Division of Cardiovascular Diseases

Imaging in Adult Congenital Heart Disease: Pearls for All Cardiac Providers

APRIL 24-26, 2015
Sawgrass Marriott
1000 PGA Tour Blvd.
Ponte Vedra Beach, FL 32082-3036

Register Today!

http://www.mayo.edu/cme/achd2015
COURSE DESCRIPTION
This course will focus on the use of multi-modality imaging techniques in the management of adult patients with congenital cardiac malformations. It will use a clinical case based format to highlight the impact that echocardiography, cardiac CT and MRI scanning can have in the care of these complex patients. Our goal is improve the participants’ understanding of the appropriate application of these techniques and advance their understanding of the anatomy of, and management strategies related to the adult patient with congenital heart disease. The symposium will be led by a distinguished faculty of congenital cardiologists, cardiac pathologists and cardiac surgeons with expertise in treatment, diagnosis, and management of patients with congenital heart disease.

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.

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

• Recognize the anatomic and physiologic features of a broad spectrum of congenital heart disease (unoperated and operated) in the adult
• Identify the clinical utility of established and emerging cardiovascular imaging modalities in adults with congenital heart disease and apply them in their clinical utility
• Describe the use most appropriate use of these imaging modalities to treat complications of congenital heart disease in adults
• Assess the optimal indications for imaging guidance during percutaneous and surgical interventions for CHD

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 designed for cardiologists, cardiac surgeons, internists, pathologists, cardiovascular fellows, nurses, and physician’s assistants and sonographers with roles in the diagnosis, assessment, understanding, and management of the adult with congenital heart disease.

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 16 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.

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
The Imaging in Adult Congenital Heart Disease: Pearls for All Cardiac Providers will be April 24-26, 2015. Course headquarters will be located in Sawgrass Marriott in the Masters Ballroom E on the main level, 1000 PGA Tour Blvd, Ponte Vedra Beach, FL. Phone: 904-285-7777

General Session: Masters E – Main Level
Exhibits/Breakfast/Breaks: Masters ABC/Foyer
Reception: Cascades Deck

AIRPORT
Jacksonville International Airport (JAX) in Jacksonville, Florida is the recommended airport for arrival. The hotel is approximately 35 miles (40 minutes) from the Airport.

Travel arrangements are the sole responsibility of the individual registrant.
CAR RENTAL
If you prefer to rent a car while on property, Avis Car Rental is available on property. Please speak with the concierge to have this arranged.

LODGING ACCOMMODATIONS
Nestled along the northeast Florida Northeast Coast in Ponte Vedra Beach, Sawgrass Marriott Golf & Spa is a breathtaking destination for golf getaways and family vacations. The resort offers beautiful landscape of trees, lagoons, waterfalls, and views to the green fairways of the TPC Sawgrass. The hotel offers complimentary shuttles to TPC Sawgrass and the Cabana Beach Club. In addition, little vacationers have a blast at the Sawgrass Kids Klub, a supervised recreational program for kids 5-12. The Kids Klub offers fun activities, pool time, arts and crafts, games, and special events including Kid’s Night Out, Kids Camp and Explorer’s Kid’s Klub.

Below are restaurants connected with the hotel. Additional restaurants are located in close proximity to the resort.

- Vernon’s
- Alice & Pete’s Pub
- Pool Bar
- Starbucks
- Cabana Beach Club (located at 619 Ocean View)
- Soothies at the Spa

Guest rooms have been reserved for attendees and their guests with special course rates at the Sawgrass Marriott. In order to receive the special rate, reservations must be made before the room block is filled or before the expiration date of Saturday, March 28, 2015 whichever comes first.

Reservations will be taken following this date based on space and rate availability. A special rate of $174 single/double has been negotiated for our group. Please call reservations at 800-457-4653 and identify yourself as a participant of the Adult Congenital Heart Disease Seminar when making your reservation.

On-line reservations can be made at: https://resweb.passkey.com/go/congenitalheartdiseaseminar

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

- Complimentary in all guest rooms within our block of rooms.
- No resort fee.
- Complimentary self-parking. Valet parking reduced to $10 per day.

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.

WELCOME RECEPTION
Welcome Reception – Friday, April 24 – 6:00-7:00 p.m.
Attendees and their guest(s) are cordially invited to join the course faculty for the Welcome Reception on Friday, April 24, 2015 from 6:00-7:00 p.m. in the Cascades Deck. This casual reception welcomes you to Florida, officially opens the course, and offers you the perfect opportunity to make connections with existing and new colleagues.

