Mayo School of Continuous Professional Development

27th Annual

Echocardiographic Symposium at Vail

July 22-25, 2013
Early registration July 21, 2012 (5-6 p.m.)
Vail Marriott • Vail, Colorado

Program Directors:
George M. Gura, Jr., M.D., FACC
Fletcher A. Miller, Jr., M.D., FACC, FAHA, FASE

Program Co-Directors:
Frank Cetta, M.D., FACC, FASE
Grace Lin, M.D., FACC
Eric E. Williamson, M.D.

Faculty:
Christopher P. Appleton, M.D., FACC, FASE
Crystal R. Bonnichsen, M.D.
Daniel D. Borgeson, M.D., FAC
Benjamin W. Eidem, M.D., FACC, FASE
Lawrence W. Gaul, M.D., FACC
Catherine A. Harris, MA, RDCS
Jonathan N. Johnson, M.D.
Vuyisile T. Nkomo, M.D., MPH, FACC
Stephen (Steve) F. Tucker, RDCS
Phillip M. Young, M.D.

REGISTER TODAY!
http://www.mayo.edu/cme/cardiovascular-diseases-2013R013
Program Schedule

All sessions will be held at Vail Marriott, 715 W. Lionshead Circle, Vail, CO 81657. Meeting room is in the Grand Ballroom on the lower level. Meeting site telephone: 970-476-4444/FAX: 970-476-1647.

Views expressed in this program are those of the individual speaker and do not necessarily reflect views of the Mayo Clinic.

Sunday, July 21, 2013

5:00-6:00 p.m. Registration
Grand Ballroom Foyer, Lower Level

Monday, July 22, 2013

6:30 a.m. Registration – Continental Breakfast

7:10 a.m. Welcome and Introduction
George M. Gura, Jr., M.D.

7:15 a.m. Echo in Practice Pre-Test
George M. Gura, Jr., M.D.

SYSTOLIC AND DIASTOLIC HEART FAILURE: ECHO/CT/MRI
Dr. George M. Gura, Jr., presiding

7:30 a.m. Diastolic Heart Failure 2013: State-of-the-Art 2013
Christopher P. Appleton, M.D.

7:55 a.m. Dyspnea – Noninvasive Evaluation With Multimodality Imaging
Grace Lin, M.D.

8:20 a.m. Echocardiography In Congestive Heart Failure – Guide to Therapy.
What the CHF Specialist Needs From the Echocardiogram.
Daniel D. Borgeson, M.D.

8:45 a.m. Cardiac Resynchronization Therapy and Devices for Congestive Heart Failure
Grace Lin, M.D.

9:10 a.m. Panel Discussion
Drs. Appleton, Lin, and Borgeson; Dr. Gura, moderator

9:40 a.m. Refreshment Break – Visit Exhibits

SYSTOLIC AND DIASTOLIC HEART FAILURE: ECHO/CT/MRI
Dr. George M. Gura, Jr. presiding

10:00 a.m. Challenging Cases in Congestive Heart Failure. Use of Echo, CT, and MRI
Grace Lin, M.D.

10:25 a.m. Advanced Heart Failure. When to Refer for LVAD or Transplant and Use of Echo for Follow-up LVAD.
Daniel D. Borgeson, M.D.

10:50 a.m. Constriction vs. Restriction Cardiomyopathy
Christopher P. Appleton, M.D.
Program Schedule

11:15 a.m.  MRI/CT for Pericardial Disease
Phillip M. Young, M.D.

11:40 a.m.  Incremental Value of 3-D Echo
Vuyisile T. Nkomo, M.D.

12:05 p.m.  Panel Discussion
Drs. Lin, Borgeson, Appleton, Young, and Nkomo; Dr. Gura, moderator

12:30 p.m.  Afternoon Free – See You at the Afternoon Workshop!

