The 5th Annual Chicago Cardiovascular Update Meeting

July 7-9, 2016
Chicago, Illinois

Sponsored by:
Bluhm Cardiovascular Institute - Northwestern Medicine and Northwestern University Feinberg School of Medicine

Endorsed by the American College of Cardiology
Dear Colleague,

We are pleased to invite you to the Fifth Annual Chicago Cardiovascular Update, July 7-9, 2016. Building on our past success and your thoughtful feedback, we are once again bringing to the community a contemporary scholarly update in cardiovascular medicine presented by highly regarded national experts both here at Northwestern University and beyond, in an interactive format that takes advantage of the great summer experiences offered in Chicago.

As has become our profile, we will adopt an evidence-based guideline driven update of the critical domains in cardiovascular medicine. We will especially focus our update on hypertension, prevention, heart failure, atrial fibrillation, valvular heart disease, and acute coronary syndromes. Significant new data and guidelines from 2015 – 2016 will represent the platform for our discussions. We are once again benefitted by the presence of lead authors and writing group committee members who are on our faculty and others with whom we frequently collaborate. In our two and a half day meeting we have allowed ample time for discussion including small group networking sessions. As before, we will use contemporary audience response technology to allow real-time questions and answers.

We will once again work with the American College of Cardiology (ACC), to obtain access to the General Cardiology MOC module and will incorporate MOC sessions in this year’s program. After completion of this year’s Cardiovascular Update, physicians will be able to claim up to 10 points towards the American Board of Internal Medicine (ABIM) MOC. The cost for this is included in the physician registration fee and we believe that this is a value for all attendees and faculty.

We hope you will join us for our Fifth Annual Chicago Cardiovascular Update and that you and your family will share a fabulous summer weekend with us in Chicago.

Our Chicago Cardiovascular Update has become THE cardiovascular CME program to attend over the summer- we look forward to seeing you!

Best regards,

Charles J. Davidson, MD
Patrick M. McCarthy, MD
Clyde W. Yancy, MD, MSc
Learning Objectives
At the conclusion of this activity, participants should be able to:
1. Describe medical and lifestyle strategies for the treatment of hypertension, hyperlipidemia and arteriosclerotic heart disease (ASCVD), including the use of newer pharmacological agents
2. Outline approaches to treating the patient with atrial fibrillation including emerging and existing technologies and anticoagulation
3. Evaluate current and future treatment options for patients with valvular heart disease and the clinical evidence available through clinical trials in process
4. Explain the utility of the team approach to evaluating and treating individuals with valvular heart disease
5. Summarize the approach to evaluating and treating women with cardiovascular disease.
6. Discuss treatment options for the heart failure patient
7. Describe available surgical and interventional strategies for patients with advanced heart failure including ventricular assist devices and heart transplantation
8. Synthesize key learning through participation in faculty led clinical case review and maintenance of certification (MOC) cases.

Target Audience
This continuing medical education program is designed to meet the educational needs of physicians and all other health care providers who participate in the care of adult patients with, or at risk for cardiovascular disease.

Conference Location
This program will be held at Gallery at GreenRiver located on the 18th floor of the Lavin Family Pavilion at 259 E. Erie Street, Chicago Illinois 60611. Please contact the Gallery at GreenRiver at (312) 337-0100 or www.greenriverchi.com/gallery 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 16.00 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: cme.northwestern.edu. An email confirmation will be sent once your registration is complete. If you do not receive a confirmation once registration is complete, 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 $50 administrative charge, will be refunded if cancellation is received by June 10th, 2016.

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.

Hotel
Rooms have been reserved at the Hyatt Chicago Magnificent Mile and will be available for a special symposium rate of $215 (single/double occupancy), plus tax. The Hyatt Chicago is located at 633 N. St. Clair Street, Chicago IL. Please contact the Hyatt directly at (888) 591-1234 or https://resweb.passkey.com/go/CVUpdate2016 to make your reservations. To receive the reduced room rate, reservations must be made by June 07, 2016 and identify yourself as a registrant of the Northwestern Cardiovascular Update Conference. Reservations made after June 7th are subject to availability at regular hotel rates. The room block may fill prior to the cutoff date, so be sure to make your arrangements early.

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.
Faculty Disclosure
Northwestern University Feinberg School of Medicine 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.

