

This course sold out the past 3 years. Early registration for the 2019 program is strongly advised.

# Pulmonary and Critical Care Medicine 2019

April 28 - May 1, 2019 • Royal Sonesta Boston, Cambridge, MA

Diagnosis Physical Examination New Therapies Treatment Plans Procedures Patient Counseling • High-flow oxygen therapy for respiratory failure

HARVARD

MEDICAL SCHOOL

- Gut and lung microbiome: emerging implications for lung health
- Incorporating new biologic therapies into your practice
- Pulmonary embolus: the latest treatment strategies
- Expanded diagnostic options for mycobacterial infection
- New practice recommendations for treating sepsis
- ICU advances for ECMO and delirium
- Guidance to conduct end-of-life discussions
- Lung cancer: new targeted therapies and immunotherapies
- Influenza: pathogenesis and emerging therapies
- New oral antithrombotic agents

#### Earn up to 34.00 AMA PRA Category 1 Credits™





Kathryn A. Hibbert, MD; David J. Kanarek, MD; B. Taylor Thompson, MD



MASSACHUSETTS GENERAL HOSPITAL

# **Register at PCC.HMSCME.com**

# **Course Highlights**

#### Practitioners from around the world attend this course for:

- The most current guidelines for treating sepsis
- Pulmonologists
- **Critical Care Physicians**
- Internists
- **Nurse Practitioners**
- **Physician Assistants**
- **Residents and Fellows**



Sleep Medicine for the Practicing Pulmonologist

Wednesday, May 1, 1:30-4:45 pm

- Treating sleep apnea
- Sleep diagnostics
- Non-invasive ventilation

- Gut and lung microbiome: emerging implications for lung health
- · Best practices to apply the newest asthma and COPD drugs
- How to navigate controversies surrounding therapeutic hypothermia (including if and when to use it)
- New approaches that improve outcomes for patients with unexplained chronic cough
- When and how to utilize high-flow oxygen
- · When to consider ECMO in a hypoxemic patient
- · 2019 guidelines for management of lung nodules
- Proper usage of new antithrombotic agents
- Targeted therapies and immunotherapies for lung cancer
- When to consider lung transplantation
- · When and how to use the new drugs in IPF
- · Expert advice on mycobacterial diagnostics and therapy
- 2019 updates for severe influenza: pathogenesis, and when and how to employ peramivir, zanamivir, oseltamivir
- New concepts in the use of vasopressors in septic shock
- · New drugs and combinations in pulmonary hypertension
- New management strategies for pulmonary embolus
- This program includes comprehensive updates and best practices to optimize patient outcomes
- Chronic cough
- COPD
- Lung nodules
- Sleep apnea
- Asthma
- Influenza
- GERD
- Sarcoidosis
- Sepsis
- ARDS

- Thromboembolism
- Lung cancer
- Interstitial lung disease
- Pulmonary hypertension
- Mycobacterial disease
- Mechanical ventilation
- Neurologic emergencies
- Pleural disease
- Lung transplantation
- Bronchiectasis

This program is among the highest-rated Harvard Medical School CME courses



Dear Colleague,

As busy clinicians, we have all experienced the growing pile of unread journals or patients' questions about a new medication that we haven't had time to research. It's hard to keep up with the pace of diagnostic and treatment updates, and this puts us at risk of managing patients with outdated strategies.

To effectively synthesize reams of new data in a way that can impact patient outcomes requires protected time away from life's otherwise full schedule. That's why we started this conference over thirty years ago.

Focused on evidence-based and practical strategies, this program:

- Consolidates updates in the areas of greatest importance in pulmonary and critical care medicine.
- Is taught by master clinicians that can deliver information in an entertaining way.
- Ensures that attendees leave not only with new treatment strategies and guidelines and an understanding of newer diagnostic options, but also with specific recommendations to incorporate these updates into practice.
- Actively encourages faculty and participants to develop lasting professional relationships.
- Offers a glimpse into the future of the field with short talks given by world-renowned experts on inspiring and cutting-edge topics.

Most of us went into this profession to use our diagnostic and therapeutic knowledge to help patients. Now, with more attention being paid to "practice variability" by health professionals, the need to continuously hone diagnostic and therapeutic skills has never been greater. We encourage you to join us in April for this timely and important program.

