Pulmonary Hypertension Summit 2019

November 7-8, 2019
- InterContinental Hotel and Bank of America Conference Center
  Cleveland, OH
- Sonesta Fort Lauderdale
  Fort Lauderdale, FL

Register Today! www.ccfcme.org/PH2019
Pulmonary Hypertension Summit 2019

You Don’t Want to Miss This Activity

**Pulmonary Hypertension Summit** will provide you with an overview of the practical issues in the diagnosis, evaluation, and management of patients with pulmonary hypertension. The Summit will synthesize the World Symposium on Pulmonary Hypertension proceedings. Expert speakers will present the most recent advances in the context of challenges faced by physicians and other health care providers caring for these patients. Other key features are a patient-oriented session on the nuts and bolts of patient management and a pulmonary hypertension clinical immersion hands-on workshop.

Take advantage of the unique opportunity to learn from international faculty, interact with colleagues throughout the United States, and learn from shared experts via live broadcast from two locations – Cleveland, OH and Fort Lauderdale, FL.

**By Attending, You Will Be Able To:**

- Critically review the recommendations for definition, diagnosis, clinical classification, risk stratification, and treatment of pulmonary hypertension (PH) advocated at the 2018 World Symposium on PH.
- Discuss the appropriate diagnostic strategy for pulmonary arterial hypertension, including the roles of echocardiography, ventilation-perfusion scanning, and right heart catheterization, and describe their use in therapeutic strategies.
- Review the characteristics and management approaches to PH associated with left-sided heart disease or pulmonary disease.
- Summarize advances in research on the pathophysiology and treatment of PH and discuss potential improvements in clinical trial design and outcomes measurements.
- Recognize concomitant conditions that occur in patients with PH, including sleep disorders, congenital heart disease, and chronic thromboembolic PH, and review their diagnosis and treatment.
- Describe practical approaches to the care of patients with PH in the intensive care unit.
- Initiate practice-based approaches to decreasing adverse effects and increasing adherence to treatment.
- Address patient-based obstacles to their care, especially exercise and diet plans and use of oxygen when traveling.

**Who Should Attend**

These educational activities are directed to physicians, physician assistants, advanced practice nurses, and researchers with an interest in pulmonary hypertension.

**Faculty**

**Cleveland Clinic Activity Co-Directors**

Gustavo A. Heresi, MD, MS  
Director, Pulmonary Vascular and CTEPH Program  
Respiratory Institute

Franck Rahaghi, MD  
Chairman, Department of Pulmonary Medicine  
Director, Advanced Lung Disease Program  
Respiratory Center Quality Officer  
Director, Pulmonary Hypertension Clinic  
Respiratory Center  
Cleveland Clinic Florida

**Guest Faculty**

Robert Frantz, MD  
Director  
Pulmonary Hypertension Clinic  
Professor of Medicine  
Mayo Clinic College of Medicine  
Rochester, MN

Rogerio Souza, MD, PhD  
University of Sao Paulo  
Sao Paulo, Brazil

Ryan J. Tedford, MD  
Associate Professor of Medicine  
Chief, Heart Failure  
Medical Director  
Cardiac Transplantation  
Medical University of South Carolina (MUSC)  
Charleston, SC

Fernando Torres, MD  
Medical Director  
Lung Transplantation  
Head of the Pulmonary Hypertension Program  
University of Texas South Western Medical Center  
Dallas, TX

Roham Zamanian, MD  
Associate Professor  
Pulmonary and Critical Care Medicine  
Stanford University Medical Center  
Stanford, CA
Cleveland Clinic Faculty

Nancy Bair, CNS
Department of Pulmonary and
Critical Care Medicine
Respiratory Institute

Neal Chaisson, MD
Department of Pulmonary and
Critical Care Medicine
Respiratory Institute

Raed A. Dweik, MD
Chairman, Respiratory Institute

Serpal Erzurum, MD
Chairman
Lerner Research Institute

Alice Goyanes, MD
Department of Pulmonary and
Critical Care Medicine
Respiratory Institute

Ihab Haddadin, MD
Diagnostic Radiology

Anas Hadeh, MD
Department of Pulmonary and
Critical Care Medicine
Respiratory Center, Florida

Starlet Harrimon, RN
Department of Pulmonary and
Critical Care Medicine
Respiratory Center, Florida

Kristin Highland, MD
Department of Pulmonary and
Critical Care Medicine
Respiratory Institute

Miriam Jacob, MD
Department of Cardiovascular Medicine
Heart and Vascular Institute

Scott Marlow
Department of Pulmonary and
Critical Care Medicine
Respiratory Institute