Course Directors

Charles J. Davidson, MD
Clinical Chief, Cardiology
Medical Director, Bluhm Cardiovascular Institute
Professor of Medicine
Northwestern University Feinberg School of Medicine

Patrick M. McCarthy, MD
Chief, Division of Cardiac Surgery
Executive Director, Bluhm Cardiovascular Institute
Heller-Sacks Professor of Surgery
Northwestern University Feinberg School of Medicine

Clyde Vancy, MD, MSc
Chief, Cardiology
Associate Director, Bluhm Cardiovascular Institute
Vice Dean, Diversity & Inclusion
Magerstaf Professor of Medicine
Professor, Medical Social Sciences
Northwestern University Feinberg School of Medicine

Keynote Speakers & Invited Faculty

Arthur Agatston, MD
Medical Director, Wellness and Prevention
Baptist Health Medical Group
Clinical Professor of Medicine
Florida International University’s Herbert Werth College of Medicine

Mark Alberts, MD
Vice Chair, Clinical Affairs
Department of Neurology and Neurotherapeutics
University of Texas Southwestern Medical Center

George Bakris, MD
Director, AHS Hypertension Center
University of Chicago Medicine
Professor of Medicine
University of Chicago Pritzker School of Medicine

Rebecca Katz, MS
Founder, The Healing Kitchens LLC and The Healing Kitchens Institute

Joseph G. Rogers, MD
Interim Chief, Division of Cardiology
Vice Chair for Clinical Practice,
Department of Internal Medicine
Professor of Medicine
Duke University School of Medicine

Kim A. Williams, Sr., MD
Chief, Cardiology
James B. Herrick Professor of Medicine
Rush University Medical Center

Northwestern University Feinberg School of Medicine Faculty

Allen S. Anderson, MD
Medical Director, Heart Transplantation and Mechanical Assistance Center for Heart Failure, Bluhm Cardiovascular Institute
Professor of Medicine

Keith Benzuly, MD
Cardiologist
Northwestern Memorial Hospital
Professor of Medicine, Cardiology

Robert Bonow, MD, MS
Director, Center for Cardiovascular Innovation
Northwestern Memorial Hospital
Goldberg Distinguished Professor of Cardiology

Stephen Devries, MD
Executive Director, Gapes Institute for Integrative Cardiology
Associate Professor of Medicine

Daniel J. Fintel, MD
Cardiologist
Northwestern Memorial Hospital
Professor of Medicine in Cardiology

James D. Flaherty, MD
Medical Director, Coronary Care Unit
Northwestern Memorial Hospital
Associate Professor of Medicine in Interventional Cardiology

Benjamin H. Freed, MD
Cardiologist
Northwestern Memorial Hospital
Assistant Professor in Medicine-Cardiology

Kambiz Chafourian, MD
Cardiologist
Northwestern Memorial Hospital
Assistant Professor of Medicine

Bradley Knight, MD
Medical Director, Center for Heart Rhythm Disorders
Director, Cardiac Electrophysiology
Bluhm Cardiovascular Institute
Cooley Professor of Medicine

Albert Lin, MD
Director, Cardiac Electrophysiology
Northwest Community Hospital
Associate Professor of Medicine

Donald Lloyd-Jones, MD, ScM
Senior Associate Dean for Clinical and Translational Research
Chair, Department of Preventive Medicine
Director, Northwestern University Clinical and Translational Sciences Institute (NUCATS)
Eileen M. Foell Professor in Preventive Medicine and Medicine-Cardiology

Michelle Montpetit, MD
Director, Heart Failure Program
Northwestern Medicine West Region

R. Kannan Mutharas, MD
Cardiologist
Bluhm Cardiovascular Institute
Assistant Professor of Medicine

Duc Thinh Pham, MD
Surgical Director, Heart Transplantation and Mechanical Assistance Center for Heart Failure, Associate Professor of Surgery

Mark Ricciardi, MD
Chief, Cardiac Catheterization and Interventional Cardiology
Medical Director, Center for Coronary Disease
Bluhm Cardiovascular Institute
Associate Professor of Medicine

Jonathan Rich, MD
Associate Director, Mechanical Circulatory Support Program
Bluhm Cardiovascular Institute
Assistant Professor of Medicine

Stuart Rich, MD
Director, Pulmonary Vascular Disease Program
Bluhm Cardiovascular Institute
Northwestern Memorial Hospital
Professor of Medicine - Cardiology

Vera H. Rigolin, MD
Associate Medical Director, Women’s Cardiovascular Health Program
Medical Director, Echocardiography Laboratory
Bluhm Cardiovascular Institute
Professor of Medicine