Sincerely,



Kathryn A. Hibbert, MD Instructor in Medicine Harvard Medical School



**David J. Kanarek, MD** Associate Professor of Medicine Harvard Medical School



**B. Taylor Thompson, MD** *Professor of Medicine Harvard Medical School* 



# **Register at PCC.HMSCME.com**

### FACULTY

#### Harvard Medical School Faculty

Todd L. Astor, MD Lorenzo Berra, MD Paul D. Biddinger, MD Katharine E. Black, MD Bartolome R. Celli, MD Frank B. Cortazar, MD Bethany-Rose Daubman, MD Benjamin T. Davis, MD Maha Farhat, MD, MSc Erik E. Folch. MD Michael A. Gillette, MD, PhD Leo C. Ginns, MD Jason Griffith, MD, PhD C. Corey Hardin, MD, PhD Rebecca Suk Heist, MD Kathryn A. Hibbert, MD Calvin Huang, MD, PhD Rocio M. Hurtado, MD, DTM&H Robert M. Kacmarek, PhD, RRT David J. Kanarek. MD Colleen M. Keyes, MD, MPH David J. Kuter, MD, DPhil Peggy Lai, MD Gregory D. Lewis, MD Aidan A. Long, MBBCh Theresa C. McLoud, MD Benjamin D. Medoff, MD James E. Mojica, MD, FAASM Sydney B. Montesi, MD Isabel Neuringer, MD Crystal M. North, MD Walter J. O'Donnell, MD Jayaraj Rajagopal, MD Yuval Raz, MD Josanna M. Rodriguez-Lopez, MD Kai Saukkonen, MD B. Taylor Thompson, MD Alison Witkin, MD Sahar Zafar, MD

#### **Guest Faculty**

Jeff Berman, MD Professor of Medicine Boston University School of Medicine

#### David Greer, MD

Professor and Chairman, Neurology Boston University School of Medicine

#### L. Christine Oliver, MD

Adjunct Professor Dalla Lana School of Public Health Division of Occupational and Environmental Health University of Toronto

### OVERVIEW

#### **Course Description**

The objective of Pulmonary and Critical Care Medicine 2019 is to review subjects of major clinical importance together with current approaches to their diagnosis and their management. The topics include a variety of intensive care issues such as sepsis, ARDS, vasopressors, and ventilator management, as well as pulmonary issues such as lung transplantation, interstitial lung disease, COPD, pulmonary hypertension, cough, pleural disease, sleep apnea, pneumonia, tuberculous and non-tuberculous mycobacteria, asthma, the management of thromboembolism, and lung cancer. The course utilizes lectures and case discussion, supplemented by extensive lecture notes and an accompanying bibliography, and informal meet-the-professor sessions.

The program features expert speakers with diverse teaching methodologies, including lecture seminars, case discussion and expert panels (Meet-the-Professor) for interactive question/answer sessions. The use of multiple learning methodologies to engage the learners in the educational process will assist them in developing new strategies to use in their daily practice.

Pulmonary and Critical Care Medicine 2019 is presented in the highest standard of academic rigor. The topics presented are evidence based, and will inform and inspire the participants to retain the newly acquired knowledge and incorporate it into their daily practice.

#### Learning Objectives

Upon completion of this course, participants will be able to:

- Evaluate the pathophysiology of lung disease and critical illness, including key pathologic and radiologic features
- Apply evidence from recent literature to clinical case management
- Incorporate new clinical practice guidelines into care to improve patient outcomes
- Utilize diagnostic and therapeutic tools offered by specialists outside of pulmonary and critical care medicine to optimally care for complicated patients

#### Accreditation

ACCREDITATION COUNCIL FOR CONTINUING MEDICAL EDUCATION The Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The Harvard Medical School designates this live activity for a maximum of 34.00 AMA PRA Category 1 Credits<sup>TM</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity. NURSE PRACTITIONERS and NURSES

For the purpose of recertification, the American Academy of Nurse Practitioners Certification Board and American Nurses Credentialing Center accept *AMA PRA Category* 1 *Credit*<sup>™</sup> issued by organizations accredited by the ACCME (Accreditation Council for Continuing Medical Education). We would also suggest that learners check with their state licensing board to ensure they accept reciprocity with *AMA PRA Category* 1 *Credit*<sup>™</sup> for re-licensure.

