly on Pulmonary Rehabilitation

2:15 p.m. - 3:45 p.m. San Diego Convention Center

Room 6B (Upper Level)

Target Audience

Practitioners involved in chronic respiratory disease care across the spectrum of disciplines of medicine, nursing and allied health.

Objectives

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

- identify the barriers, both physical and psychological, for people in engaging with pulmonary rehabilitation
- critically review current practice in pulmonary rehabilitation for addressing barriers to participation
- creatively consider new potential directions for pulmonary rehabilitation

Pulmonary rehabilitation is impactful in improving health outcomes for diverse people with chronic respiratory conditions, with exercise being the core. However, patient participation rates remain sub-optimal and an inability to engage patients in positive behavior change remains a challenge. A re-conceptualization of pulmonary rehabilitation may be the next step in addressing this issue. The core of exercise becomes the hub while future orientated allied health and nursing approaches are the complementary "spokes" and design for accessibility that are a wraparound "rim". This symposium will explore the evidence for

new strategies and support clinicians to create a futuristic model for pulmonary rehabilitation.

- 2:15 **From the Patient's Perspective**
- 2:20 **A New Wheel is Needed to Move PR Forward - Defining a Hub and Spoke Model for PR**
- 2:30 **The Breadth and Depth of Nursing and Allied Health for Pulmonary Rehabilitation**
- 2:45 **Cognitive Behavioral Therapy and Motivational Interviewing for Deeper Engagement in Rehabilitation**
- 2:55 **Education and Empowerment for Self-Management**
- 3:05 **Completing the Wheel with the Rim - Designing for Digital and Health Literacy**
- 3:15 **Completing the Rim - Designing for Accessibility and Appeal**
- 3:25 **Futuristic Wheels - What Alternatives Could Be the Next Frontier?**
- 3:30 **Panel Discussion**

TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

C87 MACHINE LEARNING IN PEDIATRIC PULMONOLOGY

Assemblies on Pediatrics, Respiratory Cell and Molecular Biology

2:15 p.m. - 3:45 p.m. Marriott Marquis San Diego Marina

Grand Ballroom 2-4 (Lobby Level, North Tower)

Target Audience

Researchers and clinicians

Objectives

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

- understand how machine learning can help define disease process
- learn about previous studies which have used machine learning approaches in the field of pediatric pulmonology
- understand pros and cons of these approaches in the field of pediatric pulmonology

The goal of this session would be to understand how machine learning tools can be used to better understand disease

phenotype in neonates and children. A number of basic studies are based on being able to better identify patient populations and understand disease severity. This session will focus on tools to help researchers with the same. We will demonstrate how advanced machine learning has been used in pulmonary disease such as asthma and BPD.

- 2:15 **Discovering Pediatric Asthma Phenotypes Using Machine Learning**
- 2:35 **Developing Artificial Intelligence Technology For Pediatric Pulmonology: Lessons from COVID-19.**
- 2:55 **Machine Learning in BPD**
- 3:15 **Innovations in Health Information Technologies for Chronic Pulmonary Diseases**
- 3:35 **Discussion**

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

C88 HEALTH EQUITY ACROSS PEDIATRIC PULMONARY DISEASES

Assembly on Pediatrics

2:15 P.M. - 3:45 P.M. San Diego Convention Center

Room 6C-F (Upper Level)s

Target Audience

Providers of pediatric lung health, all health equity researchers

Objectives

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

- describe how a wide range of factors (social, environmental, healthcare, genetic) contribute to health disparities in patient outcomes in pediatric pulmonary diseases, such as BPD, CF, asthma, sickle cell disease
- integrate new guidelines on using race and ethnicity in PFTs into clinical practice and research
- improve patients' outcomes and quality of life by addressing factors known to contribute to health disparities in pediatric pulmonary diseases

Health disparities exist across many pulmonary diseases occurring in children. Speakers will address the latest health disparities research and how we move to equity for all pediatric lung diseases. This will discuss social determinants of health, structural and environmental factors, healthcare system, and biological factors contributing to disparities in many pediatric lung diseases.

- 2:15 **Session Introduction**
- 2:20 **Social Determinants of Health in Pediatric Lung Diseases**
- 2:35 **Structural Neighborhood and Environmental Factors Contributing to Disparities**
- 2:50 **How the Healthcare System Creates Disparities**
- 3:05 **Disparities Down To Epigenetics and Beyond**
- 3:20 **Where Do We Go Next? Achieving Health Equity in all Pediatric Pulmonary Diseases**
- 3:40 **A Call For Action To Achieve Health Equity**

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

C89 HIV-RELATED LUNG DISEASE: UPDATES IN PATHOPHYSIOLOGY, CLINICAL TRIALS AND FUTURE DIRECTIONS

Assemblies on Pulmonary Infections and Tuberculosis; Allergy, Immunology and Inflammation; Environmental, Occupational and Population Health

2:15 p.m. - 3:45 p.m. San Diego Convention Center

Room 30A-B (Upper Level)

Target Audience

Providers of lung health, particularly those who provide clinical care for people living with HIV; basic, clinical and translational researchers with a focus on HIV-related lung disease; global health agencies and stakeholders

Objectives

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

- understand the epidemiology of HIV-related lung disease across the spectrum of high and low/middle-income countries and how these differences may impact priorities for research and practice in improving the lung health of people living with HIV
- integrate recent findings related to the pathophysiology and management of HIV-related lung disease
- apply specific recommendations unique to providing care to improve the lung health of people living with HIV

Lung disease is one of the most important and prevalent complications of HIV. This session will provide updates on the: 1)

epidemiology of HIV-related lung disease with a focus on differences between high and low/middle-income countries; 2) pathophysiologic mechanisms of HIV-related lung disease, including the disproportionate impact of smoking on lung health in HIV; 3) RCTs in HIV-related lung disease, including the ongoing DEPTH Trial; 4) clinical considerations in the pulmonary care of people with HIV; and 5) future directions for research and research priorities.

- 2:15 HIV-Related Lung Disease Epidemiology: A Global Perspective**
- 2:27 Smoking and HIV-Related Lung Disease: Why Is It So Much Worse?**
- 2:39 Pathobiology of HIV and HIV-Associated Influences on Lung Disease**
- 2:51 RCTs in HIV-Related Lung Disease: DEPTH and Other RCTs**
- 3:03 Clinical Considerations When Caring for People with HIV and Lung Disease**
- 3:15 The NHLBI Perspective on the Future of HIV and Lung Disease**
- 3:27 Q&A**

BEHAVIORAL • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

C90 STATE OF THE SCIENCE ON ICU DELIRIUM

Assemblies on Critical Care; Behavioral and Health Services Research

2:15 p.m. - 3:45 p.m. **Marriott Marquis San Diego Marina**

Grand Ballroom 5-6 (Lobby Level, North Tower)

Target Audience

ATS attendees from all disciplines who care for patients in the ICU or after discharge from the ICU (i.e., in the hospital or in the outpatient setting)

Objectives

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

- describe the current understanding of delirium research related to detection, prevention and treatment to facilitate understanding of the past and present state of delirium research and clinical care

- explore existing controversies in delirium research and clinical care and describe novel data from studies advancing the of delirium detection, prevention, and treatment
- improve attendees' perspective of delirium and its long-term consequences through the perspective of a survivor of critical illness and emerging long-term data

Delirium in ICU patients is strongly associated with adverse outcomes, including increased mortality, longer lengths of stay, poor long-term functional outcomes, and long-term cognitive impairment. Substantial progress has been made in the of delirium in recent years. This session will feature new data on long-term outcomes from a landmark study of delirium in ICU patients, novel methods for delirium detection, a patient perspective, a world leader in aging research, and a discussion of recent delirium trials to provide a high-yield update on the state of the in ICU delirium.

- 2:15 The 30,000 Foot View: the Past, Present, and Future of Delirium Research**
- 2:30 The Lived Experience of Delirium**
- 2:42 Advancing of the Science of Delirium Detection**
- 2:54 Critical Care Trials in ICU Delirium: New Evidence and the Path Forward**
- 3:06 Rethinking Nonpharmacologic Prevention and Treatment for ICU Delirium**
- 3:18 Long-Term Outcomes After ICU Delirium: 10-Year Follow-Up from the BRAIN-ICU Study**
- 3:30 Panel Discussion**

BEHAVIORAL • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

C92 SUBSTANCE USE DISORDERS IN PULMONARY, CRITICAL CARE, AND SLEEP MEDICINE

Assemblies on Allergy, Immunology and Inflammation; Behavioral and Health Services Research; Critical Care; Environmental, Occupational and Population Health; Nursing; Pediatrics; Pulmonary Infections and Tuberculosis; Pulmonary Rehabilitation; Respiratory Cell and Microbiology

2:15 p.m. - 3:45 p.m. **San Diego Convention Center**

Room 32A-B (Upper Level)

Target Audience

Pulmonologists, Critical Care Physicians, Sleep Physicians, Nurses, Pharmacists,, Behavioral Specialists.

Objectives

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

- describe new findings about the changing epidemiology of recreational drug use, and better understand the causes of increasing morbidity and mortality related to drug use in the U.S. and abroad
- identify the impact that various recreational drugs have on pulmonary health, sleep quality/quantity, and critical care medicine
- define new strategies for respiratory health providers to manage the care of patients with substance use disorders through harm reduction approaches and advocacy

This interdisciplinary session including pulmonary, critical care, and sleep physicians and representatives from nursing, psychiatry, pediatrics, and local community advocacy will highlight the various ways that drug use impacts respiratory health. It includes a series of talks on the impact of substance use on the airways, the pulmonary vasculature, sleep, and the way that substance use impacts critical care medicine. Speakers will also focus on the changing epidemiology of various recreational substances including marijuana, methamphetamine, opiates/opioids, and cocaine. Panel experts will then discuss ways we as respiratory health providers can combat substance use disorders through harm reduction approaches and advocacy.

- 2:15 Patient Perspective: Developing Lung Disease from Recreational Drug Use**
- 2:21 The Impact of Recreational Drugs and Vaping on the Airways**
- 2:33 The Impact of Recreational Drugs on the Pulmonary Vasculature**
- 2:45 The Impact of Substance Use in the Intensive Care Unit**
- 2:57 The Impact of Recreational Drugs and Opiate Use Disorders and Sleep**
- 3:09 A Harm Reduction Approach to Recovery from Substance Use Disorders**
- 3:21 Advocacy for Drug Reform on a Local and State Level**
- 3:33 Panel Discussion/Questions**

BEHAVIORAL • CLINICAL**MINI SYMPOSIUM****C93 ADVANCES IN HEALTH SERVICES RESEARCH IN SLEEP MEDICINE**

2:15 p.m. - 4:15 p.m.

San Diego Convention Center

Room 2 (Upper Level)

Oral Presentations:

- 2:15 A U-shaped Relationship Between All-cause Mortality and Apnea Hypopnea Index: A Large National Retrospective Study**
- 2:27 Disturbed Sleep Is Associated With Worse Patient-reported Outcomes and Chronic Lung Allograft Dysfunction After Lung Transplantation**
- 2:39 Adherence to Glucagon-like Peptide-1 Receptor Agonists (GLP-1s) in Obstructive Sleep Apnea Patients With and Without Type 2 Diabetes**
- 2:51 Changes in Self-reported Sleepiness and 5-year All-cause Mortality Risk Among Veterans**
- 3:03 Self-efficacy Is an Independent Predictor of One-year CPAP Adherence Trajectories**
- 3:15 Geospatial Mapping to Understand Sleep Study Compliance Post Hospital Discharge in the Appalachia**
- 3:27 Osass Score for Obstructive Sleep Apnea Screening: A More Accurate Score for Asian Adults**
- 3:39 Investigating Sensitivity and Specificity of Stop-bang Questionnaire in Assessing Sleep Apnea Risk in People Experiencing Homelessness**
- 3:51 Co-design and Co-implementation of a Study for Subjective Assessment of Sleep Apnea and Its Confounders in People Experiencing Homelessness**
- 4:03 Reducing Sleep Disparities: Results of a Pilot Randomized Control Trial of an Integrated Sleep Hygiene and Mind-body Integrative Health Intervention for Urban Adolescents**

BEHAVIORAL • CLINICAL

MINI SYMPOSIUM

C94 ASTHMA QUALITY IMPROVEMENT, HEALTH SERVICES RESEARCH, AND DISPARITIES

2:15 p.m. - 4:15 p.m. San Diego Convention Center
Room 28A-B (Upper Level)

Oral Presentations:

- 2:15 Utilization of Single Maintenance and Reliever Therapy (SMART) for Moderate and Severe Asthma
- 2:27 Development of a Patient-Centered Asthma Action Plan for Single Maintenance and Reliever Therapy (SMART)
- 2:39 Association Between Industry Payments and Prescription of Inhaled Medications: An Observational Analysis of Open Payments and Medicare Part D Data
- 2:51 Differences in Reported Use of Inhaled Corticosteroids in Hispanic Adults With Asthma: Findings From the 2014-2020 U.S. Asthma Call Back Survey
- 3:03 Unveiling the Real-World Causal Interaction of Essential Risk Factors in Severe Asthma Exacerbation: A Bayesian Network Analysis
- 3:15 Both Moderate-Intensity and Vigorous-Intensity Aerobic Exercise Training Are Associated With Clinical Improvements in Asthma
- 3:27 Physical Activity Variability and Lung Function in Urban Children With Asthma
- 3:39 Individual and System-level Determinants of Caregiver's Quality of Life Among Inner-city Preschool Children With Asthma
- 3:51 Identification of Barriers to Seeing a Healthcare Provider Among Rural Adolescents With Poorly Controlled Asthma
- 4:03 Out-of-Pocket Prescription Drug Savings for Medicare Beneficiaries With Obstructive Lung Disease Under the Inflation Reduction Act

CLINICAL

MINI SYMPOSIUM

C95 NEW CLINICAL TRIAL RESULTS IN CHRONIC LUNG DISEASE

2:15 p.m. - 4:15 p.m. San Diego Convention Center
Ballroom 20A (Upper Level)

Oral Presentations:

- 2:15 Zinpentrxin Alfa in Patients With Idiopathic Pulmonary Fibrosis: Results and Learnings From the Phase III STARSCAPE Trial
- 2:27 The Bisoprolol in COPD Study (BICS): A UK Randomized Controlled Trial of Bisoprolol in People With COPD at Risk of Exacerbation
- 2:39 Pamrevlumab for Idiopathic Pulmonary Fibrosis: Results of the Phase 3 Zephyrus-1 Study
- 2:51 Ensifentrine Added on to LAMA Therapy Improved Lung Function and Reduced Exacerbations in Symptomatic Subjects With Moderate-to-Severe COPD
- 3:03 Effect of BMS-986278, An Oral LPA1 Antagonist, on Time to Disease Progression in Patients With Pulmonary Fibrosis: A Post Hoc Analysis of Data From a Phase 2 Randomized Trial
- 3:15 Beta-blocker Use and Clinical Outcomes in Patients With COPD and Acute Myocardial Infarction: Results From the BLOCK-COPD Observational Study
- 3:27 Inhaled Nitric Oxide in Fibrotic Lung Disease: A Randomized, Double-blind, Placebo-controlled Trial
- 3:39 Impact of an Integrated Care Program (AIREPOC) on COPD Outcomes According to Wood or Tobacco Exposure
- 3:51 Update on the Safety and Tolerability of Bexotegrast, A Dual-selective Inhibitor of Integrins $\alpha\text{v}\beta\text{6}$ and $\alpha\text{v}\beta\text{1}$, in Development for Idiopathic Pulmonary Fibrosis and Primary Sclerosing Cholangitis
- 4:03 In the Phase 3 Boreas Trial, Baseline Blood Eosinophils and Baseline Fractional Exhaled Nitric Oxide Levels Predict the Response to Dupilumab in Patients With Moderate-to-Severe Chronic Obstructive Pulmonary Disease and Type 2 Inflammation

BASIC • CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

C96 PRECISION MEDICINE IN CRITICAL CARE: EXPLORING ARDS AND SEPSIS PHENOTYPES

2:15 p.m. - 4:15 p.m. San Diego Convention Center
Room 6A (Upper Level)

Oral Presentations:

- 2:15 Dynamic Transitions of the Hyperinflammatory and Hypoinflammatory Subphenotypes in Critical Illness: Implications for Clinical Outcomes
- 2:27 Molecular Phenotypes of ARDS in the Rose Trial Have Differential Outcomes and Gene Expression Patterns That Differ at Baseline and Longitudinally Over Time
- 2:39 Consensus Clinical Phenotyping of Acute Respiratory Failure and Physician Gestalt Predictions of Biological Host-response Subphenotypes
- 2:51 Inflammatory Subphenotype Is Associated With Acute Brain Dysfunction in Mechanically Ventilated Patients
- 3:03 Parsimonious Pediatric ARDS Subphenotype Predictor
- 3:15 Identification of Novel Respiratory Phenotypes in Ventilated Children Based on P0.1 and Esophageal Pressure
- 3:27 Genome-wide Association Between LRRK2 Variants and Risk for Acute Respiratory Distress Syndrome
- 3:39 Elastance Is an Important Modifier of the Effect of Neuromuscular Blockade on Mortality in Patients With Acute Respiratory Distress Syndrome
- 3:51 A Multicenter Study on Deriving and Validating Data-driven Phenotypes for Sepsis-induced Acute Respiratory Failure in ICU Patients
- 4:03 Inflammation and Respiratory Drive Heterogeneity in Acute Respiratory Distress Syndrome

BEHAVIORAL • CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

C97 TOBACCO, E-CIGARETTES, AND AIR POLLUTION: MAJOR ENVIRONMENTAL THREATS TO LUNG HEALTH

2:15 p.m. - 4:15 p.m. Marriott Marquis San Diego Marina
Pacific Ballroom 24-26 (Ground Floor, North Tower)

Oral Presentations:

- 2:15 Lifetime Exposure to Nitrogen Dioxide and Ozone and Pediatric Asthma
- 2:27 Associations Between Indoor Fine Particulate Matter (PM_{2.5}) and Sleep-disordered Breathing in an Urban Sample of School-aged Children
- 2:39 PM_{2.5} Associations With Lung Function in Patients With Pulmonary Sarcoidosis
- 2:51 Identification of a Prevalent Pre-disease State in Daily Vapers: Findings From the Vapalert Research Cohort
- 3:03 Acute Vaping Cessation Is Associated With an Increase in Nasal Inflammatory Mediators
- 3:15 Puff Volume Associated Salivary Proteomic and Metabolomic Perturbations Induced by Heavy Metal Vaping Exposures
- 3:27 E-cigarette Associated Immune Gene Expression and Inflammatory Biomarker Changes in the Systemic Circulation
- 3:39 In Utero Exposure to Electronic Nicotine Delivery System Aerosol Alters Mouse Lung Development Via Impaired IL-10 Immunoregulation
- 3:51 Association of E-cigarette and Cigarette Use With Self-Reported Chronic Obstructive Pulmonary Disease (COPD): A Multivariable Analysis of a Large National Data Set
- 4:03 A Scenario-based Modeling Study to Project the Future Burden of COPD in the United States Accounting for the Effects of E-cigarettes

BASIC • TRANSLATIONAL

MINI SYMPOSIUM

**C98 ENERGIZING THE LUNG:
MITOCHONDRIA AND METABOLIC
PATHWAYS**

2:15 p.m. - 4:15 p.m. San Diego Convention Center
Room 7A-B (Upper Level)

Featured Speaker Presentation:

2:15 Mitochondria-Nucleus Communication via Nucleic Acid Signaling

Oral Presentations:

- 2:27 Mitochondrial DNA Variations May Modulate Neonatal Pulmonary Oxidative Stress and Inflammation
- 2:39 Degradation of Mitochondrial Aspartyl-TRNA Synthetase (DARS2) by the Ubiquitin E3 Ligase Subunit FBXO24 Impacts Innate Immunity in Experimental Pneumonia
- 2:51 Role of Transient Acid Sphingomyelinase (ASM) Inhibition During Acute Lung Injury Induced by Lipopolysaccharide in Mice
- 3:03 Macrophage Inflammatory and Metabolic Function Is Reduced With Loss of Adenine Nucleotide Translocase 1 (Ant1) in COPD
- 3:15 Peroxisome Proliferator-Activated Receptor Gamma Function in Progenitor Alveolar Type 2 Cells Is Required for Alveolar Organoid Formation, Cellular Fate Specification, and Morphological Maturation
- 3:27 Fatty Acid Oxidation Downregulation in Alveolar Epithelial Type 2 Cells Promotes Obesity Associated Acute Lung Injury
- 3:39 Transitional AT2 Derived Lactate Promotes Alveolar Niche Dysfunction in the Sftpc173TMurine Model of IPF
- 3:51 Targeting the Amino Acid Transporter SLC7A5 for Pulmonary Fibrosis
- 4:03 Diabetes Mellitus Impairs Regenerative Fibroblast Activation

BASIC • TRANSLATIONAL

MINI SYMPOSIUM

**C99 I CAN SEE THE FUTURE: NOVEL
WAYS TO PREDICT COPD**

2:15 p.m. - 4:15 p.m. Marriott Marquis San Diego Marina
Grand Ballroom 11-13 (Lobby Level, North Tower)

Oral Presentations:

- 2:15 Amniotic Fluid as a Mediator of the Maternal Environment: The AMME Study
- 2:27 Adverse Pregnancy Outcomes and Lung Function Later in Life: The CARDIA Lung Study
- 2:39 Is Vaping Exposure Associated With Worse Lung Function in Young Adults?
- 2:51 Structural Predictors of Lung Function Decline in the British Early COPD Network (BEACON) Cohort
- 3:03 A Microscale Personalized Spring Network Model Predicts Small Airway Disappearance in Chronic Obstructive Pulmonary Disease
- 3:15 Increased Gut Permeability Associates With Multimorbidity in COPD
- 3:27 FEV3/FEV6 In Ever-smokers With Preserved Ratio Impaired Spirometry (PRISm) Is Associated With Increased Odds of Progression to COPD
- 3:39 Lung Volume-based Phenotyping Predicts Future Disease Severity and Outcomes Among Real-world Patients With Pre-COPD
- 3:51 Longitudinal Changes in Maximal Forced Inspiratory Flow and Their Impact on Clinical Outcomes in COPD Patients
- 4:03 Analyzing the Consequences of Lung Function Reclassification Using GLI-global Race-neutral Reference Equations

CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

**C100 NEW FRONTIERS IN LUNG CANCER:
TOYS, TOOLS AND TREATMENTS**

2:15 p.m. - 4:15 p.m. San Diego Convention Center
Room 29A-D (Upper Level)

Oral Presentations:

- 2:15 Balancing Potential Benefits and Potential Harms in a Biomarker-informed Risk Assessment for Patients With Pulmonary Nodules
- 2:27 Performance Comparison of a Blood-based Integrated Classifier for Lung Nodule Risk Stratification in Patients With Versus Without Emphysema
- 2:39 A Four-protein Blood Biomarker Panel Refines a Clinical Risk Score for Indeterminate Pulmonary Nodules
- 2:51 Effectiveness and Safety of Transthoracic Shear-wave Ultrasound Elastography in the Diagnosis of Lung Lesions: A Randomized Controlled Trial
- 3:03 Clinical Evaluation of Standard Convex Probe Endobronchial Ultrasound Versus a Novel Thin Convex Probe Endobronchial Ultrasound Bronchoscopy System
- 3:15 Navigational Bronchoscopy Versus Computed Tomography-guided Transthoracic Needle Biopsy for the Diagnosis of Indeterminate Lung Nodules: Initial Results From the VERITAS Multicenter Randomized Trial
- 3:27 A Digital Rose Device for Immediate Feedback on Sample Adequacy and Cancer Presence in Bronchoscopic Biopsies: Initial Results From a Clinical Trial With nsCanary
- 3:39 A Phase I Dose-escalation Clinical Trial of Bronchoscopic Cryoimmunotherapy
- 3:51 The First 8 Years — Cardiovascular Immune Related Adverse Events in Checkpoint Inhibitor Recipients With Metastatic Lung Cancer
- 4:03 Longitudinal Quality of Life Following Sub-lobar Resection and Stereotactic Body Radiation Therapy for Early-stage Non-small Cell Lung Cancer

