

### ECHO IN THE CITY OF RIVERS:

### Practical Review of Myocardial and Ischemic Heart Disease

**September 19-20, 2015**Wyndham Grand Pittsburgh
Pittsburgh, PA



#### **Course Directors:**

Barry L. Karon, M.D.

Merri L. Bremer, Ed.D., R.N., R.D.C.S.

Division of Cardiovascular Diseases

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ce.mayo.edu/echo3rivers

#### **Course Description**

The course is designed to provide the sonographer with a practical review of the current uses and limitations of two-dimensional echocardiography, Doppler and color flow imaging in the assessment of ischemic and myocardial disease. Recent advances in the field of echocardiography including the assessment of systolic and diastolic function, Doppler hemodynamics, stress echocardiography, ischemic and cardiomyopathic heart disease will be presented. The lectures will be illustrated with digital image presentations of clinical cases in echocardiography and time has been allowed for participants to ask questions as well as interact closely with the course faculty.

This succinct weekend course is designed so as to not unduly interfere with work schedules and to present the first half of a comprehensive adult echocardiography curriculum. The second half of the curriculum will be presented in Pittsburgh the following year and will focus on valvular disease anatomy and quantitative assessment, prosthetic valve assessment and dysfunction, endocarditis and the remaining aspects of adult echocardiography.

All of this educational activity may be applied toward the CME requirement for IAC – Echo accreditation.

#### **Intended Audience**

The course is designed for cardiac sonographers, echo students, and physicians who 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.

#### **Course Learning Objectives**

Upon conclusion of this program, participants should be able to:

- Discuss standard echocardiographic methods used to assess ischemic and myocardial disease
- Develop an integrated approach to echocardiographic assessment of systolic and diastolic ventricular function
- Discuss emerging applications of echocardiography

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.

#### Credit

Mayo Clinic College of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Mayo Clinic College of Medicine designates this live activity for a maximum of 14.75  $AMA\ PRA\ Category\ 1\ Credits^{TM}$ . 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**

The program will be held **September 19-20, 2015** at the Wyndam Grand Pittsburgh. Pittsburgh is known as both "the Steel City" for its more than 300 steel-related businesses, and the City of Bridges" for its 446 bridges. Pittsburgh offers many different activities from the arts, sports and history.

#### **Lodging Accommodations**

Guest rooms have been reserved for attendees and their guests with special course rates at Wyndham Grand Pittsburgh. In order to receive the special rate, reservations must be made before the room block is filled or before the expiration date of **August 26, 2015**, 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 Seminar conference when making your reservation.

Wyndham Grand Pittsburgh Downtown 600 Commonwealth Place Pittsburgh, PA 15222 \$159 single/double For Reservations Call: 1-800-996-3426

Lodging arrangements are the sole responsibility of the individual registrant.

Mayo Clinic 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. Travel information is available on the meeting web site.

#### **Parking**

Parking is available in hotel and city visitor ramps. The cost for parking is not included in the registration fee.

#### **Faculty**

#### **Course Directors**

Merri L. Bremer, Ed.D., R.N., R.D.C.S., F.A.S.E. Barry L. Karon, M.D., F.A.C.C., F.A.S.E.

#### Mayo Faculty

Joshua G. Fosland, B.S., R.D.C.S. Rekha Mankad, M.D., F.A.C.C. Sunil V. Mankad, M.D., F.A.C.C., F.A.S.E. Sally J. Miller, B.S., R.T.(R), R.D.C.S., F.A.S.E. Benjamin F. Wong, M.D.

#### **Guest Faculty**

Beverly Gorman, R.D.C.S.
Director of Accreditation
Echocardiography - Intersocietal
Accreditation Commission

#### Faculty Disclosure

As a provider accredited by ACCME, Mayo Clinic College of Medicine (Mayo School of Continuous Professional Development) must ensure balance, independence, objectivity and scientific rigor in its educational activities. Course director(s), planning committee, faculty, and all others who are in a position to control the content of this educational activity are required to disclose all relevant financial relationships with any commercial interest related to the subject matter of the educational activity. Safeguards against commercial bias have been put in place. Faculty also will disclose any off-label and/or investigational use of pharmaceuticals or instruments discussed in their presentation. Disclosure of this information will be published in course materials so those participants in the activity may formulate their own judgments regarding the presentation.

#### Registration



Register online: ce.mayo.edu/echo3rivers

Registration Fee: Course Registration \$425

#### **Special Registration Offer**

Reduced Registration Fee for 2015 & 2016 Programs when registering for both programs at the same time.

#### Echo in the City of Rivers:

Practical Review of Myocardial and Ischemic Disease | September 19-20, 2015

Practical Review of Valvular Heart Disease 2016 | September 24-25, 2016

Combined Registration Fee for 2015 and 2016 programs: \$680

Savings of \$170 for both programs and 30.25 *AMA PRA Category 1 Credits*™ available. No refund after **Dec. 31, 2015** for the 2016 program. Cancellation fee of \$75 applied.

Registration is available online. The system will step you through the profile and login process. An email address is required upon registration. Please note your username and password for future use to access other course materials. A letter of confirmation will be forwarded to this address upon receipt of payment and submitted registration. Present this letter of confirmation when checking in at the meeting registration desk.

The registration fee includes tuition, 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. Enrollment for this program is limited.

For additional information, contact: Cardiovascular Continuing Education 200 First Street SW - Gonda 6 Rochester, MN 55905 E-mail: cvcme@mayo.edu Phone: 800-283-6296

Website: ce.mayo.edu/cardiology

#### **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 **September 4, 2015** (cvcme@mayo. edu or fax#: 507-538-0146). No refunds will be made on or after September 4, 2015. Canceled registrations are non-transferable. Mayo Cardiovascular CME reserves the right to cancel or postpone any course due to unforeseen circumstances. In the unlikely event Mayo Cardiovascular CME must cancel or postpone this course, Mayo Cardiovascular CME 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.

