



Pediatric Emergency Medicine, General Pediatrics, Neonatology and Critical Care Medicine: Bedside Ultrasound Course

Saturday, May 31 – Sunday, June 1, 2025

**The HUB for Clinical Collaboration
on the CHOP Philadelphia Campus**

Target Audience

Neonatal, pediatric emergency medicine and critical care medicine providers.

Course Overview

This course is intended as an alternative to adult emergency and critical care ultrasound courses, with a focus on pediatric emergency ultrasound indications. It is designed for neonatal, pediatric emergency and critical care medicine providers with limited or basic knowledge of emergency bedside ultrasound. Through a combination of lectures and hands-on practical sessions using live pediatric models and simulation equipment, course attendees will learn ultrasound fundamentals (physics and principles of scanning) and ultrasound scanning techniques pertinent to pediatric practice including: basic procedural guidance (line placement, lumbar puncture, etc.); evaluation of abscesses and foreign bodies; bladder scanning; FAST (focused assessment with sonography for trauma); lung evaluation; basic cardiac evaluation; musculoskeletal applications (fracture and joint); bowel scanning (intussusception); fluid and function evaluation; and advanced procedures (nerve blocks, chest tube placement, peritoneal/pleural fluid drainage).

The course is being taught by emergency, neonatal and critical care ultrasound experts, and will have a low student-to-teacher ratio of 4/5 to 1. A limited portion of the course will be devoted to a knowledge and skills assessment exam and a brief discussion of program development and administrative issues with regard to point-of-care ultrasound.

Course Objectives

- Demonstrate core nonprocedural ultrasound skills (basic fluid and cardiac function assessment, FAST exam, pulmonary ultrasounds) using bedside ultrasound
- Demonstrate core procedural ultrasound skills (intravenous line insertion and fluid drainage)
- Discuss appropriate indications and limitations of the bedside ultrasound exam in pediatric acute care settings

General Information

The conference will be held at Children's Hospital of Philadelphia in the HUB Auditorium, Saturday and Sunday, May 31 – June 1, 2025. The course registration fees are as follows:

Physicians: \$1,100

Fellows, nurse practitioners and CHOP-affiliated providers: \$600

The fee includes continental breakfast, refreshments, lunch and course materials.

Accreditation



JOINTLY ACCREDITED PROVIDER™
INTERPROFESSIONAL CONTINUING EDUCATION

In support of improving patient care, this activity has been planned and implemented by the Children's Hospital of Philadelphia. The Children's Hospital of Philadelphia is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Designation of Credit

Physicians: Children's Hospital of Philadelphia designates this live activity for a maximum of 16.75 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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, the hospital will refund registration fee 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, cancellations must be received in writing by Friday, May 16, 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.

Register Online: chop.cloud-cme.com



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PROGRAM

Saturday, May 31, 2025

- 7:00 a.m.** **Registration and Breakfast**
- 7:30 a.m.** **Welcome and Course Overview**
Aaron Chen, MD; Thomas Conlon, MD; Maky Fraga, MD; Beryl M. Greywoode, MD
- 7:45 a.m.** **Physics and Fundamentals of Ultrasonography**
Jason Stoller, MD
- 8:15 a.m.** **Introduction to FAST/FAFF**
Mary Kathleen Claiborne, MD
- 8:45 a.m.** **Vascular Access and Basic Procedures**
Francis-Olivier Beauchamp, MD
- 9:15 a.m.** **Lung Ultrasound: Pneumonia, Pneumothorax and Pleural Effusions**
Christie Glau, MD
- 9:45 a.m.** **Break**
- 10:00 a.m.** **Hands-on Skills (FAST/FAFF, Vascular Access, Lung)**
- 12:00 p.m.** **Lunch**
- 12:20 p.m.** **Approach to Ultrasound Guided Lumbar Puncture**
Erik Brandsma, MD
- 12:40 p.m.** **Umbilical Venous Cannulation in Neonates**
Benjamin Kozyak, MD
- 1:15 p.m.** **Cardiac Views**
Thomas Pawlowski, MD
- 1:45 p.m.** **LV Systolic Functional Assessment**
Garrett Keim, MD
- 2:15 p.m.** **Break**
- 2:30 p.m.** **Hands-on Skills (Subcostal/IVC, Apical and Parasternal Views)**
- 4:30 p.m.** **Adjourn**