BASIC • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

**C101 UNDERSTANDING LUNG IMMUNITY IN
THE BATTLE AGAINST INFECTION**

2:15 p.m. - 4:15 p.m. San Diego Convention Center
Room 25A-C (Upper Level)

- Poster Viewing 2:15-3:00
- Discussion 3:00-4:15
- 401 Gut Microbiome Contributions to Training Lung Th17 Immunity
- 402 Sex Differences in Murine Lung Cellular Response to *Klebsiella Pneumoniae* Infection With Divergent Myeloid Dendritic Cell Gene Ontology
- 403 Sensory Neuron Release of Vasoactive Intestinal Peptide Regulates Immunoglobulin Release in Response to *Streptococcus Pneumoniae* Infection
- 404 Role of *Staphylococcus Aureus* Superantigens in Cystic Fibrosis Lung Inflammation
- 406 Selective Phagocytosis by Monocyte-derived Macrophages When Exposed to Single Strains Compared to Communities of Bacteria
- 407 Immune Cell Infiltration in Aged Mice Is Distinct From Younger Mice Following Chronic Mixed Allergen Exposure
- 408 Effect of Intra-nasal Administration of Anti-TSLP Antibody in a Murine Model of Dermatophagoides Farinae-induced Allergic Airway Inflammation
- 409 Macrophage Mechanosensor Transient Receptor Potential Vanilloid 4 (TRPV4) Dampens Bacterial-induced Inflammation Through Negative Regulation of the NF- κ B Pathway
- 410 Outer Membrane Vesicle of *Klebsiella Pneumoniae* Decrease Bactericidal Properties of Alveolar Macrophages
- 411 Microphysiological Peripheral and Spinal Nerve Infection by Respiratory Syncytial Virus Drives Activation of Nerve Immunocytes and Peripheral Nerve Hypersensitivity
- 412 Elicitation of Lung B- and T-Resident Memory Cells (BRM/TRM) by DNA-Based Gene Therapy Vectors: Impact of aCD20

- 413 The Orai1 Antagonist, ELD607, Reduces Chronic Neutrophilic Inflammation in β ENaC Mice
- 414 CX₃CR1 Expression Defines a Subset of Type 2 Conventional Dendritic Cells
- 415 Opposing Roles of Neutrophils in Promoting Versus Protecting Against Pathology in Lung Injury
- 416 Oxidative Stress-induced S-glutathionylation of Gasdermin D in Macrophages Protects Against Sepsis
- 417 STAT1 Regulates Pro-survival SLC7A11 and Limits Monocyte Accumulation in Lung Injury
- 418 The Nasal Mucosa of the CFTR-KO Mouse Mimics Baseline Cystic Fibrosis Immune Dysregulation and Microbiome Dysbiosis
- 419 Sex-dependent Inflammatory Immune Cell Recruitment to the Lungs and Airways in Mice With HIF1a and HIF2a Knocked-out in Pulmonary Endothelial Cells
- 420 Human Infants Exhibiting Heightened Airway Epithelial IL-1 β Responses Demonstrate Primed Neutrophilic Airway Reactivity and Nucleosome Activation
- 421 RLS-0071 Independently Inhibits Neutrophil Migration and Myeloperoxidase Activity and NETosis in Humans Challenged With LPS by Inhalation
- 422 Lung Microbiota Influence Responses to Anti-PD1 Therapy in a Preclinical Model of Non-small Cell Lung Cancer
- 423 Megakaryocytes Localize to Regions of Inflammatory Foci in Human Lung Tissue
- 424 Comparative Analysis of Antibiotic Resistance Gene Profiles in Adults With Cystic Fibrosis With and Without Diabetes
- 425 Patients on Benralizumab, Dupilumab, or Mepolizumab Have Lower Post-vaccination SARS-CoV-2 Immunity

BASIC • CLINICAL • TRANSLATIONAL

RAPID POSTER DISCUSSION SESSION

C102 CLINICAL AND TRANSLATIONAL ADVANCES IN ASTHMA

2:15 p.m. - 4:15 p.m.

San Diego Convention Center

Room 28C-E (Upper Level)

Viewing/Discussion

2:15-3:00

Abstract Summaries

3:00-4:15

- 301 Reduced Mucus Plugging With Tezepelumab Is Spatially Associated With Reduced Air Trapping in a Broad Population of Patients With Moderate to Severe Asthma
- 302 Comparative Burden of Disease Associated With Short-acting Beta₂-agonist and Systemic Corticosteroid Exposures in US Children, Adolescents, and Adults With Asthma
- 303 Longitudinal Clinical Course of Participants With Asthma in Severe Asthma Research Program (SARP) Cohort
- 304 Dupilumab Asthma ADVANTAGE-EU: Real-World Evidence on the Association Between Dupilumab and Use of Corticosteroid and Asthma Exacerbations in Patients With Severe Asthma in Europe
- 305 Greater Exacerbation Reductions With Earlier Biologic Initiation After Severe Asthma Onset: Results From the Chronicle Study
- 306 Development and Validation of an Individualised Risk Prediction Model for Exacerbations in Patients With Severe Asthma in Real-world Settings
- 307 Serial Effects of Dupilumab on Mannitol Airway Hyperresponsiveness in Uncontrolled Severe Type 2 High Asthma
- 308 Effects of Mepolizumab in a Pediatric Population With Severe Asthma: Pharmacological Modeling, Simulation and Extrapolation of Data From Adult Patients
- 309 Implementing the Asthma Impairment and Risk Questionnaire (AIRQ[®]) and Asthma Checklist in Primary and Specialty Care Practices: Effects on Exacerbation Occurrence

- 310 Asthma Exacerbation Rates as a Function of Biomarker Levels 4 Weeks After Initiation of Tezepelumab Treatment: An Analysis of the NAVIGATOR Study
- 311 Biologics Use and Switch Patterns in the French Severe Asthma Cohort
- 312 Dupilumab Efficacy by Baseline Disease Severity Among Children With Uncontrolled Moderate-to-Severe Asthma: Post-hoc Results From the Randomized, Placebo-controlled VOYAGE Trial
- 313 Puerto Rican Infant Metagenomic and Epidemiologic Study of Respiratory Outcomes (PRIMERO): Design and Baseline Characteristics for Puerto Rico's Inaugural Asthma Birth Cohort Study
- 314 Effect of Benralizumab Versus Mepolizumab on Reduction in Oral Glucocorticoid Use in Patients With Eosinophilic Granulomatosis With Polyangiitis: Phase 3 MANDARA Study
- 315 Uncovering Acute Exacerbations Via Reliever Use Patterns Using Digihaler Inhaler Data
- 704 COVID-19 Crisis Communication in a Linguistically Diverse Population: Evaluating Differences in Sources of Information and Perception of Risks Based on Language Preference
- 705 Barriers to Equitable Follow-up Care After COVID Hospitalization for Patients of Low Socioeconomic Status: A Qualitative Study of Ten U.S. Health Systems
- 706 Evaluating a Population-based Environmental Justice Index as a Tool for Predicting Individual Disparities and Care Quality Among People With Asthma
- 707 Disparities in Status Asthmaticus Death: A Cross-sectional Analysis 1999 - 2020
- 708 Clinical Trial Participation in Cystic Fibrosis Assessed by Race and Ethnicity
- 709 Neighborhood Level Socioeconomic Disadvantage and Adherence to Guidelines for Surveillance of Patients With Incidentally Detected Pulmonary Nodules
- 710 Promoting Lung Cancer Screening in Environmentally Burdened Communities Through Enhanced Risk Communication: A Pilot Randomized Trial
- 711 Understanding the Beliefs of Lung Cancer Screening Among Latinos: A Qualitative Study
- 712 Exploring Disparate Access to Care in Sarcoidosis Patients in Detroit, Michigan
- 713 Association Between Pre-transplant Psychosocial Risk Level and Post-transplant Outcomes in Lung Transplant Patients
- 714 Differences in Patient Characteristics and Clinical Outcomes at the Extremes of Physical Activity in Pulmonary Arterial Hypertension (PAH): A Pulmonary Hypertension Association Registry (PHAR) Study
- 715 Trends and Racial Disparities in Pulmonary Embolism Admissions From 2017 to 2023
- 716 Discrimination and Mistrust Among Patients With Serious Illness and Intersecting Identities
- 717 Comparison of Clinical Outcomes and Racial Disparities Between Dedicated Versus Consultative Inpatient Pulmonary Care: A Retrospective Cohort Study

BEHAVIORAL • CLINICAL
POSTER DISCUSSION SESSION
C103 DISPARITIES AND SOCIAL DETERMINANTS OF HEALTH IN PULMONARY, CRITICAL CARE, AND SLEEP MEDICINE

2:15 p.m. - 4:15 p.m. San Diego Convention Center

Room 30C-E (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 701 Objective Assessment of Sleep Apnea Prevalence in People Experiencing Homelessness
- 702 Investigating Speech-based Features in Differentiating Obstructive Sleep Apnea in People Experiencing Homelessness
- 703 Using an Expanded Diagnostic Criteria Mitigates Gender Disparities in Diagnosis of Sleep Disordered Breathing

- 718 Health Care Disparities Leading to Gastrointestinal and Renal Critical Care Illnesses Mortality in the United States
- 719 Are We Missing Opportunities to Avoid Guardianship Proceedings in Unrepresented Hospitalized Patients?
- 720 Diversifying Pulmonary and Critical Care Medicine: How Far Have We Really Come?
- 721 How Are Professional Medical Societies Addressing Mass Incarceration and Carceral Health Through Official Society Policy Statements and Guidance?
- 722 Interim Results From a Stepped Wedge Cluster Randomized Trial Using Artificial Intelligence to Increase Interpreter Use for Patients With Language Barriers
- 723 Occupational Impact of a Transition to Race-neutral Spirometry Interpretation
- 724 Neighborhood Disadvantage, Healthcare Utilization, Costs, and Outcomes
- 725 Beyond Race: A Pilot Study on the Utility of Skin Tone on Pulse Oximetry Bias in Critically Ill Patients
- 805 A Real Catastrophe: Think Beyond, Think Fast
- 806 Pulmonary Embolism With Trauma-Associated Thrombotic Microangiopathy
- 807 Complement Mediated Hemolytic Uremic Syndrome in an In Vitro Fertilization Pregnancy
- 808 Veno-Arterial Extracorporeal Membrane Oxygenation Complicated by Heparin Induced Thrombocytopenia and Use of HBOC-201 in a Jehovah's Witness Patient: A Novel Blood Preservation Technique
- 809 Parastomal Variceal Bleeding Successfully Treated With Direct Percutaneous Variceal Embolization
- 810 Pseudo-thrombotic Microangiopathy Presenting as Multi-organ System Failure Secondary to Undiagnosed Autoimmune Disease: A Case Report
- 811 Drug-Induced Thrombocytopenia and Acute Mitral Regurgitation: A Recipe for Massive Hemoptysis
- 812 A Rare Case of Fatal Atypical Allopurinol-induced DRESS Syndrome
- 813 Thyroid Storm and Venous Thromboembolism: Investigating the Hypercoagulable State and Anticoagulation Management

CLINICAL

POSTER DISCUSSION SESSION

C104 BLEEDING AND CLOTTING AND EMBOLI, OH MY! HEMATOLOGIC CASES IN THE ICU

2:15 p.m. - 4:15 p.m. San Diego Convention Center

Room 31A-C (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 801 When Blood Was Thinner Than Water: A Case of Paroxysmal Nocturnal Hemoglobinuria Breakthrough Hemolysis in Pregnancy
- 802 Unmasking a Rash as Leukemia
- 803 Loxoscelism, An Uncommon Differential for Plex-responsive Hemolytic Anemia
- 804 Acquired Hemophilia A: A Rare Cause of Uncontrolled Hemorrhage in the Intensive Care Unit
- 814 A Multisystemic Disorder Commonly Missed in the Elderly
- 815 High Grade B Cell Lymphoma Causing Life-threatening Airway Obstruction: A Lesson in Critical Care
- 816 Ferritin-Guided Therapeutic Plasma Exchange (TPE) Administration in COVID-19-Induced Cytokine Storm Syndrome: A Case Series
- 817 A Case of Post-transplant Lymphoproliferative Disorder Complicated by Life-Threatening Hemoptysis
- 818 Bilateral Brachiocephalic Vein Occlusion Presenting With Acute Onset Respiratory Compromise Mimicking Angioedema
- 819 When the Stars Align: Amniotic Fluid Embolism Resulting in Simultaneous Massive Pulmonary Embolism
- 820 Pulmonary Air Embolism After Contrast-Enhanced CT and COVID-19 Infection
- 821 A Surprising Cause of Acute Onset Ascites

822 A Rare Case of a Fatal Cerebral Air Embolism After Esophagogastroduodenoscopy

823 A Rare Case of COVID-19 Induced Immune Thrombocytopenic Purpura Resistant to Dexamethasone Therapy: A Case Report and Review of the Literature

CLINICAL

POSTER DISCUSSION SESSION

C105 RESPIRATORY REVELATIONS: EPIDEMIOLOGIC STUDIES IN ASTHMA, COPD, AND LUNG FUNCTION

2:15 p.m. - 4:15 p.m. San Diego Convention Center
Room 11A-B (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 501 Associations of First-trimester Blood Metal Concentrations With Lung Function and Risk of Asthma in Mid-childhood
- 502 Higher Blood Eosinophil Count Is Associated With Increased Likelihood of Asthma Exacerbation With COVID-19 Infection
- 503 Innovative, Interactive Platform for Personalized Asthmatic Care
- 504 Asthma in Healthy Homes: A Public Health Department Approach
- 505 Exploring the Medication-Related Carbon Footprint of Severe Asthma Pre- and Post-Biologic Therapy in a UK Regional Severe Asthma Service (Northern Ireland)
- 506 Vitamin D Supplementation Modifies the Estimated Effects of PM_{2.5} Exposure on Severe Asthma Exacerbations in Children With Low Vitamin D Levels
- 507 Increased Risk of Acute Exacerbations and Mortality in Short-acting Beta-agonist Overuse Patients: A Systematic Review and Meta-analysis
- 508 Enhancing Alpha Antitrypsin Deficiency Screening in COPD Patients: A Rural Outpatient Study

509 Pre-COPD and Prism Patients in a Real-life COPD Cohort From the Swedish National Airway Register

510 Characterizing Neighborhoods at High Risk for Chronic Obstructive Pulmonary Disease-related Acute Care Use in Travis County, Texas

511 Trace Elements Are Associated With Development of Emphysema

512 Decline in Lung Function Is Associated With Neighborhood-level Socioeconomic Disadvantage in a Tobacco Exposed Cohort of Individuals With and Without Chronic Obstructive Pulmonary Disease

513 Occupational Lung Disease Mortality Trends in the United States: 1999-2020

514 Cardiopulmonary Failure in Chronic Obstructive Pulmonary Disease (COPD): The Subpopulations and Intermediate Outcome Measures in COPD and Heart Failure Study (SPIROMICS HF)

515 FEV₁ and FVC as Robust Risk Factors for Cardiovascular Disease and Mortality: Insights From a Large Population Study

516 Associations Between Two Week Heart Rate Variability Recordings and Respiratory Health Outcomes in the Atherosclerosis Risk in Communities Study

517 Comparison of Global Lung Initiative (GLI) Global to GLI-2012 Spirometry Reference Equations Across Two Cohorts of Kenyan Adults

518 The Association of the Triglyceride/High-Density Lipoprotein Cholesterol (TG/HDL-C) Ratio with Lung Function and Respiratory Outcomes: The NHLBI Pooled Cohort Study

519 Weight Loss in Airway Predominant Chronic Obstructive Pulmonary Disease Is Predicted by the Interaction Between Phytocannabinoids and Endocannabinoids

520 Exposure to Vapours, Gases, Dusts, and Fumes at Work in Relation to Chronic Bronchitis, Emphysema, and Chronic Obstructive Pulmonary Disease: A Systematic Review With Meta-analyses

521 Native American Coal Miners Demonstrate Lower Prevalence of Airflow Obstruction Than Other Coal Miners in New Mexico

- 522 Former U.S. Coal Miners Participating in Black Lung Clinics Have High Prevalence of Obstructive Lung Disease and Impairment, Particularly in Central Appalachia
- 523 Quantitative Chest CT-defined Structure and Pulmonary Function Among US Veterans Deployed to Afghanistan and Iraq
- 524 Longitudinal Comparison of Multiple Breath Washout Testing and Spirometry in Veterans With Deployment-related Respiratory Diseases and Healthy Controls
- 525 Analysis of Spatial Access to Computer-assisted, Image-guided Navigational Bronchoscopy Using Enhanced Two-step Floating Catchment Area Method

BASIC • TRANSLATIONAL**POSTER DISCUSSION SESSION****C106 CORONADO BRIDGE: LINKING NOVEL EXTRA-THORACIC DISEASE MECHANISMS WITH PAH**

2:15 p.m. - 4:15 p.m. San Diego Convention Center

Room 6E (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 1001 Neuroinflammation Mediates Cognitive Dysfunction in Pulmonary Hypertension
- 1002 Male Specific Rage- T - Cell Axis in Inflammatory Pulmonary Arterial Hypertension Phenotype
- 1003 STING-mediated PD-L1 in Pulmonary Hypertension
- 1004 A Novel Gut-lung Axis in 15-HETE Diet-induced Pulmonary Hypertension
- 1005 Plasma Proteomics Identifies Beta-2-microglobulin (B2M) as a Regulator of Pulmonary Hypertension in Heart Failure With Preserved Ejection Fraction
- 1006 Selective Deletion of the Natural Killer Cell Type II Transforming Growth Factor- β (TGF- β) Receptor Impairs Murine Lung Development and Function
- 1007 "Now I Lay Me Down To Sleep": Circadian Dysrhythmia Is Associated With Poor Outcomes in Patients With Pulmonary Hypertension
- 1008 Cellular Mechanisms Underlying the Pathogenetic Role of the Primary Cilium in Pulmonary Arterial Hypertension
- 1009 Chloride Ion Channel-1 Activation Is a Critical Mediator in the Pathogenesis of Hemolysis Induced Pulmonary Hypertension
- 1010 Classical Dendritic Cells Contribute to Shaping T Cell Responses in Hypoxia-induced Pulmonary Hypertension
- 1011 Successive Left Ventricular Overload and Unloading Reveals Mechanisms of Physiological Reverse Pulmonary Vascular Remodeling in Pulmonary Hypertension Due to Left Heart Disease
- 1012 Cytopathic Tau Originating in Lung Capillaries Impairs Hippocampal Long-term Potentiation Following Bacterial Pneumonia
- 1013 Cathepsin-D: A Novel Paracrine Signal Driving Proliferation of Pulmonary Vascular Cells During Development of Chronic Obstructive Pulmonary Disease (COPD)-Associated Pulmonary Hypertension (PH)
- 1014 Causal Effects of Gut Microbiota on Pulmonary Arterial Hypertension
- 1015 Overexpression of EC-SOD Attenuates Hypoxia-induced Platelet Activation
- 1016 Hyperactive Mechanistic Target of Rapamycin Signaling Induces Endothelial Dysfunction and Pulmonary Vascular Remodeling
- 1017 Targeting Inflammation in Pulmonary Artery Hypertension: A High-throughput Small Molecule Screen for Compounds Degrading Xeroderma Pigmentosum Group B Protein (XPB)
- 1018 Dissecting the Lung Transcriptome of Pulmonary Fibrosis-associated Pulmonary Hypertension
- 1019 A Single-cell Census of Pulmonary Endarterectomies Tissue Across Different Anatomical Regions in Chronic Thromboembolic Pulmonary Hypertension
- 1020 The Impact of Pulmonary Hypertension on Neuroinflammation and Neurodegeneration in Murine Models
- 1021 Activation of the Mitochondrial Unfolded Protein Response (UPRM™) Promotes Vascular Remodeling in Pulmonary Arterial Hypertension

- 1022 TBX4 Deletion in iPSC Results in Vascular Smooth Muscle Cells With Impaired Contractility, and Apoptosis Resistance That Induce EndoMT
- 1023 Single-cell Transcriptomics Analysis Reveals a Bidirectional Cross-talk Between Pulmonary Fibroblasts and Immune Cells in Distal Pulmonary Arteries of Hypoxia-exposed PH Calves
- 1024 Fructose Supports Erythrocyte Metabolism and Inhibits Erythrophagocytosis by Pulmonary Microvascular Endothelial Cells
- 1025 Perinatal Nicotine Exposure in Rats Leads to HFpEF, Pulmonary Hypertension, and Right Ventricular Hypertrophy Which Are Attenuated by a Potent PPAR α Agonist Rosiglitazone
- 908 Genetic Support of the Causal Association Between Oral Microbiome on COVID-19: A Two-sample Mendelian Randomization Study
- 909 Pulmonary Surfactant Phospholipids Inhibit Replication of Several Types of Human Rhinovirus-C
- 910 Associations of COPD and Related Outcomes With COVID-19 Hospitalization or Death: The C4R, Copdgene, and Spiromics Studies
- 911 Post-acute Sequelae of COVID-19 Among Healthcare Workers: Findings From a National Registry
- 912 Endoplasmic Reticulum Stress Response Pathway Activation Patterns in Lung Fibrosis in End-stage IPF and COVID ARDS

BASIC • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

C107 MICROBIAL RESPIRATORY INFECTIONS DISCOVERIES

2:15 p.m. - 4:15 p.m. San Diego Convention Center

Room 33A-C (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 901 Cystic Fibrosis Bacteriophage Study at Yale (CYPHY)
- 902 Rapid Diagnostics of Pleural Infections by Molecular Culture
- 903 Developing a Platform to Evaluate Mycobacterial Drug Resistance Through Inducible Knockdown and Complementation of Essential and Non-essential Genes
- 904 Differential Nutrient Availability During Acute Lung Injury Enhances Growth of *Pseudomonas Aeruginosa*
- 905 Mutations Drive Increased Elastase Activity in *Pseudomonas Aeruginosa* Clinical Isolates
- 906 Adaptation of *Pseudomonas Aeruginosa* During Colonization of Artificial Airways
- 907 Association of Pre-pandemic High Attenuation Areas on Lung CT and COVID-19 Hospitalization and Death: The C4R Study
- 913 Fate Determination of Neutrophils in Pulmonary Circulation in Severe Viral Pneumonia
- 914 Interactions of Chronic Recurrent Virus Infection/Vaccination With Long-term Low-dose PM2.5 Exposure: A Novel Mice Model
- 915 Investigation of ROS-induced Antiviral Effects in Epithelial Cells
- 916 Inhaled LNP-formulated siRNA Inhibits Human Parainfluenza Virus Type 3 Infection: From Bench to Bedside
- 917 Role of Tumor Necrosis Factor Superfamily Member 10 (TNFSF10) in SARS-CoV2-infection-associated Lung Damage
- 918 Effectiveness of the 23-valent Pneumococcal Polysaccharide Vaccine Against Community-acquired Pneumonia in Older Individuals After the Introduction of Childhood 13-valent Pneumococcal Conjugate Vaccine: A Multicenter Hospital-based Case-control Study in J
- 919 Are Sedative Medications a Modifiable Risk Factor for Non-ventilator Associated Hospital Acquired Pneumonia?
- 920 Aetiology of Aspiration Pneumonia in Adults Identified by Combined Detection Methods: A Multicenter Prospective Study
- 921 Pneumococcal Serotypes Distribution in Age Groups: New Factor for Worse Prognosis and an Opportunity for Prevention

- 922 Estimating the Virulence of *S. Pneumoniae* serotypes Using Severity of Disease and Clinical Outcomes of Hospitalized Patients With Pneumococcal Pneumonia
- 923 miR-187-3p Is a Valuable Therapeutic Target in Influenza A-induced Acute Respiratory Distress Syndrome
- 924 Clustering ARDS Patients Through the First Days of ICU Admission