#### **National Physician Payment Transparency Program**

Mayo Clinic College of Medicine complies with the requirements of the National Physician Payment Transparency Program OPEN PAYMENTS (Physician Payments Sunshine Act).

#### **Program Schedule**

#### FRIDAY | September 18, 2015

7:00 p.m. Registration and

Hands-on Scanning Session

Pre-registration requested at the time

of registration.

9:00 p.m. Adjourn

#### SATURDAY | September 19, 2015

7:00 a.m. Registration

Continental Breakfast

Welcome, Course Overview 7:30 a.m.

Course Directors

#### Focus on Ventricular Function

Doppler Hemodynamic 7:45 a.m.

Assessment: Principles, Formulae,

and Calculations Barry L. Karon, M.D.

8:15 a.m. Assessment of Left Ventricular

Systolic Function: 2-D, 3-D, and

Doppler Parameters Benjamin F. Wong, M.D.

Myocardial Strain Imaging 8:45 a.m.

Rekha Mankad, M.D.

Cases in Systolic Function/Strain 9:15 a.m.

**Imaging** 

Benjamin F. Wong, M.D. Rekha Mankad, M.D.

9:45 a.m. Questions & Answers

Drs. Karon, Wong & Mankad

9:55 a.m. Refreshment Break

10:15 a.m. Echocardiographic Assessment of Right Ventricular Systolic Function:

2-D, M-Mode, and Doppler

**Parameters** 

Rekha Mankad, M.D.

10:45 a.m. Echocardiographic Assessment of Diastolic Function

Merri L. Bremer, Ed.D., R.N., R.D.C.S.

11:15 a.m. Cases in Diastolic Function/Heart Failure

Barry L. Karon, M.D.

11:45 a.m. Questions & Answers

Drs. Mankad, Bremer & Karon

12:00 p.m. Lunch

#### Focus on Coronary Artery Disease

1:00 p.m. Coronary Artery Anatomy and

Echocardiographic Assessment of

Regional Wall Motion

Sally J. Miller, B.S., R.T.(R), R.D.C.S.

Echo for Acute Myocardial 1:25 p.m.

Infarction and Mechanical

Complications

Rekha Mankad, M.D.

1:55 p.m. Case Presentation: Apical

Ballooning

Merri L. Bremer, Ed.D., R.N., R.D.C.S.

Echo Contrast Tips and Tricks 2:10 p.m.

Joshua G. Fosland, B.S., R.D.C.S.

2:40 p.m. Q & A Faculty

2:55 p.m. Refreshment Break

3:15 p.m. **Ergonomics for Sonographers** 

Merri L. Bremer, Ed.D., R.N., R.D.C.S.

Stress Echo Cases and Tips 3:45 p.m.

Benjamin F. Wong, M.D.

Joshua G. Fosland, B.S., R.D.C.S.

4:30 p.m. Adjourn

#### SUNDAY | September 20, 2015

7:00 a.m. Continental Breakfast

7: 30 a.m. Tips for Echo Lab Accreditation

Beverly Gorman, R.D.C.S.

#### Focus on Myocardial Disease

8:00 a.m. Restrictive Cardiomyopathy Benjamin F. Wong, M.D.

8:30 a.m. Hypertrophic Cardiomyopathy

Barry L. Karon, M.D.

9:00 a.m. Dilated Cardiomyopathy and

Cardiac Transplant

Sally J. Miller, B.S., R.T.(R), R.D.C.S.

Questions & Answers 9:30 a.m. Drs. Wong, Karon & Ms. Miller

9:40 a.m. Refreshment Break

10:00 a.m. Role of Echocardiography in Ventricular Assist Devices

Sunil V. Mankad, M.D.

10:25 a.m. Potpourri of Echocardiography

in Systematic Disease

Joshua G. Fosland, B.S., R.D.C.S.

10:50 a.m. Echocardiography in Diseases

of the Aorta

Sunil V. Mankad, M.D.

11:15 a.m. Ouestions & Answers Drs. Mankad, Mankad & Mr. Fosland

11:30 a.m. Working Lunch

12:00 p.m. Echocardiographic Assessment of

Pericardial Disease

Merri L. Bremer, Ed.D., R.N., R.D.C.S.

12:30 p.m. Cardiac Masses: and Echo Pathology Correlation

Barry L. Karon, M.D.

Illustrative and Interesting Cases 1:00 p.m.

All Faculty

2:00 p.m. Adjourn

# MAYO CLINIC

Rochester, MN 55905 200 First Street SW

DIVISION OF CARDIOVASCULAR DISEASES

# ECHO IN THE CITY OF RIVERS:

# **Practical Review**

# of Myocardial and Ischemic Heart

# Disease

# September 19-20, 2015

Wyndham Grand Pittsburgh • Pittsburgh, PA

## Course Highlights

- emphasis on pitfalls and common Doppler hemodynamics with
- Practical tips for cardiac imaging
  - Reducing injury with ergonomic
- Wall motion assessment and complications of myocardial infarction
- Echo in dilated cardiomyopathy, transplant, and LVAD
- Hypertrophic, restrictive, and infiltrative cardiomyopathies

## Session

Friday, September 18, 2015

7:00 - 9:00 p.m.

Pre-registration egistration. Combined registration fee of \$680 for 2015/2016 Echo in the City of Rivers.

#### NON-PROFIT ORG. U.S. POSTAGE MAYO CLINIC PAID

# **Evening Scanning**

Sign-up for 2015 and 2016 programs concurrently for a complete regional program at a reduced registration.

Special Registration Offer:

required at the time of

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