#### PHYSICIAN ASSISTANTS

The National Commission on Certification of Physician Assistants (NCCPA) states that *AMA PRA Category 1 Credits*<sup>™</sup> are acceptable for continuing medical education requirements for recertification. We would also suggest that learners check with their state licensing board to ensure they accept reciprocity with *AMA PRA Category 1 Credit*<sup>™</sup> for re-licensure

#### CANADIAN ACCREDITATION

The Royal College of Physicians and Surgeons of Canada recognizes conferences and workshops held outside of Canada that are developed by a university, academy, hospital, specialty society or college as accredited group learning activities.

#### EUROPEAN ACCREDITATION

Through an agreement between the American Medical Association and the European Union of Medical Specialists, physicians may convert *AMA PRA Category 1 Credit*™ to an equivalent number of European CME Credits<sup>®</sup> (ECMECs<sup>®</sup>). Information on the process of converting *AMA PRA Category 1 Credits*™ to ECMECs<sup>®</sup> can be found at: www.eaccme.eu

#### Disclaimer

CME activities accredited by Harvard Medical School are offered solely for educational purposes and do not constitute any form of certification of competency. Practitioners should always consult additional sources of information and exercise their best professional judgment before making clinical decisions of any kind.

## PULMONARY AND CRITICAL CARE MEDICINE 2019

S	Sunday, April 28				
7:00 - 7:55	Registration Continental Breakfast				
7:55 - 8:00	<b>Welcome</b> David J. Kanarek, MD				
Morning Sessions					
8:00 - 8:40	GERD in Pulmonology: When It Causes Lung Disease and How to Treat It David J. Kanarek, MD				
8:40 - 9:20	Noninvasive Respiratory Support for Acute Respiratory Failure: Less May Not Be Best Robert M. Kacmarek, PhD, RRT				
9:20 - 10:00	Emerging Concepts in COPD Bartolome R. Celli, MD				
10:00 - 10:20	Coffee break (refreshments provided)				
10:20 - 11:00	Occupational and Environmental Lung Disease: Detection, Diagnosis, Treatment, and Legal Implications L. Christine Oliver, MD				
11:00 - 11:40	ECMO in 2019 Yuval Raz, MD				
11:40 - 12:20	Diagnosis and Management of IPF: When, Why and How to Use the Newest Drugs Sydney B. Montesi, MD				
12:20 - 1:40	Break for lunch*				
1:00 - 1:30	Lunch Hour Presentation: MGH Best Cases Fellows (Bring your own lunch)				
	Afternoon Sessions				
1:40 - 2:20	Cystic Fibrosis and Bronchiectasis: Understanding CFTR and New Treatment Options Isabel Neuringer, MD				
2:20 - 3:00	Sedation, Analgesia and Early Mobility: The State of the Art in 2019 Crystal M. North, MD				
3:00 - 3:40	Interstitial Lung Disease and Autoimmune Disease: Optimizing Tests, Treatment, and Patient Outcomes Katharine E. Black, MD				
3:40 - 4:00	Coffee break (refreshments provided)				
4:00 - 4:40	Pleural Disease: 2019 Updates Colleen M. Keyes, MD, MPH				
4:40 - 5:20	Uncommon and Rare Lung Disease Leo C. Ginns, MD				
5:20 - 6:00	The Pulmonary Microbiome				

