Division of Cardiovascular Diseases

5th Annual

Echo on Marco Island: Case-Based Approach

December 3-6, 2015
Marco Island Marriott Beach & Golf
Marco Island, FL

Course Directors
Roger L. Click, M.D., Ph.D.
Naser M. Ammash, M.D.

NEW - SPECIAL MOC SESSION ADDED
MOC General Cardiology 2015 Module
Saturday, December 5 – 6:30-8:00 p.m.

LEARN. ADVANCE. CONNECT.
REGISTER TODAY
http://www.mayo.edu/cme/casebasedecho2015
Course Description

The program seeks to address competence in using multiple echocardiographic techniques in assessment of cardiac structure and function in adult acquired or congenital heart disease. This will include concise, limited didactic lectures with major emphasis on a series of illustrative cases which will include audience response and discussion presented by echocardiography specialists which would lead to enhanced patient management. Workshops will be held to demonstrate the techniques for acquiring the echocardiographic data, especially with respect to new contemporary techniques such as strain imaging.

In addition, audience participants are welcome to bring case(s) to share and discuss with the faculty and audience on Sunday morning. Note, all patient identifiers must be removed from your modality.

MOC 2015 Session

A special session has been added to Saturday, December 5 for the General Cardiology Knowledge 2015 module. The content will enhance the competence and clinical judgment in the area of cardiology. If you are certified in a specialty and enrolled in ABIM’s MOC program, you are required to earn a combined 100 points in medical knowledge and practice improvement during your 10 year certificate period. This is designed to help you with this process by providing 10 points in medical knowledge.

Teaching Materials/Syllabus

Attendees will be provided a link to obtain course materials on the internet and are welcome to bring a laptop or iPad during the learning sessions.

Course Learning Objectives

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

- Demonstrate the application of Doppler principles to assessing hemodynamics including valvular heart disease
- Demonstrate use of echocardiography to assess prosthetic valves
- Demonstrate and interpret diastolic echocardiographic measurements
- Define advantages of stress echocardiography and use of contrast
- Apply echocardiographic principles in assessment of congestive heart failure
- Identify echocardiographic features of common congenital heart abnormalities
- Define the role of echo in the interventional cardiology practice
- Recognize the advantages and disadvantages of new imaging techniques including 3-D and strain

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 adult and congenital cardiologists, cardiology fellows, and cardiac sonographers who have basic experience and knowledge in echocardiography. This course is also intended for other medical specialists, internists, surgeons and anesthesiologists working to further their experience in clinical application of echocardiography.
General Information

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 21.75 AMA 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.

Educational Grants
At the time of this printing, a complete listing of commercial supporters 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
The Echo on Marco Island course will be held December 3-6, 2015. Course headquarters will be located in Palms Ballroom on the Lobby Level.

Marriott Marco Island Beach & Golf
400 South Collier Blvd.  Phone: 239-394-2511
Marco Island, FL 34145  Fax: 239-642-2672
Registration – Palms Ballroom Foyer
General Session – Palms Ballroom
Exhibits – Palms Ballroom Foyer
Lunch – Palms Terrace
Reception – Tiki Beach

Travel
Marco Island is the largest of Florida’s Ten Thousand Islands, located at the northernmost point of the picturesque Ten Thousand Islands and just south of Naples. Sunshine along with frolicking dolphins, and all of the water and sun sports that go with the beaches are available for your pleasure.

Marco Island is graced with miles of white-sand beaches, beautiful year-round weather, sumptuous restaurants, fine shopping, dining, lively entertainment, attractions and plenty of recreational activities from boating and fishing, to golf and tennis, and more, all set amid the stunning subtropical beauty that is unique to Southwest Florida’s Gulf coast.

To the north is the Rookery Bay National Estuarine Research Reserve and its Briggs Memorial Nature Center. To the south lies the sprawling 10,000 Islands with over 70 coastal miles of fly fishing heaven, inhabited only by the tiny fishing villages of Goodland, Everglades City, Chokoloskee and eventually Flamingo. Included in this southerly stretch is Collier-Seminole State Park, the 10,000 Islands National Wildlife Refuge, Fakahatchee Strand State Preserve, Big Cypress National Preserve and the 5000 square mile Everglades National Park, ensuring continued protection against coastal development.
General Information

Airport
Southwest Florida International Airport (RSW) in Fort Myers, FL is the recommended airport for arrival. The hotel is approximately 1 hour from the Fort Myers Airport.

