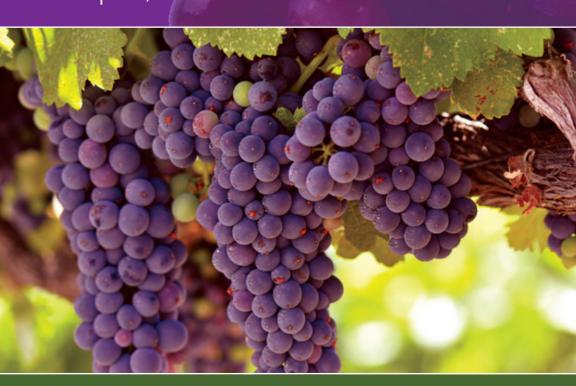


25th Annual

Cases in Echocardiography, Cardiac CT, and MRI

October 21-24, 2015

The Meritage Resort
Napa, CA



Program Directors:

Heidi M. Connolly, M.D., F.A.C.C. Fletcher A. Miller, Jr., M.D., F.A.C.C., F.A.S.E. Rick A. Nishimura, M.D., F.A.C.C.

REGISTER ONLINE NOW! http://www.mayo.edu/cme/casesinecho2015

General Information

Course Description

This advanced course is designed to provide the clinician and advanced sonographer with an update on transthoracic, stress, and transesophageal echocardiography as well as cardiac CT and MRI. It is not a "how-to" course, but instead will concentrate on the application of these modalities to clinical decision making.

The program consists primarily of clinical cases which illustrate the problems cardiovascular specialists commonly encounter. Multiple choice questions addressing the clinical utility and limitations of echocardiography follow each case. In addition, faculty presents "rapid fire" and "unknown" cases. The audience is also encouraged to bring unknown cases which will be shown during the sessions.

Special breakout sessions are devoted to the interpretation of Doppler hemodynamics, diastolic function, stress echocardiography, congenital heart disease, interventional and perioperative echocardiography.

This course is designed to encourage maximum audience participation and interaction with the faculty.

Course Learning Objectives

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

- Optimize selection of imaging modalities to aid in clinical decision making for evaluation and management of patients with valvular heart disease;
- Identify normal and abnormal features of patients with prosthetic valves;
- Identify the pitfalls of interpretation with exercise and dobutamine stress echocardiography;
- Apply Doppler hemodynamics into clinical decision-making in patients with heart failure symptoms with both normal and abnormal systolic function;
- Describe a systematic approach to echocardiography for patients with complex congenital heart disease;
- Recite the utility of echocardiography in patients with acute ischemic syndromes and other acute illnesses requiring admission to the intensive care unit; and
- Identify common indications and potential pitfalls for intraoperative transesophageal 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.

Intended Audience

This course is intended for physicians and sonographers with an advanced background in echocardiography.

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 24.5 *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.

Grants and Exhibits

At the time of this printing, a complete listing of commercial supporters (financial or in-kind) was not available. Appropriate acknowledgment will be given to all supporters at the time of the meeting.

Exhibits will be available for viewing at all scheduled breaks.

Date and Location

All sessions will be held at The Meritage Resort, 875 Bordeaux Way, Napa, CA 94558. The general session will be in the Carneros Ballroom. Exhibitors, breakfast, and refreshment breaks will be in pre-function area. Meeting site telephone: 707-251-1900 and fax: 707-254-8274.

Registration

To register online, visit http://www.mayo.edu/cme/casesinecho2015. The registration fee includes tuition, comprehensive course syllabus, continental breakfasts, break refreshments, lunch, and welcome reception. Although it is not Mayo Clinic Division of Cardiovascular Diseases 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: Cardiovascular Continuing Education 200 1st Street SW/GO6-138 Rochester, MN 55905

Website: http://www.mayo.edu/cme/

casesinecho2015

E-mail: cvcme@mayo.edu

Phone: 800-283-6296 or 507-266-6703

Fax: 507-266-7403

Travel/Transportation

Airlines

- San Francisco International Airport
 Approximately 55 miles
- Oakland International Airport
 Approximately 47 miles
- Sacramento International Airport

- Approximately 60 miles

Travel arrangements are the sole responsibility of the individual registrant.

