

An aerial photograph of Chicago, Illinois, showing a dense urban skyline with numerous skyscrapers. In the foreground, the Northwestern University campus is visible, featuring large green lawns, trees, and several large, modern buildings. The sky is blue with scattered white clouds. A dark purple banner is at the top of the image, containing the Northwestern Medicine logo and the event title.

M Northwestern
Medicine®

2nd Annual Advances in Pulmonary Hypertension

August 4, 2017

**The Omni Chicago Hotel
Chicago, Illinois**

General Information

Learning Objectives

At the conclusion of this activity, participants should be able to:

- 1 Differentiate the important features of the various etiologies of pulmonary hypertension when making a diagnosis
- 2 Describe the accepted therapies for pulmonary hypertension and their indications
- 3 Review the management of patients with pulmonary hypertension in accordance with accepted clinical guidelines
- 4 Recognize when patients have suboptimal response to treatments and be aware of what advanced treatments are available
- 5 Understand the methods to assess imaging modalities for thoracic imaging in patients with pulmonary hypertension
- 6 Appreciate the therapeutic options in patients with CTEPH
- 7 Identify with provocations during cardiac catheterization will inform about the nature of the pulmonary hypertension
- 8 Understand the genetic basis of pulmonary vascular disease and its clinical implications

Target Audience

This continuing medical education program is designed to meet the educational needs of cardiologists, pulmonologists, internal medicine, hospitalists, advanced practice nurses, registered nurses, physician assistants, pharmacists, cardiology and pulmonary medicine fellows and residents in training.

Conference Location

This program will be held at The Omni Chicago Hotel, located at 676 North Michigan Avenue, Chicago Illinois 60611. Please contact The Omni Hotel Chicago at (312) 944-6664 or www.omnihotels.com/hotels/chicago for directions and parking information.

Accreditation Statement

The Northwestern University Feinberg School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Credit Designation Statement

The Northwestern University Feinberg School of Medicine designates this live activity for a maximum of 7.5 *AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only credit commensurate with the extent of their participation in the activity.

Other Credits: The American Academy of Nurse Practitioners and the American Nurses Credentialing Center accept *AMA PRA Category 1 Credit(s)*[™] from organizations accredited by the ACCME.

Registration

You may register on-line at: www.cme.northwestern.edu. An email confirmation will be sent once your registration is complete. If you do not receive a confirmation, please contact the Office of CME at 312-503-8533. Registrations can also be mailed with a check made payable to Northwestern University. Registrations will not be accepted by telephone.

Cancellation Policy

Cancellations must be made in writing to the Office of Continuing Medical Education. The paid registration fee, minus a \$50 administrative charge, will be refunded if cancellation is received by July 14, 2017.

Special Needs

The Feinberg School of Medicine fully intends to comply with the legal requirements of the Americans with Disabilities Act. If any participant of this conference is in need of accommodation please indicate those needs on the registration form or submit written requests to the Office of CME at least one month prior to the conference date.

Additional Information

Contact the Northwestern University, Feinberg School of Medicine, Office of Continuing Medical Education, phone: 312-503-8533, Fax: 312-503-4531, email: cme@northwestern.edu or visit our website at: www.cme.northwestern.edu.

Agenda – August 4, 2017

Morning

- 8:00 – 8:05** **Opening remarks**
Stuart Rich
- 8:05 – 8:30** **The patient with multifactorial pulmonary hypertension: How to know what to treat**
Michael Cuttica
- 8:30 – 8:45** **Discussion**
- 8:45 – 9:10** **Choosing the best exercise modality to evaluate patients with pulmonary hypertension: 6 minute walk, treadmill, and CPET**
Hector Cajigas
- 9:10 – 9:25** **Discussion**
- 9:25 – 9:50** **Provocations in the cath lab to better understand pulmonary hypertension in your patient**
Jonathan Rich
- 9:50 – 10:15** **Discussion**
- 10:15 – 10:30** **Break**
- 10:30 – 11:00** **SPECIAL LECTURE: Clinical implications of the genetic basis of pulmonary hypertension**
John Newman
- 11:00 – 11:10** **Discussion**
- 11:10 – 11:30** **Combination therapy for PAH: Is it cost effective?**
Stuart Rich
- 11:30 – 11:45** **Discussion**
- 11:45 – 12:15** **Case Presentations**
Presenter: Michael Cuttica
Panel: Hector Cajigas, Jonathan Rich, John Newman
- 2:15 – 1:15** **Lunch**