RECREATION/LEISURE ACTIVITIES
Additional information on visiting Jacksonville: http://www.visitjacksonville.com/things-to-do/
In addition, the hotel concierge would be happy to assist with any type of reservation.
FACULTY

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

Patrick W. O’Leary, M.D., FACC, FASE
Professor of Pediatrics, Mayo Clinic; Consultant, Division of Pediatric Cardiology, Mayo Clinic, Rochester, MN

Mayo Faculty

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

Allison K. Cabalka, M.D., FACC, FASE
Associate Professor of Pediatrics, Mayo Clinic; Consultant, Division of Pediatric Cardiology, Mayo Clinic, Rochester, MN

Frank Cetta, M.D., FAC, FASE
Professor of Pediatrics and Medicine, Mayo Clinic; Chair, Pediatric Cardiology Division; Consultant, Division of Cardiovascular Diseases and Pediatric Cardiology, Mayo Clinic, Rochester, MN

Joseph A. Dearani, M.D., FACC
Professor of Surgery, Mayo Clinic; Consultant, Division of Cardiovascular Surgery, Mayo Clinic, Rochester, MN

Benjamin W. Eidem, M.D., FACC, FASE
Professor of Pediatrics & Medicine, Mayo Clinic; Consultant, Division of Cardiovascular Diseases and Pediatric Cardiology; Director, Pediatric & Fetal Echocardiography Laboratory; Co-Director, Cardiovascular Ultrasound Imaging and Hemodynamic Laboratory, Mayo Clinic, Rochester, MN

Donald J. Hagler, M.D., FACC
Professor of Pediatrics & Medicine, Mayo Clinic; Consultant, Division of Cardiovascular Diseases and Pediatric Cardiology, Mayo Clinic, Rochester, MN

Jonathan N. Johnson, M.D.
Associate Professor of Pediatrics, Senior Associate Consultant, Division of Pediatric Cardiology, Mayo Clinic, Rochester, MN

Patricia J. Mergo, M.D.
Associate Professor of Radiology, Mayo Clinic; Consultant, Division of Cardiovascular Diseases and Internal Medicine, Mayo Clinic, Jacksonville, FL

Keith R. Oken, M.D., FACC
Assistant Professor of Medicine, Mayo Clinic; Consultant, Division of Cardiovascular Diseases and Internal Medicine, Mayo Clinic, Jacksonville, FL

Sabrina D. Phillips, M.D., D.M., FACC, FASE
Assistant Professor of Medicine, Mayo Clinic; Consultant, Division of Cardiovascular Diseases and Internal Medicine, Mayo Clinic, Rochester, MN

Muhammad (Yasir) Y. Qureshi, MBBS
Assistant Professor of Medicine, Mayo Clinic; Consultant, Division of Pediatric Cardiology, Mayo Clinic, Rochester, MN

Brian P. Shapiro, M.D.
Assistant Professor of Medicine and Radiology, Mayo Clinic; Consultant, Division of Cardiovascular Diseases and Internal Medicine, Mayo Clinic, Jacksonville, FL

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).
# Program Schedule

## FRIDAY, APRIL 24, 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 a.m.</td>
<td>Registration and Continental Breakfast – Masters Foyer</td>
<td>Masters Foyer</td>
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<tr>
<td>8:15 a.m.</td>
<td>Pre-Test</td>
<td></td>
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<tr>
<td>8:30 a.m.</td>
<td>Gaps in ACHD Care: Role of Imaging – Naser M. Ammash, M.D.</td>
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### PREOPERATIVE IMAGING: SIMPLE CHD

**Dr. Naser M. Ammash, presiding**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:55 a.m.</td>
<td>Segmental Approach to Congenital Echocardiography – Patrick W. O’Leary, M.D.</td>
<td>Patrick W. O’Leary</td>
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<tr>
<td>9:45 a.m.</td>
<td>Panel Discussion</td>
<td>Drs. O’Leary and Ammash</td>
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<tr>
<td>10:00 a.m.</td>
<td>Refreshment Break</td>
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<tr>
<td>10:20 a.m.</td>
<td>Coronary Arterial Anomalies</td>
<td>Crystal R. Bonnichsen, M.D.</td>
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<tr>
<td>10:45 a.m.</td>
<td>LVOT Obstruction</td>
<td>Keith R. Oken, M.D.</td>
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<tr>
<td>11:10 a.m.</td>
<td>Ventricular Septal Defect</td>
<td>Donald J. Hagler, M.D.</td>
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<tr>
<td>11:35 a.m.</td>
<td>Panel Discussion</td>
<td>Drs. O’Leary, Bonnichsen, Dearani, Oken, and Hagler; Dr. Ammash, moderator</td>
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<tr>
<td>12:00 p.m.</td>
<td>Lunch</td>
<td>Cascades Deck</td>
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### RIGHT VENTRICULAR MALFORMATIONS AND FUNCTION

