



Pediatric Anesthesia Point-of-care Ultrasound Workshop

Saturday, Nov. 5, 2022

Hope Auditorium

Learn more: chop.cloud-cme.com

COURSE OVERVIEW

This course provides an overview of point-of-care ultrasound, with a focus on pediatric anesthesia indications for use in the perioperative period. It is designed for providers with limited or basic knowledge of point-of-care 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 anesthesia practice, including basic cardiac, fluid and function, lung, airway and gastric evaluation, as well as procedural guidance (peripheral and central line placement, neuraxial block). The course is being taught by anesthesia, critical care, cardiology and emergency medicine ultrasound experts, and will have a low student-to-teacher ratio of 4/5 to 1.

IN-PERSON CONFERENCE GUIDELINES RELATED TO COVID

- **ALL faculty and registrants are expected to be vaccinated** by the time of the course. Please reach out to course directors if you are interested in the course but remain unvaccinated.
- **Faculty and learners must be masked** at all times except in designated eating spaces.
- Hands-on stations will have **child models** – many of them will likely be unvaccinated but they will be masked at all times and parents/guardians are expected to be vaccinated.
- *If the course is cancelled for any reason, registration costs will be fully refunded. We cannot refund any expenses for travel/lodging.*

GENERAL INFORMATION

The conference will be held at Children's Hospital of Philadelphia in the Hope Auditorium on Saturday, Nov. 5, 2022.

REGISTRATION FEE – \$250

The registration fee includes breakfast, refreshments, lunch, parking and course materials.

COURSE OBJECTIVES

Upon completion of this course, participants should be able to:

1. Demonstrate core diagnostic ultrasound skills (basic fluid and cardiac function assessment, pulmonary ultrasound, airway and gastric evaluation) using point-of-care ultrasound.
2. Demonstrate core procedural ultrasound skills (peripheral and central line insertion and neuraxial blocks).
3. Discuss appropriate indications and limitations of the bedside ultrasound exam in the pediatric perioperative setting.

ACCME ACCREDITATION STATEMENT

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

AMA CREDIT DESIGNATION STATEMENT

Children's Hospital of Philadelphia designates this live activity for a maximum of 7.75 *AMA PRA Category 1 Credit(s)*[™]. 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 fees, 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 Monday, Oct. 24, 2022. 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

PROGRAM • SATURDAY, NOV. 5, 2022

7 a.m.	Registration and Breakfast
7:30 a.m.	Welcome and Course Overview <i>Elaina Lin, MD</i>
7:45 a.m.	Physics and Fundamentals of Ultrasonography <i>Elizabeth O'Brien, MD</i>
8:15 a.m.	Cardiac Basics <i>Mahsun Yuerek, MD</i>
8:45 a.m.	LV and RV Functional Assessment <i>Benjamin Kozyak, MD</i>
9:15 a.m.	Shock and Hypotension <i>Samuel Rosenblatt, MD</i>
9:45 a.m.	Break
10 a.m.	Hands-on Skills: Subcostal/IVC, Parasternal, Apical Views
Noon	Lunch
12:45 p.m.	Basics of Lung Ultrasound <i>Garrett Keim, MD</i>
1:15 p.m.	Airway & Gastric Ultrasound <i>Elaina Lin, MD</i>
1:45 p.m.	Advanced Vascular Access Techniques and Concepts <i>Mark Weber RN, CRNP-AC, FCCM</i>
2:15 p.m.	Neuraxial Ultrasound <i>Rodrigo Daly-Guris, MBBS, MSc</i>
2:45 p.m.	Break
3 p.m.	Hands-on Skills: Airway/Gastric, Lung, Advanced Vascular Access
4:30 p.m.	Questions/Adjourn