Lodging Accommodations

Located at the southern tip of the Napa Valley, near where Napa and Sonoma meet, The Meritage Resort offers an experience like no other for wine enthusiasts, business travelers, and special events. With the world's only spa in a wine cave, the region's only private wedding chapel, and the most expansive meeting space in the Napa Valley, The Meritage Resort brings together the perfect blend of services and facilities for an unforgettable stay in one of the world's most beautiful destinations.

To secure your room at The Meritage Resort, please call 866-370-6272 or 707-251-1900 and state that you will be attending the Mayo Clinic program. The room rate is \$229 single/double a night. A limited number of rooms are held Saturday, October 24 on departure. Once those are sold out, the rate will be \$319. When reservations are made, The Meritage will require a deposit equal to the room rate and tax for the first night. Individual attendees will be charged for one night's room and tax if they cancel within 7 days of arrival; cancellations made prior to 7 days will not be charged.

On-line reservations can be made at: https://aws.passkey.com/event/13840072/ owner/9669411/home

The hotel room block is scheduled to be held until Friday, September 25, 2015, but has been sold out before this date in the past. Therefore, we advise you to register for the program and reserve your lodging as soon as possible. All hotel guests will be assessed a daily Resort Services Fee of \$20.00 per night, per room. This resort fee includes: welcome bottle of wine, bottled water, local and 800 number toll free calls, daily newspaper in the lobby, resort business center and fax service, in-room high spend internet, shuttle to Eagle Vines and Chardonnay Golf courses, and evening downtown Napa shuttle.

When you make your reservation, please be sure to ask about any additional fees, early departure fees, or cancellation penalties.

Check-in Time: 4:00 p.m. Check-out Time: 11:00 a.m.

Lodging arrangements are the sole responsibility of the individual registrant.

Mayo Clinic Division of Cardiovascular Diseases 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

Complimentary parking is available at the hotel.

General Information

Social Program

Welcome Reception Wednesday, October 21, 2015

Attendees and their guest(s) are cordially invited to join the course faculty for the Welcome Reception on Wednesday, October 21, 2015, from 5:00-6:00 p.m. on the Vineyard Terrace. This casual reception welcomes you to Napa Valley, officially opens the course, and offers you the perfect opportunity to make connections with existing and new colleagues.

Recreation/ Leisure Activities

For a list of local attractions, please visit: http://www.napavalley.org/ or http://www.themeritageresort.com/localattractions.php

Faculty

Course Directors

Heidi M. Connolly, M.D., FACC Professor of Medicine, Mayo Clinic; Consultant, Division of Cardiovascular Diseases; Director, Mayo Clinic Adult Congenital Heart Center; Chair for Education, Division of Cardiovascular Diseases, Mayo Clinic, Rochester, MN

Fletcher A. Miller, Jr., M.D., FACC, FASE Professor of Medicine, Mayo Clinic; Consultant, Division of Cardiovascular Diseases and Internal Medicine; Past Director, Cardiovascular Ultrasound Imaging and Hemodynamic Laboratory, Mayo Clinic, Rochester, MN

Rick A. Nishimura, M.D., MACC, MACP Judd and Mary Morris Leighton Professor of Cardiovascular Diseases; Professor of Medicine, Mayo Clinic; Consultant, Division of Cardiovascular Diseases and Internal Medicine; Director, Valvular Heart Disease Clinic, Mayo Clinic, Rochester, MN

Mayo Faculty

Martin D. Abel, M.D.
Professor of Anesthesiology, Mayo Clinic;
Consultant, Department of Anesthesiology;
Division of Cardiovascular and Thoracic
Anesthesiology, Mayo Clinic, Rochester, MN

Nandan S. Anavekar, MB, B.Ch. Assistant Professor of Medicine, Mayo Clinic; Consultant, Division of Cardiovascular Diseases and Internal Medicine, Mayo Clinic, Rochester, MN

Charles J. Bruce, MBChB, FCP (SA), FACC, FASE Professor of Medicine, Mayo Clinic; Director, Mayo Clinic Structural Heart Disease Center of Excellence; Consultant, Division of Cardiovascular Diseases, Mayo Clinic, Rochester, MN

