



Imaging Congenital Heart Disease Across the Lifespan with Echocardiography: A Neonatal to Adult Approach

Saturday, October 4, 2025

HUB for Clinical Collaboration on the CHOP Philadelphia Campus

Course Overview

This first-annual, one-day symposium for echo sonographers will provide a unique learning experience. Join us for lectures by top pediatric cardiologists and experienced sonographers, “bedside” breakout sessions with an emphasis on talking through the thought process and techniques while scanning congenital heart disease, a glimpse into high-level 3-D imaging and its use in surgical planning, a hands-on session involving pediatric heart specimens, and a fun and interactive quiz game.

Course Objectives

- Enhance knowledge of congenital heart defects in both neonatal and adult populations
- Apply particular echocardiographic views and techniques to diagnose congenital heart disease in patients of all ages
- Apply knowledge to performance and interpretation of imaging studies of congenital heart disease
- Exposure to heart specimens and bedside perspective case studies

General Information

The conference will be held in The Hub Building at The Children’s Hospital of Philadelphia. The registration fee is \$175 and includes continental breakfast, breaks, lunch, parking and syllabus material.

Accreditation Statements

ASE designates this live activity for a maximum of 7.0 *ASE CEU Credits™*.

In-person registrants may claim CEU credits for attending sessions in-person.

ASE CEU credits are honored by the American Registry for Diagnostic Medical Sonographer (ARDMS) and Cardiovascular Credentialing International (CCI) towards registry requirements for sonographers.

Cancellation and Refund Policy

The 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, The 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 September 19, 2025. 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.

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PROGRAM

Saturday, October 4, 2025

- 8:30 a.m. **Registration & Continental Breakfast**
- 9:00 a.m. **Welcome & Introduction to the Course**
Christine Pascua and Karen Miller
- 9:10 a.m. **Determining Segmental Anatomy by Echo**
Mike Quartermain
- Introduction to segmental anatomy
 - Overview of great artery alignment
 - Elements for a complete initial echo assessment
- 9:40 a.m. **Sweeping for Success: Pediatric Subcostal Imaging Demystified**
Devon Ash
- Overview and introduction to imaging “sweeps”
 - Echocardiographic assessment of cardiac structures from subcostal views
 - Optimization for patient position and comfort
- 10:00 a.m. **Can I Get a Neck Roll? Suprasternal Views**
Christian Dowell
- Overview of aortic arch sidedness and branching patterns
 - Overview of orthogonal suprasternal views
 - Anatomy considerations
- 10:20 a.m. **Alphabet Soup of Simple Shunts: ASD, VSD, PFO and PDA**
Colleen Foley
- Introduction to transitional fetal circulation
 - Overview of atrial septal defects
 - Overview of ventricular septal defects
- 10:40 a.m. **Break**
- 10:50 a.m. **Something’s Not Right! Critical Scenarios in Neonates**
Lindsay Rogers
- Left-sided obstructive lesions
 - Right ventricular dysfunction
 - Case study

11:20 a.m. Small Group Breakout Sessions: 20 minutes each

Where Are All the Veins?

Sarah Flynn and Carmelita Caimbon

- Pulmonary vein anatomy and types of defects
- Echocardiographic characteristics

The Spectrum of Tetralogy of Fallot

Nikki Boyle and Jen Giardino

- Overview of anatomy and physiology
- Types of Tetralogy of Fallot
- Echocardiographic characteristics

The Spectrum of Transposition of the Great Arteries

Penelope Hazin and Renee Sullivan

- Overview of Transposition of the Great Arteries
- Echocardiographic considerations

12:20 p.m. Lunch

12:50 p.m. Long Term Effects of Congenital Heart Disease: The Adult Population

Alex Davidson

- Common congenital heart disease repairs seen in adult population
- Assessment and importance of right ventricular function

1:20 p.m. The Most Baffling of Baffles: Mustard and Senning

Nikki Johnson

- Overview of surgically created baffles
- Techniques for echocardiographic assessment
- Focus on pulmonary and systemic imaging

1:40 p.m. The Pulmonic Valve's Big Career Change: The Ross/ Ross- Konno Procedure

Maria Pero

- Introduction to pulmonary surgical reconstruction
- Post operative echo assessment
- Detecting long term complications and pitfalls of these procedures

2:00 p.m. The Single Ventricle Pathway: Echocardiography from Birth to Adulthood

Mike Convery

- Define single ventricle anatomy and pathophysiology
- Define the distinct stages of single ventricle repair and how they pertain to the echocardiographic examination

2:20 p.m. Break

2:30 p.m. A Wholehearted Look at “Half” a Heart: Imaging Single Ventricle Patients

Jenna DiSanto

- Overview of basic surgical reconstructions
- Echocardiographic assessment in adulthood

- 2:50 p.m.** **Transposition of the Great Arteries - aka Hunting for the Pulmonary Arteries**
Valerie Capone
- Overview of Transposition of the Great Arteries
 - Echocardiographic techniques to visualize pulmonary arteries
- 3:10 p.m.** **Tetralogy of Fallot: Scanning Tricks and Talking Tips...from an Over-the-Top Helicopter Heart Mom Turned Congenital Sonographer**
Lisa Scarfo
- Unique perspective of echo assessment from CHD parent and sonographer
 - Tips for a patient and family centered approach to echo
- 3:30 p.m.** **Scanning Back in Time: Transitioning from Adult to Pediatric Echo**
Monica Hartsfield-Pugh
- Understanding embryology, cardiac morphology, and the neonatal transition period
 - Personal perspective of career transition from adult echo to pediatric echo
- 4:00 p.m.** **Small Group Breakout Sessions: 20 minutes each**
- Heart Specimen Demonstration and Introduction to Cardiac Morphology**
Jill Savla
- Demonstration of heart specimens with varied anatomy
 - Engage in hands on learning with the specimens
 - Q & A session
- Advanced 3-D Imaging and Surgical Planning**
Yan Wang
- Case presentation and discussion of multiple 3-D echo imaging studies
 - Use of 3-D imaging in pre-surgical planning
- 4:40 p.m.** **Name that Lesion! Review and Interactive Quiz Game**
Melissa Wasserman
- 5:00 p.m.** **Adjourn**

Unless otherwise noted, faculty is from the Children's Hospital of Philadelphia and/or the Perelman School of Medicine at the University of Pennsylvania.

Course Directors

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