ECHOCARDIOGRAPHY in the Nation’s Capital
Focus for the Physician

April 16 – 18, 2012
Hyatt Regency Crystal City
Arlington, VA

Course Directors:
Fletcher A. Miller, Jr., M.D., F.A.C.C., F.A.S.E.
Sunil V. Mankad, M.D., F.A.C.C., F.A.S.E., F.C.C.P.

Register Online Now!
http://www.mayo.edu/cme/cardiovascular-diseases-2012R581
COURSE DESCRIPTION

Echocardiography in the Nation’s Capital: Focus for the Physician is designed to provide a practical review of the current uses and limitations of two-dimensional echocardiography, Doppler, and color flow imaging in the assessment of adult myocardial, ischemic, pericardial and valvular disease. Traditional topics in the field of echocardiography including assessment of systolic and diastolic function, quantitative Doppler, and stress echocardiography will be presented. In addition, newer techniques including 3D Echo and Doppler and 2D strain imaging will be presented.

The lectures will be illustrated with clinical case examples in echocardiography including an audience response system. Participants will have an opportunity to attend topic specific breakout sessions allowing participants the opportunity to focus on topics of interest and need. Participants will receive an electronic syllabus for future reference.

COURSE LEARNING OBJECTIVES

Upon conclusion of this program, participants should be able to:
• correlate the pathology and etiology of valvular heart disease;
• apply Doppler principles and hemodynamics to the assessment of valvular heart disease and the systematic assessment of prosthetic valves;
• develop an integrated approach to the assessment of valvular stenosis and valvular regurgitation;
• demonstrate current two-dimensional and Doppler methods to assess left ventricular systolic function;
• utilize the proper technique for the assessment and clinical application of diastolic function of the heart;
• identify diastolic filling patterns found in various cardiac disorders;
• recognize pathology and echocardiographic findings of myocardial infarction and mechanical complications;
• discuss clinical applications of stress echocardiography;
• identify the two-dimensional and Doppler findings for pericardial disease; and
• recognize the potential of new technology in the field of echocardiography, including 3D imaging and strain imaging.

Attendance at this Mayo course does not indicate nor guarantee competence or proficiency in the performance of any procedures which may be discussed or taught in this course.

INTENDED AUDIENCE

This course is designed for physicians who perform and interpret echo exams and wish to enhance their knowledge of the echocardiographic assessment of adult cardiac disease. Participants with a basic knowledge of echocardiographic techniques and applications will benefit most from this program.

CREDIT

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of College of Medicine, Mayo Clinic. College of Medicine, Mayo Clinic, is accredited by the ACCME to provide continuing medical education for physicians.

College of Medicine, Mayo Clinic, designates this live activity for a maximum of 20.75 PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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

DATE AND LOCATION

Echocardiography in the Nation’s Capital: Focus for the Physician will be held April 16 – 18, 2012. The course will be held at the Hyatt Regency Crystal City, 2799 Jefferson Davis Highway, Arlington, VA.
REGISTRATION
To register online, visit http://www.mayo.edu/cme/cardiovascular-diseases-2012R581. The registration fee includes tuition, comprehensive electronic course syllabus, continental breakfasts, break refreshments, and lunches. Although it is not Mayo School of Continuous Professional Development (CPD) policy to limit the number of registrants for a course, conference room facilities may necessitate closing of enrollment; therefore, early registration is advised. A letter of confirmation will be sent upon receipt of payment and completed registration form. Please present the confirmation letter when checking in at the meeting registration desk.

For additional information, contact:
Mayo Cardiovascular Continuing Education
200 First Street SW – Gonda 6-207
Rochester, MN 55905
E-mail: cvcme@mayo.edu
Phone: 800-283-6296 or 507-266-0677
Fax: 507-538-0146

CANCELLATION POLICY
If you cancel your participation in this course, your registration fee, less a $75 administrative fee, will be refunded when written notification is received by Mayo Cardiovascular CME before April 5, 2012 (cvcme@mayo.edu or fax#: 507-538-0146). No refunds will be made on or after April 5, 2012. Canceled registrations are non-transferable.