Sunday, June 1, 2025

7:00 a.m. Breakfast

Breakouts

Emergency Medicine/General Pediatrics Breakout Sessions

- 7:30 a.m. Day 1 Review
- 7:45 a.m. POCUS in Hospitalist Medicine
Beryl Greywoode, MD
- 8:15 a.m. Basic and Advanced Procedural Applications
Aaron Chen, MD and Yair Katzir, MD
- 8:45 a.m. Musculoskeletal POCUS
Sarah Schnyder, MD
- 9:15 a.m. Abdominal Ultrasound Beyond the FAST
Jacob Hemberger, MD

Neonatal/Critical Care Breakout Sessions

- 7:30 a.m. Day 1 Review
- 7:45 a.m. Pulmonary Hypertension, Right Ventricular Function, and the PDA
William Corder, MD
- 8:15 a.m. Approach to Shock and Hypotension
W. Luke Burton, MD
- 8:45 a.m. Assessment of Heart/Lung Interactions: The Ultrasound Perspective
Marilena Savoia, MD
- 9:15 a.m. ECMO Cannulation, Monitoring and Ultrasound
Matteo Di Nardo, MD
- 9:45 a.m. Break
- 10:00 a.m. Hands-on Skills (EM/Gen Peds; Abdominal Review; Procedures; Musculoskeletal)

Hands-on Stations (ICU — Shock/Volume, Right Ventricular Function, Left Ventricular Function)
- 12:00 p.m. Working Lunch
- 12:20 p.m. Basics of Head Ultrasound
Maky Fraga, MD
- 12:40 p.m. Ultrasound Education Paradigms
Cara Beth Carr, MD
- 1:00 p.m. POCUS in Lower Resource Settings
Carolyn McGann, MD

- 1:30 p.m.** **Putting it Together: Ultrasound to Improve Complex Decision-making**
Neil Patel, MB ChB, MD
- 2:10 p.m.** **Consideration for Ultrasound Integration in Practice**
All Faculty
- 2:45 p.m.** **Break**
- 3:00 p.m.** **Skill Assessment (GP/EM: FAST/Bladder, IVC/Foreign Body,
Cardiac/Lung, Neonatal/CCM: Cardiac, Lung, Abdomen/Procedure)**
- 4:30 p.m.** **Conference Adjourns**

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

Aaron Chen, MD

Director of Emergency Ultrasound

Thomas Conlon, MD

Director of Pediatric Critical Care Ultrasound

Maky Fraga, MD

Director of N/IICU Ultrasound

Beryl M. Greywoode, MD

Director of General Pediatric Ultrasound

Course Faculty

Proano Falconi Alvaro, MD

Children's Hospital of Philadelphia

David Baker, MD

Hackensack University Medical Center

W. Luke Burton, MD

The University of Alabama at Birmingham

Francis-Olivier Beauchamp, MD

Children's Hospital of Philadelphia

Andrew Becker, MD

Barnabas Health

Erik Brandsma, MD

Children's Hospital of Philadelphia

Mary Kathleen Claiborne, MD

Children's Hospital of Philadelphia

William Corder, MD

Children's Hospital of Philadelphia

Ryan DeSanti, DO

Drexel University College of Medicine

Matteo DiNardo, MD

*Children's Hospital Bambino Gesù,
Rome, Italy*

Christie Glau, MD

Children's Hospital of Philadelphia

Jacob Hemberger, MD

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Adam Himebauch, MD

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Yair Katzir, MD

Hillel Yaffe Medical Center, Israel

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Children's Hospital of Philadelphia

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Stephanie Watts, CRNP

Children's Hospital of Philadelphia

Mark Weber, RN, CRNP-AC

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