4:00 p.m.  WORKSHOP
Hemodynamic Workshop (Systolic and Diastolic)
Drs. Lin and Appleton
Live Demonstrations – Strain and Diastolic Function
Cathryn A. Harris, RDCS, and Stephen (Steve) F. Tucker, RDCS

6:00 p.m.  Adjourn

6:00-7:00 p.m.  Welcome Reception
Ballroom Foyer
Attendees and their guests invited.

Tuesday, July 23, 2013

7:00 a.m.  Continental Breakfast

MYOCARDIAL
Dr. Christopher P. Appleton, presiding

7:30 a.m.  Nonischemic Cardiomyopathy – Hypertrophic, Hypertensive, and Infiltrative. When is LV Outflow Tract Gradient Not Due to HOCM?
Christopher P. Appleton, M.D.

7:55 a.m.  MRI for Nonischemic Cardiomyopathy
Eric E. Williamson, M.D.

8:20 a.m.  Role of Echocardiography Acute Coronary Syndromes Including Role of Echocardiography for Apical Balloon Syndrome
Vuyisile T. Nkomo, M.D.

8:45 a.m.  CT and MRI for Ischemic Myocardial Disease
Eric E. Williamson, M.D.

9:10 a.m.  Adult Congenital Heart Disease in 2013 – Role of Echocardiography in Clinical Decision Making
Frank Cetta, M.D.

9:40 a.m.  Panel Discussion
Drs. Williamson, Nkomo, and Cetta; Dr. Appleton, moderator

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

CONGENITAL HEART DISEASE
Dr. Frank Cetta, presiding

10:30 a.m.  Pregnancy in Adults With Congenital Heart Disease – Relative vs Absolute Contraindications
Crystal R. Bonnichsen, M.D.

10:55 a.m.  Ascending Aortic Aneurysmal Disease Including Coarctation. Multimodality Imaging – CT, MRI, Echo
Eric E. Williamson, M.D.
Program Schedule

11:20 a.m.  Catheter Based Intervention in Adult Congenital Heart Disease (ACHD)
Frank Cetta, M.D.

11:55 a.m.  Role of Imaging in Evaluation of Rejection in Pediatric and Adult Congenital Heart Disease. Experience with Cardiac Transplantation.
Jonathan N. Johnson, M.D.

12:10 p.m.  Coronary Artery Anomalies – Echo, CT, and MRI
Benjamin W. Eidem, M.D. and Eric E. Williamson, M.D.

12:30 p.m.  Afternoon Free – See You at the Afternoon Workshop!

SONOGRAPHER WORKSHOP
3:00 p.m.  Sonographer Workshop – Demonstration and Hands-on Opportunity for Sonographers
Cathryn A. Harris, RDCS, and Stephen (Steve) F. Tucker, RDCS

Workshop on Congenital Heart Disease
Dr. Frank Cetta, presiding

4:00 p.m.  Timing of Pulmonary Valve Replacement for Patients With Tetralogy
Crystal R. Bonnichsen, M.D.

4:20 p.m.  Assessment of Ventricular Function in Adult Congenital Heart Disease
Jonathan N. Johnson, M.D.

4:40 p.m.  Sudden Death Screening in Young Adults
Benjamin W. Eidem, M.D.

5:10 p.m.  Novel Management Strategies for Ebstein Anomaly
Frank Cetta, M.D.

5:30 p.m.  CT & MRI in Congenital Heart Disease
Phillip M. Young, M.D.

6:00 p.m.  Panel Discussion
Drs. Bonnichsen, Johnson, Eidem, and Young; Dr. Cetta, moderator

6:30 p.m.  Adjourn

Wednesday, July 24, 2013

7:00 a.m.  Continental Breakfast

Valvular Heart Disease
Dr. Fletcher A. Miller, Jr., presiding

7:30 a.m.  Echocardiographic Caveats in Evaluation of Clinical Cases of Aortic Stenosis and Mitral Stenosis. Causes of Mismatch of Gradient and Area.
Fletcher A. Miller, Jr., M.D.