Jinesh Mehta, MD
Department of Pulmonary and
Critical Care Medicine
Respiratory Center, Florida

Joseph Parambil, MD
Department of Pulmonary and
Critical Care Medicine
Respiratory Institute

Mindy Rivera, CNS
Department of Pulmonary and
Critical Care Medicine
Respiratory Institute

Kasi Timmerman
Department of Pulmonary and
Critical Care Medicine
Respiratory Institute

Adriano Tonelli, MD
Department of Pulmonary and
Critical Care Medicine
Respiratory Institute

Thursday, November 7, 2019

7:00 am  Registration, Continental Breakfast, and Exhibits
7:50 am  Welcome Remarks

Session I: World Symposium on PH Proceedings
Moderators: Gustavo A. Heresi, MD and Franck Rahaghi, MD
8:00 am  Hemodynamic Definition and Classification
    Rogerio Souza, MD, PhD
8:30 am  Diagnosis of Pulmonary Hypertension
    Fernando Torres, MD
9:00 am  Risk Stratification and Treatment Algorithm
    Robert Frantz, MD
9:30 am  World Symposium Highlights Panel Discussion
10:00 am Refreshment Break and Exhibits

Session II: Pulmonary Hypertension Due to Heart and Lung Disease
Moderators: Miriam Jacob, MD and Franck Rahaghi, MD
10:30 am Pulmonary Hypertension Due to Left Heart Disease
    Ryan J. Tedford, MD
11:00 am Pulmonary Hypertension Due to Lung Disease
    Jinesh Mehta, MD
11:30 am Panel Discussion and Questions
12:00 pm Lunch
12:40 pm Dessert with Exhibitors

Session III: Basic Science and Future Developments
Moderators: Gustavo A. Heresi, MD and Jinesh Mehta, MD
1:00 pm Pathobiology of Pulmonary Hypertension
    Raed A. Dweik, MD
1:30 pm New Frontiers in Pulmonary Hypertension Research
    Serpal Erzurum, MD
2:00 pm PVodomics
    Kristin Highland, MD
2:30 pm Clinical Trial Design and Future Therapies
    Roham Zamanian, MD
3:00 pm Panel Discussion and Questions
3:30 pm Adjourn
Friday, November 8, 2019

Session IV: Sleep, Holes, and Clots
Moderators: Alice Goyanes, MD and Franck Rahaghi, MD
7:15 am  Continental Breakfast and Exhibits
8:00 am  Sleep Disorders and Pulmonary Hypertension
        Anas Hadeh, MD
8:30 am  Pulmonary Hypertension Associated with Congenital Heart Disease
        Neal Chaisson, MD
9:00 am  Chronic Thromboembolic Pulmonary Hypertension
        Ihab Haddadin, MD
9:30 am  Panel Discussion and Questions
10:00 am Refreshment Break and Exhibits

Session V: Practical Scenarios
Moderators: Joseph Parambil, MD and Franck Rahaghi, MD
10:30 am  The Pulmonary Hypertension Patient in the Intensive Care Unit
        Adriano Tonelli, MD
11:00 am  Case Based Presentations
        Joseph Parambil, MD and Franck Rahaghi, MD
12:00 pm Lunch

Session VI: PH Nuts and Bolts - Patient-Oriented
Moderators: Nancy Bair, CNS and Franck Rahaghi, MD
1:00 pm  Managing Adverse Effects and Improving Adherence
        Franck Rahaghi, MD
1:30 pm  Pulmonary Hypertension Coordinators Journey
        Nancy Bair, CNS and Kasi Timmerman
2:00 pm  Keeping Up with Your Disease
        Mindy Rivera, CNS
2:30 pm  Exercise and Healthy Eating
        Starlet Harrimon, RN
3:00 pm  Oxygen and Travel
        Scott Marlow
3:30 pm Adjourn

Pulmonary Hypertension Clinical Immersion - Hands-On Workshop (Ohio Only)
Neal Chaisson, MD
1:00 PM – 5:00 PM
The Pulmonary Hypertension Hands-On Workshop will demonstrate techniques (right heart catheterization and echocardiography) commonly utilized in evaluation and management of pulmonary hypertension. During this workshop learners will be able to recognize common challenges associated with pulmonary hypertension diagnosis and management.