Grace Lin, M.D., FACC, FASE Assistant Professor of Medicine, Mayo Clinic; Director, Heart Failure Clinic; Consultant, Division of Cardiovascular Diseases, Mayo Clinic, Rochester, MN

Guy S. Reeder, M.D., F.A.C.C. Professor of Medicine, Mayo Clinic; Consultant, Division of Cardiovascular Diseases and Internal Medicine, Mayo Clinic, Rochester, MN

Hartzell V. Schaff, M.D., FACC, FAHA
Stuart W. Harrington Professor of Surgery;
Consultant, Thoracic and Cardiovascular
Surgery and Past Chair, Division of
Cardiovascular Surgery, Mayo Clinic,
Rochester, MN

Guest Faculty

William F. Armstrong, M.D., FACC, FASE Professor of Internal Medicine; Director, Echocardiography Laboratory; Associate Clinical Chief, Division of Cardiology; University of Michigan Health System, Ann Arbor, MI

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.

Program Schedule

Tuesday, October 20, 2015

6:00-

Registration

7:00 p.m. Carneros Prefunction

Wednesday, October 21, 2015

7:30 a.m.

Registration/

Continental Breakfast
Carneros Prefunction

8:00 a.m.

Welcome and Course

Overview

Drs. Miller, Nishimura, and

Connolly

8:15 a.m.

Clinical Decision Making: Cases in Valvular Heart Disease and Endocarditis

Cases 1-7

Drs. Nishimura, Connolly, Miller

and Bruce

10:15 a.m.

Refreshment Break

10:45 a.m.

Lecture:

Perioperative Assessment of High-Risk Cardiac Patients

Dr. Abel

11:15 a.m.

Clinical Decision Making: Cases in Valvular Heart

Disease, Prosthetic Valve and Endocarditis

Cases 8-10

Drs. Bruce, Schaff, and Abel

Pre-recorded Lecture: Mechanical Versus Tissue Valve Prosthesis – Making the Right Choice for Your Patients (link sent

out in advance)

Dr. Schaff

(No CME Offered)

Pre-recorded Lecture: Cardiac MRI and CT: Basic Principles for Non-

Radiologists. When Should I Choose Which Test?* (link sent out in advance)

Dr. Anavekar (No CME Offered)

12:15 p.m. Lunc

Oakville and Rutherford

Terrace

Wednesday, October 21, 2015 - continued

1:15 p.m.

Cases in Stress

Echocardiography and MRI:

Read With the Experts

Cases 11-16

Drs. Armstrong, Bruce, and

Anavekar

2:45 p.m.

Refreshment Break

3:15 p.m.

Cases in Aortic Disease

Cases 17-20

Drs. Connolly, Anavekar, Bruce,

Abel, and Schaff

4:15 p.m.

Rapid Fire Case Presentations – Test Your Skills

All Faculty

5:00-

Welcome Reception

6:00 p.m. Vineyard Terrace

All Faculty, Participants, and Exhibitors (Guests Invited)

Thursday, October 22, 2015

7:30 a.m.

Continental Breakfast

8:00 a.m.

Clinical Decision Making: Cases from the ICU

Desce Of OC

Cases 21-26

Drs. Reeder, Schaff, Anavekar,

and Abel

9:30 a.m.

Echo in End-Stage Heart Failure Cases 27-28

Dr. Lin

10:00 a.m.

Unknown Cases from

Michigan Cases 29-30 Dr. Armstrong

10:30 a.m.

Refreshment Break

Pre-recorded Lecture: Echocardiography in Congenital Heart Disease: A Systematic Approach (link sent out in advance)

Dr. Connolly

(No CME Offered)

11:00 a.m.