FACULTY

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

COURSE DIRECTORS

Thomas Conlon, MD

Director of Pediatric Critical Care Ultrasound

Assistant Professor of Anesthesiology and Critical Care Medicine

Elaina Lin, MD

Director of Pediatric Anesthesiology Ultrasound

Assistant Professor of Anesthesiology and Critical Care Medicine

Maky Fraga, MD

Co-director of N/IICU Ultrasound

Associate Professor of Clinical Pediatrics, Division of Neonatology

Jason Stoller, MD

Co-director of N/IICU Ultrasound

Associate Professor of Clinical Pediatrics, Division of Neonatology

COURSE FACULTY

Andrew Becker, MD

Fellow, Pediatric Critical Care Medicine

Shazia Bhombal, MD

Clinical Assistant Professor, Pediatrics

Medical Director, NICU Heart Team

Division of Neonatal & Developmental Medicine

Stanford University School of Medicine

Erik Brandsma, MD

Attending Neonatologist

Associate Professor of Clinical Pediatrics, Division of Neonatology

Leah Carr, MD

Attending Physician, Division of Neonatology

Fellow, Department of Biomedical and Health Informatics

William Corder, MD

Fellow, Division of Neonatology

Rodrigo Daly-Guris, MBBS, MSc

Attending Physician, Department of Anesthesiology

Assistant Professor of Anesthesiology and Critical Care Medicine

Ryan DeSanti, DO

Assistant Professor of Pediatrics

Drexel College of Medicine

St. Christopher's Hospital for Children, Philadelphia, PA

Christie Glau, MD

*Attending Physician, Department of Anesthesiology and Critical Care Medicine
Assistant Professor of Anesthesiology and Critical Care Medicine*

Sarah Ginsburg, MD

*Assistant Professor
UT Southwestern*

Ryan Good, MD

*Assistant Professor, Pediatrics- Critical Care Medicine
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Adam Himebauch, MD

*Attending Physician, Department Critical Care Medicine
Assistant Professor of Anesthesiology and Critical Care Medicine*

Greg Johnson, MD

*Attending Physician, Department of Anesthesiology
Assistant Professor of Anesthesiology and Critical Care Medicine*

Summer Kaplan, MD

*Director of Emergency Radiology and Point of Care Ultrasound
Assistant Professor of Clinical Radiology*

Garrett Keim, MD

*Attending Physician, Department Critical Care Medicine
Assistant Professor of Assistant Professor of Clinical Anesthesiology and Critical Care*

Kimberly Kristoff, BSN, RN, CBC

*Clinical Nurse Expert
Neonatal/Infant Intensive Care Unit*

Benjamin Kozyak, MD

*Attending Physician, Cardiac Intensive Care Unit, Cardiac Center
Assistant Professor of Anesthesiology and Critical Care Medicine*

Steven Loscalzo, MD

*Attending Physician Division of Critical Care Medicine
Clinical Instructor, Department of Anesthesiology and Critical Care Medicine*

Carolyn McGann, MD

*Attending Neonatologist, Division of Neonatology
Instructor of Clinical Pediatrics, Division of Neonatology*

Akira Nishisaki, MD, MSCE

*Attending Physician, Pediatric Critical Care Medicine
Associate Medical Director for Clinical Implementation Programs, Critical Care Medicine
Co-Medical Director, Center for Simulation, Advanced Education and Innovation*

Elizabeth O'Brien, MD

*Attending of Physician, Department of Anesthesiology
Instructor, Department of Anesthesiology and Critical Care Medicine*

Levy Onyango, MD

Radiologist

Instructor of Clinical Radiology

Thomas Pawlowski, MD

Attending Physician, Division of Neonatology

Assistant Professor, Division of Neonatology

Francesco Raimondi, MD, PhD

Professor of Pediatrics and Chief of Neonatology

University of Naples, Italy

Steffen Schmidt, MD

Senior Physician Emergency Department Paediatrics and Adolescent Medicine

University Hospital Bern, Switzerland

Nicole Sekarski, MD

Associate Professor and Division Chief Pediatric Cardiology

University Hospital Lausanne, Switzerland

Alexandra Vinograd, MD, MSHP, DTM&H

Attending Physician, Division of Emergency Medicine

Assistant Professor of Pediatrics

Mark Weber, RN, CRNP-AC, FCCM

Nurse Practitioner, Department of Anesthesiology and Critical Care Medicine

Eric Will, MS, PA-C

Neonatal Physician Assistant, Division of Neonatology

Nadya Yousef, MD, MSc

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Attending Physician, Division of Cardiac Critical Care Medicine

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