



Mayo Clinic Division of Cardiovascular Diseases

**Mayo Clinic Presents**

# Hawaii Heart

**February 8-12, 2016**

**Grand Hyatt Kauai**

**Echocardiography and Multimodality Imaging  
Case-Based Clinical Decision Making**

**Course Directors:**

*Charles J. Bruce, M.D. | Heidi M. Connolly, M.D. | Fletcher A. Miller, Jr., M.D.*

**REGISTER NOW: [celinks.mayo.edu/hawaiiheart2016](https://celinks.mayo.edu/hawaiiheart2016)**

## Course Description

This course will review the technical issues of echocardiography as well as CT, MRI, PET, and nuclear imaging as they pertain to cardiovascular disorders. An expert faculty will discuss the relevant advances in techniques and the limitations of each modality. Lectures will provide a comprehensive state-of-the-art update of the clinical uses of various imaging modalities in the diagnosis, prognosis, and management of common cardiovascular diseases. A clinical case-based format will be used to highlight practice dilemmas and key management strategies.

## Course Learning Objectives

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

- Enhance diagnostic and clinical decision-making skills in the care of your cardiovascular patients using multimodality cardiac imaging
- Identify appropriate use of imaging in diagnosing and managing valvular heart disease
- Summarize diagnostic features of stress testing using a variety of imaging modalities including echocardiography, sestamibi, PET, and MRI in the diagnosis and management of patients with coronary artery disease
- Review current strategies in assessment and management of patients with heart failure, pericardial diseases, aortic disorders, and adult congenital heart disease
- Describe how to evaluate and manage patients with cardiac masses and systemic disorders

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

The intended audience includes cardiologists, radiologists, internal medicine subspecialists, cardiac anesthesiologists, general internists, sonographers, and other primary healthcare providers.

## 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 **24.75 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 healthcare 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

*Hawaii Heart* will be held February 8-12, 2016. An optional pre-course MOC session will be held on Sunday, February 7, 2016. Pre-registration is required. Course headquarters will be located in the Grand Ballroom of the Grand Hyatt Hotel on Kauai.

## Lodging Accommodations

Guest rooms have been reserved for attendees and their guests with special course rates at the Grand Hyatt Kauai. In order to receive the special rate, **reservations must be made before the room block is filled or before the expiration date of January 7, 2016, whichever comes first.** Reservations will be taken following this date based on space and rate availability. Please identify yourself as a participant of Mayo Clinic Hawaii Heart Meeting 2016 when making your reservation.

Grand Hyatt Kauai Resort & Spa 1571 Poipu Road Koloa, HI 96756	Rates	
	Garden	\$300
	Pool	\$325
	Partial Ocean	\$355
	Deluxe Ocean	\$375

## Reservations

**Online:** <https://resweb.passkey.com/go/MayoHeart16>

**Telephone:** (808) 240-6450 or toll free (800) 742-2353

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

## Faculty

### Course Directors

Charles J. Bruce, M.D.  
Heidi M. Connolly, M.D.  
Fletcher A. Miller, Jr., M.D.

### Mayo Faculty

Martin D. Abel, M.D.  
Lori A. Blauwet, M.D.  
Crystal R. Bonnicksen, M.D.  
Daniel D. Borgeson, M.D.  
Allison Cabalka, M.D.  
Frank Cetta, Jr., M.D.  
Carrie L. Fingerson, R.D.C.S  
Thomas A. Foley, M.D.  
Shahyar (Michael) M. Gharacholou, M.D.  
Martha Grogan, M.D.  
Donald J. Hagler, M.D.  
Kyle W. Klarich, M.D.  
Grace Lin, M.D.  
Joseph J. Maleszewski, M.D.  
Rekha Mankad, M.D.

Sunil V. Mankad, M.D.  
Christopher J. McLeod, M.B., Ch.B., Ph.D.  
Todd D. Miller, M.D.  
Sharon L. Mulvagh, M.D.  
Tasneem Z. Naqvi, M.D.  
Patricia A. Pellikka, M.D.  
Sorin V. Pislaru, M.D., Ph.D.  
Alberto Pochettino, M.D.  
Amy W. Pollak, M.D.  
Mathew J. Ritter, M.D.  
Hartzell V. Schaff, M.D.  
Peter C. Spittell, M.D.  
Jennifer A. Warmesbecker, R.D.C.S.  
Phillip M. Young, M.D.