BASIC • TRANSLATIONAL

POSTER DISCUSSION SESSION

C108 MECHANISMS OF LUNG INFLAMMATION AND INFECTION

2:15 p.m. - 4:15 p.m. San Diego Convention Center

Room 1A-B (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 201 Long Term Sequela of SARS-CoV-2 in Airway Epithelia
- 202 Enhanced LPS-induced Lung Injury in Survivors of Murine Sepsis Is Mediated by Reprogramming of Ly6C^{Hi} Monocytes
- 203 Yes-Associated Protein Mediates Pneumonia-Induced Acute Lung Injury
- 204 Transfer RNA (tRNA) Methylation Preserves Inflammasome Function During Cellular Stress
- 205 The Baseline Level of *Desmoplakin* Gene Expression Confers the Susceptibility of Type II Alveolar Epithelial Cells to Lung Injury
- 206 CCR5 Drives NK Cell Mediated Airway Damage in an Endotoxin-induced Model of Acute Lung Injury
- 207 Radiation Induced Lung Injury Is Mediated by Transient Receptor Potential Melastatin-2
- 208 Multi-omic Analyses Demonstrate *Spp1* Expressing Myofibroblasts Are Implicated in Early Lung Repair in a Murine Model of Influenza Induced ARDS
- 209 Correlation Mapping of the Human Respiratory Tract Microbiome Reveals Lung-Specific Indicators and Subnetworks
- 210 Epidermal Growth Factor Receptor Regulates Beclin-1 in Hyperoxia-Induced Lung Injury
- 211 Noxa Expression in Airway Epithelia Is Sufficient to Protect From Bleomycin-induced Lung Inflammation and Injury
- 212 The IFN- γ Response Is Restored and Survival Is Increased in Cigarette Smoke-exposed CYP1B1 Knockout Mice During Lethal Influenza A Virus Infection
- 213 Engineered T Cells to Target the Lung Epithelium
- 214 A Rhinovirus VP0 Vaccine Induces Cross-reactive Type 1 Immunity and Promotes Lymphocyte Activation and Maturation
- 215 A Novel Group of Opremorphin Inhibitors Targeting G Protein-coupled Sensor GPR68 Rescue Lipopolysaccharide or Acidosis-induced Lung Endothelial Dysfunction
- 216 Protection of the Alveolar Epithelial Glycocalyx With Matrix Metalloproteinase Inhibition Results in Reduced Lung Injury From Influenza A
- 217 Macrophage-specific Therapy for Ventilator-induced Lung Injury
- 218 Pharmacological Activation of Cannabinoid-2 Receptor Reduces Acute Lung Injury and Inflammation Induced by 2-chloroethyl Ethyl Sulfide
- 219 Pharmacological Activation of Large Conductance K⁺ (BK) Channels Is a New Anti-inflammatory Strategy Against *Pseudomonas Aeruginosa*-induced Pneumonia
- 220 Towards Precision Medicine: Inflammatory Nasal Epithelial Transcriptomic Profiles in Patients Suffering From Long COVID
- 221 Genetic Ablation or Pharmacological Inhibition of Endoplasmic Reticulum Oxidoreductin 1 (ERO1) Diminishes Oxidative Stress in the Endoplasmic Reticulum and Alleviates Influenza-induced Pulmonary Fibrosis
- 222 Identification of a Robust ARDS Mortality-associated Neutrophil Gene Signature Using Large-scale ARDS Endotracheal Aspirate scRNA-seq
- 223 Epithelial IL33 Contributes to the Development of Post SARS-CoV-2 Eosinophilic Pneumonia in a Model of Chronic Bronchitis

CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

C109 PAP THERAPY CHRONICLES: THE ART OF RESTFUL NIGHTS

2:15 p.m. - 4:15 p.m. Marriott Marquis San Diego Marina

Pacific Ballroom 15-17 (Ground Floor, North Tower)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 101 Cardiometabolic Impacts of CPAP Withdrawal: Results of a Randomized Cross-over Study
- 102 Cardiovascular Effects of Positive Airway Pressure Withdrawal
- 103 Treatment of Sleep-disordered Breathing With Adaptive Servo-ventilation (READ-ASV) - Outcomes in Patients With Treatment-emergent Central Sleep Apnea (TE-CSA) in an European Registry
- 104 The Impact of Weight Change on Positive Airway Pressure Use in Patients With Obstructive Sleep Apnea and Obesity
- 105 Real-World Glucagon-like Peptide-1 (GLP-1) Adherence in Patients With Treated Obstructive Sleep Apnea
- 106 Electrical Consumption of Positive Airway Pressure Devices: Data From a Large National Cohort
- 107 Longitudinal PAP Adherence in Patients With Down Syndrome Using Cloud-based Data
- 108 Continuous Positive Airway Exposure in Patients With Obstructive Sleep Apnea Is Associated With Decreased Probability of Obstruction, A Measure of Upper Airway Patency
- 109 Less REM Sleep Predicts Mortality in Adults With Coronary Artery Disease and Obstructive Sleep Apnea: The RICCADSA Trial
- 110 Impact of Obstructive Sleep Apnea (OSA) Clinical and Polysomnographic Phenotypic Traits on Continuous Positive Airway Pressure (CPAP) Termination Rates: A 5-year Follow-up Study
- 111 The Effect of CPAP on Respiratory Load and Breathing Difficulty in the Healthy and Patients With OSA

112 Association Between a Recalled Positive Airway Pressure Device and Incident Cancer: A Population-based Study

113 Improving Continuous Positive Airway Pressure Therapy in Stroke Patients Through Stakeholder Engagement Using a Human-centered Design Framework

CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

C110 SURFING THE INNOVATION WAVE IN SAN DIEGO: CUTTING-EDGE LUNG CANCER BIOMARKERS, DIAGNOSTICS AND TREATMENTS

2:15 p.m. - 4:15 p.m. San Diego Convention Center

Room 5A-B (Upper Level)

Poster Viewing 2:15-3:00

Discussion 3:00-4:15

- 601 Longitudinal Trend of a Radiomic Lung Cancer Prediction Score for Sub-solid Nodules
- 602 The Radiomic "Stress Test": Validation of a Convolutional Neural Network Model in Patients With Clinically Challenging Indeterminate Pulmonary Nodules
- 603 Leveraging Radiomics in Concept Bottleneck Network for Pulmonary Nodule Classification
- 604 Biomarker Testing Practices for Non-small Cell Lung Cancer: A Survey of Veterans Affairs Facilities
- 605 Testing of Validated Radiomic Models Using a Challenging Cohort of Indeterminate Pulmonary Nodules (IPNs)
- 606 Novel Approach to Directly Sample Lung-Specific Volatile Organic Compounds in Exhaled Breath
- 607 To Evaluate a Proprietary Breath Analyzer in the Evaluation of High-risk Lung Nodules for Non-small Cell Lung Cancer: Single-center Feasibility Study
- 608 Evaluation of Change in Diagnostic Practices for Diagnosis of Lung Cancer With Implementation of Robotic-assisted Bronchoscopy

- 609 Evaluation of the Accuracy of Combined Robotic Assisted Bronchoscopy (RAB) and Cone Beam Computed Tomography (CBCT)
- 610 Comparison of Procedural Safety and Diagnostic Yield Between Robotic Bronchoscopy Platforms
- 611 The Battle of Two Robotic-assisted Bronchoscopy Platforms: A Comparative Cohort Study
- 612 Detection of Clinically Significant Pneumothorax Using Lung Ultrasound Following Cryobiopsy for Peripheral Pulmonary Lesions
- 613 Trends in Station-Based Lymph Node Sampling for Early-Stage Non-Small Cell Lung Cancer From 2009 to 2019
- 614 How Many Passes Are Enough in EBUS-TBNA Procedures for Diagnostic Yield of Next Generation Sequencing in Non-small Cell Lung Cancer?
- 615 Performance of Computer-assisted Detection Algorithms on Unstained Slides During Rose Procedures
- 616 Neoadjuvant Soft Tissue Ablation Utilizing Aliya™ Pulsed Electric Fields With Systemic Therapy in Early-stage Resectable Non-small Cell Lung Cancer (NSCLC)- VIGOR Study
- 617 Improvement in Benign Surgical Resection Rate and Later Stage Thoracotomies After Interventional Pulmonology Management of a VA Thoracic Oncology Program
- 618 Outcomes of Therapeutic Bronchoscopy in Malignant Airway Obstruction Causing Acute Respiratory Failure
- 619 Inert Brachytherapy Seed Placement by Robotic Bronchoscopy With Cone-beam Computed Tomography Guidance to Simulate Early-stage Lung Cancer Treatment: A Human Cadaveric Feasibility Pilot
- 620 Distribution and Cytotoxicity of Cisplatin After Intratumoral Injection in Lung Tumors
- 621 Immune Tone of T Lymphocytes Within Tumor-draining Lymph Nodes of Advanced-stage Non-small Cell Lung Cancer Is Associated With Early Mortality
- 622 Efficacy and Adverse Events of Osimertinib Correlate With Blood Concentration of Osimertinib and Its Active Metabolites, AZ5104 and AZ7550
- 623 Transcriptomic Signatures in Elderly Patients With Early-stage NSCLC Are Associated With Disease Recurrence
- 624 Modeling Treatment Effect of Onvansertib, A Polo Like 1 (PLK1) Inhibitor, in Small Cell Lung Cancer Using Radiomic Analysis
- 625 High Blood Eosinophil Counts Predict Poor Surgical Outcomes in Early Stage Lung Cancer



MEET THE EXPERT SEMINARS

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

\$100 Member/Non-Members

\$70 LMIC Member/LMIC Non-Members.

10:30 a.m. - 11:30 a.m. Marriott Marquis San Diego Marina

- MTE37 ALPHA-1 ANTITRYPSIN DEFICIENCY: STATE OF THE ART**
Del Mar (Level 3, South Tower)
- MTE38 PREPARING THE CLINICAL WORKFORCE FOR THE INFORMATION AGE: CLINICAL INFORMATICS IN TRAINING AND BEYOND**
Cardiff (Level 3, South Tower)
- MTE39 METHAMPHETAMINE AND PULMONARY ARTERIAL HYPERTENSION, WHAT YOU NEED TO KNOW**
Point Loma (Level 1, South Tower)
- MTE40 BRING JOY BACK- MANAGING PULMONARY CLINIC EFFECTIVELY IN THE ERA OF INBASKETS**
Solana (Level 1, South Tower)
- MTE41 THE KEY ROLE OF PATIENTS AND CARE PARTNERS IN PATIENT-ENGAGED RESEARCH**
Missions Hills (Level 3, South Tower)
- MTE42 READING BETWEEN THE LINES: THE EVALUATION AND TREATMENT OF PULMONARY HYPERTENSION ASSOCIATED WITH CHRONIC LUNG DISEASE (PH-CLD)**
Santa Rosa (Level 1, South Tower)

MTE43 CRITICAL CARE MANAGEMENT OF THE LUNG TRANSPLANT RECIPIENT

(Balboa (Level 3, South Tower)

MTE44 CHRONIC COUGH IN CLINICAL PRACTICE

Pacific Ballroom 14 (Ground Floor, North Tower)

MTE45 IMPLEMENTING A MULTIDISCIPLINARY PERT WITH AN EMPHASIS ON QUALITY AND OUTCOMES

Leucadia (Level 1, South Tower)

MTE46 MORE THAN JUST MEDICATIONS: A COMPREHENSIVE APPROACH TO END-STAGE LUNG DISEASE

Carlsbad (Level 3, South Tower)

YEAR IN REVIEW

D1 CLINICAL YEAR IN REVIEW 1

8:15 a.m. - 9:45 a.m.

San Diego Convention Center

Ballroom 20B-D (Upper Level)

Target Audience

Pulmonary, critical care and sleep providers.

Objectives

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

- apply new clinical research knowledge to clinical practice
- apply new findings about key conditions in pulmonary, critical care and sleep
- learn new strategies to manage the care of common conditions in pulmonary, critical care, and sleep

The program will discuss general topics of interest to a broad group of providers, inside and outside of these subspecialties. The program is relevant to not only clinicians, but also to researchers and administrators.

8:15 Tobacco Control

8:37 Ecmo

8:59 Pulmonary Vascular Disease

9:22 Sleep

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).

BEHAVIORAL • CLINICAL • TRANSLATIONAL**CRITICAL CARE TRACK****D2 A NEW REALITY FOR CRITICAL CARE AFTER DOBBS**

Assemblies on Critical Care; Behavioral and Health Services Research; Ethics and Conflicts of Interest Committee

8:15 a.m. - 9:45 a.m. San Diego Convention Center

Room 7A-B (Upper Level)

Target Audience

Bedside ICU physicians and nurses, including CCM trainees; healthcare policy makers; patient advocates; and any clinicians and scientists interested in obstetric critical care, healthcare policy, and healthcare access and equity.

Objectives

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

- update their differential diagnoses of life-threatening complications stemming from reduced access to abortion; the implications that has for therapy; and the ways that may disproportionately impact racialized patients
- develop concrete skills in navigating the conflict between patient needs and barriers to access to standard care imposed by either hospital institutional risk avoidance or true legal barriers
- identify specific actions pulmonary and critical care clinicians and researchers can take to advocate for and improve their colleagues and their patients' safety

Since the Supreme Court's Dobbs' ruling in 2022, state abortion prohibitions have led to increased morbidity for pregnant patients, including life-threatening sepsis, and a growing body of research raises concerns for critically ill pregnant patients under these restrictions. This symposium will address the post-Dobbs critical care landscape: first hearing from a patient who needed urgent obstetric care in a state that banned access to that care, attendees will then learn how to manage clinical emergencies patients and providers face, navigate the moral and legal challenges providers confront, and participate in work being done to keep our patients and providers safe.

8:15 The Rapidly Changing Landscape of Abortion Care

8:28 Managing Life-threatening Complications, Maternal Critical Illness, and Decreased Access to Abortion

8:42 **The Racialized Impacts of Making Care Illegal or Difficult**

8:51 **Do No Harm: Survival Tips for Clinicians in an Impossible Situation**

9:05 **Good Trouble Indiana on How To Fight New Threats to Clinical Autonomy**

9:14 **The Ripple Effect of Dobbs: Changing the Conversation in the UK and Ireland**

9:23 **Question and Answer**

CLINICAL • TRANSLATIONAL**CLINICAL TOPICS IN PULMONARY MEDICINE****D3 INTERSTITIAL LUNG ABNORMALITIES: MOVING THE NEEDLE TOWARDS THERAPEUTIC CLINICAL TRIALS**

Assembly on Clinical Problems

8:15 a.m. - 9:45 a.m. Marriott Marquis San Diego Marina

Grand Ballroom 8-9 (Lobby Level, North Tower)

Target Audience

Clinicians who care for patients at risk for developing interstitial lung abnormalities and interstitial lung disease (ILD) Clinical and translational researchers interested in methods of early detection, diagnosis and treatment of ILA and ILD

Objectives

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

- improve understanding of ILA, its classification, and features of radiologic ILA progression
- learn about potential methods to further evaluate ILA and risk of progression, such as radiologic features, serum biomarkers, and optical imaging modalities with capabilities to assess and identify microscopic features of ILA not visible by CT
- learn new information about steps needed for the conduct of therapeutic clinical trials, which will be needed to inform future clinical management and follow-up for patients with ILA

In this session, we will discuss interstitial lung abnormalities (ILA), their role as an identifiable precursor to symptomatic pulmonary fibrosis, and the potential use of existing and novel technologies to get the field closer to therapeutic clinical trials in ILA cohorts. We will discuss the steps and tools needed for conduct of therapeutic clinical trials in ILA, the pros and cons of screening for ILA, and novel biologic and imaging biomarkers

that may be leveraged for prognostic enrichment and outcome/therapeutic response prediction.

8:15 Therapeutic Clinical Trials in ILA: What Do We Need and How Do We Get There?

8:30 The Pros and Cons of ILA Screening

8:45 High Resolution EB-OCT Imaging as a Novel Method for Prognostic Enrichment in ILA

9:00 Proteomics for Prognostic and Predictive Biomarkers in ILA

9:15 Using Spatial Transcriptomics in ILA to Identify New Biomarkers and Therapeutic Targets

9:30 Panel Discussion and Questions

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

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BASIC • CLINICAL • TRANSLATIONAL

CLINICAL TOPICS IN PULMONARY MEDICINE

D4 LYMPHANGIOLEIOMYOMATOSIS: AT THE FOREFRONT OF SCIENTIFIC AND CLINICAL PROGRESS

Assemblies on Clinical Problems; Respiratory Cell and Molecular Biology; Respiratory Structure and Function

8:15 a.m. - 9:45 a.m. Marriott Marquis San Diego Marina

Grand Ballroom 2-4 (Lobby Level, North Tower)

Target Audience

All pulmonary providers, fellows in training, lab-based researchers

Objectives

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

- manage patients with LAM while integrating the latest evidence into their practice
- describe new findings about our current understanding of LAM
- apply cutting edge technologies to elucidate disease pathobiology

Lymphangioleiomyomatosis (LAM) is a female-predominant, progressive, cystic lung neoplasm caused by mutations in the Tuberous Sclerosis Complex genes. Recent years have seen a tremendous progress in elucidating the genetic and molecular

alterations that drive the pathobiology of LAM. The recent application of cutting-edge technologies such as single cell RNA sequencing and spatial transcriptomics has transformed our understanding of LAM, and offered new avenues for translation. Close partnership and integration of scientists, clinicians and patients has ensured seamless bedside translation of the scientific progress. This session will highlight the most recent advances in basic, translational and clinical progress in LAM.

8:15 A Patient's Perspective

8:19 Molecular Pathogenesis of LAM

8:38 Mechanisms of Matrix Degradation in LAM

8:57 New Insights into LAM Pathobiology

9:16 Clinical Advances in LAM

9:35 Panel Discussion

BEHAVIORAL • CLINICAL

SCIENTIFIC SYMPOSIUM

D5 TIME-LIMITED TRIALS IN CRITICAL CARE

Assemblies on Behavioral and Health Services Research; Critical Care

8:15 a.m. - 9:45 a.m. Marriott Marquis San Diego Marina

Grand Ballroom 11-13 (Lobby Level, North Tower)

Target Audience

(1) Interprofessional and interdisciplinary professionals who care for patients with critical illness (2) Health services and clinical researchers (3) ICU medical directors, managers, and leaders within health systems

Objectives

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

- identify the essential elements of a time-limited trial in critical care and employ these elements when using time-limited trials in clinical practice
- define a time-limited trial for patients with critical illness
- describe how, if used inappropriately, time-limited trials could perpetuate unintended harm and inequities in critical care

For more than two decades, the approach to patient care known as a "time-limited trial" has been discussed and endorsed by experts in palliative and critical care. Yet, there is a lack of consensus about what constitutes a time-limited trial, including its definition and essential elements. In 2022, ATS sponsored a

Workshop working group within the BSHSR Assembly to address this gap. This symposium will present the committee's findings, including a consensus definition, the essential elements necessary to conduct a time-limited trial, and the most pressing controversies and remaining questions about this approach.

- 8:15 Advocating for the Voice of Patients and Families in Time-Limited Trials**
- 8:25 What We Know About the Current Use of Time-Limited Trials in Critical Care**
- 8:35 I Know It When I See It? An Operational Definition of Time-Limited Trials in Critical Care**
- 8:45 The Essential Elements for Conducting a Time-Limited Trial for Patients with Critical Illness**
- 8:55 Rejoice in Tension: Rethinking Family Relationships Through Time-Limited Trials**
- 9:05 Ethical Controversies in Time-Limited Trials: Pragmatic Solutions, Potential Hazards**
- 9:15 The Challenge of Promoting Equity Through Time-Limited Trials**
- 9:25 Putting Time-Limited Trials into Context**
- 9:35 Q&A and Roundtable Discussion**

BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

D6 WHAT CAUSES SARCOIDOSIS?

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

8:15 a.m. - 9:45 a.m. **San Diego Convention Center**
Room 29A-D (Upper Level)

Target Audience

Clinical and translational research pulmonologists, basic scientists and clinicians interested in host and environment interactions manifesting as interstitial lung disease and systemic inflammation.

Objectives

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

- apply new disease models and advanced technologies to advance understanding of sarcoidosis disease pathogenesis.

- describe new findings linking exposure to environmental antigens or autoantigens to sarcoidosis disease progression.
- define new strategies to prevent sarcoidosis progression based on improved knowledge of the interactions between the host immune system and the environment that promote sarcoidosis disease progression.

Despite decades of research the cause of sarcoidosis remains unclear, which is a source of frustration for healthcare providers, researchers and patients. Recent developments, including new disease models and research technologies, have provided novel insights into sarcoidosis disease pathogenesis, and will be featured in this session. These recent discoveries have important implications for guiding future mechanistic research and for developing more effective treatments and biomarkers for sarcoidosis.

- 8:15 Introduction, What is the Cause of Sarcoidosis?**
- 8:20 A Patient's Perspective**
- 8:25 The role of sarcoidosis-specific T-cell receptors and environmental antigens in sarcoidosis pathogenesis**
- 8:45 Multi-omic signatures of sarcoidosis predicting sarcoidosis disease progression**
- 9:05 Disrupted autophagy and impaired antigen clearance in sarcoidosis.**
- 9:25 Altered intracellular pathogen responses promote sarcoidosis granuloma formation**

BEHAVIORAL • CLINICAL

SCIENTIFIC SYMPOSIUM

D7 WHERE CHILDREN LEARN AND BREATHE: THE IMPACT OF SCHOOL-BASED EXPOSURES ON CHILDHOOD RESPIRATORY HEALTH

Assemblies on Pediatrics; Behavioral and Health Services Research; Environmental, Occupational and Population Health; Nursing

8:15 a.m. - 9:45 a.m. **San Diego Convention Center**
Room 24A-C (Upper Level)

Target Audience

Our target audience is broad and includes clinical pediatric and adult pulmonologists, fellows and trainees, researchers, other

multidisciplinary clinicians (nurses, social workers, etc.), and public health professionals.

Objectives

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

- identify indoor and adjacent outdoor school air pollutants and understand the associated risks to childhood respiratory health on both an individual and population level
- describe the latest recommendations and findings regarding the regulatory oversight of school air quality and the engineering of school ventilation systems
- describe evidence-based advocacy interventions necessary to limit exposure to school-based environmental health pollutants in the US and abroad, thereby improving quality of life and outcomes for children with respiratory disease

Children spend many hours in school and are susceptible to respiratory effects of poor classroom air quality from indoor materials, pathogens, and pollution. However, there are no federal recommendations on school indoor air. This session will feature experts in indoor air quality who will discuss the effects of classroom exposures on respiratory health, the omics of these effects, the science of indoor air ventilation from an engineering perspective, and strategies to partner with neighborhood organizations to improve indoor air. Attendees will be equipped to advocate for improved school indoor air quality to improve pediatric respiratory health and academic inequities.

- 8:15 Why the Lack of Federal Regulation on School Indoor Air Quality Should Concern Clinicians and Scientists**
- 8:20 School Classroom Ventilation: Where Engineering Intersects with Medicine**
- 8:37 Ventilation matters: Respiratory effects of aerosolized virus in classrooms and daycare centers**
- 8:54 The Respiratory Effects of Particulate Matter in School Indoor Air**
- 9:11 The Impact of School-Associated Traffic-Related Air Pollution on Classrooms**
- 9:28 Improving School Indoor Air Through School Community Partnerships**

BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

D8 GLOBAL PERSPECTIVES OF PULMONARY HYPERTENSION BIOLOGY AND MANAGEMENT? AN ATS/ERS JOINT SYMPOSIUM

Assemblies on Pulmonary Circulation, European Respiratory Society

8:15 a.m. - 9:45 a.m. Marriott Marquis San Diego Marina

Grand Ballroom 5-6 (Lobby Level, North Tower)

Target Audience

Physicians, researchers and nurses from all fields interested in learning about state-of-the-art translational research and pulmonary vascular disease management from a global perspective.

Objectives

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

- facilitate discussion from a global health perspective on new translational findings with the goal to enable the development of effective treatment for PH and PVD.
- engage in discussions about the global perspective on clinical trial design/achievements and disease management for development of novel therapeutics for PH and PVD.
- identify and discuss approaches that can be leveraged to push the pulmonary vascular field forward at the translational research and clinical trial levels with the goal to improve patient outcomes.