Afternoon

- 1:15 – 1:40** **Precision medicine and pulmonary hypertension: What does the future hold?**
Stuart Rich
- 1:40 – 1:50** **Discussion**
- 1:50 – 2:10** **Combined pre-post capillary pulmonary hypertension: A new disease?**
Sanjiv Shah
- 2:10 – 2:25** **Discussion**
- 2:25 – 2:45** **Thoracic imaging in pulmonary hypertension: Clinical pearls**
Ben Freed
- 2:45 – 3:00** **Discussion**
- 3:00 – 3:15** **Break**
- 3:15 – 3:35** **Interventional options for treating chronic thromboembolic pulmonary hypertension**
Chris Malaisrie
- 3:35 – 4:00** **Discussion**
- 4:00 – 4:20** **The management of massive and submassive pulmonary embolism**
Dan Schimmel
- 4:20 – 4:30** **Discussion**
- 4:30 – 5:00** **Case Presentations**
Presenter: Hector Cajigas
Panel: Michael Cuttica, Dan Schimmel, Sanjiv Shah
- 5:00** **Concluding remarks**
Stuart Rich

Faculty Disclosure

Northwestern University Feinberg School of Medicine (NUFSM) requires course directors, speakers, instructors, planners, and other individuals who are in a position to control the content of this activity to disclose any relevant financial relationships. All identified potential conflicts of interest are thoroughly vetted by NUFSM for fair balance, scientific objectivity of studies mentioned in the materials or used as the basis for content, and appropriateness of patient care recommendations. The faculty disclosures and the discussion off-label usage will be indicated in the course syllabus.

Northwestern University Feinberg School of Medicine Faculty

Course Directors

Stuart Rich, MD

Director, Pulmonary Vascular Disease Program
Bluhm Cardiovascular Institute
Northwestern Memorial Hospital
Professor of Medicine – Cardiology

Michael Cuttica, MD

Associate Director, Pulmonary Vascular Disease Program
Northwestern Memorial Hospital
Assistant Professor of Medicine - Pulmonary

Speakers

Hector Cajigas, MD

Associate Head for Clinical Operations
Division of Pulmonary and Critical Care Medicine
Northwestern Memorial Hospital
Associate Professor of Medicine - Pulmonary

Jonathan Rich, MD

Medical Director, Mechanical Circulatory Support Program
Bluhm Cardiovascular Institute
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Surgical Director, Bicuspid Aortic Valve Program
Bluhm Cardiovascular Institute
Northwestern Memorial Hospital
Associate Professor of Surgery - Cardiac Surgery

Sanjiv Shah, MD

Director, Heart Failure with Preserved Ejection Fraction Program
Bluhm Cardiovascular Institute
Northwestern Memorial Hospital
Associate Professor of Medicine- Cardiology

Guest Faculty Speakers

John Newman, MD

Elsa S. Hanigan Professor of Pulmonary Medicine
Director, Pulmonary & Critical Care Fellowship Program
Vanderbilt University

For additional information, contact the Northwestern University,
Feinberg School of Medicine, Office of Continuing Medical Education,
phone: 312-503-8533, Fax: 312-503-4531,
email: cme@northwestern.edu or visit our website at:
cme.northwestern.edu.

Registration

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The Omni Chicago Hotel

- Physician \$200
- Nurses..... \$100
- Fellows or Residents in Training \$ 0

**Must provide a letter from program director to receive complimentary registration.*

How to Register

ONLINE – cme.northwestern.edu

OR mail with check to (Make check payable to Northwestern University)

Northwestern University
Feinberg School of Medicine
Office of Continuing Medical Education
240 E. Huron, Ste. 1-200
Chicago, IL 60611

The registration fee includes: A continental breakfast, lunch, refreshment breaks, and the course handout.

Registrations will not be accepted by telephone. Please note that credit cards cannot be accepted for on-site registrations. On-site registrations must be made with a check.

Please type or print

Last Name: _____ Degree: _____

First Name: _____

Institution: _____

Address: _____

City: _____ State: _____ Zip code: _____

Daytime Phone: _____

E-mail: _____
(required — your confirmation and receipt will be emailed)

Specialty: _____



Please indicate any special needs: _____

Please indicate any dietary needs: _____

For questions regarding registration please contact the Office of Continuing Medical Education at cme@northwestern.edu or 312-503-8533. Cancellations must be made in writing via email.

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No refunds will be granted after July 14, 2017.

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