Vuyisile T. Nkomo, M.D.

8:20 a.m.  Mitral Regurgitation: Hemodynamic Cases – Is the Short Form of PISA Reliable?
Daniel D. Borgeson, M.D.
Program Schedule

8:45 a.m.  Guidelines for Surgery for Mitral Valve Regurgitation: Conventional Robotic Approaches  
Fletcher A. Miller, Jr., M.D.

9:10 a.m.  Transcatheter Aortic Valve Dysfunction – Transcatheter Aortic Valve Implantation (TAVI). Value of Echo.  
Vuyisile T. Nkomo, M.D.

9:35 a.m.  Panel Discussion  
Drs. Nkomo and Borgeson; Dr. Miller, moderator

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

POTPOURRI OF INTERESTING CASE STUDIES  
Dr. George M. Gura, Jr., presiding

10:30 a.m.  Clinical Cases in Common Systemic Diseases With Multimodality Imaging  
Christopher P. Appleton, M.D.

10:55 a.m.  Challenging Cases in Congenital Heart Disease  
Jonathan N. Johnson, M.D.

11:20 a.m.  Cases of Prosthetic Valve Dysfunction  
Fletcher A. Miller, Jr., M.D.

11:45 a.m.  Assessment of Chest Pain Using CTA  
Eric E. Williamson, M.D.

12:05 p.m.  Panel Discussion  
Drs. Appleton, Johnson, Miller, and Williamson; Dr. Gura, moderator

12:30 p.m.  Afternoon Free – See You at the Afternoon Workshop!

LIVE CASE SCANNING WORKSHOP

3:30 p.m.  Live Case Demonstrations  
Drs. Fletcher A. Miller, Jr. and Lawrence Gaul, and Ms. Harris and Mr. Tucker

5:00 p.m.  Adjourn

Thursday, July 25, 2013

7:30 a.m.  Continental Breakfast

NEWER TECHNOLOGY AND CLINICAL CASES  
Dr. Fletcher A. Miller, Jr., presiding

8:00 a.m.  Post-Test  
Fletcher A. Miller, Jr., M.D.

8:30 a.m.  More Adult Congenital Heart Disease Cases With Echo and MRI  
Drs. Crystal R. Bonnichsen, Benjamin W. Eidem, and Phillip M. Young

8:45 a.m.  Interesting Cases of Myopericardial Diseases Including Strain Cases  
Fletcher A. Miller, Jr., M.D.

9:30 a.m.  Final Take Home Points from All Faculty  
All Faculty

10:00 a.m.  Challenging Clinical Cases from Mayo Clinic  
Drs. Christopher P. Appleton, Jonathan N. Johnson, Fletcher A. Miller, Jr., Vuyisile T. Nkomo, and Phillip M. Young

11:00 a.m.  Adjourn
Register online:
http://www.mayo.edu/cme/cardiovascular-diseases-2013R013

Registration Fee:
Course Registration (MD, PhD, DO) $760.00
Course Registration (Fellows, Sonographers, RN) $525.00
Course Registration One Day Fee (one day attendance only) $250.00

Mayo Clinic Division of Cardiology has recently 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.

Register by entering the url:
http://www.mayo.edu/cme/cardiovascular-diseases-2013R013
and click on Register Now. 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, on-line course syllabus, continental breakfasts, break refreshments, and reception. 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

E-mail: cvcme@mayo.edu
Phone: 800-283-6296 or 507-266-6703
Website: www.mayo.edu/cme/cardiovascular-diseases-2013R013
Course Description

This symposium is an intensive and comprehensive review of state-of-the-art echocardiography to a wide variety of cardiovascular disorders and will have an emphasis on introduction of new technologies and how to use echocardiographic information for the care of our patients. Special emphasis will be on integration of Echo, CT, and MRI and their incremental value in clinical cardiology. The central location and presentation schedule are intended to allow the participants to balance the educational aspects of the program with a summertime family vacation in the beautiful Rocky Mountains. This symposium will stress the integration of all echocardiography techniques into the comprehensive ultrasound examination. Particular emphasis will include new technologies, Doppler hemodynamics, tissue Doppler, diastology, transesophageal echocardiography, and heart failure (myocardial and pericardial disease) and adult congenital heart disease.