Monday, April 29				
7:00 - 8:00	Meet the Professors Continental Breakfast			
	Morning Sessions			
3:00 - 8:40	Prognosis and Uncertainty in the ICU Walter J. O'Donnell, MD			
3:40 - 9:20	New Therapeutics in Lung Disease: Therapeutics and Immunotherapy Updates Benjamin D. Medoff, MD			
9:20 - 10:00	Vasopressors in Septic Shock: A New Paradigm Jason Griffith, MD, PhD			
10:00 - 10:20	Coffee break (refreshments provided)			
10:20 - 11:00	Thoracic Ultrasound in Critical Care Calvin Huang, MD, PhD			
11:00 - 11:40	<b>Common Neurologic Issues</b> <b>in the ICU</b> Sahar Zafar, MD			
11:40 - 12:20	ARDS: State-of-the-Art Strategies to Protect the Lung Kathryn A. Hibbert, MD			
12:20 - 1:40	Break for lunch*			
1:00 - 1:30	Lunch Hour Presentation: New Insights into Lung Adenocarcinoma through Proteogenomics Michael A. Gillette, MD, PhD (Bring your own lunch)			
	Afternoon Sessions			
1:40 - 2:20	Pneumonia (Community and Hospital Acquired): The Newest Guidelines and State-of-the-Art Treatment Strategies Benjamin T. Davis, MD			
2:20 - 3:00	New Approaches to the Unexplained Chronic Cough Kai Saukkonen, MD			
3:00 - 3:40	Atypical Mycobacterial Disease Rocío M. Hurtado, MD, DTM&H			
3:40 - 4:00	Coffee break (refreshments provided)			
4:00 - 4:40	Asthma: Ensuring Your Treatment Approaches Are Current with the State of the Art Aidan A. Long, MBBCh			
4:40 - 5:20	Palliative Care Bethany-Rose Daubman, MD			
6:00 - 8:00	Networking Reception East Garden Room, Massachusetts General Hospital Join us for a networking event with refreshments and hors d'oeuvres			

### **PULMONARY AND CRITICAL CARE MEDICINE 2019**

Tuesday, April 30				
7:00 - 8:00 Meet the Professors Continental Breakfast				
Morning Sessions				
8:00 - 8:40	Interventional Pulmonology in 2019 Erik E. Folch, MD			
8:40 - 9:20	Pathogenesis of Sepsis and Current Treatment Guidelines: Evolution of a New Paradigm B. Taylor Thompson, MD			
9:20 - 10:00	Lung Transplantation: Updates on When to Refer, Lung Allocation, and Patient Selection Todd L. Astor, MD			
10:00 - 10:20	Coffee break (refreshments provided)			
10:20 - 11:00	Exercise and Cardiopulmonary Disorders: Indications and Interpretation Gregory D. Lewis, MD			
11:00 - 11:40	Treatment of Non-Small Cell Lung Cancer: Traditional Chemotherapy, Targeted Therapies, and Immunotherapies Rebecca Suk Heist, MD			
11:40 - 12:20	A New Cellular Narrative for Lung Disease Jayaraj Rajagopal, MD			
12:20 - 1:40	Break for lunch*			
1:00 - 1:30	Lunch Hour Presentation: MGH Best Cases Fellows (Bring your own lunch)			
	Afternoon Sessions			
1:40 - 2:20	Pandemics and Emerging Therapies Paul D. Biddinger, MD			
2:20 - 3:00	Thrombotic Mechanisms and Antithrombotic Agents: How Do the New Oral Agents Fit In? David J. Kuter, MD, DPhil			
3:00 - 3:40	Sarcoidosis: How to Approach Treatment Challenges Jeff Berman, MD			
3:40 - 4:00	Coffee break (refreshments provided)			
4:00 - 4:40	Pulmonary Embolism and DVT: Updates in Diagnosis and Improved Treatment Alison S. Witkin, MD			
4:40 - 5:20	Pulmonary Hypertension: Evaluation and Controversy in Management Josanna M. Rodriguez-Lopez, MD			
5:20 - 6:00	A Strategic Approach to the Management of Pulmonary Nodules: What Makes Sense?			