Mayo School of CPD reserves the right to cancel or postpone any course due to unforeseen circumstances. In the unlikely event Mayo School of CPD must cancel or postpone this course, Mayo School of CPD will refund the registration fee, but is not responsible for any related costs, charges, or expenses to participants, including fees assessed by airline/travel/ lodging agencies.

TRAVEL
Reagan National Airport (DCA): Courtesy Hotel Shuttle to and from the airport 5:00 a.m. – 12:00 a.m.
Dulles Airport (IAD): Taxi - $40 to $45
Baltimore Washington International Airport (BWI): Taxi - $65 to $70

Metro Subway (http://www.wmata.com) Crystal City Station: 6:00 a.m. – 12:00 a.m., 10 minute walk, Blue and Yellow lines. Courtesy Hotel Shuttle to and from Crystal City Metro Station 6:00 a.m. – 12:00 a.m.

Travel arrangements are the sole responsibility of the individual registrant.

LODGING ACCOMMODATIONS
Guest rooms have been reserved for attendees and their guests with special course rates at the Hyatt Regency Crystal City. In order to receive the special rate of $209 per night, reservations must be made before the room block is filled or before the expiration date of March 24, 2012, whichever comes first. Reservations will be taken following this date based on space and rate availability. Please identify yourself as a participant of the Mayo Clinic Echo in the Nation’s Capital conference when making your reservation.

Hyatt Regency Crystal City
2799 Jefferson Davis Highway
Arlington, VA 22202
Rate: $209 single/double
Online Reservations: https://resweb.passkey.com/go/mayo2012
Phone: 888-421-1442 or 703-418-1234

Lodging arrangements are the sole responsibility of the individual registrant.

Mayo School of CPD is not responsible for expenses incurred by an individual who is not confirmed and for whom space is not available at the meeting. Costs incurred by the registrant such as airline or hotel fees or penalties are the responsibility of the registrant.

PARKING
Hyatt Regency Crystal City offers valet parking for a rate of $25 per day, with unlimited in-and-out privileges. Clearance is 6’ 8” in the underground parking garage. Hourly parking is also available with rates ranging from $10 to $25 depending on the length of stay.
FACULTY

Course Directors

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Washington Hospital Center,
Washington, DC

Mayo Faculty

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Mayo Clinic, Rochester, Minnesota
MONDAY, APRIL 16, 2012

7:15 a.m.  Registration – Continental Breakfast

8:00 a.m.  Welcome and Course Overview
Course Directors

8:10 a.m.  Orientation to the Audience Response System

Assessment of Cardiac Function
Moderator: Fletcher A. Miller, Jr., M.D.

8:15 a.m.  Echocardiography for Assessment of Left Ventricular Systolic Function; 2-D and 3-D Echo and Doppler
David A. Foley, M.D.

8:40 a.m.  Echocardiographic Assessment of Diastolic Function: Basic Concepts and Practical Points
Fletcher A. Miller, Jr., M.D.

9:05 a.m.  Echocardiographic Assessment of Right Heart Pressures and Right Ventricular Function
Sabrina D. Phillips, M.D.

9:30 a.m.  Strain Imaging for Assessment of Left and Right Ventricular Function
Hector R. Villarraga, M.D.

10:00 a.m.  Refreshment Break

3-D Echo and Myocardial Disease
Moderator: Sunil V. Mankad, M.D.

10:20 a.m.  3-D Echocardiography: Practical Applications
Sunil V. Mankad, M.D.

10:45 a.m.  2-D and Doppler Assessment for Patients with Dilated Cardiomyopathy, Non-Compaction of the Myocardium, and Cardiac Transplantation
Steven Goldstein, M.D.

11:10 a.m.  Echocardiography for Patients with Hypertrophic Cardiomyopathy
Fletcher A. Miller, Jr., M.D.

