Echocardiography of Congenital Heart Disease

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Sunday, April 15 – Tuesday, April 17, 2018
Ruth and Tristram Colket, Jr. Translational Research Building

Residual fenestrations

ASD Occluder
Overview
This course will discuss the morphology and echocardiographic imaging of the majority of congenital heart defects and the major postoperative findings for these lesions. It will also include assessment of ventricular performance in the pediatric patient population and provide case studies for review.

General Information
The conference will be held in the Ruth and Tristram Colket, Jr. Translational Research Building at Children’s Hospital of Philadelphia. The registration fee is $450 for physicians and $350 for fellows, sonographers and other healthcare professionals. The fee includes continental breakfast, breaks, lunch, parking and syllabus material.

Course Objectives
1. Enhance knowledge of the spectrum of congenital heart defects based on morphology and pathology
2. Apply particular echocardiographic views and sweeps to diagnose congenital heart disease before and after surgical intervention
3. Enhance ability to assess ventricular performance in patients with congenital heart disease

ACCME Accreditation Statement
Children’s Hospital of Philadelphia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing education for physicians.

AMA Credit Designation Statement
Children’s Hospital of Philadelphia designates this live activity for a maximum of 20.0 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Hotel Accommodations
A block of rooms has been reserved at reduced rates at The Sheraton University City, located just a few blocks from Children’s Hospital. The group overnight rate is $172 single and double occupancy plus a 15.2 percent room tax. Participants are required to make their own hotel reservations by calling the Inn directly at 215-387-8300. Please mention the name of the conference when making your reservation. The special room rate will be available until Wednesday, March 14, 2018. After that date, reservations will be accepted on a space and rate availability basis.

Cancellation and Refund Policy
Children’s Hospital of Philadelphia reserves the right to cancel or postpone any course due to any unforeseen circumstances. In the event of cancellation or postponement, Children’s Hospital of Philadelphia will refund any registration fees, less a $40 service charge, but is not responsible for any related costs, charges or expenses to participants, including cancellation charges assessed by airlines or travel agencies. In order to process refunds for course withdrawals, cancellation must be received in writing by Sunday, April 1, 2018. No refunds will be issued thereafter.

Services for People with Disabilities
If special arrangements are required for an individual with a disability to attend this meeting, please contact the Continuing Medical Education Department at 215-590-5263.
PROGRAM • Sunday, April 15, 2018

8 a.m.  Introduction to the Course
Meryl S. Cohen, MD

Session 1: The Normal Pediatric Echocardiogram
8:10 a.m.  Segmental Approach and Anatomy of the Normal Heart
Paul Weinberg, MD

8:35 a.m.  Preparing a Child for a Pediatric Echocardiogram and Sedation Strategies
Christine Pascua, RDMS, FASE

8:55 a.m.  Echo Assessment of Segmental Anatomy
Michael Quartermain, MD

9:15 a.m.  The Do’s and Don’t’s of Pediatric Echocardiography
Melissa Wasserman, RDMS, FASE

9:30 a.m.  Break

Session 2: Intracardiac Shunts
10 a.m.  The Anatomy and Morphology of the Atria and Atrial Septum
Andrew Cook, PhD

10:20 a.m.  Imaging Assessment of Atrial Septal Defects and Other Atrial Communications
Jan Marek, MD, PhD, FESC

10:40 a.m.  Imaging Assessment During and After Device Closure of Atrial Communications
Laura Mercer-Rosa, MD, MSCE

11 a.m.  The Anatomy and Morphology of the Ventricular Septum and Ventricular Septal Defects
Paul Weinberg, MD

11:20 a.m.  Imaging Assessment of Ventricular Septal Defects
Leo Lopez, MD

11:40 a.m.  The Anatomy and Morphology of Atrioventricular Canal/Septal Defects
Andrew Cook, PhD

Noon  Imaging Assessment of Atrioventricular Canal/Septal Defects
Meryl Cohen, MD

12:30 p.m.  Lunch

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Session 3: Systemic Veins, Pulmonary Veins, Aortic Valve and Aortic Arch

1:30 p.m.  Anatomy and Morphology of Systemic and Pulmonary Venous Anomalies
Andrew Cook, PhD

1:55 p.m.  Imaging Assessment of Systemic and Pulmonary Venous Anomalies
Leo Lopez, MD

2:20 p.m.  Anatomy and Morphology of the Aortic Valve
Paul Weinberg, MD

2:35 p.m.  Imaging Assessment of the Aortic Valve
Dave Goldberg, MD

2:50 p.m.  Anatomy and Morphology of the Aortic Arch and Vascular Rings
Paul Weinberg, MD

3:10 p.m.  Imaging Assessment of the Aortic Arch and Vascular Rings
Shobha Natarajan, MD

3:30 p.m.  Break

Session 4: Tetralogy of Fallot

3:50 p.m.  Anatomy and Morphology of Tetralogy of Fallot and Its Variants
Paul Weinberg, MD

4:10 p.m.  Preoperative Imaging Assessment of Tetralogy of Fallot
Michael Quartermain, MD

4:30 p.m.  Postoperative Imaging Assessment of Tetralogy of Fallot
Laura Mercer-Rosa, MD, MSCE

4:50 p.m.  Interesting Cases of the Day
Faculty

5:15 p.m.  Special Lecture — Fetal Echocardiography: Where Is the Field Going?
Jack Rychik, MD

5:40 p.m.  Adjourn
Session 5: Transposition of the Great Arteries

8 a.m.  Anatomy and Morphology of Transposition of the Great Arteries and the Atrial and Arterial Switch
  Paul Weinberg, MD