Station A: Inside the PH Physician’s Mind – Interactive Cases in Pulmonary Hypertension
• Identify risk factors that alter the probability that a patient has PAH
• Utilize ancillary study results to risk stratify patients with suspected PAH
• Discuss how ancillary studies aid in appropriate PH classification

Station B: PA Catheter Assembly and Insertion
• Appreciate the procedural steps involved in right heart catheterization
• Participate in hands-on assembly of a PA catheter system
• Participate in insertion and flotation of a catheter in a simulation model
• Recognize flow as the main driver of catheter positioning

Station C: What is This Catheter Telling Me? Interpreting Data From a PA Catheter
• Distinguish major waveform patterns encountered during a right heart catheterization
• Appreciate the importance of leveling/zeroing a PA catheter
• Describe why a wedged PA catheter measures left atrial pressure
• Discuss how cardiac output is measured by Fick and thermodilution method and the benefits and limitations of each measure

Station D: Evaluating the Right Ventricle with Echocardiography
• Distinguish features of normal from dysfunctional RV using echocardiography
• Identify how PA pressure/RVSP calculation is calculated
• Describe key changes to RV anatomy that occur in PH
• Choose appropriate measures for assessing RV function

Each station will be 45 minutes. Learners will rotate through all stations.
Locations
Cleveland Location
InterContinental Hotel and Bank of America
Conference Center
9801 Carnegie Avenue
Cleveland, OH 44106
Phone: 216.707.4100 or 877.707.8999

Fort Lauderdale Location
Sonesta Fort Lauderdale
999 North Fort Lauderdale Beach Boulevard
Fort Lauderdale, FL 33304
Phone: 855.463.3096

Hotel Accommodations
InterContinental Hotel, Cleveland
A limited block of rooms has been reserved at the InterContinental Hotel only until October 16, 2019 at 5:00 pm ET. To make your reservations, contact the hotel at 855.765.8709 and identify yourself as an attendee for Cleveland Clinic Pulmonary Hypertension Summit for special rates of $205, plus taxes.

Sonesta Fort Lauderdale
A limited block of rooms has been reserved at the Sonesta Fort Lauderdale only until Tuesday, October 8, 2019. To make your reservations, contact the hotel at 855.463.3096 and identify yourself as an attendee for the Cleveland Clinic Pulmonary Hypertension Summit for special rates of $159, plus taxes.

Need More Information?
For further information about Americans Disability Act, faculty disclosure, and this activity, contact the Cleveland Clinic Center for Continuing Education.
Visit www.ccfcme.org/PH2019

Accreditation
The Cleveland Clinic Foundation Center for Continuing Education is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.
The Cleveland Clinic Foundation Center for Continuing Education designates:
• Pulmonary Hypertension Summit live activity for a maximum of 12 AMA PRA Category 1 Credits™.
• Optional Pulmonary Hypertension Clinical Immersion Workshop live activity for a maximum of 3.75 AMA PRA Category 1 Credits™.
Participants claiming CME credit from this activity may submit the credit hours to the American Osteopathic Association for Category 2 credit.

American Board of Internal Medicine’s Maintenance of Certification
Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 12 MOC points in the American Board of Internal Medicine’s (ABIM) Maintenance of Certification (MOC) program for Pulmonary Hypertension Summit.
3.75 MOC points in the American Board of Internal Medicine’s (ABIM) Maintenance of Certification (MOC) program for Optional Pulmonary Hypertension Clinical Immersion Workshop.
Participants will earn MOC points equivalent to the amount of CME credits claimed for the activity. It is the CME activity provider’s responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.

Other Health Care Professionals
A certificate of participation will be provided to other health care professionals for requesting credits in accordance with state nursing boards, specialty societies, or other professional associations.

Register Online at ccfcme.org/PH2019
Fee includes: continental breakfasts, refreshment breaks, lunch, and faculty PowerPoint presentations in PDF format, available online.

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*Letter from program director is required to receive the discounted fee. If letter is not received two weeks prior to the activity, the full physician fee will be charged

Patients and caregivers are invited to attend at no charge.* Seating is limited. Please register online.

Registration and Cancellation
Preregistrations are accepted until 2:00 pm ET, November 5, 2019. Register on site after this date.

In case of cancellation, email notification is required to process your refund. A full refund will be issued if canceled by October 4, 2019. After October 4, 2019, a $100 cancellation fee will be deducted from your refund. No refunds will be issued after October 30, 2019.

For questions about registration or cancellation, email us at cmeregistration@ccf.org or call 216.448.8710.

Cleveland Clinic Center for Continuing Education reserves the right to cancel or postpone an activity at our sole discretion. In the unlikely event that this occurs, any registration fee(s) paid will be refunded. Be advised that Cleveland Clinic is not responsible for related costs including airline tickets, hotel costs, or any similar fee penalties incurred as a result of any trip cancellations or changes.