**Moderator: Dr. Patrick W. O’Leary**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>1:00 p.m.</td>
<td>Ebstein’s Anomaly</td>
<td>Frank Cetta, M.D.</td>
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<tr>
<td>1:25 p.m.</td>
<td>Congenitally Corrected TGA</td>
<td>Sabrina D. Phillips, M.D.</td>
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<tr>
<td>1:50 p.m.</td>
<td>Right Ventricular Assessment: Echo</td>
<td>Benjamin W. Eidem, M.D.</td>
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<tr>
<td>2:05 p.m.</td>
<td>Right Ventricular Assessment: MRI</td>
<td>Patricia J. Mergo, M.D.</td>
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<tr>
<td>2:20 p.m.</td>
<td>Panel Discussion</td>
<td>Drs. Dearani, Cetta, Phillips, Eidem, and Mergo; Dr. O’Leary, moderator</td>
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<tr>
<td>2:30 p.m.</td>
<td>Refreshment Break</td>
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<tr>
<td>3:00 p.m.</td>
<td>Interesting and Challenging Cases in ACHD – Challenge the Audience for a Diagnosis or Treatment Strategy</td>
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<tr>
<td>3:00 p.m.</td>
<td>Frank Cetta, M.D.</td>
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<tr>
<td>3:15 p.m.</td>
<td>Crystal R. Bonnichsen, M.D.</td>
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<td>Sabrina D. Phillips, M.D.</td>
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<tr>
<td>3:45 p.m.</td>
<td>Naser M. Ammash, M.D.</td>
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<tr>
<td>4:00 p.m.</td>
<td>Allison K. Cabalka, M.D.</td>
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<tr>
<td>4:15 p.m.</td>
<td>Patrick W. O’Leary, M.D.</td>
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<tr>
<td>4:30 p.m.</td>
<td>Adjourn</td>
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<tr>
<td>6:00-7:00 p.m.</td>
<td>Welcome Reception</td>
<td>Cascades Deck</td>
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SATURDAY, APRIL 25, 2015

7:30 a.m.  Continental Breakfast – Masters Foyer

POSTOPERATIVE IMAGING IN CHD: DETECTING AND RESPONDING TO RESIDUA AND SEQUALAE
Dr. Sabrina D. Phillips, presiding

8:30 a.m.  Postop Atrial Septal Defect – Naser M. Ammash, M.D.
8:55 a.m.  Postop Ventricular Septal Defect – Jonathan N. Johnson, M.D.
9:20 a.m.  Aortopathies (Pre and Post) – Crystal R. Bonnichsen, M.D.
9:45 a.m.  Panel Discussion
Drs. Dearani, Ammash, Johnson and Bonnichsen; Dr. Phillips, moderator

10:00 a.m.  Refreshment Break

Dr. Frank Cetta, presiding

10:20 a.m.  Postop TOF – Sabrina D. Phillips, M.D.
10:45 a.m.  Conduits – Muhammad (Yasir) Y. Qureshi, MBBS

11:10 a.m.  Prosthetic Valve Dysfunction: Valvular and Perivalvular
Brian P. Shapiro, M.D.

11:35 a.m.  Panel Discussion
Drs. Dearani, Phillips, Qureshi, and Shapiro; Dr. Cetta, moderator

12:00 p.m.  Lunch – Cascades Deck

COMPLEX POSTOPERATIVE CHD
Dr. Naser M. Ammash, presiding

1:00 p.m.  Atrial Switch for DTGA – Frank Cetta, M.D.
1:25 p.m.  Arterial Switch for DTGA – Allison K. Cabalka, M.D.
1:50 p.m.  The Fontan Patient – Patrick W. O’Leary, M.D.

2:15 p.m.  Panel Discussion
Drs. Dearani, Cetta, Cabalka, and O’Leary; Dr. Ammash moderator

2:30 p.m.  Refreshment Break

3:00 p.m.  Interesting and Challenging Cases in ACHD – Challenge the Audience for a Diagnosis or Treatment Strategy
Moderator: Dr. Patrick W. O’Leary
(15 minutes each)
3:00 p.m.  Jonathan N. Johnson, M.D.
3:15 p.m.  Muhammad (Yasir) Y. Qureshi, MBBS
3:30 p.m.  Patrick W. O’Leary, M.D.
3:45 p.m.  Allison K. Cabalka, M.D.
4:00 p.m.  Donald J. Hagler, M.D.
4:15 p.m.  Frank Cetta, M.D.

4:30 p.m.  Post-Test

4:45 p.m.  Adjourn

SUNDAY, APRIL 26, 2015

8:00 a.m.  Continental Breakfast – Masters Foyer

8:30 a.m.  Imaging Directed Management of ACHD: Challenging Cases
Cases from Faculty and Audience (20 minutes each)
Drs. Johnson, Qureshi, Bonnichsen, Phillips, Eidem, Cabalka, Hagler, and Cetta

11:15 a.m.  Adjourn
Register online at:  
http://www.mayo.edu/cme/achd2015

Registration Fee:
Course Registration (MD, PhD, DO, PharmD) $600.00
Course Registration (Residents, Sonographers, RN) $450.00

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/achd2015

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, break refreshments, 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/achd2015

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 Friday, April 10, 2015 (fax#: 507-266-7403). No refunds will be made on or after Friday, April 10, 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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