Echocardiography of Congenital Heart Disease

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Sunday, April 15 – Tuesday, April 17, 2018
Ruth and Tristram Colket, Jr.
Translational Research Building on the Raymond G. Perelman Campus
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 on the Raymond G. Perelman Campus 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.
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  
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Faculty

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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  
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Professor of Pediatric Cardiology  
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Director, Single Ventricle Survivorship Program
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