A collaborative session between the American Thoracic Society and European Respiratory Society, this symposium partners talks from global perspectives and highlights key scientific insights and technologies that are used to understand disease and cellular heterogeneity, the current biomarker landscape for early diagnosis and disease management in pulmonary hypertension (PH) and pulmonary vascular disease (PVD), and the current clinical trial landscape in North America and Europe.

8:15 Complex Disease in Context: Bioengineering Approaches to Study Cell-Specific Processes in PH and PVD

8:30 Complex Disease in Context: Leveraging Large Datasets to Understand Cellular Heterogeneity in PH and PVD

- 8:45** **Current Biomarker Landscape for Early Diagnosis of PH and PVD: Integrating Cardiac MRI and Omics Data in the RV**
- 9:00** **Current Biomarker Landscape for Early Diagnosis of PH and PVD: Omics and Databases**
- 9:15** **Current Clinical Trial Landscape for PH and PVD in North America**
- 9:30** **Current Clinical Trial Landscape for PH and PVD in Europe**

This session and the International Conference are supported by independent medical educational grants from

Johnson & Johnson, Merck & Co., Inc., and United Therapeutics Corporation.

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

SCIENTIFIC SYMPOSIUM

D9 LINKING NOVEL MULTI-OMICS WITH MACHINE LEARNING TO UNLOCK LUNG PATHOPHYSIOLOGY

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

8:15 a.m. - 9:45 a.m. Marriott Marquis San Diego Marina

Pacific Ballroom 24-26 (Ground Floor, North Tower)

Target Audience

Basic and clinical scientists interested in how emerging methods such as spatial transcriptomics and single-cell RNA and ATAC sequencing can elucidate the integrative biology of the lung and the manifold causes of airway inflammation and asthma.

Objectives

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

- apply emerging 'omics modalities to their own research questions and model systems, and integrate their current thinking more deeply with computational approaches and paradigms.
- apply computational frameworks to a range of research questions in lung disease pathophysiology, understand the capabilities of machine learning approaches and how they can open up new areas of inquiry.

- describe new findings in the research literature including systems biology, computational biology and integrative biology of chronic lung disease.

Emerging modalities to collect high-dimensional molecular profiles at single-cell and now with spatial resolution offer new potential to understand the cellular components of healthy lung tissue and its dysfunction in disease. They also present a profound opportunity to define molecular mechanisms responsible for patient heterogeneity, such as asthma endotypes. To realize these goals, it is necessary to develop and apply novel computational approaches and define new algorithms to extract biological meaning from these datasets. This session will bring together the leaders in computational of multi-omics data who are pioneering its application to high resolution lung systems biology.

- 8:15** **Introduction**
- 8:20** **Determining Asthma Endotypes and Outcomes: Complementing Existing Clinical Practice with Modern Machine Learning**
- 8:40** **Cell Atlases as Roadmaps to Understand and Treat Disease**
- 9:00** **Cellular Cross-Talk Understanding Mechanisms Underlying Asthma Susceptibility**
- 9:20** **Unlocking Lung Health and Disease Using Novel Algorithms for Integrated Multi-Omics**
- 9:40** **Summary**

CLINICAL

SCIENTIFIC SYMPOSIUM

D10 TEAMWORK MAKES THE DREAM WORK: MULTIDISCIPLINARY APPROACHES FOR HIGH-QUALITY LUNG CANCER SCREENING

Assembly on Thoracic Oncology

8:15 a.m. - 9:45 a.m. Marriott Marquis San Diego Marina

Pacific Ballroom 18-19 (Ground Floor, North Tower)

Target Audience

The target audience includes pulmonologists and interventional pulmonologists, thoracic radiologists, thoracic surgeons, primary care providers, cancer epidemiologists, public health experts, and behavioral health and implementation scientists.

Objectives

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

- describe the benefits of multidisciplinary approaches to lung cancer screening across the continuum, including identifying eligible individuals, implementing high-quality screening, and tracking LCS patients for optimizing annual adherence
- define best practices for engaging interdisciplinary collaborators within an institution to promote high-quality lung cancer screening.
- apply team-based approaches to reduce health inequities in early detection of lung cancer.

The proposed session focuses on the multidisciplinary approach to lung cancer screening (LCS) and includes speakers from critical subspecialty partners for Pulmonary Medicine including Thoracic Surgery, Thoracic Radiology, Primary Care, Population, and Cancer Epidemiology. Topics will cover the continuum of lung cancer early detection, from defining lung cancer risk and engaging primary care physicians to managing LCS results and improving screening equity, with an emphasis on interdisciplinary cooperation and engagement.

- 8:15 Patient Speaker**
- 8:20 Defining population-based lung cancer risk at national and local levels**
- 8:37 Engaging primary care providers for identification of LCS-eligible individuals**
- 8:54 Leveraging the electronic medical record for reporting and tracking LCS results**
- 9:11 Programmatic approaches for building effective interdisciplinary LCS teams**
- 9:28 Improving health equity in LCS at a safety-net hospital**

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 • TRANSLATIONAL**MINI SYMPOSIUM**

D12 POUR SOME SUGAR ON ME: METABOLISM IN LUNG INJURY AND REPAIR

8:15 a.m. - 10:15 a.m.

San Diego Convention Center

Room 2 (Upper Level)

Oral Presentations:

- 8:15 Metabolic Regulation of Disease Tolerance by Itaconate: Implications for Pseudomonas Aeruginosa Infection and Cystic Fibrosis**
- 8:27 Glycolytic Reprogramming of Alveolar Macrophages Contributes to Reduced Vesicular Socs3 Secretion in Tumor-bearing Lungs**
- 8:39 Scap Deficiency in Macrophage Alleviates Aspergillus Fumigatus Induced Allergic Lung Inflammation Via Glucose Metabolism**
- 8:51 Metabolic Oscillators Guide Time of Day Variation in Myeloid Cell Inflammatory Responses**
- 9:03 TRPV4 Regulates the Macrophage Metabolic Response Through GLUT1 to Limit Sepsis-induced Lung Injury**
- 9:15 Porphyromonas Gingivalis Mediated T17 Cell Polarization Promotes Lung Cancer Resistance to Immunotherapy**
- 9:27 Gut Microbiome Lipid Biosynthesis Is Associated With Allergic Respiratory Phenotypes and Inflammatory Nasal Transcriptome in Urban Children With Asthma**
- 9:39 Live Microbes in Gut Microbiome Transplant From Pups Prenatally Exposed to Environmental Particles Are Required for the Pro-Asthma Effect on the Epigenome of Recipients' Dendritic Cells**
- 9:51 Acute Fungal Allergen (Alternaria Alternata) Exposure Shows Time-of-Day Response and Sex-based Difference in Allergic Asthma**
- 10:03 Metformin Protects Alveolar Epithelial Cell Type-2 From Cigarette Smoke-Induced Metabolic Dysfunction**

CLINICAL • TRANSLATIONAL**MINI SYMPOSIUM****D13 DETERMINANTS OF DISEASE PROGRESSION AND DECLINE IN COPD**

8:15 a.m. - 10:15 a.m. San Diego Convention Center
Room 6D (Upper Level)

Oral Presentations:

- 8:15 The Emphysema Predominant and Airway Predominant Pulmonary Disease Axes Are Associated With Distinct Protein Pathways
- 8:27 Platelet Activation and Longitudinal Change in Percent Emphysema and Lung Function in Spiromics
- 8:39 Clinical Characteristics and Longitudinal Outcomes in Heterogeneous Emphysema in SPIROMICS
- 8:51 Identifying Prognostic COPD Lobe Deep-phenotype Topredict Annualized Lobe Density Decline
- 9:03 Identifying Alpha-1 Heterozygous Subjects With PiMS and PiMZ Genotype at Higher Risk of Emphysema Progression Using Deep Learning
- 9:15 Effect of Smoking Cessation on COPD Exacerbations, Spirometry and Respiratory Symptoms in Spiromics
- 9:27 Relationships Between Bronchodilator Responsiveness, A COPD Polygenic Risk Score, and COPD Progression
- 9:39 Proteomic Risk Score of Accelerated Decline Lung Function Trajectory and Future Respiratory Morbidity and Mortality
- 9:51 Impact of Social Determinants of Health on Accelerated Lung Function Decline
- 10:03 Effect of Pharmacotherapy on Lung Function Trajectories in the General Population

CLINICAL**MINI SYMPOSIUM****D14 ACUTE RESPIRATORY FAILURE AND MECHANICAL VENTILATION: EXPANDING OUR BREADTH OF KNOWLEDGE**

8:15 a.m. - 10:15 a.m. San Diego Convention Center
Room 6B (Upper Level)

Oral Presentations:

- 8:15 Mode of Ventilation During Critical Illness: The MODE Pilot Trial
- 8:27 Video Versus Direct Laryngoscopy for Tracheal Intubation in Adults With Cardiac Arrest
- 8:39 Age-, Sex-, and Race-associated Variation in Tidal Volume to Forced Vital Capacity Ratios Mediates Excess Mortality in Patients Receiving Low Tidal Volume Ventilation
- 8:51 Do Tidal Volumes Standardized to Predicted Body Weight Adequately Account for Differences in Functional Lung Sizes of Female Versus Male Mechanically Ventilated Patients?
- 9:03 Short Stature Is a Risk Factor for Increased Ventilatory Inefficiency and Is Associated With Mortality in Patients With Acute Respiratory Distress Syndrome in NHLBI Network Trials
- 9:15 The Association Between Daily Driving Pressures and Mortality in Patients Supported With Venovenous Extracorporeal Membrane Oxygenation for Acute Respiratory Distress Syndrome
- 9:27 Extra-pulmonary Organ Dysfunction in Pediatric Acute Respiratory Distress Syndrome
- 9:39 Positive End-expiratory Pressure (PEEP) Targeting End-Expiratory Transpulmonary Pressure Compared With PEEP by the Low PEEP/FIO₂ Table in Children With Acute Respiratory Distress Syndrome
- 9:51 Personalized Peep by Synchronized Electrical Impedance Tomography and Transpulmonary Pressure Monitoring in ARDS Patients on Pressure Support Ventilation

10:03 Development and External Validation of a Machine Learning Model to Predict High Flow Nasal Cannula Failure

BEHAVIORAL • CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

D15 MACHINE LEARNING AND LARGE COHORT STUDIES TO UNDERSTAND EXPOSURE-RELATED LUNG DISEASE

8:15 a.m. - 10:15 a.m. San Diego Convention Center
Room 28A-B (Upper Level)

Oral Presentations:

- 8:15 Indoor Air Pollution, Dysanapsis, and Lung Function Decline: Analyses From the SPIROMICS AIR Study
- 8:27 Mind the Height-gap: Association of a Novel Index of Growth Impairment With Airflow Obstruction in Adulthood
- 8:39 Environmental Urinary Cadmium Levels and Longitudinal Lung Function in the Multi-ethnic Study of Atherosclerosis
- 8:51 Associations Between Ambient PM_{2.5} Exposure, Plant-based Diet and Asthma Exacerbations: Analysis of the Nurses' Health Studies
- 9:03 Comparable Radiographic Profiles of Suspected and Confirmed Deployment Related Respiratory Disease as Assessed by Parametric Response Mapping
- 9:15 Longitudinal Progression of CT Emphysema Subtypes Using Density-based and Hidden Markov Measure Field-based Thresholds: The Subpopulations and Intermediate Outcome Measures in COPD Study (SPIROMICS)
- 9:27 Overcoming Racial and Ethnic Biases in the Diagnosis of Patients With Alpha-1 Antitrypsin Deficiency in the United States Using a Machine-learning Model
- 9:39 Discovering Joint Clinical and Molecular Subtypes of COPD With Variational Autoencoders
- 9:51 Severity of COVID-19 Is Associated With Air Pollution: A Single Center Machine Learning Approach to Understand Risk

10:03 Using Causal Discovery Methods to Identify Predictors for Incident Lung Function Decline in COPD

BASIC • CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

D16 GENETICS AND BRONCHIECTASIS - ADVANCES IN CYSTIC FIBROSIS AND PRIMARY CILIARY DYSKINESIA

8:15 a.m. - 10:15 a.m. San Diego Convention Center
Room 6A (Upper Level)

Oral Presentations:

- 8:15 Fetal Risk Assessment for Cystic Fibrosis Via Fetal Cell Free DNA; A Non-invasive Pathway to Identify Fetuses Eligible for CFTR Modulator Therapy
- 8:27 The Role of Microtubule Stabilization in Bacterial Adherence and Internalization in Cystic Fibrosis
- 8:39 Racial and Ethnic Differences in Elexacaftor/Tezacaftor/Ivacaftor Provider Prescriptions for Variant-eligible People With Cystic Fibrosis
- 8:51 The Association Between Socioeconomic Status and In-hospital Healthcare Utilization and Cost Among Children With Cystic Fibrosis
- 9:03 Salivary Microarray Gene Expression of Pro-inflammatory Cytokines in Patients With Primary Ciliary Dyskinesia (PCD)
- 9:15 Radiant Cilia: Advancing North American Primary Ciliary Dyskinesia (PCD) Diagnostics With Immunofluorescence
- 9:27 Comparative Analysis of Clinical and Genetic Characteristics in Mexican Patients With Primary Ciliary Dyskinesia (PCD) Vs. Worldwide Trends
- 9:39 The Impact of Nutritional Status on Clinical Trajectories in Pediatric Patients With Primary Ciliary Dyskinesia
- 9:51 Predictors of Long-term Lung Function Trajectory in Primary Ciliary Dyskinesia

Featured Speaker Presentation:

- 10:03 Precision Medicine in Pediatric Bronchiectasis: Forging a Path Towards Equitable Outcomes

BASIC • CLINICAL • TRANSLATIONAL**MINI SYMPOSIUM****D17 WHAT'S HOT IN TUBERCULOSIS?**

8:15 a.m. - 10:15 a.m. San Diego Convention Center
Room 6C-F (Upper Level)

Oral Presentations:

- 8:15 Safety and Pharmacokinetics of Different Doses of Rifapentine in Patients With Drug Susceptible Tuberculosis: The Preliminary Result From a Randomized Controlled Trial (ORIENT Study)
- 8:27 Accuracy of an Ultra-portable X-ray System With an Automated Interpretation for Tuberculosis Active Case Finding
- 8:39 Climate and Pollutant Determinants of Incident TB Infection Among Children in Vietnam: A Prospective Cohort Study
- 8:51 The Potential Role of Circulating Cell-free DNA in Tuberculosis Contacts With Latent Tuberculosis Infection
- 9:03 Inhibiting PD-1 Restores Mycobacterium Tuberculosis Specific Poly-functional T Cells: Impact on Therapy of Drug Resistant Tuberculosis Patients
- 9:15 Analysis of Changes in the Incidence, Prevalence, Mortality, and Disability-adjusted Life Years of Pulmonary Tuberculosis in the United States Between 1990-2019 Using the Global Burden of Disease Database
- 9:27 Randomized Controlled Trial of Integrated Adherence Support to Improve Treatment Outcomes in Patients With Drug-resistant Tuberculosis and HIV
- 9:39 Investigating the Efficacy of Integrating Video Directly Observed Therapy (VDOT) in the Treatment of Tuberculosis (TB): A Statewide Analysis From Florida
- 9:51 Cholesterol 25-hydroxylase Promotes Survival and Modulates Immune Cell Recruitment to the Lung During Mycobacterium Tuberculosis Infection

Featured Speaker Presentation:

- 10:03 Applying Knowledge for a Healthier Tomorrow: Shaping the Future of Tuberculosis

BASIC • TRANSLATIONAL**MINI SYMPOSIUM****D18 DEVELOPMENT AND REGENERATION: UNVEILING THE SECRETS OF LUNG RENEWAL**

8:15 a.m. - 10:15 a.m. San Diego Convention Center
Room 32A-B (Upper Level)

Featured Speaker Presentation:

- 8:15 Optimizing Repair: What Have We Learned From Lung Development

Oral Presentations:

- 8:27 Erbb Family Receptors Regulate Mobilization and Differentiation of Human Airway Submucosal Gland Basal Stem/progenitors
- 8:39 FOX11 Deletion Results in Ionocyte Deficiency and Altered Cellular Composition of an Induced Pluripotent Stem Cell Airway Epithelium
- 8:51 Single-cell Multiomics Identifies Impact of Prenatal Heavy Metal Exposure on Airway Development
- 9:03 Maternal Smoke-Induced Low CC16 Expression Is Associated With Impaired Alveologenesis and Lower Lung Function in Adulthood
- 9:15 Post-natal Human Lung Development Shows Most Dramatic Changes in Epithelial Cell Differential Gene Expression During Neonate to Infant Transition
- 9:27 NF- κ B Activation During Alveolar Epithelial Regeneration
- 9:39 Activation of mTOR Signaling in Adult Lung Microvascular Progenitor Cells Accelerates Lung Aging and Defines a Capillary Progenitor Niche
- 9:51 Claudin-18 Regulates Alveolar Epithelial Cell Plasticity and Regeneration
- 10:03 A Novel Patient-derived Induced Pluripotent Stem Cell-based Model of Telomere-related Pulmonary Fibrosis

BASIC • CLINICAL

MINI SYMPOSIUM

D19 UNRAVELING THE IMPACT OF OSA ON NEUROCOGNITIVE FUNCTION

8:15 a.m. - 10:15 a.m. San Diego Convention Center
Room 30A-B (Upper Level)

Featured Speaker Presentation:

8:15 Impact of Obstructive Sleep Apnea on Alzheimer's Disease Pathology and Clinical Stage Progression

Oral Presentations:

- 8:27 Gender Specific Differences in a National Sample of Individuals With Comorbid Insomnia, Obstructive Sleep Apnea (OSA), and Depression
- 8:39 Associations of Insomnia Symptoms With SARS-CoV-2 Infection and Recovery: The Collaborative Cohort of Cohorts for COVID-19 Research (C4R) Study
- 8:51 Association of Sleep Apnea Physiological Burdens and Markers of White Matter Injury: The Multi-ethnic Study of Atherosclerosis
- 9:03 Association of the Electroencephalographic Response to Respiratory Events and Cognitive Function in Obstructive Sleep Apnea
- 9:15 Cognitive Deficits in Mice Exposed to Very Long-term Intermittent Hypoxia During the Rest Period
- 9:27 Psychomotor Vigilance Test Metrics in Obstructive Sleep Apnea Symptom Subtypes
- 9:39 Neurocognitive Function in Obstructive Sleep Apnea Symptom Subtypes
- 9:51 The San Diego Verbal Paired-associates (SD-VPA) Task: Predictors of Sleep Dependent Memory in Patients With Obstructive Sleep Apnea
- 10:03 Single Nucleus RNA-seq (snRNA-seq) Analysis of Human Neurovascular Unit (NVU) Cells Exposed to Circulating Exosomes Derived From Children With OSA and Controls

BASIC • TRANSLATIONAL

MINI SYMPOSIUM

D20 NOVEL INSIGHTS IN LUNG CANCER: MECHANISTIC ORIGINS TO OUTCOMES

8:15 a.m. - 10:15 a.m. San Diego Convention Center
Room 8 (Upper Level)

Oral Presentations:

- 8:15 Pro-tumorigenic Effects of Chronic Nicotine and No-nicotine E-cigarette Exposure in Mice
- 8:27 Low-pass Whole Genome Sequencing of Bronchoalveolar Lavage Fluid in Lung Cancer
- 8:39 Long Read Transcriptome Sequencing Reveals Abundant Tumor Specific Splicing Isoforms in Lung Cancer
- 8:51 Extracellular Vesicle MicroRNAs Can Differentiate Between Malignant and Non-malignant Pleural Effusion
- 9:03 Sex-based Differences in Response to Immunotherapeutic Modalities in Kras Mutant Lung Cancer
- 9:15 Hyper-interferon Sensitive Influenza Virus (HIS) Induces Immune Activation and Sensitizes Murine Non-small Cell Lung Cancer to Anti-PD-1
- 9:27 Novel Radiomic Biomarkers for Immune Checkpoint Inhibitor Treatment in Patient With Non-small Cell Lung Cancer by Predicting the Contexture of Tumor Infiltrating Lymphocytes in Tumor Microenvironment
- 9:39 Lower Airway Microbiome Signatures Associated With Clinical Outcomes in Non-Small Cell Lung Cancer Patients With Immunotherapy Treatment
- 9:51 Anti-cancer Immune Activation Post Bronchoscopic Thermal Ablation in Non-small Cell Lung Cancer
- 10:03 Early Detection and Prognosis of Metastatic Lung Cancer Using Bioengineered Implants

BASIC • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

D21 TERMINATOR: CONTROL OF AIRWAY INFLAMMATION AND IMMUNE RESPONSE IN ASTHMA

8:15 a.m. - 10:15 a.m. San Diego Convention Center

Room 31A-C (Upper Level)

Poster Viewing 8:15-9:00

Discussion 9:00-10:15

- | | | | |
|-----|---|-----|---|
| 801 | Rhinovirus Replication and Innate Immune Responses in Bronchial Epithelium From Children With Severe Asthma Exacerbation History | 811 | The High Affinity Anti-IL-33 Antibody Itepekimab Potently Blocks IL-33 Induced Activation of the ST2/IL-1RAcP Signaling Complex and Inhibits Key Mediators of Airway Inflammation |
| 802 | T2 Inflammation Predicts Severity More Strongly in T1/CCL5 ^{High} Asthma Than in T1/CCL5 ^{Low} Asthma | 812 | Blocking IL-25 Inhibits Pulmonary Neutrophilic Inflammation During Rhinovirus Exacerbation of Allergic Airways Disease |
| 803 | Rev-erb α Agonist (SR9009) Attenuates House Dust Mite (HDM)-induced Lung Inflammation in a Preclinical Mouse Model of Allergic Asthma | 813 | Potent and Selective Oral STAT6 Degradators Inhibit IL-4 and IL-13 Functions in Human Cells and Block TH2 Inflammation in a House Dust Mite Mouse Model of Asthma |
| 804 | IRL201104, A Novel Immunomodulatory Peptide, Shows Efficacy on Inflammatory Endpoints and Airway Hyperresponsiveness in a House Dust Mite Driven Model of Allergic Inflammation With or Without Poly I:C Exacerbation | 814 | Intranasal Allergen Exposure Drives Lymphoid Aggregate Formation, Local Class-switching and Ige ⁺ Plasma Cell Accumulation in the Lung |
| 805 | High Airway Interleukin (IL)-6 Is Associated With Increased Blood IL-6 in Asthma Following Segmental Bronchoprovocation With Allergen | 815 | CFTR Prevents Type 2 Inflammation by Reducing IL-4 Signaling in Th2 Cells |
| 806 | Innate Immune Mechanisms Associated With Exacerbations on Mepolizumab | 816 | Protective Role of Nrf2 in HDM-induced Neutrophilic Airway Inflammation |
| 807 | A Peptide Fragment of the Actin-binding Protein Gelsolin Attenuates IgE-mediated Mast Cell Degranulation In Vitro and Murine Mast Cell Calcium Oscillations Ex Vivo | 817 | Gs Biased Positive Allosteric Modulation of Beta 2 Adrenergic Receptor Signaling Increases Antiviral Response in Cultured Human Bronchial Epithelial Cells |
| 808 | miR-15a-5p Has Vitamin A-dependent Effect on Lung Volume in Children With Asthma | 818 | A Multiple Ascending-dose Study With Verekitug, A Novel Antibody to the Human Thymic Stromal Lymphopoietin Receptor, in Adults With Asthma |
| 809 | Mast Cell Immune Responses to Primary Infection With Human Rhinovirus A16 Are Differentially Regulated by the Airway Epithelium | 819 | Proteomic and Transcriptomic Analysis of Residual Steroid-responsive Inflammation in Mepolizumab Treated Patients |
| 810 | Differential Epithelial Responses to Allergen in Type 1 and Type 2 Inflammatory Environments | 820 | Pulmonary Innate Lymphoid Type II Cells in Perinatal Vaping-induced Asthma in Offspring |
| | | 821 | Biased Signaling of Chemokine Receptor CCR1 in Asthma |
| | | 822 | The Asthma Impairment and Risk Questionnaire (AIRQ [®]) Predicts Exacerbation Risk in Patients With Mild-to-Moderate and Severe Disease |
| | | 823 | TSLP Responses to Rhinovirus Infection by Bronchial Epithelium From Children With T2 High and T2 Low Asthma, With and Without History of Severe Exacerbation |
| | | 824 | Efficacy and Safety of Rilzabrutinib - A Novel Oral Treatment in Asthma: Results From a Double Blind Placebo Controlled Phase 2 Study |