*Travel arrangements are the sole responsibility of the individual registrant.*

Car Rental
If you prefer to rent a car while on property, Hertz car rental is located in the hotel. The direct phone number for reservations is 239-394-3322.

Lodging Accommodations
Guest rooms have been reserved for attendees and their guests with special course rates at the Marco Island Marriott. In order to receive the special rate, reservations must be made before the room block is filled or before the expiration date of **Tuesday, November 10, 2015**, whichever comes first. **Note**, the room block for this course sells out early each year.

Reservations will be taken following this date based on space and rate availability. A special rate of $192 single/double has been negotiated for our group. Please call reservations at 800-438-4373 or 239-394-2511 and identify yourself as a participant of the ECHO course when making your reservation.

On-line reservations can be made at:
https://resweb.passkey.com/Resweb.do?mode/welcome_ei_new&eventID=13475801

Check-in: 4:00 p.m.
Check-out: 11:00 a.m.
- High speed internet is complimentary in all guest rooms within our block of rooms.
- Complimentary resort fitness center.
- No resort fee.

You may wish to visit the Marco Island Convention and Visitors Bureau website for area information. [http://www.paradisecoast.com/](http://www.paradisecoast.com/)

*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
Valet Parking – $5.00 discount
Self Parking – Complimentary (located directly across from the hotel)

Social Programs

**Welcome Reception – Thursday, December 3, 2015 – Tiki Beach – 6:00-7:00 p.m.**
Attendees and their guest(s) are cordially invited to join the course faculty for the Welcome Reception on Thursday, December 4. This casual reception welcomes you to Marco Island, officially opens the course, and offers you the perfect opportunity to make connections with existing and new colleagues.

Future Program Dates
December 8-11, 2016
**Program Schedule**

**Wednesday, December 2, 2015**

6:00-7:00 p.m.  
**Early Registration** – Palms Ballroom Foyer

**Thursday, December 3, 2015**

7:00 a.m.  
**Registration and Continental Breakfast**

7:45 a.m.  
**Pre-Test Evaluation and Discussion**
Roger L. Click, M.D., Ph.D.

Moderator: Roger L. Click, M.D., Ph.D.

8:00 a.m.  
**Principles Tune-Up: How Sharp Are You?**
Frederick W. Kremkau, Ph.D.

8:30 a.m.  
**Assessment of LV Systolic Function: Cases and Pitfalls**
David A. Foley, M.D.

9:00 a.m.  
**Challenging Cases in Diastolic Function**
Thomas Ryan, M.D.

9:30 a.m.  
**Cases in Pulmonary Hypertension: Role of Echo**
Crystal R. Bonnichsen, M.D.

10:00 a.m.  
**Refreshment Break – Visit Exhibits**

10:30 a.m.  
**Aortic Valve Cases: Beyond the Basics**
Rekha Mankad, M.D.

11:00 a.m.  
**Mitral Valve Cases: Back to the Basics**
Susan Wilansky, M.D.

11:30 a.m.  
**Tricuspid Valve Challenging Cases**
Roger L. Click, M.D., Ph.D.

12:00 p.m.  
**Panel Discussion**
Drs. Kremkau, Foley, Ryan, Bonnichsen, Mankad, and Wilansky; Dr. Click, moderator

12:30 p.m.  
**Lunch – Tiki Terrace**

Moderator: Naser M. Ammash, M.D.

1:30 p.m.  
**Prosthetic Valves Cases: The Good, Bad, and Ugly**
Lori A. Blauwet, M.D.

2:00 p.m.  
**Diseases of the Aorta: Multimodality Cases**
Crystal R. Bonnichsen, M.D.

2:30 p.m.  
**Endocarditis: Impact of Echo**
Rekha Mankad, M.D.

3:00 p.m.  
**Refreshment Break**

3:15 p.m.  
**3-D Echo: Only the Basics**
William K. Freeman, M.D.

3:45 p.m.  
**Challenging Cases: From M-mode to 3-D**
Itzhak Kronzon, M.D.