11:35 a.m.  Echocardiographic Assessment for Patients with Cardiac Amyloid, Eosinophilic Endomyocardial Disease, and Primary Restrictive Cardiomyopathy
Sabrina D. Phillips, M.D.

12:15 p.m.  Lunch

Coronary Artery Disease and Contrast Echo
Moderator: Patricia A. Pellikka, M.D.

1:30 p.m.  Echocardiography Cases: Mechanical Complications of Myocardial Infarction
Sunil V. Mankad, M.D.
1:55 p.m.  Contrast Echocardiography for Endocardial Border Definition and Myocardial Perfusion: How to Optimize Results  
David A. Foley, M.D.

2:20 p.m.  Stress Echo: Illustrative Cases  
Patricia A. Pellikka, M.D.

2:45 p.m.  Question and Answer Session

2:50 p.m.  Refreshment Break

Atrial Fibrillation and Interventional Echocardiography
Moderator: Sunil V. Mankad, M.D.

3:10 p.m.  Echocardiography in Atrial Fibrillation/Flutter  
Rowlens M. Melduni, M.D.

3:35 p.m.  Role of Echo in the Interventional Lab  
Sorin V. Pislaru, M.D., Ph.D.

4:00 p.m.  Question and Answer Session

4:15 p.m.  Adjourn

TUESDAY, APRIL 17, 2012

7:30 a.m.  Continental Breakfast

Valvular Heart Disease I
Moderator: Patricia A. Pellikka, M.D.

8:00 a.m.  Echocardiography for Aortic Stenosis: Comprehensive 2-D and Doppler Assessment  
Patricia A. Pellikka, M.D.

8:25 a.m.  Echocardiography for Mitral Stenosis: Comprehensive 2-D and Doppler Assessment  
Steven Goldstein, M.D.

8:50 a.m.  Echocardiography for Mitral Regurgitation Including Assessment with PISA  
Hector R. Villarraga, M.D.

9:20 a.m.  Echocardiography for Aortic Regurgitation Including Assessment with Continuity Equation  
Peter C. Spittell, M.D.

9:50 a.m.  Question and Answer Session

10:10 a.m.  Refreshment Break

Valvular Heart Disease II
Moderator: Fletcher A. Miller, Jr., M.D.

10:30 a.m.  Assessment of Tricuspid Valve Regurgitation  
Sorin V. Pislaru, M.D., Ph.D.
10:55 a.m.  **Echocardiography for Prosthetic Valves**  
*Fletcher A. Miller, Jr., M.D.*

11:25 a.m.  **Echocardiographic Assessment of a Spectrum of Congenital and Acquired Diseases of the Tricuspid Valve**  
*Sabrina D. Phillips, M.D.*

12:00 p.m.  **Lunch**

**Special Topics and Cases**  
**Moderator:** *Patricia A. Pellikka, M.D.*

1:00 p.m.  **Pathology and Echo Features of Infective Endocarditis**  
*Joseph J. Maleszewski, M.D. and Rowlens M. Melduni, M.D.*

1:35 p.m.  **Imaging Artifacts**  
*David A. Foley, M.D.*

2:00 p.m.  **Heart Failure, Transplant, and Left Ventricular Assist Devices: Critical Role of Echocardiography**  
*Barry L. Karon, M.D.*

2:25 p.m.  **Question and Answer Session**

2:40 p.m.  **Refreshment Break**

3:00 p.m.  **Breakout Sessions** (Sign up for 2 sessions)

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<td><em>Drs. Foley and Melduni</em></td>
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4:30 p.m.  **Adjourn**

**WEDNESDAY, APRIL 18, 2012**

7:30 a.m.  **Continental Breakfast**

Diseases of the Aorta and Echocardiography in Cardiac Surgery  
**Moderator:** *Sunil V. Mankad, M.D.*

8:00 a.m.  **Pathology of the Thoracic Aorta**  
*William D. Edwards, M.D.*

8:25 a.m.  **Echocardiographic Assessment of Aortic Dissection, Intramural Hematoma, Penetrating Aortic Ulcer and Screening for AAA**  
*Peter C. Spittell, M.D.*
8:50 a.m.  Role of Cardiac Surgery for Patients with Hypertrophic Cardiomyopathy  
Joseph A. Dearani, M.D.