825 Improved Lung Function and Asthma Control Observed With Rademikibart in Patients With Moderate-to-Severe Uncontrolled Asthma (CBP-201-WW002)

BEHAVIORAL • CLINICAL

POSTER DISCUSSION SESSION

D22 ADVANCES IN HEALTH SERVICES RESEARCH IN ASTHMA

8:15 a.m. - 10:15 a.m. San Diego Convention Center

Room 30C-E (Upper Level)

Poster Viewing 8:15-9:00

Discussion 9:00-10:15

- 701 Advancing Equity in Mobile Health Tools for Asthma: A Focus Group Study of Hispanic and Latinx Community Perspectives
- 702 Association of Cardiovascular Disease, Pulmonary Embolism, and Pneumonia With Inhaled Corticosteroid Use in Asthma: A UK Cohort Study
- 703 Cost Analyses of an As-needed 60-actuation Vs. 120-actuation Budesonide-Formoterol pMDI for Patients With Mild Asthma From a United States Payor Perspective
- 704 Development and Feasibility of Provider Support Materials to Implement As-needed Inhaled Corticosteroid Therapy for Mild Asthma in the Community Practices
- 705 Trends and Factors Influencing Inhaled Corticosteroid (ICS) Adherence: Real-world Data From Multi-ethnic Asian Asthma Cohort
- 706 Temporal Trend of Inhaled Corticosteroid (ICS) and Short-Acting Beta 2 Agonist (SABA) Prescription Patterns: Analysis From a Real-World Multi-Ethnic Asian Asthma Cohort
- 707 A Real-World Data Analysis of the Trends and Variables Associated With Excessive Short-Acting Beta2 Agonist (SABA) Dispensing Among a Multi-Ethnic Asian Asthma Cohort
- 708 Reducing Short Acting Beta2 Agonist (SABA) Prescription Refills in Specialist Treated Asthma: A Quality Improvement Initiative

- 709 Implementation of a State-wide Undesignated Stock Inhaler Program in Illinois
- 710 Characterization of Patients With Severe Asthma Who Initiated Biologic Treatment Within ≤ 90 and >90 Days After Biologic Eligibility
- 711 Real-world Patient Characteristics and Factors Associated With Biologic Prescriptions in Asthma Patients Eligible for Add-on Biologic Therapies
- 712 Real World Corticosteroid Effect of Anti-IL-5/5R α in Eosinophilic Asthma
- 713 Reduction of Systemic Corticosteroid (SCS) Related Complications With Mepolizumab in Severe Asthma: A Real-World Assessment
- 714 Social Determinants of Prescribing Omalizumab in Asthma
- 715 Assessing the Effectiveness of the Community Asthma Program in Enhancing Pediatric Asthma Management on the Navajo Nation
- 716 Is a Shared Decision-making Intervention Developed for Adults With Asthma Appropriate for Early Adolescents With Asthma and Their Caregivers? Results of Breathe-peds Focus Groups
- 717 Patient Experiences During Acute Exacerbation of Asthma: Survey Results
- 718 International Variation in Exacerbation Rates in Patients With Severe Asthma
- 719 Towards a Patient-centric Definition of Asthma Remission: An Interim Analysis of a Multi-country, Qualitative Study
- 720 Promoting Evidence-based Asthma Care Using Digital Knowledge Translation Tools - Impact of the Provider Asthma Assessment Form
- 721 The Asthma Medication Ratio Performance Measure Fails to Measure Asthma Care in the Majority of Patients With Poor Asthma Control
- 722 The Invisible Threads of Asthma: Exploring the Link Between Asthma, Mental Health, and Social Participation in Brazilian Adults
- 723 General Practice (GP) Text Messaging Support for Medication Adherence in Asthma and COPD Patients: A Randomised Controlled Trial

CLINICAL

POSTER DISCUSSION SESSION

D23 DON'T LOSE YOUR HEAD! CRITICAL CARE CASES WITH NEUROLOGIC CONSEQUENCES

8:15 a.m. - 10:15 a.m. San Diego Convention Center
Room 1A-B (Upper Level)

Poster Viewing 8:15-9:00
Discussion 9:00-10:15

- 201 Avoiding Premature Brain Death Declaration in Patients With Suspected Baclofen Overdose
- 202 Acute Demyelinating Neuromuscular Paralysis Due to Isolated Bone Marrow Hodgkin's Lymphoma: First Report
- 203 Ouch My Chest Hurts! Paraganglioma Induced Hypertensive Crisis and Stroke
- 204 Reversal of Locked-in Syndrome via Therapeutic Hyponatremia and Gradual Correction
- 205 Unveiling Diagnostic Challenges: A Case of Anti-NMDAR Encephalitis in the Intensive Care Unit
- 206 Acute Meningitis: An Atypical Infection Due to Streptococcus Constellatus
- 207 Brain Death in Posterior Fossa Infarct
- 208 An Underestimated Toxin: The Case of Intentional Benzonatate Overdose Resulting in Seizure and Cardiac Arrest
- 209 Baroreceptor Failure in a Patient With Ehlers-danlos Syndrome and Multiple Spine Surgeries
- 210 Salty, Sweet, and Severe: A Case of Linagliptin-induced Severe Hyponatremia
- 211 Spinal Cord Infarction Associated With VA-ECMO Support
- 212 When the Brain Goes Nuts With Celebrating - A Case of Seizures From the Over Consumption of Betel Nut
- 213 Multifactorial Encephalopathy: A Rare Case of Primary Central Nervous System (CNS) Lymphoma With Hypothalamic and Pituitary Involvement
- 214 Hiding in Plain Sight: Insulinoma Presenting With Intractable Seizures

- 215 West Nile Virus Meningoencephalitis in Liver Transplantation
- 216 A Case of a Rapidly Progressive Brain Abscess Resulting in Intraventricular Rupture and Pyogenic Ventriculitis
- 217 Rare Case of Disseminated Varicella-Zoster With Acute Encephalitis in a Patient With Polysubstance Use Disorder
- 218 An Unusual Case of Bilateral Carotid Artery Dissection Associated With SARS-CoV-2
- 219 Neuroborreliosis and Babesiosis Associated Acute Inflammatory Demyelinating Polyneuropathy (AIDP) and Syndrome of Inappropriate Antidiuretic Hormone Release (SIADH)
- 220 Mind Over Matter? Not in the Case of Malignant Catatonia
- 221 Hyponatremia in Guillain-Barre Syndrome - Diagnostic Challenges
- 222 Diagnostic Ambiguity in Brain Death
- 223 A Case of Chronic Inflammatory Demyelinating Polyneuropathy After COVID-19 Vaccination
- 224 From Painkiller to Brain Thriller: The Curious Case of Fentanyl-induced Serotonin Syndrome
- 225 Unraveling a Complex Case of Miller Fischer Syndrome

CLINICAL

POSTER DISCUSSION SESSION

D24 IF IT QUACKS LIKE A ZEBRA: INTERESTING CASE REPORTS IN DIFFUSE PARENCHYMAL LUNG DISEASE

8:15 a.m. - 10:15 a.m. San Diego Convention Center
Room 5A-B (Upper Level)

Poster Viewing 8:15-9:00
Discussion 9:00-10:15

- 601 Should We Consider Zebras as Diagnosis Despite Never Seeing One Before? A Case of Pulmonary Alveolar Microlithiasis in a Young Hispanic Patient, an Ultra-Rare Lung Disease

- 602 A Pulmonary Alveolar Proteinosis Mimicker: Severe Idiopathic Plastic Bronchitis Requiring Veno-Venous Extracorporeal Life Support as a Bridge for Diagnostic Bronchoscopy and Celiac Plexus Alcohol Ablation of the Thoracic Duct
- 603 Pulmonary Alveolar Proteinosis, A Rare Case of Pulmonary Alveolar Proteinosis With Extensive Bibasilar Fibrosis
- 604 Recurrent Pulmonary Hemorrhage in a Young Adult
- 605 Prior Repeat Cardiac Surgery in a Lung Donor: A Tale of Two Lungs, Two Sternotomies, Two Double Valve Operations, and Two Patients
- 606 Plastic Bronchitis as a Complication of Primary Graft Dysfunction After Single Lung Transplantation
- 607 Lung Transplantation With Donor Allograft Partial Anomalous Pulmonary Venous Return
- 608 Radiologic Improvement in Native Lung After Single Lung Transplantation for Coronavirus 19 (COVID-19)
- 609 Anti-melanoma Differentiation-Associated Gene 5 Dermatomyositis Complicated by Rapidly Progressive Interstitial Lung Disease With Successful Bilateral Orthotopic Lung Transplant
- 610 Successful Pregnancies in a Patient With Severe Antisynthetase Syndrome-Related Interstitial Lung Disease (AS-ILD)
- 611 Interstitial Lung Disease in a Patient With Hydroxyurea-associated Dermatomyositis-like Eruption With Abnormal P53 Expression
- 612 A Unique Case of Anti-melanoma Differentiation-associated Gene 5 (Anti-MDA5) Dermatomyositis (DM) Associated With Spontaneous Abortion
- 613 Anti-Neutrophil Cytoplasmic Antibody Associated Vasculitis Mimicking Bacterial Pneumonia
- 614 Pulmonary Sarcoidosis Improving After Rituximab Treatment for Concomitant IgG4-Related Disease
- 615 Immunotherapy Surprise Twist: First Lung-Limited Sarcoid-Like Reaction in Gynecologic Cancer Treated With Dostarlimab
- 616 A Case of a Successfully Suppressed Cardiac Sarcoidosis That Recurred Following a Heart Transplant
- 617 Atypical Association of Sweet Syndrome and Pulmonary Sarcoidosis
- 618 Pembrolizumab-induced Tracheobronchitis
- 619 An Unusual Case of Recalcitrant Hypercalcemia Associated With a Common Immune Checkpoint Inhibitor
- 620 A Critical Case of Hydralazine-induced Vasculitis Presenting With Pulmonary Renal Syndrome
- 621 Silicone Lymphadenopathy From Saline-based Breast Implant With Silicone Elastomer Shell Causing Mediastinal Lymphadenopathy
- 622 Unveiling the Enigmatic: Thoracic Splenosis - A Rare Intriguing Phenomenon
- 623 Late Onset Small Bowel Transplant Lymphoproliferative Disorder Presenting as a Solitary Pulmonary Mass
- 624 Crazy Paving Pattern Presenting as a Rare Manifestation of Myelodysplastic Syndrome
- 625 Pulmonary Tumor Thrombotic Microangiopathy Leading to the Discovery of Underlying Gastric Adenocarcinoma

CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

D25 EMERGING RESEARCH IN COUGH, CYSTIC FIBROSIS AND BRONCHIECTASIS

8:15 a.m. - 10:15 a.m.

San Diego Convention Center

Room 33A-C (Upper Level)

Poster Viewing

8:15-9:00

Discussion

9:00-10:15

901 Development of the McMaster Cough Severity Questionnaire (MCSQ): A Cough Severity Instrument for Patients With Chronic Cough

902 Feasibility Study of Smartwatch as a Remote Cough Monitor for Patients With Interstitial Lung Disease: Preliminary Result

903 Validation of an Acoustic AI Cough Monitoring System

- 904 Using Cough Sounds to Predict Chest Radiography Results
- 905 Cough-omics: Quantifying the Variability and Predictability of Daily Cough Counts in Persistent Coughers
- 906 Can Hypotonic Saline Cough Challenge Help Us to Understand Mechanisms of Cough in Idiopathic Pulmonary Fibrosis?
- 907 Camlipixant Reduces Burden of Cough-related Urinary Incontinence in Patients With Refractory Chronic Cough in Post-hoc Analysis of A Phase 2b Trial
- 908 Using Continuous Cough Monitoring to Assess Bronchiectasis Therapy
- 909 The Clinical Impacts of Pseudomonas Aeruginosa Isolation in Patients With Bronchiectasis: Insights From KMBARC Registry
- 910 Impact of Age in Hospital Mortality in ICU-admitted Bronchiectasis Patients
- 911 Clinical Characterization of Patients With COPD-Bronchiectasis Overlap: Data From the US Bronchiectasis and NTM Research Registry
- 912 Association Between Exacerbation Burden and Comorbidities Among Patients With Non-Cystic Fibrosis Bronchiectasis Over 1 Year
- 913 A Phase 1 Study of Brensocatib Following a Single Oral Administration in Subjects With or Without Renal Impairment
- 914 Symptom Phenotyping in Adults With Cystic Fibrosis During a Large Randomized Clinical Trial
- 915 Finger on the Pulse: A Single Center Snapshot of Cardiovascular Health in Adults With Cystic Fibrosis
- 916 Non-invasive Ventilation in Cystic Fibrosis: A 23-year Analysis of the Australian Cystic Fibrosis Data Registry
- 917 Breath Biopsy® Reveals Promising VOC Biomarkers for Early Detection and Monitoring of Acute Pulmonary Exacerbations in People With Cystic Fibrosis
- 918 Extrapulmonary Effects of Elexacaftor/Tezacaftor/Ivacaftor After One Year and Trends in Future Care

- 919 Effects of Trikafta on Important Markers of Cystic Fibrosis-Related Liver Disease
- 920 Long-term Impact of Elexacaftor/Tezacaftor/Ivacaftor (ETI) Therapy in Cystic Fibrosis on Pulmonary Function, Nutritional Status, Exacerbations, Quality of Life, Exercise Capacity, and Sweat Chloride: A Single-center Study
- 921 Elexacaftor/Tezacaftor/Ivacaftor (ETI) in Combination With Tacrolimus After Lung Transplant
- 922 Diet Composition and Elexacaftor-Tezacaftor-Ivacaftor Concentrations in People With Cystic Fibrosis
- 923 Gender-based Disparities in Trikafta Efficacy for Cystic Fibrosis Patients
- 924 The Case of 7T: Clinical Insights on the Intronic 7T Variant in the CFTR Gene
- 925 Brain Ventricular Volumes Are Not Increased in Patients With Primary Ciliary Dyskinesia

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

D26 UNVEILING CONNECTIONS: TOBACCO, CANNABIS, E-CIGARETTES, AND RESPIRATORY HEALTH INSIGHTS

8:15 a.m. - 10:15 a.m. San Diego Convention Center

Room 6E (Upper Level)

Poster Viewing 8:15-9:00

Discussion 9:00-10:15

- 1001 Identification of a Dietary Pattern for Lung Epigenetic Aging and Its Associations With Lung Health and Mortality in Ever Smokers
- 1002 Social Determinants of Health Associated With Frailty in Smokers: Analysis of the COPD Gene Cohort
- 1003 Frailty Is Associated With Respiratory Exacerbations and Mortality in Smokers With and Without COPD

- 1004 Similarities Between COPD Gold Stage and E-cigarette Users: A Computational Modeling Comparison of Sputum Soluble Mediator Profiles
- 1005 Exploring the Relationship Between Body Mass Index, Smoking, and Idiopathic Pulmonary Fibrosis: Insights From a Mendelian Randomization Study
- 1006 Relighting Characteristics in an Urban, Underserved, and Predominantly Minority Population
- 1007 The Pittsburgh Vaping Questionnaire: A Novel Instrument to Assess E-cigarette Use in Adults
- 1008 Disproportionate Use of the Emergency Department by Patients 3-years After EVALI
- 1009 Evaluation of the Validity and Reliability of the University of California San Diego Inhalant Use Questionnaire
- 1010 Triple Threat: Examining the Concurrent Use of E-cigarettes, Combustible Cigarettes, and Marijuana and the Public Health Implications
- 1011 Puff Volume Mediates Heavy Metal Exposure Levels and Oxidative Injury in Ends Users
- 1012 Effects of E-cigarette Whole Body Aerosol Exposure on Lung Inflammation to an Acute Streptococcus Pneumoniae Challenge in Mice
- 1013 The Impact of Electronic Cigarettes on Airway Epithelial Barrier Integrity in Preclinical Mouse and Ex Vivo Models
- 1014 Association of E-cigarette Use With Circulating Eosinophils and Basophils Differs by HIV Serostatus
- 1015 E-cigarette Users Report Increased Respiratory Symptoms and Dyspnea Compared to Non-users
- 1016 E-cigarette/Vaping Associated Lung Injury (EVALI) Severity Correlates With Reduced Diffusing Capacity, Need for Lung Biopsy, and Deposition of Titanium in Lung Tissue
- 1017 Long Term Health Outcomes for Patients With E-cigarette or Vaping Associated Lung Injury (EVALI) Compared to Matched Controls
- 1018 Cannabis Vapor and Smoke Show Similar Toxic Effects on Human Bronchial Epithelial Cells
- 1019 Urban-rural Divide in Household Rules Limiting Smoking, Other Tobacco, and E-cigarette Use
- 1020 Inhalant Usage Patterns in San Diego County
- 1021 The Relationship Between Cannabis Metabolites and Self-reported Use With Respiratory Symptoms and Spirometry in the Colorado Cannabis Cohort
- 1022 Save Smoker's Lungs and Heart: Say Yes to Inpatient Varenicline
- 1023 Evaluating the Impact of Active Vs Passive Online Recruitment for a Smoking Cessation Program: Leveraging Search and Social Media
- 1024 Epigenetic Signatures of Cigarette Smoke Exposure in a Murine Model
- 1025 Effect of Smoking Cessation on COPD-dysregulation of the Alveolar Macrophage Transcriptome

BASIC • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

D27 LATE BREAKING WAVE! LATE BREAKING ABSTRACTS IN PULMONARY VASCULAR DISEASE

8:15 a.m. - 10:15 a.m.

San Diego Convention Center

Room 25A-C (Upper Level)

Poster Viewing

8:15-9:00

Discussion

9:00-10:15

- 401 Therapeutic Implications of Plasma Proteome Clusters in Pulmonary Hypertension
- 402 Phase-resolved Functional Lung-MRI-derived Parameters in Evaluation of Chronic Thromboembolic Pulmonary Hypertension: A Prospective Study
- 403 Early Markers of Pulmonary Vascular Pathology in Preterm Infants With Bronchopulmonary Dysplasia
- 404 Impaired Angiogenesis and Its Underlying Mechanisms in Chronic Thromboembolic Pulmonary Hypertension
- 405 A PAH Drug Ranking Strategy for Individualized Combination Therapy Via Pulmonary Endoarterial Biopsy

- 406 CAR Peptide Targeted Liposomes Loaded With an Admixture of Fasudil and DETA Nonoate for the Treatment of Pulmonary Arterial Hypertension
- 407 DHCR7 Deficiency Promotes 7 β -hydroxycholesterol Accumulation and Endothelial Apoptosis in Pulmonary Hypertension
- 408 Canagliflozin, An SGLT2 Inhibitor, Prevents Lung Remodeling in Chronic Left Ventricular Failure
- 409 Advanced 3D Arterial Microvessel-on-Chip to Model Pulmonary Arterial Hypertension (PAH)
- 410 STIM1 Contributes to Endothelial-to-Mesenchymal Transition in Pulmonary Hypertension
- 411 Mitochondrial c-Src Regulates Right Ventricular Fibroblast Metabolic Function and Activation in Pulmonary Hypertension
- 412 Telangiectatic Pulmonary Arteriovenous Malformations in Hereditary Hemorrhagic Telangiectasia
- 413 Reversal of Inflammatory Reprogramming at Single Cell Resolution by Vasodilator Agents in Pulmonary Arterial Hypertension
- 414 Hymecromone Improves Functional Performance in Individuals With Group 3 Pulmonary Hypertension
- 303 Assessing Aberrations of Pulmonary Immune Cells in Bronchopulmonary Dysplasia Using Single Nuclear Sequencing and Multiplexed Immunofluorescence (MxIF) Microscopy
- 304 Differences in the Early Airway Expression of Thrombospondin-1 Protein in Extremely Low Birth Weight Infants With and Without Bronchopulmonary Dysplasia
- 305 Single Cell Transcriptomics of Airway Cells From Primary Ciliary Dyskinesia (PCD) Patients Reveal Activation of Novel Motile Cilia Dedicated Pathways
- 306 Peripheral Blood Gene Expression Profiles in Childhood Interstitial Lung Disease
- 307 Plasma Proteomics Identifies Molecular Features of Bronchiectasis in Cystic Fibrosis
- 308 Plasma Proteomic Profiles at Age 1 Year Capture Disruption Related to Respiratory Infection Risk
- 309 A Prognostic Proteomic Signature of Immune Dysregulation Is Present at Onset of Multiple Organ Dysfunction Syndrome in Pediatric Patients With and Without Sepsis
- 310 Derivation, Validation, and Transcriptomic Assessment of Pediatric Septic Shock Molecular Phenotypes Identified Through Latent Profile Analyses

BASIC • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

**D28 PEDIATRIC PULMONOLOGY
BENCH-TO-BEDSIDE: GENETICS,
WHOLE-EXOME SEQUENCING, AND
OMICS**

8:15 a.m. - 10:15 a.m. San Diego Convention Center

Room 28C-E (Upper Level)

Poster Viewing 8:15-9:00

Discussion 9:00-10:15

- 301 Pulmonary Microbiome and Transcriptome Signatures Reveal Distinct Biologic States of Lung Injury in Two Cohorts of Pediatric Stem Cell Transplant Patients
- 302 A Transcriptome-wide Association Study of Sex Effects on Nasal Epithelial Gene Expression in Two Cohorts of Children and Adolescents

- 311 Association of 17q12-q21 Asthma Risk Locus With Severity of Infant Respiratory Syncytial Virus Infection
- 312 Rhinovirus (HRV) Infection Drives Severe Wheezing Episodes in Toddlers: Viral Metagenomic Analysis in the WINDOWS Study
- 313 Differential Expression of MicroRNA 24-3p and Frequency of Awakenings Due to Asthma Symptoms in Two Independent Cohorts
- 314 A Novel Pediatric Cystic Lung Disease Caused by CCR2 Deficiency
- 315 Bi-allelic LAMP3 Variants in Three Children With Interstitial Lung Disease: Evidence of a Novel Disease-gene Association
- 316 Rapid Whole Genome Sequencing (WGS) in Diagnosing the Etiology of Refractory Pulmonary Hypertension of the Newborn (PPHN)
- 317 Recurrent Pneumothorax: A New Manifestation of Filamin A (FLNA) Deficiency

- 318 Severe Cystic Fibrosis-Like Fatal Chronic Obstructive Lung Disease Due to Rare Mutation in Anterior Gradient-2 (AGR-2) Gene
- 319 Autosomal Dominant De Novo FOXJ1 Variant in a Pediatric Patient With Primary Ciliary Dyskinesia - A Case Report
- 320 Novel Filamin A Mutation With Interstitial Lung Disease Initially Misdiagnosed as Post-infectious Bronchiolitis Obliterans
- 321 Novel CSF2RB Mutation Associated With Hereditary Pulmonary Alveolar Proteinosis in a Child
- 322 Try, Try Again: The Importance of Expanded Genetic Evaluation in Patients With Bronchiectasis of Unclear Etiology
- 323 Adipose Tissue Transcriptomics and Measures of Obesity-Related Asthma in Children
- 106 Assessment of the Clinical Value of an Oscillating Positive Expiratory Pressure (OPEP) Device and Active Cycle of Breathing Technique (ACBT) for Chronic Obstructive Pulmonary Disease (COPD) Post Exacerbation: A 12 Week Prospective, Randomized Study Using the Leicester Cough Questionnaire (LCQ) and COPD Assessment Test (CAT)
- 107 Comparison of Virtual and In-person Pulmonary Rehabilitation Completion Rates and Clinical Outcomes in Patients With Chronic Obstructive Pulmonary Disease
- 108 Exploring the Participant's Experience of Home-based Pulmonary Rehabilitation With Health Coaching After a COPD Related Hospitalization
- 109 To Determine the Effectiveness of Pulmonary Rehabilitation on Functional Exercise Capacity and Health-related Quality of Life (HRQOL) in Patients With Post Tuberculosis Lung Disease: Pre-and Post- Interventional Cohort Study