Cases in Congenital Heart Disease and Pregnancy and Heart Disease

Cases 31-36

Drs. Connolly and Nishimura

Thursday, October 22, 2015 - continued

12:30 p.m. Lunch

Oakville and Rutherford

Terrace

Breakout S	Sessions
1:30 p.m 3:00 p.m. (Attendees can rotate after 45 minutes or	A. Intraoperative and Perioperative Echocardiography Salon AK Drs. Abel and Schaff
stay in one session for entire time.)	B. Congenital Heart Disease Salon BJ Dr. Connolly
3:00 p.m. - 4:30 p.m. (Attendees	C. Stress Echocardiography Salon CH Dr. Armstrong
after 45 minutes or stay in one session for entire time.)	D. 3-D and Interventional Echocardiography Salon DEFG Dr. Bruce

3:30 p.m. Adjourn

Friday, October 23, 2015

7:30 a.m. Continental Breakfast

Pre-recorded Lecture: A Practical Approach to Evaluation of Diastolic Function of the Heart By Doppler (link sent out in advance)

Dr. Nishimura (No CME Offered)

Pre-recorded Lecture: Review of Strain for Ventricular Function

Dr. Miller

(No CME Offered)

8:00 a.m. Clinical Decision Making:

Cases in Heart Failure

Cases 37-43

Drs. Miller, Nishimura, Schaff,

Abel, and Lin

10:00 a.m. Refreshment Break

10:30 a.m. Clinical Decision Making:

Cases in Heart Failure II

Cases 44-46
Drs. Lin and Miller

11:15 a.m. Rapid Fire Cases, Interesting

Cases from the Audience Attendees and All Faculty

Friday, October 23, 2015 - continued

12:30 p.m. Lunch

Oakville and Rutherford

Terrace

Breakout S	Sessions
1:30 p.m. - 3:00 p.m. (Attendees can rotate	A. Diastole Salon AK Dr. Nishimura
after 45 minutes or stay in one session for entire time.)	B. Hemodynamics Salon BJ Dr. Miller
3:00 p.m. - 4:30 p.m. (Attendees	C. Multimodality Imaging* Salon CH <i>Dr. Anavekar</i>
after 45 minutes or stay in one session for entire time,	D. Echocardiography in the Cath Lab and ICU Salon DEFG Dr. Reeder
but will not be able to do all three.)	E. Echocardiography in Heart Failure Salon FG Dr. Lin

3:30 p.m. Adjourn

Saturday, October 24, 2015

':30 a.m.	Continental Breakfast
3:00 a.m.	Cases of Masses and Source of Embolism Cases 47-49 Drs. Reeder and Anavekar
:00 a.m.	Special Presentation – Echocardiographic Case of the Year Audience votes for the best case. Cases 50-59 All Faculty
0:30 a.m.	Refreshment Break
0:45 a.m.	Interesting Cases Participants and Faculty
2:00 p.m.	Closing Remarks and

REGISTRATION

Registration is only available online at:

http://www.mayo.edu/cme/casesinecho2015

Registration Fee:

Course Registration (MD, PhD, DO, PharmD) \$740.00 Course Registration (Fellows in Training, Sono, RN) \$615.00

Mayo Clinic Division of Cardiovascular Diseases implemented an online conference registration system in January 2012. If this is your first time using the online system, you will need to create a profile. The attendee's email address is required upon registration. A letter of confirmation and receipt will be forwarded to this email address upon receipt of submitted registration and payment. Present this letter when checking in at the meeting registration desk.

The registration fee includes tuition, comprehensive on-line course syllabus, continental breakfasts, break refreshments, lunch, and welcome reception.

Although it is not Division of Cardiovascular Diseases 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 6-138 Rochester, MN 55905

E-mail: cvcme@mayo.edu

Phone: 800-283-6296 or 507-266-6703

Website: http://www.mayo.edu/cme/casesinecho2015

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 Division of Cardiovascular Diseases before **Wednesday**, **October 7**, **2015** (cvcme@mayo.edu or fax#: 507-266-7403). **No refunds will be made on or after Wednesday**, **October 7**, **2015**. Canceled registrations are non-transferable.

Division of Cardiovascular Diseases reserves the right to cancel or postpone any course due to unforeseen circumstances. In the unlikely event Division of Cardiovascular Diseases must cancel or postpone this course, Division of Cardiovascular Diseases 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.

FUTURE PROGRAM DATE

Next year's course will be held in Napa at The Meritage October 19-22, 2016.

MAYO CLINIC

200 First Street SW/GO6-138 Rochester, MN 55905

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