



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/cm/casebasedecho2015>

# General Information

## 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*<sup>™</sup>. 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.  
Marco Island, FL 34145

**Phone:** 239-394-2511

**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](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/>

*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**

**MARK YOUR CALENDAR!**

# 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. Bonnicksen, 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, Bonnicksen, 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. Bonnicksen, 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, Bonnicksen, Mankad, Freeman, and Kronzon;*  
*Dr. Ammash, moderator*

# Program Schedule

4:45 p.m.      **Echo Challenge**  
Host: *Dr. Mankad*  
Team Captains: *Drs. Click and Karon; Bonnicksen and Freeman; and Ammash and Ryan*

5:30 p.m.      **Adjourn**

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

## 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**

## 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**

# Program Schedule

- 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 Bonnicksen*
- 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**

# General Information

## 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. Bonnicksen, 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

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**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.

# REGISTER ONLINE

<http://www.mayo.edu/cm/casebasedecho2015>

## 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/cm/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](mailto: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.

**MAYO CLINIC**

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

Mayo School of Continuous Professional Development  
*5th Annual*

# *Echo on Marco Island: Case-Based Approach*

**December 3-6, 2015**

Marco Island Marriott Beach & Golf • Marco Island, FL



*If you already received a copy of this brochure, please give this brochure to an interested colleague.*

**REGISTER TODAY!**

<http://www.mayo.edu/cme/casebasedecho2015>

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