Theresa C. McLoud, MD

Wednesday, May 1				
7:00 - 8:00	Meet the Professors Continental Breakfast			
Morning Sessions				
8:00 - 8:40	New Diagnostic Approaches to Tuberculosis and Implications for Emerging Resistance in Other Pathogens Maha Farhat, MD, MSc			
8:40 - 9:20	Therapeutic Hypothermia: Controversies and Consensus in 2019 David Greer, MD			
9:20 - 10:00	Physiologic Crystalloids: Ready for Prime Time Lorenzo Berra, MD			
10:00 - 10:20	Coffee break (refreshments provided)			
10:20 - 11:00	IV Fluids and Responsiveness C. Corey Hardin, MD, PhD			
11:00 - 11:40	Hemorrhage and ANCA-Associated Disease Frank B. Cortazar, MD			
11:40	Main Course Adjourns / Break for lunch*			

Wednesday Afternoon					
	Optional Half-Day Sleep Medicine Workshop				
Sleep Medicine for the Practicing Pulmonologist					
J	ames E. Mojica, MD, FAASM				
1:30 - 2:15	Obstructive Sleep Apnea				
2:15 - 3:00	Central Sleep Apnea				
3:00 - 3:15	Coffee break (refreshments provided)				
3:15 - 4:00	Sleep Diagnostics: Home Testing,				

#### Lab-Based Testing, Pulse **Oximetry, and Device Downloads** Using Cards and Wi-Fi Non-invasive Ventilation for 4:00 - 4:45 Neuromuscular Disorders and **Alveolar Hypoventilation** Syndromes

\* There are many convenient and varied lunch options within a short walking distance of the course.

Program changes/substitutions may be made without notice. To view the most up-to-date version of the course program, please visit the course website.



# **Register at PCC.HMSCME.com**

	Course Tuition			
Pulmonary and Critical Care Medicine 2019 Course #732605-1902	Register after March 15, 2019	Register on or before March 15, 2019		
Physicians	\$1,375	\$1,275 (SAVE \$100)		
Allied Health Professionals and Residents/Fellows	\$1,275	\$1,175 (SAVE \$100)		
SPECIAL ADD-ON WORKSHOP (OPTIONAL)				
Sleep Medicine for the Practicing Pulmonologist Wednesday, May 1, 1:30 - 4:45 pm\$185		85		

Your tuition includes all breakfasts and coffee breaks, complimentary internet access, and a special reception at Massachusetts General Hospital on Monday evening, April 29.

<u>Course Materials:</u> All attendees of Pulmonary and Critical Care Medicine 2019 will receive a flash drive and electronic access to the course materials. If you would like a printed copy of the syllabus, please purchase it in advance for \$50 with your course registration. A very limited supply will be available on site at the course for \$80.

#### **Registration, Payment, Confirmation and Refund Policy**

Registrations for Harvard Medical School CME programs are made via our secure online registration system. To register for this course, please visit the course website at PCC.HMSCME.com.

At the end of the registration process, a \$10 non-refundable processing fee will be added to your registration, and you will have the choice of paying by check, credit card (Visa, MasterCard, or American Express), or wire transfer in USD. If you are paying by check (draft on a United States bank) or by wire transfer, the online registration system will provide you with instructions for remitting your course fees. Postal, telephone, fax, and cash-payment registrations are not accepted. All fees shown in USD.

Upon receipt of your paid registration, an email confirmation will be sent to you. Be sure to include an email address that you check frequently. Your email address is used for critical information, including registration confirmation, evaluation, and certificate. Refunds, less an administrative fee of \$75, will be issued for all cancellations received two weeks prior to the start of the course. Refund requests must be received by email. No refund will be issued should cancellation occur less than two weeks prior. "No shows" are subject to the full course fee and no refunds will be issued once the conference has started.

#### Venue

Royal Sonesta Boston 40 Edwin Land Boulevard Cambridge, Massachusetts 02142 +1 617-806-4200

#### Accommodations\*

A limited number of discounted rooms have been reserved at the Royal Sonesta Boston until March 28, 2019. Please call the hotel directly at 617-806-4200 and ask for Reservations, or toll free at 1-800-SONESTA (766-3782). It is important to identify yourself as part of the Harvard Pulmonary & Critical Care Course 2019 to take advantage of the special group rate.



You can also make your discounted reservation online before March 28 by going to the course website at PCC.HMSCME.com and clicking on the dedicated reservation link on the Venue page.

\*Please note that the discounted rooms may sell out before the deadline.

Please do not make non-refundable travel arrangements until you have received an email confirming your paid registration.

#### **Questions?**

Call 617-384-8600 Mon-Fri 9am – 5pm (ET). Send e-mail to CEPrograms@hms.harvard.edu.

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