4:15 p.m.  
**Panel Discussion**
Drs. Blauwet, Bonnichsen, Mankad, Freeman, and Kronzon; Dr. Ammash, moderator
4:45 p.m.  |  **Echo Challenge**  
| Host:  **Dr. Mankad**  
| Team Captains:  **Drs. Click and Karon; Bonnichsen and Freeman; and Ammash and Ryan**  

5:30 p.m.  |  **Adjourn**  

6:00-7:00 p.m.  |  **Welcome Reception** – Tiki Beach

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**Friday, December 4, 2015**

7:30 a.m.  |  **Continental Breakfast – Visit Exhibits**  
| Moderator:  **Naser M. Ammash, M.D.**  

8:00 a.m.  |  **Putting Principles to Work: Confusing Cases**  
| **Frederick W. Kremkau, Ph.D.**  

8:30 a.m.  |  **Congestive Heart Failure – When to Get An Echo**  
| **Barry L. Karon, M.D.**  

9:00 a.m.  |  **Restrictive Cardiomyopathies: Does Echo Matter?**  
| **Naser M. Ammash, M.D.**  

9:30 a.m.  |  **Cases in Hypertrophic Cardiomyopathy: Role of Echo**  
| **Susan Wilansky, M.D.**  

10:00 a.m.  |  **Panel Discussion**  
| **Drs. Kremkau, Karon, and Wilansky; Dr. Ammash, moderator**  

10:30 a.m.  |  **Refreshment Break – Visit Exhibits**  

11:00 a.m.  |  **Strain: Convince Me or Not**  
| **Barry L. Karon, M.D.**  

11:30 a.m.  |  **Appropriateness Criteria for Echocardiography: Anything New?**  
| **Thomas Ryan, M.D.**  

12:00 p.m.  |  **Pericardial Disease: Challenging Cases**  
| **William K. Freeman, M.D.**  

12:30 p.m.  |  **Adjourn - Afternoon off to enjoy Marco Island**  

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**Saturday, December 5, 2015**

7:30 a.m.  |  **Continental Breakfast – Visit Exhibits**  
| Moderator:  **Roger L. Click, M.D., Ph.D.**  

8:00 a.m.  |  **Stress Echo: Potpourri of Challenging Cases**  
| **Thomas Ryan, M.D.**  

8:30 a.m.  |  **Stress Echo: More Challenging Cases**  
| **Lori A. Blauwet, M.D.**  

9:00 a.m.  |  **Stress Echo – Valvular Heart Disease Cases**  
| **Susan Wilansky, M.D.**  

9:30 a.m.  |  **Acute MI Cases: Should Everyone Have An Echo?**  
| **Rekha Mankad, M.D.**  

10:00 a.m.  |  **Refreshment Break – Visit Exhibits**
10:30 a.m.  Adult Congenital Heart Disease – Interesting Cases  
Naser M. Ammash, M.D.

11:00 a.m.  TEE – Why, When, and Pitfalls  
Roger L. Click, M.D., Ph.D.

11:30 a.m.  Interesting and Challenging Cases From Dr. Kronzon  
Itzhak Kronzon, M.D.

12:00 p.m.  Lunch – Tiki Terrace

1:00 p.m.  Breakout Sessions – Rotate as you desire.

- **Strain – How To Do It**  
  Dr. Karon and Mr. Enger

- **Hemodynamics**  
  Dr. Foley and Ms. Tyler

- **Congenital Heart Disease – Beyond the Basics**  
  Drs. Ammash and Bonnichsen

2:30 p.m.  Adjourn

3:00 p.m.  Echo Volleyball on Quinn’s Beach  
Join Faculty on Quinn’s Beach for a Game or Two of Beach Volleyball – Who Will Take the Win This Year?

6:30-8:00 p.m.  MOC General Cardiology Session  
The primary purpose of this learning session is to facilitate completion of the general cardiology medical knowledge module to receive Maintenance of Certification credit.  
Moderator: Roger L. Click, M.D., Ph.D.  
Faculty Panel: David A. Foley, M.D., Lori A. Blauwet, M.D., and Barry L. Karon, M.D.

Sunday, December 6, 2015

7:30 a.m.  Continental Breakfast – Visit Exhibits  
Moderator: Roger L. Click, M.D., Ph.D.

7:45 a.m.  Post-Test Evaluation and Discussion  
Roger L. Click, M.D., Ph.D.

8:00 a.m.  Echo Pitfalls, Artifacts, and Mistakes  
David A. Foley, M.D.