9:10 a.m.  Intraoperative Echocardiography: What to Look For  
Rowlens M. Melduni, M.D.

9:35 a.m.  Cardiac Surgery: Mitral and Tricuspid Valve Repair  
Joseph A. Dearani, M.D.

10:00 a.m.  Question and Answer Session

10:10 a.m.  Refreshment Break

Pericardial Disease and Masses  
Moderator: Fletcher A. Miller, Jr., M.D.

10:30 a.m.  Echocardiography for Patients with Cardiac Constriction  
Barry L. Karon, M.D.

11:00 a.m.  Cardiac Masses: Pathology and Echo Correlation  
William D. Edwards, M.D. and Fletcher A. Miller, Jr., M.D.

12:00 p.m.  Lunch

Echocardiography in Congenital Heart Disease  
Moderator: Frank Cetta, M.D.

1:00 p.m.  Introduction: Adults with Congenital Heart Disease  
Frank Cetta, M.D.

1:15 p.m.  Current Management of Coarctation of the Aorta  
Frank Cetta, M.D.

1:45 p.m.  Tetralogy of Fallot: Update on Timing of PVR  
Sabrina D. Phillips, M.D.

2:15 p.m.  Update on Percutaneous Valve Therapy in CHD  
Frank Cetta, M.D.

2:45 p.m.  Refreshment Break

3:00 p.m.  Interesting Cases: What Would You Do?  
Drs. Cetta and Phillips

3:15 p.m.  Interesting Cases: What We Did  
Joseph A. Dearani, M.D.

3:30 p.m.  Pregnancy in CHD  
Sabrina D. Phillips, M.D.

4:00 p.m.  Congenital Coronary Anomalies  
Frank Cetta, M.D.

4:15 p.m.  Issues with Congenitally-Corrected TGA  
Sabrina D. Phillips, M.D.

4:30 p.m.  Surgery of CHD: What Do I Need from Your Echo?  
Joseph A. Dearani, M.D.

5:00 p.m.  Post Test and Adjourn
# Echocardiography in the Nation’s Capital: Focus for the Physician

**April 16 – 18, 2012 • Hyatt Regency Crystal City • Arlington, VA**

**Mail or FAX form with payment to:**

Mayo Cardiovascular Continuing Education  
200 First Street SW – Gonda 6-207  
Rochester, MN 55905  
Phone 800-283-6296 or 507-266-0677  
E-mail cvcme@mayo.edu  
Web site www.mayo.edu/cme

**Online Registration:** [http://www.mayo.edu/cme/cardiovascular-diseases-2012R581](http://www.mayo.edu/cme/cardiovascular-diseases-2012R581)

## Contact Information

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If you have special assistance needs or dietary restrictions, describe here:

## Registration

**Conference Fee**  
Physicians/Scientists $675 USD  
Residents, Physician Assistants and Nurse Practitioners $575 USD

| **Breakout Sessions:** Tuesday, April 17 (Select 1 session from each group) |
| --- | --- |
| 3:00 – 3:40 p.m. | 3:45 – 4:30 p.m. |
| □ Diastole | □ Diastole |
| □ Valvular Heart Disease | □ Intraoperative Echo Cases |
| □ Interesting Cases | □ Interesting Cases |

**Payment Information**  
Check is enclosed in the amount shown at right – make checks payable to Mayo Clinic  
**Payment Total**

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Name of Cardholder – as it appears on the card  
Signature of Cardholder – required

*US funds only. Wire transfers will be assessed a $25 USD fee.*
Mayo School of Continuous Professional Development

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