Neonatology and Critical Care Point-of-care Ultrasound Course

Saturday, Nov. 17, and Sunday, Nov. 18, 2018

Ruth and Tristram Colket, Jr. Translational Research Building on the Raymond G. Perelman Campus

Learn more: chop.cloud-cme.com
COURSE OVERVIEW
This course is focused on neonatal and pediatric critical care point-of-care ultrasound. It is designed for neonatal, critical care and anesthesia providers with limited or basic knowledge of bedside ultrasonography. 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 neonatal and pediatric practice, including: basic procedural guidance (central line placement, arterial access, lumbar puncture, suprapubic tap, etc.); bladder scanning; FAFF (focused assessment of free abdominal fluid); lung evaluation; basic cardiac evaluation; and fluid and cardiac function. The course is being taught by neonatologists, cardiologists, emergency medicine physicians, anesthesiologists and critical care medicine ultrasound experts, and will have a low student-to-teacher ratio of 4-to-1. A limited portion of this 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.

GENERAL INFORMATION
The conference will be held at Children’s Hospital of Philadelphia in the Ruth and Tristram Colket, Jr. Translational Research Building on the Raymond G. Perelman Campus on Saturday, Nov. 17, and Sunday, Nov. 18, 2018.

REGISTRATION FEES
Physicians.................................................................$900
Fellows, nurse practitioners and CHOP-affiliated providers.........$450

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

COURSE OBJECTIVES
Upon completion of this course, participants should be able to:
• Demonstrate core nonprocedural ultrasound skills (basic fluid and cardiac function assessment, abdominal ultrasounds, pulmonary ultrasounds and cranial ultrasounds) using bedside ultrasound
• Demonstrate core procedural ultrasound skills (intravenous line insertion and fluid drainage)
• Discuss appropriate indication and limitation of bedside ultrasound exam in a neonatal acute care 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 16 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

HOTEL ACCOMMODATIONS
Rooms have been reserved at reduced rates at the Sheraton University City. The Sheraton is located in the heart of the University of Pennsylvania’s bustling campus. The Sheraton has convenient access to Center City Philadelphia, Amtrak’s 30th Street Station, I-76 and Philadelphia International Airport. The special rate for a single or double occupancy room is $172 plus a 16.25 percent room tax. Participants are required to make their own hotel reservations by calling the Sheraton directly at 888-627-7071. Please mention the name of the conference when making your reservations. This special room rate will be available until TBD. After that date, reservations will be accepted based on space and rate availability.

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, less a $50 service 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, Oct. 26, 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.

Register online: chop.cloud-cme.com
PROGRAM • SATURDAY, NOV. 17, 2018

7 a.m.  Registration and Continental Breakfast

7:30 a.m.  Welcome and Course Overview  
*Maky Fraga, MD; Jason Stoller, MD; Thomas Conlon, MD*

7:45 a.m.  Physics and Fundamentals of Ultrasonography  
*Michael McWay, MD*

8:15 a.m.  Vascular Access: Peripheral, Central and Arterial Line Placement  
*Jesse Wenger, MD*

8:30 a.m.  Abdominal Ultrasound: Introduction to FAFF, Bladder Assessment and Paracentesis  
*Steffen Schmidt, MD*

9:15 a.m.  Lung Ultrasound: Pneumonia, Pneumothorax and Pleural Effusions  
*Adam Himebauch, MD*

9:45 a.m.  Break

10 a.m.  Hands-on Skills: Vascular Access/Abdomen/Chest

Noon  Lunch • Lumbar Puncture, Neonatal Vascular Access  
*Erik Brandsma, MD; Maky Fraga, MD*

1 p.m.  Basic Cardiac Views  
*Cecile Tissot, MD*

2:15 p.m.  Ultrasound Assessment of Shock and Hypotension  
*Thomas Conlon, MD*

2:45 p.m.  Break

3 p.m.  Hands-on Skills: Subcostal, Parasternal and Apical Views

5 p.m.  Adjourn
PROGRAM • SUNDAY, NOV. 18, 2018

7 a.m.  Continental Breakfast

7:30 a.m.  Brief Review

7:45 a.m.  Volume Assessment
  Christie Glau, MD

8:15 a.m.  Left Ventricular Functional Assessment
  Alan M. Groves, MD, MB, ChB

9 a.m.  PDA and Right Ventricular Functional Assessment
  Shazia Bhombal, MD

9:45 a.m.  Break

10 a.m.  Hands-on Skills: Right and Left Ventricular Assessment, Shock and Volume Assessment
  Speaker?

Noon  Lunch • Critical Care Cases: Introduction to NEC and Head Ultrasound
  Sarah Ginsburg, MD; Misun Hwang, MD

1 p.m.  Point-of-care Ultrasound: The International Experience
  Pierre Tissieres, MD, PhD

1:30 p.m.  Point-of-care Ultrasound Education
  Jason Stoller, MD

2 p.m.  Knowledge Assessment: Critical Review of Ultrasound Scans
  Maky Fraga, MD; Jason Stoller, MD; Thomas Conlon, MD

2:15 p.m.  Break

2:30 p.m.  Hand-on Skills: Case-based Cardiac, Lung/Abdomen, Vascular Access

4 p.m.  Questions — Course Evaluation — Adjourn
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, Pediatric Critical Care Ultrasound*  
*Assistant Professor of Anesthesiology and Critical Care Medicine*

**Maky Fraga, MD**  
*Director, N/IICU Ultrasound*  
*Associate Professor of Clinical Pediatrics, Division of Neonatology*

**Jason Stoller, MD**  
*Associate Director, N/IICU Ultrasound*  
*Associate Professor of Clinical Pediatrics, Division of Neonatology*

**Course Faculty**

**Sonali Basu, MD**  
*Assistant Professor of Pediatrics and Critical Care Medicine*  
*Department of Pediatric Critical Care*  
*Children’s National Medical Center*

**Shazia Bhombal, MD**  
*Medical Director, NICU Heart Team*  
*Division of Neonatal & Developmental Medicine*  
*Clinical Assistant Professor, Pediatrics*  
*Stanford University School of Medicine*

**Erik Brandsma, MD**  
*Assistant Professor of Clinical Pediatrics, Division of Neonatology*

**Sarah Ginsburg, MD**  
*Clinical Fellow, Pediatric Critical Care Medicine*

**Christie Glau, MD**  
*Clinical Instructor, Anesthesiology and Critical Care Medicine*

**Alan M. Groves, MD, MB, ChB**  
*Associate Professor of Pediatrics, Division of Newborn Medicine*

**Adam Himebauch, MD**  
*Assistant Professor of Anesthesiology and Critical Care Medicine*

**Misun Hwang, MD**  
*Assistant Professor of Radiology*

**Laura Kinneman, MD**  
*Ultrasound Fellow, Department of Emergency Medicine*