BEHAVIORAL • CLINICAL**POSTER DISCUSSION SESSION****D29 INSIGHTS INTO MECHANISMS AND EFFECTIVENESS OF DIFFERENT COMPONENTS OF PULMONARY REHABILITATION**8:15 a.m. - 10:15 a.m. Marriott Marquis San Diego Marina

Pacific Ballroom 15-17 (Ground Floor, North Tower)

Poster Viewing 8:15-9:00

Discussion 9:00-10:15

- 101 Discrepancy Between Exercise Tolerance and Physical Activity in Treatment-naive COPD
- 102 How About the Exercise Capacity and Symptoms in Individuals With Preserved Ratio Impaired Spirometry (PRISM): A Cross-sectional Study?
- 103 Respiratory Response to Exercise in Primary Ciliary Dyskinesia
- 104 The Impact of Exercise on Respiratory Mechanics as Measured by Forced Oscillation Technique in Primary Ciliary Dyskinesia
- 105 Chest Wall Vibroacoustic Therapy in Patients With Severe COVID-19: A Pilot Feasibility Study

- 110 Aerobic Training Versus Behavioral Intervention to Increase Physical Activity in Patients With Asthma: A Preliminary Data From a Randomized Clinical Trial
- 111 Respiratory Versus Limb Muscle Dual Tasking on Prefrontal Cortex Activity and Cognitive Performance in Healthy Adults
- 112 Classification of Exercise Intolerance in Formerly Deployed Veterans Varies Substantially With Choice of Reference Equation

BASIC • TRANSLATIONAL**POSTER DISCUSSION SESSION****D30 A NARROW ROAD TO AIRWAY HYPERRESPONSIVENESS**8:15 a.m. - 10:15 a.m. San Diego Convention Center

Room 11A-B (Upper Level)

Poster Viewing 8:15-9:00

Discussion 9:00-10:15

- 501 Alleviating Airway Hyperresponsiveness and Remodeling by $\alpha 7nAChR$ Inhibition and $\alpha 7nAChR$ Ko in a Mouse Model of Asthma

- 502 IL-33/ST2 Regulates Tissue Remodeling Via MAPK and NF- κ B Pathways in Nasal Polyp
- 503 Targeting BDNF/arginase Pathways in Airway Remodeling
- 504 Establishing a 3D Vascularized Triculture Model of the Human Lung Airways Using a Digital Light Processing Bio-printer
- 505 TSLP, IL-4 and IL-13 Increase Transcriptional Programs Associated With Hypercontractility in Human Airway Smooth Muscle
- 506 Hyperoxia-induced Inflammatory Senescence Phenotype in Human Fetal Airway Smooth Muscle Is Targetable With Senolytic Therapy
- 507 Antagonizing N-Cadherin in Airway Smooth Muscle Cells Confers Bronchoprotection
- 508 Effect of Diet-induced Obesity and Genetic Deficiency of G Protein-coupled Receptor 1 on Ozone-induced Increases in Airway Responsiveness
- 509 Rhinovirus C15 (RV-C15) Infection of Airway Epithelia Attenuates Bronchodilator Responsiveness Via Production of Vascular Endothelial Growth Factor (VEGF)
- 510 Nicotine-induced ER Stress and ASM Cell Proliferation Is Mediated by α 7nAChR and Chaperones-RIC-3 and NACHO
- 511 Sex-steroids Differentially Skew Leptin/Adiponectin Signaling and Their Effects on Airway Smooth Muscle Cell Remodeling
- 512 Inhaled S-nitrosoglutathione (GSNO) Can Serve as an Acute Bronchodilator in Human Asthma, Augmenting the Effect of Albuterol
- 513 Desensitization of the Muscarinic M3 Receptor Inhibits Airway Hyperresponsiveness in a Murine Model of Asthma
- 514 PD-102807, A Beta-arrestin Activator, Inhibits the Contraction of Airway Smooth Muscle
- 515 Prematurity and Low Birth Weight Does Not Affect Airway Smooth Muscle Thickness in Sudden Infant and Early Childhood Death
- 516 Piezo Channels Modulate Stretch-induced Remodeling and Calcium Regulation in Human Lung Fibroblasts
- 517 Crosstalk Between Piezo Channels and the STIM1-Orai1 Pathway Mediates Mechanical Stretch-induced Increases in Intracellular Calcium Signaling in Human Airway Smooth Muscle Cells
- 518 Diacylglycerol Generated by Diacylglycerol Kinase Inhibition Reduces Airway Smooth Muscle Cell Contraction
- 519 Role of GPRC5A in Human Airway Smooth Muscle Remodeling
- 520 Airway Smooth Muscle Cell Phenotype Is Determined by Myocardin-Elk-1 Competition for Serum Response Factor
- 521 Trefoil Factor 3 (TFF3) Attenuates β ₂-agonist Responsiveness of Human Airway Smooth Muscle (HASM) and Precision Cut Lung Slices (hPCLS)
- 522 Assessment of Albuterol Response Reveals Sex Dependent Bronchodilation in a Murine Model of Allergic Asthma
- 523 Pitavastatin Induces Airway Smooth Muscle Relaxation Through the Actin-severing Action of Cofilin: A Role for Inhaled Statins in Acute Bronchodilation
- 524 Investigating Genome Wide Dna Methylation in Airway Smooth Muscle Cells From Asthmatic and Non-asthmatic Donors
- 525 Activation of PIEZO1 Evokes Calcium Flux and Promotes Human Airway Smooth Muscle Cell Relaxation

PEDIATRIC CLINICAL CORE CURRICULUM

PCC3 PEDIATRIC CLINICAL CORE CURRICULUM 3

9:30 a.m. - 10:30 a.m.

San Diego Convention Center

Ballroom 20A (Upper Level)

Target Audience:

All attendees

Objectives

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

- discuss the management of pediatric ARDS, massive hemoptysis, and severe asthma in the ICU

- explain the role of the pediatric pulmonologist in a cardiovascular ICU
- identify strategies to approach discussions around tracheostomy and for planning effective transition out of the ICU

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.

10:30 To Trach or Not To Trach: Navigating Discussions in the ICU

10:55 Transitioning Patients with Tracheostomy Out Of the ICU, A Roadmap

11:20 Question and Answer



ADULT CLINICAL CORE CURRICULUM

CC6 ADULT CRITICAL CARE CLINICAL CORE CURRICULUM

11:00 a.m. - 12:30 p.m.

San Diego Convention Center

Ballroom 20B-D (Upper Level)

Objectives

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

- discuss the management of unstable arrhythmias in people admitted to the intensive care unit
- describe current approaches to addressing hemodynamic instability in the intensive care unit including vasopressors, inotropes and mechanical support
- explain the clinical evaluation prior to starting ECMO and basic troubleshooting for issues that arise during its use

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

11:00 "I Got the Power:" Updates in Internal Cardiac Support Devices

- 11:25 "I Will Survive": ECMO Evaluation and Outcomes
 11:50 "Stayin' Alive": ECMO Circuit Setup and Troubleshooting
 12:15 Question and Answer

MID-DAY SESSION

MD28 NAVIGATING A SUCCESSFUL CAREER: POSITIONING YOURSELF FOR A NATIONAL PRESENCE

12:00 p.m. - 1:00 p.m. San Diego Convention Center

Room 32A-B (Upper Level)

Target Audience

The target audience includes all members of ATS from early to senior faculty who practice in academic and/or community settings with an interest in medical education, academic medicine, clinical practice, and/or research.

Objectives

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

- (1) establish a national presence through ATS membership, (2) get involved in assemblies/committees, (3) network during national meetings, and (4) going from poster presentations to presenting other conference sessions.
- identify strategies for successful contract negotiations in academia and medicine
- educate session attendees on how to create academic currency for your career and how involvement in ATS can create scientific currency and capital. Attendees will be able to apply learned knowledge to their own career development.

This session will provide information to members of ATS ranging from early to senior faculty. The goal of the session is to share strategies to create academic/scientific capital and currency for one's career, and how membership and involvement in ATS can foster collaboration, mentorship, and leadership – all tools necessary to establish a national presence. Speakers from academic and community centers will discuss how to get involved in ATS, navigating Assemblies/Committees, negotiating contracts, promotion & tenure, career development, and leadership.

- 12:00 Introduction
 12:10 How to Navigate ATS as an Early Career Members
 12:25 Thriving as a Mid-Career Faculty: A Plateau or Springboard

- 12:40 Negotiations
 12:55 Creating Academic Currency for Your Career
 1:10 Conclusion and Q&A

NHLBI, NIH

MID-DAY SESSION

MD29 THE PEDIATRIC ADENOTONSILLECTOMY TRIAL FOR SNORING (PATS): KEY OUTCOMES AND IMPLICATIONS

12:00 p.m. - 1:00 p.m. San Diego Convention Center

Room 28A-B (Upper Level)

Target Audience

Sleep medicine specialists, pediatricians, otolaryngologists, clinical trialist

Objectives

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

- improve the ability to identify children with snoring who may benefit the most from adenotonsillectomy, and to improve the ability to refer appropriate subgroups for surgical intervention.
- improve the utilization of polysomnography for managing children with snoring or at risk for SDB.
- better understand the role of adenotonsillectomy on health care utilization and progression of SDB.

Adenotonsillectomy (AT) is the second most common pediatric surgical procedure. High-level evidence of adenotonsillectomy as a treatment for children with snoring and infrequent apneas (mild SDB, MSDD) is lacking. PATS is a 12-month randomized clinical trial of children with MSDB, ages 3 - 12 years, randomized to adenotonsillectomy vs watchful waiting with supportive care. Session will present primary and key secondary data: comparing AT vs watchful waiting in regards to primary neurobehavioral and secondary outcomes (apnea hypopnea index, blood pressure, behavior, obstructive sleep apnea-related quality of life, and sleep symptoms, addressing key knowledge gaps and presenting data to inform future guidelines.

- 12:00 Introduction
 12:02 Changes in Health Care Utilization with Adenotonsillectomy in Children with Mild Sleep Disordered Breathing

- 12:16 **Changes in Health Care Utilization with Adenotonsillectomy in children with mild Sleep Disordered Breathing**
- 12:28 **Social and Environmental Factors that Influence SDB Severity and Response to Treatment**
- 12:40 **Subgroup Differences in Response to Adenotonsillectomy and Implications for Clinical Management**
- 12:54 **Q&A**

NHLBI, NIH

MID-DAY SESSION

MD30 CLINICAL TRIAL STRATEGIES FOR RARE LUNG DISEASE AND DIFFICULT TO REACH POPULATIONS

12:00 p.m. - 1:00 p.m. Marriott Marquis San Diego Marina

Pacific Ballroom 24-26 (Ground Floor, North Tower)

Target Audience

Fellow/Junior/Established Professional

Objectives

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

- define the safety and efficacy of low dose sirolimus in patients, and determine its useability to prevent disease progression
- better understand histaminic signaling and blockade in pulmonary arterial hypertension. To increase awareness of drug repurposing in cardiopulmonary diseases.
- evaluate the feasibility, tolerability, and adherence with wearable actigraphy devices in young children with/without PAH. Explore the ability of these devices to detect differences in activity intensity and heart rate between the two groups.

Clinical trials for rare diseases can present inherent challenges because of small participant pools, incomplete understanding of natural history, lack of sensitive biomarkers, and clinical outcome measures. This session will focus on challenges and innovations in drug development for three rare diseases and difficult to reach populations, and conclude with a discussion on future directions for conducting clinical trials. The MILED trial Team will present safety and efficacy of low dose sirolimus in patients with LAM to prevent disease progression. The other studies will address usage famotidine in a randomized placebo-controlled trial and actigraphy in children with pulmonary arterial hypertension

- 12:00 **Measurement of Physical Activity by Actigraphy in Infants and Young Children with Pulmonary Arterial Hypertension**
- 12:12 **Repurposing a Histamine Antagonist to Benefit Patients with Pulmonary Hypertension**
- 12:24 **Multicenter Interventional Lymphangiomyomatosis (LAM) Early Disease Trial (MILED)**
- 12:36 **Prenatal Vitamin C, In Utero Smoke Exposure, and Offspring Lung Function**
- 12:48 **Q & A**

USDA

MID-DAY SESSION

MD31 GENERIC DRUG DEVELOPMENT FOR RESPIRATORY PRODUCTS, US FOOD AND DRUG ADMINISTRATION UPDATE

12:00 p.m. - 1:00 p.m. San Diego Convention Center

San Diego Convention Center

Room 2 (Upper Level)

Target Audience

Clinicians in practice, researchers, pharmaceutical industry representatives, international drug regulators

Objectives

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

- recognize key aspects of the generic drug regulatory approval process, and how the Office of Generic Drugs (OGD) evaluates comparative clinical information to support bioequivalence for complex inhaled generic drug products.
- describe product-specific guidances for generic drug products recently posted by the Office of Generic Drugs (OGD), with a focus on how these can inform complex orally inhaled and nasal generic drug development
- articulate how emerging technologies and innovative approaches are being utilized for FDA-funded research, FDA guidance development, and regulatory decision-making

This session will describe respiratory product development of generic drugs within the US, focusing on paths forward to bring safe and effective generic respiratory products to the American public. A general overview will summarize the generic drug approval process, including demonstration of bioequivalence and

therapeutic equivalence utilizing comparative clinical information. Discussion of recent generic product approvals and posted regulatory guidance will provide the audience a greater understanding of the generic approval process, and how the use of emerging technologies and outcomes of research projects contribute to scientific understanding for these complex orally inhaled and nasal drug products to inform regulatory actions.

- 12:00 Introduction**
- 12:03 What is a Generic Drug, Anyway, and What Does It Mean for Me?**
- 12:20 Emerging Concepts and New Technologies for Bioequivalence of Orally Inhaled and Nasal Drug Product**
- 12:37 Update for Generic Orally Inhaled and Nasal Drug Products**
- 12:54 Question and Answer Session**

NHLBI, NIH

MID-DAY SESSION

MD32 POSTOPERATIVE PULMONARY COMPLICATIONS: FROM PHYSIOLOGY AND BIOLOGY TO A PREVENTIVE PERIOPERATIVE CLINICAL TRIAL

12:00 p.m. - 1:00 p.m. San Diego Convention Center

Room 30A-B (Upper Level)

Target Audience

Health care providers (i.e., internists; anesthesiologists; surgeons; nurses; respiratory, physical/occupational therapists) and trainees caring for patients undergoing surgery; researchers interested in lung injury and perioperative lung injury.

Objectives

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

- more appropriately refer to reliable and up-to-date literature in the field of perioperative pulmonary complications.
- have new strategies to manage the care of patients, particularly high risk patients, undergoing surgery.
- apply different strategies to stratify patients on their risk to develop postoperative pulmonary complications.

Postoperative pulmonary complications are a major factor for morbidity and mortality to the 28 million patients a year undergoing hospital-based surgery in the US. The session will

present the NHLBI program “An Anesthesia-Centered Bundle to Reduce Postoperative Pulmonary Complications”. Based on a national network of 17 academic centers, the program aims to develop and implement pre-, intra- and post-operative interventions to reduce those complications. We will discuss specific topics of perioperative research, study design, preliminary physiological investigations, and implementation and initial results of the recently concluded national study on 750 patients undergoing major abdominal surgery with mechanical ventilation.

- 12:00 Postoperative Pulmonary Complications: Relevance, International Studies, and Challenges of Perioperative Research**
- 12:15 Phase I/II Study, Personalized Intraoperative Mechanical Ventilation, Trial Design, and Implementation**
- 12:30 Mechanism and Biomarkers of Perioperative Lung Injury**
- 12:45 The Impact of a Bundle of Perioperative Interventions in the Improvement of Postoperative Pulmonary Outcomes**



ATS 2024
International
Conference

ATS 2024 San Diego, CA

Wednesday Afternoon, May 22

CLINICAL

CRITICAL CARE TRACK

D81 MONEY AND THE ICU: FINANCIAL MOTIVATORS AND CONSEQUENCES OF CRITICAL CARE

Assemblies on Critical Care; Behavioral and Health Services Research; Nursing

11:00 a.m. - 12:30 p.m. San Diego Convention Center
Room 7A-B (Upper Level)

Target Audience

All providers of critical care

Objectives

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

- describe new findings about the cost of critical care to patients
- describe the impact of financial incentives on ICU utilization
- apply knowledge about financial incentives for healthcare systems to better optimize ICU triage

Critical care delivery has financial implications for patients, payers, and providers. Because ICU care is expensive, understanding the costs to society and to patients is important. This session will highlight recent research into understanding both how financial incentives impact ICU utilization and the financial consequences of ICU utilization on various stakeholders in the healthcare system.

11:00 Introductory Remarks

- 11:04 Impact of Private Equity Acquisitions on ICU Utilization and ICU Operations
- 11:12 Effect of Nursing Shortages on ICU Operations
- 11:20 Comparison of International ICU Costs (to Patients or Providers)
- 11:28 Impact of ICU Care on Ability to Afford Future Medical Care for Patients and Their Families.
- 11:36 Effects of ICU Capacity Strain on Hospital Operations
- 11:44 Association of NICU Admission with Changes in Financial Status
- 11:52 Sociology of Health Shocks, Financial Toxicity, and Interventions: Implications for Critical Illness
- 12:00 Panel and General Discussion
- 12:20 Transition Time

BASIC • CLINICAL

CLINICAL TOPICS IN PULMONARY MEDICINE

D82 WHO WHAT WHERE WHY HOW? INHALATIONAL EXPOSURES AND ILD

Assemblies on Clinical Problems; Environmental, Occupational and Population Health

11:00 a.m. - 12:30 p.m. San Diego Convention Center
Ballroom 20A (Upper Level)

Target Audience

Pulmonary medicine providers and trainees would both benefit from this session. Specifically, any individual desiring to broaden their knowledge of ILD evaluation and pathogenesis through the lens of inhalational exposures will be the target audience.

Objectives

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

- identify relevant inhaled risk factors for ILD
- understand the pathobiology and mechanisms by which exposures cause and propagate ILD
- recognize assessment methods that exist for clinical identification of inhalational exposures in individual ILD patients

A growing body of evidence demonstrates the contributions of environmental and occupational exposures to many forms of interstitial lung disease (ILD), from increased risk of disease

development, disease progression and associated mortality. This session will discuss mechanistic, workplace, and patient-related factors that contribute to exposure-related burden of disease across all subtypes of ILD patients. After this session, learners will understand common inhalational exposures associated with Non-HP ILD, the occupational and domestic environments in which they will occur, overall mechanisms of disease, and learn how to assess for these exposures in clinical practice.

- 11:00 What Are They? Current Evidence on Environmental Exposures in ILDs**
- 11:15 Who is affected? Susceptible Workers and ILD**
- 11:30 Why Does It Happen? Mechanisms of Exposure and Disease in ILD**
- 11:45 Where You Live Matters: Air Pollution and ILD**
- 12:00 How Do We Check? Opportunities and Challenges for Exposure Assessment**
- 12:15 Moderated Q&A/Panel Discussion**

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

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BASIC • CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

D83 RESPIRATORY HEALTH IMPACTS OF HUMAN MADE DISASTERS AND NATURAL DISEASTERS, WILDFIRES, EARTHQUAKES, AND VOLCANOES.

Assemblies on Environmental, Occupational and Population Health; Allergy, Immunology and Inflammation; Behavioral and Health Services Research; Clinical Problems; Pulmonary Infections and Tuberculosis

**11:00 a.m. - 12:30 p.m. San Diego Convention Center
Room 6A (Upper Level)**

Target Audience

Scientists, clinicians (pulmonology, cardiology, pediatrics, gerontology), public health/global health practitioners, and trainees interested in environmental impact of health.

Objectives

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

- explain the impacts of natural and human-made disasters on respiratory morbidity and mortality and importance of the holistic approach to the problem.
- analyze the mechanisms underlying effects of dust particles and wildfire particles, irritants, and toxicants on the respiratory health.
- encourage other ATS members and others to become involved and respond to the health challenges posed by natural and human-made disasters through influencing policy makers.

Natural and human-made disasters such as massive earthquakes, volcanos and wildfires have a devastating impact on human lives. Victims may be exposed to extremely high concentrations of dust, particulate matter (p.m.) and toxic gases that may cause both acute and chronic respiratory problems such as pulmonary injury, bronchospasm, chronic cough, persistent bronchial hyperreactivity. This session will focus on impacts of inhaled irritants and air pollutants, which are associated with natural and human-made hazards, on respiratory health. Leading scientists will discuss scale of the problem, clinical aspects, mechanisms, and holistic approach to the problem and a policy development for intervention and mitigation.

- 11:00 To Survive a Wildfire, from a Patient/Survivor's Perspective**
- 11:06 Natural Disasters and Human-Made Disasters; Are They Increased?**
- 11:18 Igniting the Connection: Exploring the Link Between Wildfire and Climate Change**
- 11:30 Wildfires and Respiratory Impacts; Underlying Mechanisms**
- 11:42 Earthquakes and Respiratory Health; Is There a Risk?**
- 11:54 Volcanos, a Source of Inhalational Disasters**
- 12:06 Human-Made Disasters, Terrorism, and Respiratory Impacts**
- 12:18 Respiratory Impacts of Disaster from One Health Perspective**

CLINICAL • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

D84 EMERGENT RESISTANCE TO NEW DRUGS FOR MDR-TB TREATMENT

Assemblies on Pulmonary Infections and Tuberculosis

11:00 a.m. - 12:30 p.m. San Diego Convention Center

Room 6D (Upper Level)

Target Audience

US-based attendees interested in tuberculosis and antimicrobial resistance, International attendees with interest and experience with drug-resistant tuberculosis, public health focused attendees

Objectives

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

- define new strategies to treat MDR-TB based on new WHO-endorsed MDR-TB treatment regimens
- apply next generation genotypic and phenotypic drug-susceptibility testing and better understand the epidemiology and risk factors for emergent drug-resistance during treatment of MDR-TB
- anticipate the direction and limitations of future TB diagnostics in the context of new challenges to global TB control.

Multi-drug resistant tuberculosis (MDR-TB) is a challenge for global lung health and represents a growing proportion of all TB cases. Recent studies using entirely novel regimens demonstrate excellent outcomes and lower mortality in MDR-TB treatment. However, resistance to these new antimycobacterial agents is present at baseline and rapidly emerging undermining their promise. Here we present new genomic, basic/translational, and operational insights into antimicrobial resistant tuberculosis and describe new clinical, epidemiologic, and translational strategies to combat this new evolution in drug-resistant tuberculosis.

11:00 Landscape of New Treatments for MDR-TB**11:15 Operational Outcomes from New MDR-TB Treatment Regimens and Emergent Resistance****11:40 Opportunities and Limitations of Genomics for Diagnosing Bedaquiline-Resistant Tuberculosis: an Individual Isolate Meta-Analysis****11:50 Known Unknowns: Resistance Mechanisms to New and Repurposed Drugs to Treat TB****12:00 Nanoluciferase Mycobacteriophage for Rapid Phenotypic TB Diagnosis and Drug-Susceptibility Testing****12:20 Strategies Going Forward to Prevent Emergent Resistance and Optimize MDR-TB Treatment Outcomes**

BASIC • TRANSLATIONAL

SCIENTIFIC SYMPOSIUM

D85 ONE TO RULE THEM ALL? IMMUNE CELLS CONTROL STEM CELL CAPACITY IN THE LUNG

Assemblies on Respiratory Cell and Molecular Biology

11:00 a.m. - 12:30 p.m. Marriott Marquis San Diego Marina

Grand Ballroom 5-6 (Lobby Level, North Tower)

Target Audience

Basic researchers and clinicians (clinical scientists) looking for a deeper understanding of the pathomechanisms of COPD.