### Guest Faculty

Jim Newton, M.B., Ch.B., M.R.C.P., M.D.  
John Radcliffe Hospital, Oxford  
United Kingdom

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.

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).



Sunday, February 7, 2016

Optional Pre-Course Session: MOC Module

Moderator: *Kyle W. Klarich, MD*

8:30 a.m. Registration

9:00 a.m. **Module Begins**

*Drs. Klarich, Bonnichsen, Borgeson, S. Mankad and McLeod*

10:15 a.m. Refreshment Break

10:30 a.m. Module Continues

11:45 a.m. Adjourn

## Monday, February 8, 2016

- 6:00 a.m. Registration and Continental Breakfast
- 7:00 a.m. Welcome and Announcements
- 7:15 a.m. **State-of-the-Art Lecture: The Clinical Role of 3D Echo in Patients with Valvular Heart Disease**  
*Jim Newton, MB, ChB, MRCP, MD*
- 7:55 a.m. Questions and Discussion

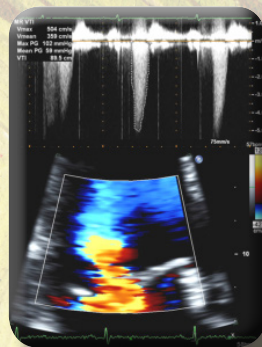
### Valvular Heart Disease

**Moderators:** *Drs. Bruce, F. Miller, Connolly, and Schaff*

- 8:05 a.m. **Valvular Heart Disease Cases I**  
*Drs. Bruce, Connolly, F. Miller, Pellikka, and Schaff*
- 9:20 a.m. Key Take Home Points, Questions, and Discussion
- 9:30 a.m. Refreshment Break

**Moderators:** *Drs. Schaff, Abel, and Pislaru*

- 10:00 a.m. **Valvular Heart Disease Cases II**  
*Drs. Blauwet, Bruce, Connolly, S. Mankad, Newton, and Pislaru*
- 11:30 a.m. Key Take Home Points, Questions, and Discussion
- 11:45 a.m. Adjourn
- 4:00 – 5:00 p.m. **Sonographer Workshop: Interesting Cases in Valvular Heart Disease**  
*Ms. Fingerson, Ms. Warmsbecker, and Dr. R. Mankad*
- 5:30 p.m. Course Reception  
Lima Garden



## Tuesday, February 9, 2016

### Circulatory Failure

**Moderators:** *Drs. Lin, Borgeson, and Maleszewski*

- 7:00 a.m. **State-of-the-Art Lecture: Heart Failure with Preserved Ejection Fraction**  
*Daniel D. Borgeson, MD*
- 7:30 a.m. **Heart Failure Cases I**  
*Drs. Blauwet, Grogan, Klarich, Lin, F. Miller, and Naqvi*
- 9:30 a.m. Key Take Home Points, Questions, and Discussion
- 9:45 a.m. Refreshment Break

### Congenital Heart Disease

**Moderators:** *Drs. Bonnichsen and Cetta*

- 10:15 a.m. **Congenital Heart Disease**  
*Drs. Bonnichsen, Cabalka, Cetta, Connolly, and Hagler*
- 11:45 a.m. Key Take Home Points, Questions, and Discussion
- 12:00 p.m. Adjourn

Wednesday, February 10, 2016

- 6:00 a.m. Continental Breakfast
- 6:55 a.m. Welcome and Announcements

Coronary Artery Disease  
Moderators: Drs. T. Miller and Pellikka

- 7:00 a.m. **State-of-the-Art Lecture: Ischemic Heart Disease: CT vs. Echo for Evaluation of Coronary Artery Disease in the Emergency Department**  
*Patricia A. Pellikka, MD*
- 7:30 a.m. **Coronary Artery Disease Cases**  
*Drs. S. Mankad, T. Miller, Mulvagh, Pellikka, Pollak, and Naqvi*
- 9:30 a.m. Key Take Home Points, Questions, and Discussion
- 9:45 a.m. Refreshment Break