8:30 a.m.  Preoperative Imaging Assessment of Transposition of the Great Arteries
  Meryl S. Cohen, MD

8:50 a.m.  Imaging Assessment after the Arterial Switch Operation
  Luc Mertens, MD, PhD

9:10 a.m.  Imaging Assessment after the Atrial Switch Operation
  Folkert Meijboom, MD, FESC

9:30 a.m.  Break

Session 6: Double Outlet Right Ventricle and Truncus Arteriosus

10 a.m.  Anatomy and Morphology of Double Outlet Ventricle
  Andrew Cook, PhD

10:20 a.m.  Imaging Assessment of Double Outlet Ventricle
  Leo Lopez, MD

10:45 a.m.  Anatomy and Morphology of Truncus Arteriosus and AP Window
  Paul Weinberg, MD

11:05 a.m.  Preoperative and Postoperative Imaging Assessment of Truncus Arteriosus and AP Window
  Jan Marek, MD, PhD, FESC

Session 7: Congenitally Corrected Transposition

11:30 a.m.  Anatomy and Morphology of Congenitally Corrected Transposition
  Andrew Cook, PhD

11:50 a.m.  Imaging Assessment of Congenitally Corrected Transposition
  David Goldberg, MD

12:15 p.m.  Lunch

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Session 8: Functionally Univentricular Hearts

1:15 p.m.  Anatomy and Variation of the Functionally Single Ventricle Heart
Andrew Cook, PhD

1:40 p.m.  Preoperative Imaging Assessment of the Single Ventricle Heart
Michael Quartermain, MD

2 p.m.  Imaging Assessment after First Stage Palliation for Single Ventricle
Shobha Natarajan, MD

2:20 p.m.  Imaging Assessment after Glenn and Fontan Procedures
Luc Mertens, MD, PhD

2:45 p.m.  Break

3:10 p.m.  Interesting Cases of the Day
Faculty

4 p.m.  Special Lecture: Imaging of the Lymphatic System in Congenital Heart Disease
Yoav Dori, MD, PhD

4:30 p.m.  Adjourn
Session 9: Coronary Artery Anomalies and Heterotaxy Syndrome

8 a.m.  Anatomy and Morphology of Coronary Artery Anomalies
        Paul Weinberg, MD

8:20 a.m. Imaging Assessment of Anomalous Coronary Arteries
          Leo Lopez, MD

8:45 a.m. Anatomy and Morphology of Heterotaxy Syndrome/Isomerism
          Paul Weinberg, MD

9:10 a.m. Imaging Assessment of Heterotaxy/Isomerism
          Meryl S. Cohen, MD

9:30 a.m. Break

Session 10: Atrioventricular Valves and the Pulmonary Valve

10 a.m.  Anatomy and Morphology of the Tricuspid Valve and Ebstein's Anomaly
          Andrew Cook, PhD

10:20 a.m. Imaging Assessment of Tricuspid Valve Anomalies and Ebstein's Anomaly
           Folkert Meijboom, MD, FESC

10:40 a.m. Anatomy and Morphology of the Mitral Valve and its Anomalies
           Andrew Cook, PhD

11 a.m.  Imaging Assessment of the Mitral Valve and its Anomalies
           Shobha Natarajan, MD

11:20 a.m. Anatomy and Morphology of the Pulmonary Valve
           Paul Weinberg, MD

11:40 a.m. Imaging Assessment of the Pulmonary Valve
           Meryl S. Cohen, MD

Noon    Lunch
Session 11: Assessment of Systolic and Diastolic Function in Pediatric Patients

1 p.m.  Assessment of Systolic Left Ventricular Function
         Luc Mertens, MD, PhD

1:30 p.m. Assessment of Diastolic Left Ventricular Function
          Jan Marek, MD, PhD, FESC

2 p.m.  Assessment of RV Function in Two-ventricle Circuit
         Laura Mercer-Rosa, MD, MSCE

2:30 p.m. Break

2:50 p.m. Assessment of Single Ventricular Function
          David Goldberg, MD

3:10 p.m. Utilization of 3D for Perioperative Imaging in Children
          Matthew Jolley, MD

3:30 p.m. Interesting Cases of the Day
          Faculty

4:30 p.m. Adjourn
Unless otherwise noted, faculty is from Children’s Hospital of Philadelphia and the Perelman School of Medicine at the University of Pennsylvania.

**Course Directors**

**Meryl S. Cohen, MD**  
Associate Chair, Division of Cardiology  
Professor of Pediatrics

**Luc Mertens, MD, PhD**  
Head of Echocardiography  
Hospital for Sick Children  
Professor of Pediatrics  
University of Toronto  
Toronto, Ontario

**Faculty**

**Andrew Cook, PhD**  
Director of Cardiac Registry  
Great Ormond Street Hospital for Children  
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**Yoav Dori, MD, PhD**  
Attending Cardiologist  
Director, Center for Lymphatic Imaging and Interventions  
Associate Professor of Pediatrics

**David Goldberg, MD**  
Attending Cardiologist  
Assistant Professor of Pediatrics

**Matthew Jolley, MD**  
Attending Anesthesiologist  
Assistant Professor of Anesthesia, Cardiac Anesthesiology

**Leo Lopez, MD**  
Medical Director, Echocardiography Laboratory  
Nicklaus Children’s Hospital  
Clinical Professor of Pediatrics  
Florida International University  
Miami, Fla.

**Jan Marek, MD, PhD, FESC**  
Consultant Paediatric Cardiologist and Clinical Lead for Echocardiography and Prenatal Cardiology  
Professor of Pediatric Cardiology  
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