



**2nd Annual  
Imaging Congenital Heart Disease:  
From First Beats to Peak Performance**  
**Saturday, October 10, 2026**

HUB for Clinical Collaboration on the CHOP Philadelphia Campus

## Course Overview

This second annual, one-day symposium is designed for professionals seeking a deeper understanding of imaging congenital heart disease across the lifespan, from fetal assessments to post-operative care and lifelong cardiac performance.

Join leading pediatric cardiologists and expert sonographers for a dynamic learning experience that blends foundational knowledge with advanced applications. The program features in-depth lectures, extended breakout sessions dedicated to 3D imaging and hands-on exploration of pediatric heart specimens, and focused discussions that emphasize practical techniques and clinical decision-making in congenital echocardiography.

The symposium will also incorporate fetal echocardiography sessions designed to complement core pediatric topics, including segmental anatomy and congenital heart disease in utero. These paired discussions will highlight how imaging approaches and interpretation differ across the prenatal and postnatal spectrum, reinforcing a more comprehensive understanding of congenital cardiac disease.

The program will also include a dedicated discussion on stress echocardiography in congenital heart disease, focusing on its clinical applications and emerging utility in patient management.

This experience offers a valuable opportunity for professionals seeking to deepen their expertise, refine their imaging approach, and stay at the forefront of congenital cardiac care.

*\*NOTE: CEU credits only applicable to sonographers*

## Course Objectives

- Enhance knowledge of congenital heart defects across the fetal, neonatal, pediatric, and congenital lifespan spectrum
- 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
- Hands on heart specimen demonstrations and applied case discussions

## 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, a cocktail reception, 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 October 1, 2026. 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 10, 2026

- 9:00 a.m. **Welcome & Introduction to the Course**  
*Christine Pascua and Karen Miller*
- 9:10 a.m. **Determining Segmental Anatomy by Echo**  
*Michael Quartermain, MD*
- Introduction to segmental anatomy with examples of CHD
  - 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
- 10:10 a.m. **Break**
- 10:20 a.m. **Before the First Breath: An Introduction to Fetal Echocardiography**  
*Christina Werth*
- Learn to apply the segmental approach to echo evaluation in fetal life, evaluating critical fetal structures, anatomic landmarks, and positioning
  - Examine indications for fetal echocardiography and explore how gestational timing affects both technical feasibility and clinical decision-making
  - Distinguish hemodynamics of fetal life and explore what Doppler can tell us about congenital heart disease and fetal well-being
- 10:40 a.m. **Bridging Diagnosis to Delivery in Critical Congenital Heart Disease**  
*Debra Soffer*
- Emphasize the impact of prenatal diagnosis in critical CHD
  - Discuss perinatal care coordination and delivery planning through CHOP’s Fetal Heart Program and Special Delivery Unit classification system
  - Apply concepts through case-based review

- 11:00 a.m. Alphabet Soup of Simple Shunts: ASDs, VSDs, PFO and PDA**  
*Colleen Foley*
- Introduction to transitional fetal circulation
  - Overview of atrial septal defects
  - Overview of ventricular septal defects
- 11:20 a.m. Something’s Not Right! Critical Scenarios in Neonates**  
*Lindsay Rogers, MD*
- Left-sided obstructive lesions
  - Right ventricular dysfunction
  - Case study
- 11:50 a.m. Lunch**
- 12:10 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 important post-operative anatomical findings
- 12:20 p.m. The Echo Perspective on TOF vs. DORV: A Matter of Continuity**  
*Lisa Scarfo*
- Differentiate Tetralogy of Fallot (TOF) and Double Outlet Right Ventricle (DORV) using key anatomic features
  - Recognize the importance of mitral–aortic continuity in distinguishing TOF from DORV
  - Identify classic echocardiographic presentations and accurately classify lesions as TOF or DORV
- 12:40 p.m. It’s All About Balance: Understanding AV Canal Defects on Echocardiography**  
*Michael Quarantillo*
- Recognize the spectrum of AV canal defects on echocardiography
  - Apply optimized imaging techniques for comprehensive AV canal assessment
  - Differentiate balanced vs. unbalanced defects and their clinical implications
- 1:00 p.m. Break**
- 1:10 p.m. A Wholehearted Look at “Half” a Heart: Imaging Single Ventricle Patients**  
*Melissa Wasserman*
- Define single ventricle anatomy and pathophysiology
  - Define the distinct stages of single ventricle repair and how they pertain to the echocardiographic examination
- 1:30 p.m. The Most Baffling of Baffles: Mustard, Senning, and the Double Switch**  
*Nikki Johnson*
- Overview of surgically corrected atrial-level and ventricular-level baffles
  - Focus on systemic and pulmonary venous pathways and ventricular–arterial relationships
  - Techniques for echocardiographic assessment