Sanjiv Shah, MD
Director, Heart Failure with Preserved Ejection Fraction Program
Bluhm Cardiovascular Institute
Associate Professor of Medicine

Neil J. Stone, MD
Medical Director, Center for Vascular Disease
Northwestern Memorial Hospital
Bonow Professor of Medicine-Preventive Cardiology

James D. Thomas, MD
Duke University School of Medicine
Professor of Medicine

Esther Vorovich, MD
Cardiologist
Northwestern Memorial Hospital
Assistant Professor of Medicine

Jane Wilcox, MD
Cardiologist
Northwestern Memorial Hospital
Assistant Professor of Medicine
<table>
<thead>
<tr>
<th>Thursday, July 7, 2016</th>
<th>Friday, July 8, 2016</th>
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<tbody>
<tr>
<td><strong>1:00 PM</strong> Welcome &amp; Orientation</td>
<td><strong>8:00 AM</strong> Atrial Fibrillation: An Update on Anticoagulation</td>
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<tr>
<td>Clyde Yancy, MD, MSc</td>
<td>Daniel Fintel, MD</td>
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<tr>
<td><strong>Session I Prevention</strong></td>
<td><strong>8:20 AM</strong> Rate Control vs. Rhythm Control</td>
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<tr>
<td>Moderators: Clyde Yancy, MD, MSc</td>
<td>Bruce Lindsay, MD</td>
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<tr>
<td><strong>1:15 PM</strong> Hypertension: Now We Know What To Do - Or Do We?</td>
<td><strong>8:40 AM</strong> Ablation: Ready For All Patients With Atrial Fibrillation?</td>
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<td>George Bakris, MD</td>
<td>Bradley Knight, MD</td>
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<td><strong>1:35 PM</strong> What the Cardiologist Needs to Know About Stroke and Stroke Prevention</td>
<td><strong>9:00 AM</strong> Mini Keynote: The Future of Atrial Fibrillation</td>
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<td>Mark Alberts, MD</td>
<td>Bruce Lindsay, MD</td>
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<td><strong>1:55 PM</strong> It’s Not That Hard To Prevent ASCVD</td>
<td><strong>9:30 AM</strong> Case Presentations with MOC Questions and Panel Discussion</td>
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<td>Donald Lloyd-Jones, MD, ScM</td>
<td>Panel: Daniel Fintel, MD, Albert Lin, MD, Neil Stone, MD</td>
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<td><strong>2:15 PM</strong> Heart Failure: A Preventable Condition</td>
<td><strong>10:30 AM</strong> Break and Exhibits</td>
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<tr>
<td>Clyde Yancy, MD, MSc</td>
<td><strong>Session II Arrhythmias</strong></td>
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<td><strong>Session III Valvular Heart Disease</strong></td>
<td>Moderators: Bradley Knight, MD and Albert Lin, MD</td>
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<td>Moderators: Charles Davidson, MD and Patrick McCarthy, MD</td>
<td><strong>11:00 AM</strong> Aortic Valve Disease: State-of-the-Art</td>
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<td><strong>8:00 AM</strong> Aortic Valve Disease: State-of-the-Art</td>
<td>Robert Bonow, MD</td>
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<td>Robert Bonow, MD</td>
<td><strong>11:30 AM</strong> Mitral Valve Disease: State-of-the-Art</td>
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<td>James Thomas, MD</td>
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<td><strong>12:00 PM</strong> Functional MR: To Treat or Not to Treat?</td>
<td><strong>12:00 PM</strong> Working Lunch with Keynote Presentation-Introduction: Patrick McCarthy, MD</td>
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<tr>
<td>Mark Ricciardi, MD</td>
<td>TAVR: The History of a Game Changer and the Emergence of Team Care</td>
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<td><strong>12:30 PM</strong> Case Presentations with MOC Questions and Panel Discussion</td>
<td>Michael Mack, MD</td>
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<td>Panel: Robert Bonow, MD, Mark Ricciardi, MD, James Thomas, MD, James Flaherty, MD</td>
<td><strong>Question and Answer:</strong></td>
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<td>Dr. Michael Mack and Dr. Patrick McCarthy</td>
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<tr>
<td><strong>1:00 PM</strong> Working Lunch with Keynote Presentation-Introduction: Patrick McCarthy, MD</td>
<td><strong>2:30 PM</strong> Break and Exhibits</td>
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Session IV Athletes, Women and Pulmonary Arteries
Moderators: Benjamin Freed, MD and Michelle Montpetit, MD