Unique to this course is live scanning of patients with various CV disorders, which will be coordinated with Dr. Lawrence W. Gaul of the Vail Clinic. This session will emphasize the importance of comprehensive echocardiographic acquisition and management decision based on echocardiographic data.

There will be ample time each afternoon for the participant to enjoy a multitude of summertime activities in this picturesque and relaxing environment.

Teaching Material/Syllabus

Attendees will be provided a link for electronic syllabus.

Intended Audience

This conference is specifically designed for adult and congenital cardiovascular specialists, internists, anesthesiologists, critical care physicians, surgeons, anesthesiologists, and sonographers interested in the clinical application of echocardiography.

Course Learning Objectives

Upon completion of this program, attendees should be able to:

- distinguish the difference between new technologies of cardiac ultrasound including 3-D, tissue Doppler imaging, strain, and strain rate imaging;
- integrate routine calculations of intracardiac pressures and valve areas;
- integrate information from two-dimensional, spectral Doppler, color flow and tissue Doppler echocardiography for diagnosis and management of a wide variety of clinical cardiovascular problems, including diastolic function;
- integrate information from supportive imaging modalities, such as cardiac MRI and cardiac CT, to supplement diagnostic information obtained using echocardiography;
- summarize clinical cases, using the application of echocardiography.

Registration

Registrations are accepted online at http://www.mayo.edu/cme/cardiovascular-diseases-2013R013. The registration fee includes tuition, comprehensive course electronic syllabus, continental breakfasts, break refreshments, and reception. Although it is not Mayo School of Continuous Professional Development’s 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 on-line registration form. Please present the confirmation letter when checking in at the meeting registration desk.

For additional information, contact:
Mayo Clinic Cardiovascular Diseases
200 1st Street SW/GO6-472
Rochester, MN  55905

Website:  http://www.mayo.edu/cme/cardiovascular-diseases-2013R013
E-mail:  cvcme@mayo.edu
Phone:  800-283-6296 or 507-266-6703
Fax:  507-266-7403
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 School before Monday, July 8, 2013, (cvche@mayo.edu or fax#: 507-266-7403). No refunds will be made on or after Monday, July 8, 2013. Canceled registrations are non-transferable.

Mayo School of Continuous Professional Development reserves the right to cancel or postpone any course due to unforeseen circumstances. In the unlikely event Mayo School of Continuous Professional Development must cancel or postpone this course, Mayo School of Continuous Professional Development 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.

Credit

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

College of Medicine, Mayo Clinic, designates this live activity for a maximum of 24 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.

Location

There are few places as beautiful and picturesque as the Rocky Mountains in the summertime. Vail is a unique family vacation spot and is safe and beautiful, as well as healthy, with numerous activities available. No matter what the age differences, there are hiking trails that range from very easy to difficult, museums, evening concerts in the Gerald R. Ford Amphitheater, the Vail Nature Center, and fishing trips in which children can attend. Make sure you go up the gondola. The ride is beautiful and free in the evenings after the slopes close. Another nice summer drive is over Shrine Pass to Redcliff. This road is a little rough, but the wildflowers don’t get much better anywhere. The wilderness around Vail goes unappreciated. Rock Climbing in Vail is becoming increasingly popular, and with easy access to #1 rated professional mountain guides in Vail, this should be on everyone’s tick list.