Objectives

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

- understand the effects of innate and adaptive immune cell signaling on alveolar epithelial proliferation and differentiation.
- provide insight on how cutting-edge technological advances can delineate immune cell-epithelium crosstalk.
- learn how immune targeted pro-regenerative approaches toward reprogramming the alveolar immune niche can open up novel avenues for the treatment of COPD.

This session will highlight the important contribution of immune cells to lung regeneration and their crosstalk with lung progenitor cells. It will provide insight on how recent technological advances in omics technologies and human ex vivo lung models can delineate immune cell-epithelium crosstalk and expedite precision pro-regenerative approaches toward reprogramming the alveolar immune niche to treat COPD.

11:00 Immunomechanisms of Lung Regeneration**11:24 Immunometabolic Reprogramming of Epithelial Repair****11:46 Inflammation Regulates Epithelial Progenitor Function****12:08 Understanding the Immune Niche One Cell at a Time**

BASIC • CLINICAL**SCIENTIFIC SYMPOSIUM****D86 AMBULATORY CRITICAL CARE: A BENCH TO BEDSIDE UNDERSTANDING OF CHRONIC RESPIRATORY FAILURE****Assemblies on Sleep and Respiratory Neurobiology; Clinical Problems****11:00 a.m. - 12:30 p.m. Marriott Marquis San Diego Marina****Grand Ballroom 2-4 (Lobby Level, North Tower)****Target Audience**

Sleep, pulmonary and critical care clinicians who may care for patients on home ventilation. Outpatient and inpatient respiratory therapists. Scientists interested in the effects of CO₂ on the body.

Objectives

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

- understand potential mechanisms by which elevated CO₂ may increase mortality and morbidity
- identify reduction in PCO₂ as an important treatment strategy for patients with chronic hypercapnic respiratory failure
- more effectively utilize both the sleep lab and home monitoring strategies to manage patients on NIV

Chronic hypercapnia has long been seen as simply a marker of severity of disease as opposed to a condition that is treatable. Recent studies have shown the high mortality and health care utilization associated with chronic hypercapnia.

Non-invasive ventilation (NIV) has been shown to improve survival in patients with COPD, OHS, and ALS. This session will provide the biological mechanisms by which chronically elevated PCO₂ may increase morbidity and mortality, review clinical research (Jimenez et al, Respiratory Care, 2023) demonstrating the importance of reductions in PCO₂ over time, and compare in-lab versus at home monitoring strategies to optimize home mechanical ventilation.

11:00 Introduction to Session**11:05 Under Attack: Co₂ Effects on Host Immune Defenses****11:22 Skeletal Muscle Dysfunction: An Added Insult in Chronic Hypercapnic Respiratory Failure****11:39 Hypercapnic No More: Mobilizing CO₂ Stores with NIV to Improve Survival****11:56 Not Just Apnea: Sleep Lab Optimization of NIV****12:13 Home Monitoring: Novel Strategies for NIV Optimization****BASIC • CLINICAL • TRANSLATIONAL****MINI SYMPOSIUM****D91 BRIDGING THE GAP: TRANSLATIONAL STUDIES IN ARDS, PNEUMONIA, AND SEPSIS****11:00 a.m. - 1:00 p.m. Marriott Marquis San Diego Marina****Pacific Ballroom 18-19 (Ground Floor, North Tower)****Oral Presentations:**

- 11:00 42-gene Severe-or-Mild (SoM) Gene Expression Signature Is Conserved Across Viral and Bacterial Infections and Is Associated With Differential Response to Steroids in Septic Shock**
- 11:12 A Lung-specific Metabolic Signature From Heat and Moisture Exchange (HME) Filter Metabolomic Analysis Is Distinct From Plasma Signal in Acute Respiratory Distress Syndrome**
- 11:24 A Prospective Machine Learning Model for the Identification of Acute Respiratory Distress Syndrome (ARDS) Sub-phenotypes**
- 11:36 Single Nucleotide Variation in CX3CL1 and Risk for Bacterial Pneumonia and ARDS**
- 11:48 Surfactant Protein B Reduces Respiratory Viral Infectivity in Human Lungs**
- 12:00 Association of CC16 Expression in the Airways With Signature Expression of Multi-omics Data**
- 12:12 Transcriptome-based Prediction of COVID-19 Symptom Development: Insights From Nasal Epithelium Analysis**
- 12:24 Patient-reported Symptoms Do Not Correlate With Immune Profiling in Multi-omics Analysis of Post-acute Sequelae of COVID-19**
- 12:36 Human Red Blood Cells Express Toll-like Receptor 7 and Bind Single Stranded RNA**
- 12:48 Type I Interferon Autoantibodies Are Not Associated With the Development of Long COVID**

CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

D92 BOOKENDS: ILAS TO PPF

11:00 a.m. - 1:00 p.m. San Diego Convention Center
Room 6C-F (Upper Level)

Oral Presentations:

- 11:00 Development and Progression of Interstitial Lung Disease in COPDGene
- 11:12 Proteins Biomarkers for the Detection of Interstitial Lung Abnormalities in a High-risk Cohort
- 11:24 Interstitial Lung Abnormalities Below Fleischner-Defined Thresholds Are Strongly Associated With Progression in Persons at Risk for Familial Pulmonary Fibrosis
- 11:36 Visual and Quantitative Predictors of Interstitial Lung Abnormality Progression in COPDGene
- 11:48 Proteomic Signature of Quantitative Interstitial Abnormalities in COPDGene and Cardia Lung Study
- 12:00 Endobronchial Optical Coherence Tomography as a Novel Method for In Vivo Microscopic Assessment of Interstitial Lung Abnormalities
- 12:12 How Should Patients With Progressive Pulmonary Fibrosis Be Identified? Consensus Findings From a Modified Delphi Study
- 12:24 Characterizing Progressive Pulmonary Fibrosis in a Multi-center Real World Cohort
- 12:36 Fibrosis Scores Per Quantitative High-resolution Computed Tomography at Baseline and the Change Over One Year Predict Subsequent Progressive Pulmonary Fibrosis at 24 Months
- 12:48 Test Performance Characteristics of Proposed Criteria for Progressive Pulmonary Fibrosis

CLINICAL • TRANSLATIONAL

MINI SYMPOSIUM

D93 LOOKING BEYOND THE LUNGS: COPD AND COMORBIDITIES

11:00 a.m. - 1:00 p.m. San Diego Convention Center
Room 6B (Upper Level)

- 11:00 Data-driven Identification and Investigation of Comorbidity Profiles in Patients With Chronic Obstructive Pulmonary Disease: A Multicohort Study
- 11:12 Impact of Weight Loss Over 5 Years on Respiratory Morbidity in Obese COPD Participants From COPDGene
- 11:24 Nocturnal Hypoxemia Is Associated With Sarcopenia in COPD Patients
- 11:36 Comparison of 3D Paraspinal Muscle Volume and 2D Paraspinal Muscle Area Measurements Along the Thoracic Spine From Chest CT Images in COPD: Findings From the CanCOLD Study
- 11:48 Differentially Co-expressed Myofiber Transcripts Associated With Abnormal Skeletal Muscle Fiber Proportion in COPD
- 12:00 Lung-related Risk Factors for Low Bone Mineral Density in Tobacco-exposed Individuals Not Meeting Osteoporosis Screening Criteria
- 12:12 Sex Differences in the Association Between Iron Deficiency, Anemia, and Hospitalization Risk in COPD
- 12:24 Impaired Cardiac Blood Flow in Chronic Obstructive Pulmonary Disease: 4D Flow Results From the Subpopulations and Intermediate Outcome Measures in COPD and Heart Failure Study (SPIROMICS HF)
- 12:36 Impaired Left Ventricular Filling and All-cause Mortality in COPD
- 12:48 Chronic Obstructive Pulmonary Disease (COPD) Subtypes Differentially Predict Subsequent Cardiovascular Events and COPD Exacerbations: A Longitudinal Analysis of the COPDGene Study

BEHAVIORAL • CLINICAL**MINI SYMPOSIUM****D94 EQUITY IN CRITICAL CARE:
UNVEILING DISPARITIES IN ACCESS,
OUTCOMES, AND RESEARCH
INCLUSION**

11:00 a.m. - 1:00 p.m. San Diego Convention Center

Room 24A-C (Upper Level)

Oral Presentations:

- 11:00 Racial Disparities in Oxygenation Support for COVID-19: An Analysis From the SCCM Discovery Network Virus Registry
- 11:12 Racial Differences in the Response to High-dose Inhaled Nitric Oxide: A Post-hoc Analysis of the Nosarscovid Trial
- 11:24 Uninsured Critically Ill Patients Are Less Likely to Undergo Inter-hospital Transfer
- 11:36 Danger to Self or Others? Social Disparities in the Use of Restraints in Intensive Care Unit Patients
- 11:48 A Novel Methodology for Estimating Oxygen Supply and Demand in Resource-Variable Settings
- 12:00 Addressing Healthcare Disparities in Low-and Middle-income Countries Through Enhanced Mechanical Ventilation Management Training
- 12:12 Investigating Whether the Social Determinants of Health Can Predict All Cause 30-day Hospital Readmissions After Initial Sepsis Encounters
- 12:24 Characterizing Post-acute Rehabilitation Use Among Older ICU Survivors Discharged to Skilled Nursing Facilities
- 12:36 Health Care Disparities and Respiratory Critical Care Illnesses Related Mortality in the United States
- 12:48 Eligibility Criteria of Randomized Controlled Trials in Critical Care Medicine: A Systematic Review

BASIC • TRANSLATIONAL**MINI SYMPOSIUM****D95 SURVEYING THE ZOO: -OMICS FOR
MECHANISTIC DISCOVERY IN
PULMONARY VASCULAR DISEASE**

11:00 a.m. - 1:00 p.m. San Diego Convention Center

Room 29A-D (Upper Level)

Oral Presentations:

- 11:00 Genetic Rare Variants in PLEKHH2 Predispose to Pulmonary Arterial Hypertension
- 11:12 Dysregulated Klotho/FGF23 Signaling as a Driver of Pulmonary Arterial Hypertension in Aging and Chronic Kidney Disease
- 11:24 Spatially Resolved Transcriptomics in Alveolar Capillary Dysplasia Identify Vessel-specific Gene Networks of Dysplastic Capillaries and Reduced Mature Alveolar Capillaries
- 11:36 PKR Activation Caused by ADAR1 Deficiency Contributes to Vascular Remodeling in PAH
- 11:48 Emergence of a Novel De-differentiated, Pro-inflammatory Lung Endothelial Cell Population Primed to Undergo Endothelial-to-Mesenchymal Transition in Pulmonary Arterial Hypertension
- 12:00 BMP9 Regulates Endothelial Expression of Mediators of Pulmonary Vascular Remodeling
- 12:12 Citric Acid Cycle Metabolites Are Inversely Associated With Right Ventricular-Pulmonary Arterial Coupling as Measured by Multi-beat Pressure Volume Loops
- 12:24 High-throughput Kinome Binding Profiling of SU5416 Reveals Potential Multi-kinase Involvement in the Pathobiology of PAH
- 12:36 Integrative Multiomics in the Lung Reveals a Protective Role of Aspirin in Pulmonary Arterial Hypertension
- 12:48 LDHA-Lactate Axis in Pulmonary Hypertension: Unraveling the Role of EMILIN1 and TOP1 Lactylation

BASIC • TRANSLATIONAL

MINI SYMPOSIUM

D96 BREATH BEYOND: NOVEL INSIGHTS IN LUNG INJURY

11:00 a.m. - 1:00 p.m. Marriott Marquis San Diego Marina
Grand Ballroom 8-9 (Lobby Level, North Tower)

Featured Speaker Presentation:

11:00 Mitochondrial DNA in Pulmonary Innate Immune Responses

Oral Presentations:

- 11:12 Caspase-1-licensed Lung Epithelial Cell Pyroptosis Drives Neutrophil Necroptosis to Dampen Immune Defense Against Bacterial Infection
- 11:24 Influenza A Virus Subverts the Proteasome to Inhibit Degradation of Polyubiquitinated BIK, Promoting Viral Replication in the Airway Epithelial Cells
- 11:36 Interferon Responses in Down'S Syndrome Airway Epithelial Cells Are Altered During RSV Infection
- 11:48 TREK-1 Potassium Channels Protect Against Influenza-A-induced ARDS
- 12:00 Macrophage-Epithelial Communication Determines Lung Mechano-Immune Responses to Hyperinflation
- 12:12 Receptor for Advanced Glycation Endproducts-Dependent Endogenous IL-33 Release and Group 2 Innate Lymphoid Cells Accumulation Contribute to Lung Ischemia-reperfusion Injury
- 12:24 Loss of the Thrombin Receptor PAR1 in Lymphatic Endothelial Cells Exacerbates Acute Lung Injury in a Mouse Model of ARDS
- 12:36 Bone Morphogenetic Protein 10 Attenuates Lipopolysaccharide-Induced Acute Lung Injury Via Alleviating Pulmonary Endothelial Dysfunction and Injury
- 12:48 Activating the Apical Epithelial Sodium Channel Alpha Subunit With the TIP Peptide Preserves Alveolar Fluid Clearance and Reduces Pulmonary Edema in the Ex Vivo Perfused Human Lung Injured by S. Pneumoniae

BASIC • TRANSLATIONAL

MINI SYMPOSIUM

D97 FEELING STUCK? MECHANISMS OF MUCOCILIARY (DYS)FUNCTION

11:00 a.m. - 1:00 p.m. Marriott Marquis San Diego Marina
Grand Ballroom 11-13 (Lobby Level, North Tower)

Oral Presentations:

- 11:00 Loss of Sialylation Compacts Mucin and Impairs Mucociliary Transport
- 11:12 Loss of AC6 Drives Mucociliary Clearance Defects
- 11:24 Unrecognized Ciliary Motility Disorders in Neutrophilic Severe Asthma Exacerbations
- 11:36 Disruption of the DNAI1 Gene in Pigs Produces a Model of Primary Ciliary Dyskinesia
- 11:48 Nasal and Lower Airway Cilia Function in Bronchiectasis
- 12:00 Muc5b and Muc5ac Are Required for Virus-induced Airway Hyperresponsiveness and Antiviral Immunity
- 12:12 Pulmonary Long COVID Patients Have Abnormal Airway Mucosa: Insights From Single-cell RNA Sequencing
- 12:24 Trikafta Use in NCFB Patients With a Single Disease Causing CFTR Mutation and Evidence of CFTR Dysfunction
- 12:36 Bioengineering an Ex Vivo Whole Porcine Lung Model of Cystic Fibrosis to Enable Therapeutic Screening

BASIC • BEHAVIORAL • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

D101 UNCOVERING THE METABOLIC AND GENETIC UNSOLVED MYSTERIES IN ASTHMA

11:00 a.m. - 1:00 p.m. San Diego Convention Center
Room 33A-C (Upper Level)

Poster Viewing 11:00-11:45

Discussion 11:45-1:00

- 901 Paraoxonase 2 Mitigates Mitochondrial Oxidative Stress in Airway Epithelial Cells
- 902 Modeling Asthma Risk Alleles at the 17q12-21 Locus With an Induced Pluripotent Stem Cell Derived Airway Platform
- 903 IL-13 Alters the Inflammatory and Metabolic Responses to Rhinovirus Infection Independent of Viral Load in Bronchial Epithelium From Children With Asthma
- 904 Extracellular Vesicle MicroRNAs as Novel Biomarkers in Asthma Pathobiology
- 905 Galectin-10 As a Biomarker to Predict Asthma Exacerbation and Decline in Pulmonary Function
- 906 Type 2 Inflammation in Asthma and Risk of Coronary Artery Disease
- 907 Potential Explanatory Factors for Racial Disparities in Asthma Exacerbation Rates: Results From the Chronicle Study of Us Specialist-treated Patients With Severe Asthma
- 908 Practice Patterns for Acute Asthma Exacerbation in Adult Patients Admitted to US Intensive Care Units
- 909 Gestational Weight Gain and Childhood Asthma Phenotypes: A Prospective Birth Cohort Study
- 910 Visceral Adipose Tissue Mass Is Associated With Poorer Lung Function and Increased Airway Inflammation in Adults With Asthma
- 911 Severe Asthma Is Associated With Increased Fat Measures on Body Composition Assessments Using Morphomics
- 912 A Potential Mechanism of Steroid Resistance in Asthmatic Patients With High Body Fat Percentage
- 913 Asthma Morbidity After Aeroallergen Testing Among *Aspergillus Fumigatus*-Allergic Patients Is Highest for Older Adults Who Reside in Urban, Deprived Neighborhoods
- 914 Functional Dyspepsia Is a Comorbidity Reflecting IL-33-mediated Airway Neuronal Dysfunction in Asthma
- 915 Genome Wide Association Study of Asthma in Ethnic Minorities
- 916 Host DNA Depletion Enables Successful Shotgun Metagenomics of Previously Frozen Non-cryo-Preserved Respiratory Samples

- 917 Influences of Genetic Background on Response to Biologics in Patients With Severe Asthma: Kyoto Severe Asthma Registry
- 918 Childhood-onset Asthma Is Characterized by Airway Epithelial Hillock-to-Squamous Differentiation in Early Life
- 919 Interferon Gamma Signaling Skews Regulatory T-cells to a T-helper 1-like Phenotype and Impairs Their Ability to Suppress Immune Responses to Allergen

BEHAVIORAL • CLINICAL
POSTER DISCUSSION SESSION
D102 HOT TOPICS IN BEHAVIORAL SCIENCE AND HEALTH SERVICES RESEARCH

11:00 a.m. - 1:00 p.m.

San Diego Convention Center

Room 11A-B (Upper Level)

Poster Viewing

11:00-11:45

Discussion

11:45-1:00

- 501 VHA Telespirometry Program Evaluation in Western Washington State
- 502 Structured EHR Data Underestimates Prevalence and Misses Large Proportions of Patients With Pulmonary Hypertension
- 503 A Novel Phenotyping Pipeline to Improve Identification of Patients With Pulmonary Hypertension in Electronic Health Records
- 504 ECG-based Machine Learning Model Identifies Patients at High Risk for Incident Pulmonary Hypertension
- 505 Pharmaceutical Industry Payments to Physicians and Prescriptions of Oral Pulmonary Arterial Hypertension Medications
- 506 Evaluation of Responder Thresholds for PAH-SYMPACT Domain Scores in Patients With Sotatercept Treatment in the STELLAR Study
- 507 Retrospective Cohort Study of Impact of Publicly Funded Mechanical Insufflation-exsufflation on Public Health Service Utilization

- 508 Potentially Avoidable Healthcare Costs Associated With Delayed Diagnosis of Fibrotic Interstitial Lung Disease (ILD)
- 509 Validation of a Dyspnea Visual Analogue Scale in Fibrotic Interstitial Lung Disease
- 510 Patient Journey, Disease Burden and Treatment Paradigms in Patients With Interstitial Lung Disease With Progressive Pulmonary Fibrosis in Europe: A Cross-sectional Survey
- 511 Determinants of Pulmonary Referral for Patients With an ICD Diagnosis of Idiopathic Pulmonary Fibrosis or Unclassified Interstitial Lung Disease in an Academic Medical Center
- 512 Use of Weight Management Regimens Among Positive Airway Pressure-Treated Patients With Obstructive Sleep Apnea and Obesity
- 513 A Mixed-methods Exploration of Patient Perspectives on Pap Therapy Initiation: Implications for Improved Outreach and Education
- 514 Comparative Effectiveness of Biologic Therapy Versus Antifungal Therapy for Allergic Bronchopulmonary Aspergillosis
- 515 Rethinking Missing Data Handling in Crisis Standards of Care Simulations: A Retrospective Simulation Study
- 516 Integrating Tobacco Treatment into Lung Cancer Screening: A Qualitative Assessment
- 517 Using a Natural Language Processing System to Identify Computed Tomography Chest Scan Reports With Recommended Follow-up
- 518 Improved Lung Cancer Screening Outcomes Through Blood-Based Genomic Testing: Population and Payer Impact
- 519 Patient Perceived Barriers and Facilitators in Improving Health Related Quality of Life (HRQOL) in Patients Living With Hypersensitivity Pneumonitis
- 520 Grit and Resilience Among Pulmonary and Critical Care Medicine Physicians: A Multi-institutional Study
- 521 ChatGPT Generates Appropriate Assessments and Plans for Patients Evaluated in the Emergency Room With Suspected Community-Acquired Pneumonia (CAP)

- 522 Advancements in Primary Ciliary Dyskinesia Diagnosis: Impact of Establishment of a PCD Center in Puerto Rico (2008-2023)
- 523 Barriers and Facilitators to Discussing Lung Transplantation Among Individuals With Cystic Fibrosis in the Era of Highly Effective Modulators
- 524 Lymphangioliomyomatosis Patient Research Priorities Survey (LAM-PREP): Developing Patient-Centered Research Agenda
- 525 E-cigarette Use, Marijuana Use, and Depressive Symptoms in Young Adults: The VapeScan Study

CLINICAL

POSTER DISCUSSION SESSION

D103 BE PREPARED! RARE PRESENTATIONS AND TREATMENTS IN THE ICU

11:00 a.m. - 1:00 p.m.

San Diego Convention Center

Room 30C-E (Upper Level)

- | | |
|----------------|-------------|
| Poster Viewing | 11:00-11:45 |
| Discussion | 11:45-1:00 |
- 701 Calcium Channel Overdose and Insulin Therapy Dosing
- 702 Chagas Disease: A Hidden Cause of Sudden Cardiac Arrest
- 703 Dying From the Diet: A Case of 2,4-dinitrophenol Toxicity
- 704 Lipemic Serum and Severe Acute Pancreatitis
- 705 Bone Cement Implantation Syndrome: An Unusual Cardiogenic Complication in an Elderly Patient With Spinal Injury
- 706 A Rare Case of Neurofibromatosis Type I Presenting as Internal Mammary Artery Aneurysmal Rupture
- 707 More Than What Meets the Eye: A Case of Fulminant Malaria in the Intensive Care Unit
- 708 Surviving the Storm: A Race Against Time in Treating Post-partum Streptococcal Toxic Shock Syndrome

- 709 A Rare Case of Septic Cardiomyopathy and Left Ventricular Thrombus Induced by Streptococcal Toxic Shock Syndrome
- 710 Behcet's Disease Presenting With Lethal Left Ventricle Aneurysm in Rwanda: A Case Report
- 711 Abdominal Compartment Syndrome Caused by Massive Cystic Endometrioid Adenocarcinoma
- 712 A Rare Case of Foodborne Botulism: Diagnostic Challenges, Clinical Management, and the Nuances of Mechanical Ventilation
- 713 Lemierre's Syndrome Secondary to a Fusobacterium Necrophorum Superinfection Following Influenza B Pharyngitis
- 714 Silent Bowel Perforation in a Patient on Steroids, Presenting as Unilateral Eye Swelling
- 715 Manual Blood Pressure Cuff: A Diagnostic and Therapeutic Tool in Cardiogenic Shock Due to High Output Heart Failure in a Patient With Arteriovenous Fistula
- 716 Anterior Mediastinal Mass: A Cautionary Tale in Management
- 717 Multiorgan Failure From Heat Stroke in a Person Taking Glycopyrrolate
- 718 Device Associated Klebsiella Pneumonia Endocarditis: A Rare Complication of Foreign Body Infection Leading to Septic Shock
- 719 An Unusual Mechanism for Cardiac Arrest Secondary to Thyroid Storm
- 720 Severe Right Ventricular Dilation Due to Selenium Deficiency in a Post Gastric Bypass Patient - A Rare but Life-Threatening Complication
- 721 Severe Right Heart Failure: A Case of Carcinoid Heart Syndrome in Newly Diagnosed SMARCA4 and SMARCA2 Deficiency Associated Colorectal Cancer
- 722 Anti-freeze Froze My Kidneys but Alcohol Saved My Life
- 723 A Case of Salmonella Bacteremia and Clinical Complications in the Critically Ill Patient
- 724 A Case of Babesiosis Induced Sepsis Hemophagocytic Lymphohistiocytosis Overlap Syndrome in Pennsylvania

- 725 Triple Trouble: Hyperkalemia, Compartment Syndrome, and Pseudo-Wellens' Syndrome Induced by Cocaine

CLINICAL

POSTER DISCUSSION SESSION

D104 CASE REPORTS IN DYSPNEA AND COMPLEX LUNG DISEASES

11:00 a.m. - 1:00 p.m.