*Any patients or caregivers eligible for AMA PRA Category 1 Credit™ must register as a paid participant.
Precision Care in Lung Diseases

November 6, 2019
InterContinental Hotel, Cleveland, OH

Overview
Precision Care in Lung Diseases is an optional one-day pre-symposium that will provide an update on pulmonary genomics in the areas of airway diseases, lung cancer, pulmonary hypertension, and interstitial lung disease. Pharmacogenetics has revolutionized patient care and the therapy of lung diseases in particular. While the practice of medicine continues to be limited to guidelines that treat all patients equally, precision medicine aims at tailoring medical therapy to the clinical and genetic characteristics of each patient. Attend this symposium for an update on the rapidly evolving discipline of genomics and new advances that can be applied to your clinical practice.

Objectives
• Describe the current state and future trends of precision medicine in patients with lung diseases
• Highlight recent evidence showing the importance of sex/gender as a biological variable and describe the implications of these data to pulmonary medicine
• Apply research on sex/gender differences to improve the care of patients with lung diseases

This activity has been approved for AMA PRA Category 1 Credit™.

Activity Director
Joe Zein, MD, MBA
Department of Pulmonary, Allergy and Critical Care Medicine
Respiratory Institute
Cleveland Clinic
Cleveland, OH

Cleveland Clinic Faculty
Mark Aronica, MD
Daniel Culver, MD
Serpil Erzurum, MD
Lucilea Johnson, MD
Peter Mazzzone, MD, MPH
Mitchell Olman, MA, MD
Joseph Parambil, MD
Nabin K. Shrestha, MD, MPH
Adriano Tonelli, MD

Guest Faculty
Dawn DeMeo, MD, MPH
Channing Division of Network Medicine
Associate Professor of Medicine
Harvard Medical School
Department of Medicine
Division of Pulmonary and Critical Care
Brigham and Women’s Hospital
Boston, MA

Benjamin Gaston, MD
Professor, Pediatrics
Case Western Reserve University School of Medicine
Chief of the Division of Pulmonary Medicine
Chief of the Division of Pediatric Allergy and Immunology
University Hospitals Rainbow Babies & Children’s Hospital
Cleveland, OH

Scott T. Weiss MD, MS
Professor of Medicine
Harvard Medical School
Director, Partners HealthCare Personalized Medicine, Partners HealthCare
Associate Director, Channing Division of Network Medicine, Brigham and Women’s Hospital
Boston, MA

Register Today! ccfcme.org/PrecisionCare
AGENDA

8:00 AM Registrations/Continental Breakfast/Exhibits
8:30 AM Welcome Remarks
   Serpil Erzurum, MD

Session 1: Introduction
8:45 AM Does Childhood Asthma Become Adult COPD? Gender Differences in Risk
   Scott T. Weiss, MD, MS
9:30 AM Emerging Concepts in Precision Medicine: Sex, Gender and COPD
   Dawn DeMeo, MD, MPH
10:15 AM Break/Exhibits

Session 2: Airway Diseases
10:45 AM Childhood Obstructive Disease: Gender and Hormonal Differences
   Benjamin Gaston, MD
11:15 AM Do Allergies Affect Women More Than Men? Maybe
   Mark Aronica, MD
11:45 AM Asthma is Different in Women
   Joe Zein, MD
12:05 PM Panel Discussion
12:15 PM Lunch

Session 3: Interstitial Lung Diseases
1:15 PM Precision Care in Interstitial Lung Diseases and Idiopathic Pulmonary Fibrosis
   Mitchell Olman, MA, MD
1:35 PM Sarcoidosis: Sex and Race-Dependent Differences in Disease Manifestation and Management
   Daniel Culver, MD
1:55 PM Lymphangioleiomyomatosis: A Sex Specific Lung Disease
   Joseph Parambil, MD
2:15 PM Panel Discussion
2:30 PM Break/Exhibits

Session 4: Infectious Diseases
3:00 PM Molecular Diagnostics and Infectious Diseases
   Nabin K. Shrestha, MD, MPH
3:30 PM Personalized Care in Nontuberculous Mycobacteria: Best Practices in Managing NTM
   Lucileia Johnson, MD
3:50 PM Panel Discussion

Session 5: Miscellaneous Lung Diseases
4:00 PM Early Detection Biomarkers and Gender Differences in Lung Cancer
   Peter Mazzone, MD, MPH
4:20 PM Pulmonary Hypertension in Women: Why Gender Matters?
   Adriano Tonelli, MD
4:40 PM Panel Discussion
4:50 PM Adjourn

Register Today! ccfcmef.org/PrecisionCare
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TWO LOCATIONS! Choose the best for you!

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