Vail offers visitors several types of outdoor sports and activities. The Vail Valley is crisscrossed by miles out mountain bike single-track that links the valley floor with the high alpine terrain above tree line. Those who are not traveling with their own bikes can rent them at the hotel or take one of their guided bike tours. Additional summertime outdoor activities include fly fishing, golfing, hiking, rafting, kayaking, hiking, jeep tours, and horseback riding at the 4-Eagle Ranch. The 4-Eagle Ranch offers a wide variety of fun family activities centered around a real Western Ranch, including horseback rides, cattle round-ups and Western nights with dinner and a Wild West show.

Lodging Accomodations

To secure your room at Vail Marriott, please call 877-622-3140 or 970-476-4444 and state that you will be attending Echo Summer program.

In addition, you can book your room on-line at: https://resweb.passkey.com/go/echo2013

The room rate is $184 single/double a night. Contact the Marriott to receive pricing on condominiums which are also available. When you make your reservation, please be sure to ask about any additional fees, early departure fees, or cancellation penalties. This is a busy time in Vail, and if you intend to extend your stay or arrive early to include a family vacation, we would recommend early registration to secure the room arrangements. Hotel reservations must be made on or before Friday, June 21, 2013. All reservation requests will require a credit card guarantee. All reservations require a two night, non-refundable deposit. If reservation is cancelled within 30 days prior to arrival, individual will forfeit the deposit for all nights reserved. All no-shows are considered guaranteed bookings and will be charged two nights’ room and tax. Any early departures will forfeit all remaining room night’s room and tax charges.
Transportation

Vail is two hours from Denver and can be easily reached by van or limousine service. Private transportation is usually not necessary in Vail as a free bus transportation system is operated by Vail Associates throughout the Vail Valley and extends to the Beaver Creek area.

Special discounted transportation through Colorado Mountain Express has been arranged. To make your reservation, please call 800-525-6363 and ask for the special ECHO rate.

Welcome Reception

Monday, July 22, 2013 – 6:00-7:00 P.M.
Attendees and their guest(s) are cordially invited to join the course faculty for the Welcome Reception on Monday, July 22, 2013. This casual reception welcomes you to Vail, Colorado, officially opens the course, and offers you the perfect opportunity to make connections with existing and new colleagues.

Educational Grants

This activity is supported in part by unrestricted educational grants from various commercial firms. At the time of printing, a complete list of supporters was not available. Appropriate acknowledgement of support will be provided at the time of the activity.

Faculty

Course Directors
George M. Gura, Jr., M.D., FACC
Associate Professor of Medicine, Mayo Clinic; Consultant, Division of Cardiovascular Diseases and Internal Medicine, Mayo Clinic, Rochester, MN

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

Mayo Faculty
Christopher P. Appleton, M.D., FACC, FASE
Professor of Medicine, Mayo Clinic; Consultant, Division of Cardiovascular Diseases and Internal Medicine, Mayo Clinic, Scottsdale, AZ

Crystal R. Bonnichsen, M.D.
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Daniel D. Borsig, M.D., FACC
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Frank Cetta, M.D., FACC, FASE
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Benjamin W. Eidem, M.D., FACC, FASE
Professor of Pediatrics and Medicine, Mayo Clinic; Consultant, Division of Cardiovascular Diseases and Pediatric Cardiology; Director, Pediatric & Fetal Echocardiography Laboratory; Co-Director, Mayo Clinic Echocardiographic Laboratory, Mayo Clinic, Rochester, MN

Catherine A. Harris, MA, RDCS
Sonographer Supervisor, Cardiovascular Ultrasound Imaging and Hemodynamic Laboratory, Mayo Clinic, Rochester, MN

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Eric E. Williamson, M.D.
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Phillip M. Young, M.D.
Assistant Professor of Radiology, Mayo Clinic; Consultant, Department of Radiology, Mayo Clinic, Rochester, MN

Guest Faculty
Lawrence W. Gaul, M.D., FACC
Medical Director, ICU Vail Valley Medical Center, Vail, CO
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Vail Marriott
Vail, Colorado

REGISTER NOW!

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