Aortic Disease  
Moderators: Drs. Pochettino, Spittell, Maleszewski, and Ritter

- 10:15 a.m. **Aortic Disease Cases**  
*Drs. Bruce, Bonnichsen, Connolly, Spittell, and Pochettino*
- 11:45 a.m. Key Take Home Points, Questions, and Discussion
- 12:00 p.m. Adjourn

Wednesday Evening Concurrent Workshops

4:00 - 5:30 p.m.

<b>CT MRI</b> <i>Drs. Bonnichsen, Foley, and Young</i>	<b>Intraoperative and Perioperative</b> <i>Drs. Abel, Pochettino, Ritter, and Schaff</i>	<b>Challenges in TEE with Simulator</b> <i>Drs. Klarich, Borgeson, and Ms. Warmsbecker</i>
<b>CT MRI</b> <i>Drs. Bonnichsen, Foley, and Young</i>	<b>Intraoperative and Perioperative</b> <i>Drs. Abel, Pochettino, Ritter, and Schaff</i>	<b>Challenges in TEE with Simulator</b> <i>Drs. Klarich, Borgeson, and Ms. Fingerson</i>



Thursday, February 11, 2016

6:00 a.m. Continental Breakfast  
6:55 a.m. Welcome and Announcements

General Session: Concurrent Workshop Day

Time		
7:15 – 8:00 a.m.	<b>Stress Imaging – Echo</b> <i>Drs. Mulvagh, Pellikka, and Spittell</i>	<b>Stress Imaging – Nuclear/MRI</b> <i>Drs. T. Miller and Pollak</i>
8:00 – 8:45 a.m.	<b>Pericardial Diseases</b> <i>Drs. Naqvi, Grogan, and Young</i>	<b>Diastolic Function</b> <i>Drs. Borgeson, Lin, and F. Miller</i>
8:45 – 9:30 a.m.	<b>Multimodality Imaging: Choosing the Right Test for the Right Patient</b> <i>Drs. T. Miller, Mulvagh, and Pollak</i>	<b>3D Echo</b> <i>Drs. S. Mankad, Newton, and Pislaru</i>
9:30 – 10:00 a.m.	Refreshment Break	Refreshment Break
10:00 – 10:45 a.m.	<b>Echo Strain Imaging Cases</b> <i>Drs. Lin, F. Miller, and Naqvi</i>	<b>3D Echo</b> <i>Drs. S. Mankad, Newton, and Pislaru</i>
10:45 – 11:30 a.m.	<b>Echo Strain Imaging Cases</b> <i>Drs. Lin, F. Miller, and Naqvi</i>	<b>Adult Congenital Heart Disease and Aortic Disease</b> <i>Drs. Bonnichsen, Cabalka, Cetta, Connolly, and Hagler</i>
11:30 a.m. – 12:15 p.m.	<b>Selected Topics in Circulatory Failure</b> <i>Drs. Blauwet, Borgeson, Grogan, and Lin</i>	<b>Adult Congenital Heart Disease and Aortic Disease</b> <i>Drs. Bonnichsen, Cabalka, Cetta, Connolly, and Hagler</i>

Echo Tips and Imaging Pearls for Sonographers

Moderators: Ms. Fingerson and Ms. Warmsbecker

Time	
7:00 – 7:30 a.m.	<b>3D Knobology</b> <i>Dr. S. Mankad</i>
7:30 – 8:00 a.m.	<b>Strain for Beginners</b> <i>Ms. Fingerson</i>
8:00 – 8:30 a.m.	<b>How To Do a PISA Calculation</b> <i>Ms. Warmsbecker</i>
8:30 – 9:00 a.m.	<b>Echo Measurement of LA Volumes – Why, When, and Where</b> <i>Dr. Gharacholou</i>
9:00 – 9:30 a.m.	<b>LV Assessment – Volumes, EF, and RWMA's</b> <i>Ms. Warmsbecker</i>
9:30 – 10:00 a.m.	Refreshment Break
10:00 – 10:30 a.m.	<b>When to Administer Contrast and How To Do It</b> <i>Dr. Mulvagh</i>
10:30 – 11:00 a.m.	<b>Echo Doppler Assessment of Constriction</b> <i>Dr. R. Mankad</i>
11:00 – 11:30 a.m.	<b>Echo Artifacts</b> <i>Dr. Gharacholou</i>
11:30 a.m. - 12:00 p.m.	<b>Advanced Roles for Sonographers in Clinical Practice</b> <i>Ms. Fingerson</i>
12:00 – 12:15 p.m.	<b>Questions and Discussion</b>