8:30 a.m.  Cardiac Masses – OMG!  
Thomas Ryan, M.D.

9:00 a.m.  Sonographer Cases  
Mr. Enger and Ms. Tyler

9:30 a.m.  More Interesting and Challenging Cases – Test Your Skills  
All Faculty

11:00 a.m.  Adjourn
Faculty

Course Directors
Roger L. Click, M.D., Ph.D., FACC
Associate Professor of Medicine, Mayo Clinic; Consultant, Division of Cardiovascular Diseases and Internal Medicine, Mayo Clinic, Rochester, MN

Naser M. Ammash, M.D., FACC, FASE
Professor of Medicine, Mayo Clinic; Consultant, Division of Cardiovascular Diseases; Vice-Chair for Clinical Practice, Division of Cardiovascular Diseases, Mayo Clinic, Rochester, MN and Jacksonville, FL

Mayo Faculty

Lori A. Blauwet, M.D., M.A., FACC, FAHA, FASE
Assistant Professor of Medicine, Mayo Clinic; Consultant, Division of Cardiovascular Diseases, Mayo Clinic, Rochester, MN

Crystal R. Bonnichsen, M.D.
Assistant Professor of Medicine, Mayo Clinic; Consultant, Division of Cardiovascular Diseases and Internal Medicine, Mayo Clinic, Rochester, MN

Nicholas (Nick) J. Enger, RDCS, P(E)
Clinical Instructor Students and Fellows, Mayo Clinic; Clinical Sonographer, Cardiovascular Ultrasound Imaging and Hemodynamic Laboratory, Mayo Clinic, Rochester, MN

David A. Foley, M.D., FACC
Assistant Professor of Medicine, Mayo Clinic College of Medicine; Consultant, Division of Cardiovascular Diseases, Rochester, MN

William K. Freeman, M.D., FACC, FASE
Professor of Medicine; Consultant, Division of Cardiovascular Diseases, Mayo Clinic, Rochester, MN

Barry L. Karon, M.D., FACC, FASE
Assistant Professor of Medicine, Mayo Clinic; Consultant, Division of Cardiovascular Diseases, Mayo Clinic, Rochester, MN

Rekha Mankad, M.D., FACC
Instructor in Medicine, Mayo Clinic; Consultant, Division of Cardiovascular Diseases; Director, Patient Education for Division of Cardiovascular Diseases; Cardiovascular Medical Editor for Global Business Solutions, Mayo Clinic, Rochester, MN

Rochelle (Shelly) Tyler, RDCS
Academic/Clinical Coordinator for Mayo School of Health Sciences Echocardiography Program; Clinical Sonographer, Cardiovascular Ultrasound Imaging and Hemodynamic Laboratory, Mayo Clinic, Scottsdale, AZ

Susan Wilansky, M.D., FRCP(C), FACC, FASE
Associate Professor of Medicine, Mayo Clinic; Consultant, Division of Cardiovascular Diseases and Internal Medicine; Program Director, Cardiology Fellowship, Mayo Clinic, Scottsdale, AZ

Guest Faculty

Frederick W. Kremkau, Ph.D., FACR, FAIMBE, FAIUM, FASA
Past President, American Institute of Ultrasound in Medicine; Professor and Director, Program for Medical Ultrasound, Center for Applied Learning, Wake Forest University School of Medicine, Winston-Salem, NC

Itzhak Kronzon, M.D., FACC, FAHA, FASE, FACP, FESC
Chief, Non-Invasive Cardiac Imaging, North Shore LIJ/Lenox Hill Hospital, New York, NY

Thomas Ryan, M.D., FACC, FASE
Professor of Medicine; Director, The Ohio State University Heart Center; John G. and Jeanne Bonnet McCoy Chair in Cardiovascular Medicine, Davis Heart & Lung Research Institute, Columbus, OH

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 Fee:
Course Registration (MD, PhD, DO) $675.00
Course Registration (Fellows, Sonographer, RN) $500.00

Registration is only available online at:
http://www.mayo.edu/cme/casebasedecho2015

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, electronic course syllabus, continental breakfasts, break refreshments, lunch, and 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/casebasedecho2015

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 Thursday, November 19, 2015 (fax#: 507-266-7403). No refunds will be made on or after Thursday, November 19, 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.
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