- 1:50 p.m. Don't Sweat It: What Pediatric Exercise Stress Echo Reveals Beyond Rest**  
*Shivani Bhatt, MD*
- Understand the indications and clinical applications of pediatric stress echo
  - Review approach to performance of pediatric exercise stress echocardiography including acquisition techniques, imaging parameters and standardized protocols
- 2:00 p.m. Question & Answer Section**
- 2:20 p.m. Break**
- 2:30 p.m. Extended Group Breakout Sessions**  
Attendees will rotate through interactive breakout stations:
- Heart Specimen Demonstration and Introduction to Cardiac Morphology**  
*Jill Savla, MD*
- Demonstration of heart specimens with varied anatomy
  - Engage in hands-on learning with the specimens
  - Q & A session
- 3:30 p.m. 3D EF Quantification and RV Strain**  
*Monica Hartsfield-Pugh*
- Application of 3D imaging and RV strain analysis in clinical decision-making and follow-up
  - Hands-on opportunities
- 3D Surgical Planning**  
*Yan Wang*
- Case presentation and discussion of multiple 3D echo imaging studies
  - Use of 3D imaging in pre-surgical planning
  - Hands-on opportunities
- 4:30 p.m. Closing Reception & Networking Hour**
- Join speakers, faculty, and attendees for a concluding cocktail reception designed to foster collaboration, conversation, and professional connection following the symposium

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

**Christine Pascua, BS, RCS, RCCS, FASE**  
*Program Director, Cardiac Noninvasive Imaging*

**Melissa Wasserman, RDCS, RCCS, FASE**  
*Senior Program Manager, Satellite Operations*

**Karen Miller, BS, RDCS, RVT, FASE**  
*Lead Sonographer for Education, Echocardiography Lab*

## Course Faculty

**Devon Ash, BS, RDCS**  
*Program Manager, Echocardiography Lab*

**Shivani Bhatt, MD**  
*Director, Exercise Stress Echocardiography Program*  
*Attending Cardiologist*  
*Associate Professor of Pediatrics, Perelman School of Medicine at the University of Pennsylvania*

**Valerie Capone, BS, RDCS, FASE**  
*Pediatric Sonographer, Echocardiography Lab*

**Christian Dowell, RCS, RCCS**  
*Pediatric Sonographer, Echocardiography Lab*

**Colleen Foley, RCCS**  
*Pediatric Sonographer, Echocardiography Lab*

**Monica Hartsfield-Pugh, RDCS**  
*Pediatric Sonographer, Echocardiography Lab*

**Nikki Johnson, BS, RDCS, FASE**  
*Lead Sonographer for Quality Improvement, Echocardiography Lab*

**Laura Mercer-Rosa, MD, MSCE, FASE**  
*Assistant Director, Echocardiography Lab*  
*Attending Cardiologist*  
*Associate Professor of Pediatrics, Perelman School of Medicine at the University of Pennsylvania*

**Michael Quarantillo, BS, RDCS**  
*Pediatric Sonographer, Echocardiography Lab*

**Michael Quartermain, MD, FASE**  
*Director, Echocardiography Lab*  
*Attending Cardiologist*  
*Professor of Clinical Pediatrics, Perelman School of Medicine at the University of Pennsylvania*

**Lindsay Rogers, MD, MEd**  
*Director, Pediatric Cardiology Fellowship Program*  
*Attending Cardiologist*  
*Associate Professor of Clinical Pediatrics, Perelman School of Medicine at the University of Pennsylvania*

## Course Faculty (continued)

**Jill Savla, MD, MSCE**

*Fetal Heart Program*

*Attending Cardiologist*

*Assistant Professor of Clinical Pediatrics, Perelman School of Medicine at the University of Pennsylvania*

**Lisa Scarfo, RDCS**

*Pediatric Sonographer, Echocardiography Lab*

**Debra Soffer, BS, RDCS, RDMS, RVT, RT(R)**

*Fetal Cardiac Sonographer*

*Fetal Heart Program*

**Yan Wang, MD, RDCS, FASE**

*Lead Sonographer for Advanced Imaging, Echocardiography Lab*

**Christina Werth, MS, RDCS, RDMS**

*Fetal Cardiac Sonographer Fetal Heart Program*

## Planning Committee

Sarah Flynn

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