3:00 PM Athletes and Heart Disease
R. Kannan Mutharasan, MD

3:20 PM Women and Heart Disease
Vera Rigolin, MD

3:40 PM Pulmonary Hypertension
Stuart Rich, MD

4:00 PM Case Presentations with MOC Questions and Panel Discussion
Panel: R. Kannan Mutharasan, MD, Jonathan Rich, MD, Stuart Rich, MD, Vera Rigolin, MD

4:30 PM Roundtables
- Risk Reduction- Patricia Vassallo, MD & Neil Stone, MD
- Hypertension- Keith Benzuly, MD & Clyde Yancy, MD, MSc
- Heart Failure- Allen Anderson, MD & Kambiz Ghaforian, MD
- Atrial Fibrillation- Bradley Knight, MD
- Valvular Heart Disease- Vera Rigolin, MD & James Flaherty, MD

5:30 PM Adjourn

5:30 PM - Networking Reception

6:30 PM Gallery at GreenRiver

Saturday, July 9, 2016

Session V LV Dysfunction and Heart Failure
Moderators: Duc Thinh Pham, MD and Esther Vorovich, MD

9:00 AM How Would You Treat the Patient with LVEF 0.30 and Symptomatic Heart Failure?
Jane Wilcox, MD

9:30 AM How Would You Treat the Patient with LVEF 0.50 and Heart Failure?
Sanjiv Shah, MD

10:00 AM Your Patient Has Advanced Heart Failure; Now What?
Medical Options- Allen Anderson, MD
Transplant Options- Duc Thinh Pham, MD

10:40 AM Mini Keynote: When Is An LVAD Alone Sufficient Therapy For Advanced Heart Failure?
Joseph Rodgers, MD

11:10 AM Case Presentations with MOC Questions and Panel Discussion
Panel: Allen Anderson, MD, Joseph Rodgers, MD, Sanjiv Shah, MD, Jane Wilcox, MD

11:55 AM Closing Remarks

12:00 PM Adjourn
### Registration Categories

**I. Full Conference Registration**
(July 7-9, 2016)
- Physician: $450
- Industry Professional: $450
- Physician of Northwestern Medicine: $350
- Nurse, Physician Trainees and Other HCPs: $300

**II. One-Day Conference Registration**
(Thursday, July 7, 2016)
- Physician: $250
- Industry Professional: $250
- Physician of Northwestern Medicine: $200
- Nurse, Physician Trainees and Other HCPs: $175

**III. One-Day Conference Registration**
(Friday, July 8, 2016)
- Physician: $250
- Industry Professional: $250
- Physician of Northwestern Medicine: $200
- Nurse, Physician Trainees and Other HCPs: $175

**IV. One-Day Conference Registration**
(Saturday, July 9, 2016)
- Physician: $250
- Industry Professional: $250
- Physician of Northwestern Medicine: $200
- Nurse, Physician Trainees and Other HCPs: $175

*Physician registration fee includes access to the American Board of Internal Medicine’s (ABIM) Maintenance of Certification (MOC) online module. Physicians can earn up to 10 MOC points valid towards the medical knowledge self-assessment requirements. All registration fees include: Continental breakfast, lunch, refreshment breaks, welcome reception, networking reception, and the course handouts.*

### How to Register

**ONLINE** - cme.northwestern.edu

OR mail with a check made payable to Northwestern University to:
Northwestern University
Office of Continuing Medical Education
240 E. Huron, Ste. 1-200
Chicago, IL 60611

For questions regarding registration you can email us at cme@northwestern.edu or call us at 312-503-8533

Registrations will not be accepted by telephone.

Please type or print

- MD
- RN
- PA
- Other _____

Last Name: ____________________________
First Name: ____________________________

Address: __________________________________________________________________________

City: __________________ State: __________ Zip Code: __________

Daytime Phone: __________________ Fax: __________________

E-mail: ____________________________________________

(Your registration confirmation will be emailed)

Specialty: ________________________________

Please indicate any special needs: _______________________________________________________

Please indicate any dietary needs: _______________________________________________________

Thursday: Welcome Reception at the Gallery at GreenRiver
- Yes_______ No_______

Friday: Networking Reception at the Gallery at GreenRiver
- Yes_______ No_______
The 5th Annual Chicago Cardiovascular Update Meeting

Chicago, Illinois