**Friday, February 12, 2016**

6:00 a.m. Continental Breakfast  
6:55 a.m. Welcome and Announcements

**MRI and CT in Cardiac Disease**

**Moderators:** *Drs. Bonnichsen and Young*

7:00 a.m. **State-of-the-Art Lecture: MRI and CT: What the Cardiologist Needs to Know**  
*Thomas A. Foley, M.D. and Phillip M. Young, M.D.*

7:30 a.m. **Cases**  
*Drs. Cetta, Foley, Grogan, Pollak and R. Mankad*

9:15 a.m. Key Take Home Points, Questions, and Discussion

9:30 a.m. Post-Test

9:45 a.m. Refreshment Break

**Cardiac Masses and Systemic Disease: Audience Competition**

**Moderators:** *Drs. Bruce, Connolly, and F. Miller*

10:15 a.m. *Drs. Cabalka, Gharacholou, Grogan, Hagler, Klarich, Pislaru, Maleszewski and Spittell*

11:15 a.m. Key Take Home Points, Questions, and Discussion

11:30 a.m. Summary and Course Review

11:45 a.m. Mahalo and Adjourn



***Save the Date for 2017!***

**February 6-10, 2017**

**Hapuna Beach Prince Hotel, Kona**

# Registration

Available online at: [celinks.mayo.edu/hawaiiheart2016](http://celinks.mayo.edu/hawaiiheart2016)

MD, PhD, DO, PharmD	\$850
Fellow, Resident, Sonographer, RN, NP, PA	\$750
Pre-Course MOC Session ( <i>Optional; Pre-Registration is required</i> )	\$75

Mayo Clinic Cardiovascular CME has implemented an online conference registration system. If this is your first time using the online system, you will need to create a profile and login account.

The system will guide you through the profile and login process. An e-mail address is required upon registration. 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, and refreshment breaks. 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 6-472

Rochester, MN 55905

Phone: 800-283-6296

Website: [celinks.mayo.edu/hawaiiheart2016](http://celinks.mayo.edu/hawaiiheart2016)

E-mail: [cvcme@mayo.edu](mailto:cvcme@mayo.edu)

## 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 January 26, 2016 (email: [cvcme@mayo.edu](mailto:cvcme@mayo.edu)). **No refunds will be made on or after January 26, 2016.** 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.



MAYO CLINIC  
200 First Street SW  
Rochester, MN 55905

# Hawaii Heart 2016: Echocardiography and Multimodality Imaging Case-Based Clinical Decision Making

February 8-12, 2016

## Course Description

This course will review the technical issues of echocardiography as well as CT, MRI, PET and nuclear imaging as they pertain to cardiovascular disorders. An expert faculty will discuss the relevant advances in techniques and the limitations of each modality. Lectures will provide a comprehensive state-of-the-art update of the clinical uses of various imaging modalities in the diagnosis, prognosis and management of common cardiovascular diseases. A clinical case-based format will be used to highlight practice dilemmas and key management strategies.

## Hotel Information

Grand Hyatt Kauai Resort & Spa  
1571 Poipu Road  
Koloa, Kauai, HI 96756  
Website: <http://kauai.hyatt.com/>

## Reservations

Online: <https://resweb.passkey.com/go/MayoHeart16>  
Telephone: (808)240-6450 or toll free (800)742-2353

## Room rates:

Garden .....	\$300
Pool.....	\$325
Partial Ocean .....	\$355
Ocean .....	\$375

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