San Diego Convention Center

Room 31A-C (Upper Level)

Poster Viewing

11:00-11:45

Discussion

11:45-1:00

- 801 "Iron Lungs" to Compete in Ironman: Successful Use of Pre-race Sildenafil to Allow a Triathlete Overcome Swimming-Induced Pulmonary Edema
- 802 Complex Clinical Presentation of Hodgkin's Lymphoma With Stridor and Unilateral Lung Collapse: A Case Study
- 803 My Asthenia to Breath Is Very Gravis
- 804 Modified Ravitch Procedure to Treat Pectus Excavatum and Improve Functional Status in a Patient With Fkbp140-related Ehlers-danlos Syndrome
- 805 The Last Straw: Acquired Methemoglobinemia Associated With Phenazopyridine Use in the Setting of Interstitial Lung Disease and Rhinovirus Infection
- 806 The Tale of Two Shunts
- 807 Not so Sweet Effusion
- 808 Babesiosis-Induced Acute Respiratory Failure Requiring Emergent Thoracentesis: A Case Report
- 809 Spontaneous Lung Clot Presenting With Massive Hemoptysis After Anticoagulation
- 810 A Curable Cause of Dyspnea
- 811 Poutine-induced Hypoxemia: A Case Report
- 812 A Case of Retropharyngeal Abscesses Caused by Cyclic Vomiting Syndrome Due to Chronic Marijuana Use

- 813 Persistent Hypoxia in an Elderly Patient With a Patent Foramen Ovale (PFO): A Case Report of Platypnoea-Orthodeoxia Syndrome (POS)
- 814 A Rare Case of Klippel-Feil-Syndrome
- 815 Chilaiditi Syndrome: A Diagnostic Dilemma
- 816 A Case of Low Diffusing Capacity Due to Hepatopulmonary Syndrome in a Patient With a History of Cholangiocarcinoma
- 817 Sudden Onset Dyspnea and Hypoxemia in an 18-year-old Woman After Accidental Exposure to Bleach
- 818 Neurogenic Pulmonary Edema: A Case of the Disappearing Ground-Glass
- 819 Fibrosing Mediastinitis Resulting in Severe Pulmonary Hypertension
- 820 All That Tingles: A Case of Progressive Paralysis and Fatal Pulmonary Embolism
- 821 When Breathing Gets Bubbly: An Ehimical Tale of Pneumomediastinum
- 822 Hereditary Hemochromatosis and a Year of Alcoholism: A Recipe for Failure
- 404 CT Characteristics of COPD Patients With Impaired Diffusion Capacity; Implications for COPD-pulmonary Hypertension Phenotyping
- 405 From Highs to Lows: Impact of Continued Methamphetamine Usage on Pulmonary Arterial Hypertension
- 406 Metabolomic Assessment of Chronic PE at Rest and Peak Exercise Identifies Abnormal Complex Lipid Metabolism
- 407 Physiological Mechanisms Behind Respiratory-induced Variations in Right Atrial Pressure
- 408 Invasive Cardiopulmonary Exercise Testing Phenotypes of Chronic Thromboembolic Pulmonary Vascular Disease
- 409 A Phase 3, 2-part, Open-label, Multicenter Study to Evaluate the Safety, and Efficacy of Liposomal Treprostinil Inhalation Suspension (I606) in Subjects With Pulmonary Arterial Hypertension (PAH) and Pulmonary Hypertension Associated With Interstitial Lung
- 410 Clinical Improvements With Parenteral Induction Therapy in Intermediate-High Risk Patients With PAH: A Sub-Group Analysis of the EXPEDITE Study
- 411 SPECT ERNA and Cardiac Effort: The New Kids on the Block in Pulmonary Arterial Hypertension Monitoring
- 412 Exercise Hemodynamics and the Evolving Definition of Precapillary Pulmonary Hypertension
- 413 Selexipag for the Treatment of Schistosomiasis-associated Pulmonary Arterial Hypertension - The SELSCH Study
- 414 Transpulmonary Metabolomic Flux in Connective Tissue Disease-Associated Pulmonary Arterial Hypertension During Exercise
- 415 Epicardial Adipose Tissue Is an Independent Risk Factor for Mortality in Pulmonary Arterial Hypertension
- 416 The Radiographic Spectrum of Small Pulmonary Vascular Abnormalities in Idiopathic Pulmonary Fibrosis
- 417 Applying the New Definition of Pulmonary Hypertension to Patients With Idiopathic Pulmonary Fibrosis on the Transplant Waitlist, A Registry Review

BEHAVIORAL • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

D105 BALBOA PARK EXPLORERS: TRANSLATIONAL SCIENCE AND EPIDEMIOLOGY IN PH

11:00 a.m. - 1:00 p.m. San Diego Convention Center

Room 25A-C (Upper Level)

Poster Viewing 11:00-11:45

Discussion 11:45-1:00

- 401 Pulsatile Loading Affects Right Ventricular Function in Pulmonary Hypertension Due to Chronic Lung Disease
- 402 Impact of Baseline Pulmonary Vascular Resistance on Outcomes in Systemic Sclerosis-associated Pulmonary Arterial Hypertension
- 403 A Potential Role for C5a in Pulmonary Arterial Hypertension and Response to Parenteral Prostacyclin Therapy

- 418 Automated CT Quantification of Changes to the Heart and Pulmonary Artery Post PTE in Patients With CTEPH
- 419 Image-based Hemodynamic Model of Patient With Microvascular Disease in Chronic Thromboembolic Pulmonary Hypertension
- 420 Initial Long-term Data From a Phase 3 Open-label Extension Study (ROR-PH-303) Evaluating Ralinepag for the Treatment of Pulmonary Arterial Hypertension (Advance Extension)
- 421 Quantitative Computed Tomography Analysis of Small Vessel Volume and Density by Age, Sex, and Etiology in PAH
- 422 Three-dimensional (3D) Right Ventricular Surface Strain Computed From 3D Echocardiography Correlates With RVEF and Reveals Differences in Deformation Based on Severity of Pulmonary Arterial Hypertension Symptoms
- 423 Prognostic Value of Follow-up Hemodynamics After Initial Treatment in Pulmonary Arterial Hypertension
- 424 TORREY Phase 2 Study of Seralutinib in Pulmonary Arterial Hypertension (PAH): Circulating Biomarkers of Proliferation, Inflammation, and Fibrosis Improve With Treatment
- 425 A Randomized Controlled Trial of Palliative Care to Improve Health Related Quality of Life in Pulmonary Arterial Hypertension
- 203 Establishing a Novel Model System to Study Aberrant Tracheal Epithelial-chondrocyte Development Ex Vivo
- 204 Mediators of Antenatal Inflammation Propagating Chronic Neonatal Lung Disease
- 205 The IL-33/ST2-axis Contributes to the Development of Bronchopulmonary Dysplasia-associated Pulmonary Hypertension
- 206 Type I Interferon Disrupts Airway Cell Differentiation in Trisomy 21
- 207 Activation of Cellular Stress and Degradation Pathways by ABCA3 Trafficking Mutants
- 208 Mesenchyme Derived Inflammation Recruits Macrophages and Alters Saccular Stage Lung Microvascular Development
- 209 Neonatal Hyperoxia Impairs Mitophagy, Leading to Increased Cytosolic mtDNA Release and cGAS-STING Pathway Activation in the Lung
- 210 The Potentially Bronchoconstricting Enzyme AKR1A1 Is Expressed in Preterm Human Infants at Risk for Bronchopulmonary Dysplasia
- 211 Role of Medical Complexity and Respiratory Bacteria in Time to Chronic Ventilator Liberation Among Children With Bronchopulmonary Dysplasia
- 212 Postnatal Selenium Deficiency Disrupts Alveolarization and Exacerbates Hyperoxia-induced Lung Developmental Deficits in Newborn Mice
- 213 Blood Sphingolipids as an Early Predictor of Bronchopulmonary Dysplasia
- 214 Do Clinical Definitions of Bronchopulmonary Dysplasia (BPD) Severity Correlate With Objective Measurements of Lung Function in Premature Infants?
- 215 Increased Forced Expiratory Flows in Former Preterm Infants Randomized to Two Extra Weeks of Continuous Positive Airway Pressure (CPAP) in the NICU
- 216 Comparison of Airway Resistance Measurements Obtained by the Single Breath Occlusion Technique Versus Forced Oscillometry in Stable Preterm and Term Infants
- 217 Obstructive Respiratory Disease Progresses With Time in Children With Bronchopulmonary Dysplasia

BASIC • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

D106 CUTTING-EDGE SCIENCE ON BRONCHOPULMONARY DYSPLASIA

11:00 a.m. - 1:00 p.m. San Diego Convention Center

Room 1A-B (Upper Level)

Poster Viewing 11:00-11:45

Discussion 11:45-1:00

- 201 Hedgehog Pathway Regulates Alveolar Type II Cells in Human Lung Development
- 202 Abnormal Tracheal Epithelial Differentiation in Patients With Evolving BPD: Linking Ex Vivo and In Vivo Systems

- 218 Comparison of Home-based Spirometry and Oscillometry Measurements in School-age Children With Bronchopulmonary Dysplasia
- 219 Impact of Low and High Oxygen Saturation Targets (SpO₂) on Mortality and Morbidities in Extremely Low Birth Weight Infants
- 220 Exhaled Breath Volatile Organic Compounds: Window into Preterm Lung Disease? Proof-of-Concept Studies in Preterm Infants and Preterm Lambs
- 221 Randomized Blinded Phase 1b Study Demonstrates Safety and Tolerability of Zelpultide Alfa (rhSP-D) in Preterm Neonates at High Risk for the Development of Bronchopulmonary Dysplasia (BPD)
- 222 Rescue Potential of Placenta- and Amniotic Fluid-derived Mesenchymal Stem Cell Extracellular Vesicles (EVS) in Human Lung Models of Oxidative Stress and Apoptosis
- 223 Adjuvant Therapy With a Recombinant Fragment of Human Surfactant Protein D Increases Airspace, Improves Lung Compliance, and Reduces Levels of Pro-inflammatory Cytokines in Ventilated Preterm Lambs
- 224 The Association of Late Preterm Antenatal Steroid Exposure and Childhood Respiratory Symptoms
- 225 Investigating Airway Surfactant BPIFA1 in the Developing Human Lung
- 103 Hemorrhagic Pulmonary Cryptosporidiosis in an Immunocompetent Adult: A Rare Case Entity
- 104 Not Your Typical Recurrent Pericarditis Patient!
- 105 Stimulus-specific Neutrophil Extracellular Traps Release Dynamics in Primary Ciliary Dyskinesia: A Case Study
- 106 The Imitation Game: Concurrent Tuberculous Myositis in a Dermatomyositis Patient
- 107 The Unfortunate Trifecta: Tuberculosis, EBV, and CMV Induced Hemophagocytic Lymphohistiocytosis
- 108 A Case of Chest-Wall Tuberculosis in a 10 Year Old Patient
- 109 Whole-Genome Sequencing to Evaluate Cause of Tuberculosis Treatment Failure in Patients With Diabetes: 2 Case Reports
- 110 Hidden Histoplasma: Diagnostic Pitfalls of Antigen Testing
- 111 Endobronchial Mucormycosis Presenting as Stridor in a Diabetic Adult
- 112 Pulmonary Nodule Negative for Carcinoma and Coccidioides: Which Test Is Conclusive?
- 113 Pneumocystis Pneumonia Mimicking Immune Checkpoint Inhibitor-induced Pneumonitis in a Patient With Recurrent Hodgkin's Lymphoma
- 114 An Uncommon Case of Cavitory Pneumonia Caused by Acinetobacter Pitti Infection in an Immunocompetent Patient
- 115 Idiopathic Bronchocentric Granulomatosis Complicated by Bronchopleural Fistula and Polymicrobial Empyema
- 116 A Case of Tracking Empyema From Suspected Epididymitis in an Immunocompetent Host
- 117 It's Not Easy Being Green: A Rare Cause of Empyema
- 118 First Report of Nocardia Empyema in Post-Pneumonectomy Space
- 119 A Very "difficil" Scenario: A Rare Case of C. Difficile Infection Presenting With Bilateral Pleural Infections
- 120 Nephrotoxicity as a Complication of Inhaled Tobramycin for Pseudomonas Pneumonia: A Case Series

CLINICAL

POSTER DISCUSSION SESSION

D107 THE BEST OF RESPIRATORY INFECTIONS CASE REPORTS

11:00 a.m. - 1:00 p.m. Marriott Marquis San Diego Marina

Pacific Ballroom 15-17 (Ground Floor, North Tower)

Poster Viewing 11:00-11:45

Discussion 11:45-1:00

- 101 Alveolar Hemorrhage by Lophomonas Blattarum: Case Report
- 102 Disseminated Neurocysticercosis With Pulmonary Involvement

- 121 Case Report of Plastic Bronchitis Characterized by Refractory Hemoptysis
- 122 Simultaneous Co-infections of Opportunistic Pathogens in Newly Diagnosed HIV Patient: A Hickam's Dictum
- 123 Uncontrollable Production of a Large Volume of Sputum With Marked Reduction Following SARS-CoV-2 Infection
- 124 Separating Out Pulmonary Sequestration

CLINICAL • TRANSLATIONAL**POSTER DISCUSSION SESSION****D108 SIGNALING PATHWAYS IN AIRWAY REGENERATION AND REPAIR**

11:00 a.m. - 1:00 p.m. San Diego Convention Center

Room 5A-B (Upper Level)

Poster Viewing 11:00-11:45

Discussion 11:45-1:00

- 601 RB Transcriptional Corepressor-like 2 Depletion Increases Self-renewal and Sustains Differentiation Capacity in Primary Human Airway Epithelial Cells
- 602 Claudin-18 Regulates Airway Progenitor Cell Homeostasis and Differentiation
- 603 FOXM1 Inhibits Airway Epithelial Tight Junction Molecule Claudin9 Expression and Is Involved in Epithelial Barrier Disruption
- 604 Early Activation of Distal Lung Airway Progenitors Signifies a Role of Intermediate Filaments in Alveolar Regeneration
- 605 MTOR Signaling Regulates Aberrant Epithelial Cell Proliferative and Migratory Behaviors Characteristic of Airway Mucous Metaplasia in Asthma
- 606 Cellular Responses to Motile Cilia Dysfunction in the Mouse Airway Ciliary Microenvironment
- 607 MIA3 Is a Specialized Trafficking Protein That Is Required for MUC5AC Production
- 608 Autophagy Regulates Lysosome-mediated Degradation of Mucin Granules

- 609 Bronchial Field Basal Cells Show Long-term Methylome-wide Impact of Smoking Persists Indefinitely After Smoking Cessation
- 610 Prospective Genetic Sequencing Amongst Non-Cystic Fibrosis Bronchiectasis Patients
- 611 Single Cell RNA Sequencing Reveals the Link Between Cannabis Smoking and Immune Dysregulation in the Airway Epithelium
- 612 Shuttle Peptide Achieves Intracellular Airway Delivery of Phosphorodiamidate Morpholino Oligonucleotide (PMO) in Mucus Hypersecretion Lung Environment
- 613 Neutrophil Elastase Regulates CFTR Function in Chronic Neutrophilic Lung Disease
- 614 The Mechanogenetic Role of microRNA in Asthmatic Bronchoconstriction
- 615 Interleukin 36 γ (IL-36 γ) Drives Airway Epithelial Remodeling and Is Associated With Non-T2 Airway Inflammation in Obese Asthma
- 616 Signaling Pathway Underlying TNF α -induced Proliferation of Human Airway Smooth Muscle Cells
- 617 Identification of a Novel Fibroblast Subpopulation Using Single-cell RNA Sequencing Following Airway Reconstruction
- 618 Novel Anti-inflammatory and Immunomodulatory Effects of the Dipeptidyl Peptidase-1 Inhibitor Brensocatib: A Post-hoc Analysis of the WILLOW Trial
- 619 A Novel SHC Inhibitor (SHC#301) Mitigates Alloimmune-mediated Airway Fibrosis
- 620 Sputum Dipeptidyl Peptidase-1 Activity Associates With Inflammation and Disease Severity in Bronchiectasis: Data From the EMBARC-BRIDGE Study
- 621 CFTR Modulators Reprogram Sex-Specific Airway Neutrophil Signaling
- 622 A Novel Ligand-Selective Anti-Notch2 Antibody Induces Secretory to Ciliated Cell Transdifferentiation in Rodent Airways, and Is a Promising Candidate for Treating Muco-obstructive Airway Disease
- 623 Early Human Lung Immune Cell Development and Its Role in Epithelial Cell Fate

624 Cellular and Molecular Characterization of Peripheral Glia in the Lung and Comparison Across Organs and Species

BASIC • CLINICAL • TRANSLATIONAL

POSTER DISCUSSION SESSION

D109 NOW WE GOT BAD BLOOD: RSF/PC JOINT SESSION ON PULMONARY VASCULAR DISEASE

11:00 a.m. - 1:00 p.m. San Diego Convention Center

Room 28C-E (Upper Level)

Poster Viewing 11:00-11:45

Discussion 11:45-1:00

301 Imaging of Blood Clots in Patients With Acute Pulmonary Embolism Using a Novel Tracer Binding to Fresh Fibrin

302 Mechanical Thrombectomy Versus Catheter-Directed Thrombolysis in Patients With Pulmonary Embolism and Acute Cor Pulmonale: In Hospital Outcomes and Mortality

303 Evaluating Lung Ultrasound as a Diagnostic Tool for Pulmonary Embolism a Diagnostic Accuracy Meta Analysis

304 Thrombus In Situ Unveiled: Distinguishing Pulmonary Artery Thrombosis From Pulmonary Embolism

305 Unraveling the Lung Vascular Remodeling in Pulmonary Arterial Hypertension Using a Quantitative Digital Pathology Software

306 Same-day and Six-week Repeatability of Hyperpolarized ¹²⁹Xe MRI Measures in Patients With Pulmonary Arterial Hypertension

307 Transformer Based Deep Learning Method Reveals Novel Drugs and Comorbidity Associations in Pulmonary Arterial Hypertension

308 Network Propagation Analysis to Elucidate the Molecular Mechanisms Underlying Drug-induced Pulmonary Arterial Hypertension

309 Changes in the Pulmonary Vasculature in Response to Pulmonary Arterial Hypertension Therapies Using Contrast-free Pulmonary Angiography

310 Phosphoproteome of Thromboxane Receptor and Coupling With Gq Protein in Neonatal Persistent Pulmonary Hypertension

311 Pulmonary Artery Flow Using 4D Cardiac Magnetic Resonance Imaging

312 Higher Dead Space and Tidal Volumes at Anaerobic Threshold in WHO Group 1 Pulmonary Hypertension Compared to WHO Group 2 Pulmonary Hypertension Detected by CPET Using Transcutaneous CO₂ Monitoring

313 The Use of Non-invasive Cardiopulmonary Exercise Testing to Evaluate Patients Treated for Exercise-induced Pulmonary Hypertension

314 Optimising Thresholds for the Detection of Pulmonary Hypertension (PH) and Pre-capillary PH Using Automatic Measurement of TRJV on Echocardiography

315 Mixed Venous Oxygen Saturation May Be a Better Prognosticator Than Cardiac Index in Scleroderma Associated Pulmonary Arterial Hypertension

316 Pulmonary Gas Exchange in Patients With Heart Failure With Preserved Ejection Fraction: The Effects of Pulmonary Vascular Disease

317 30 Hours at High Altitude (2500m) in Patients With Pulmonary Arterial or Chronic Thromboembolic Pulmonary Hypertension - Adverse Events and Effect of Oxygen Therapy

318 Cardiac Effort Is Less Variable Than Six-minute Walk Distance, Correlates With Hemodynamics and Is Consistent With REVEAL 2.0 Risk Score in a Sub-study of the TORREY Phase 2 PAH Trial

319 Hemodynamic and Blood Volume Assessment in a Cohort of Preload Insufficiency Subject at Submaximal Exercise

320 Anatomic and Alveolar Dead Space Components in Pulmonary Arterial Hypertension (PAH) During Exercise by Breath-by-Breath Volumetric Capnography

CLINICAL**POSTER DISCUSSION SESSION****D110 PUZZLING PRESENTATIONS AND COMPLEX DIAGNOSES: NAVIGATING THE DIVERSE LANDSCAPE OF THORACIC ONCOLOGY**

11:00 a.m. - 1:00 p.m. San Diego Convention Center

Room 6E (Upper Level)

Poster Viewing 11:00-11:45

Discussion 11:45-1:00

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| <p>1001 Worsening Cavitory Lung Lesions in a Patient With Metastatic Colorectal Cancer on Stirvaga (Regorafenib)</p> <p>1002 Spontaneous Regression of Neuroendocrine Lung Cancer: A Case Report</p> <p>1003 Lung Cancer in Patients With Human Immunodeficiency Virus (HIV): Is Tobacco Use the Only Culprit?</p> <p>1004 A Viral Enigma: Muscle Tissue Malignancy and Congenital HIV</p> <p>1005 A Rare Case of Primary Lung Synovial Sarcoma With Squamous Differentiation and a Novel FOXL2 Mutation in an Older Patient</p> <p>1006 A Case of a Rapidly Enlarging Primary Pulmonary Leiomyoma</p> <p>1007 A Tale of Two Tumors</p> <p>1008 An Unusual Case of Metastatic Prostate Cancer Presenting With Atypical Metastases to Mediastinal Lymph Nodes</p> <p>1009 A Rare Presentation of Tracheobronchial Involvement in Rosai Dorfman Disease</p> <p>1010 A Choroidal Metastasis as a Presenting Manifestation of Lung Cancer</p> <p>1011 Feeling Something Deeper: A Case of Hyalinizing Clear Cell Carcinoma of Lung Primary With Suspected Lynch Syndrome</p> <p>1012 Severe Airflow Obstruction Caused by a Rare Diagnosis: A Case of Endotracheal Plasmacytoma</p> | <p>1013 Low Grade Pulmonary Spindle Cell Neoplasm in a 30-year-old Asymptomatic Female: A Diagnostic Dilemma: A Case Report</p> <p>1014 From Low Suspicion to High Consequences: Death From Hormone Overdrive</p> <p>1015 Overcoming the Cytokine Storm: Unusual Case of Kaposi Sarcoma Herpes-Associated Multicentric Castleman Disease</p> <p>1016 Epithelioid Hemangioendothelioma Presenting With Recurrent Pleural Effusion: When the Pleura Is on Fire</p> <p>1017 A Rare Case of Pleural Recurrence of Wilm's Tumour: 17 Years After Primary Diagnosis</p> <p>1018 Bilateral Pneumothorax in a Patient With Angiosarcoma of the Scalp</p> <p>1019 A Case of DAH and a Hemorrhagic Pleural Effusion</p> <p>1020 Steroid Resistant, Osimertinib Induced Hypereosinophilic Syndrome (HES) Treated With Benralizumab in a Patient With Metastatic Adenocarcinoma of Lung</p> <p>1021 Severe Superior Vena Cava Syndrome in a Patient With Metastatic Melanoma on Nivolumab: When to Think Out of the Box</p> <p>1022 Intravenous Immunoglobulin (IVIG) Triumph: Managing Pembrolizumab-Induced Pneumonitis in the Absence of Clear Guidelines</p> <p>1023 Robotic Ion Navigational Bronchoscopy in the Diagnosis of a Pet-Positive Posterior Mediastinal Schwannoma</p> <p>1024 Advancing the Frontier of Pulmonary Care With State-of-Art Combined Procedure: Robotic-Assisted Cone-Beam CT and Augmented Fluoroscopy-Guided Navigation Bronchoscopy in Peripherally Located Solitary Pulmonary Nodules With High-Risk Pneumothorax</p> |
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