Pediatric Emergency Medicine, Neonatal and Critical Care Medicine:

Bedside Ultrasound Course

Saturday and Sunday, June 3 and 4, 2017

Ruth and Tristram Colket, Jr. Translational Research Building





A MISE EN GARDE :

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 pediatric emergency medicine, neonatal 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 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.

GENERAL INFORMATION

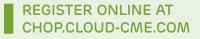
The conference will be held at Children's Hospital of Philadelphia in the Ruth and Tristram Colket, Jr. Translational Research Building, June 3-4, 2017. The course registration fees are as follows:

Physicians:\$800	
Fellows, nurse practitioners and CHOP-affiliated providers:\$400	
Medical Students and Residents:\$100	
The fee includes continental breakfeet refreshments lunch perlinge	

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

TARGET AUDIENCE

Pediatric emergency medicine, neonatal and critical care medicine providers.



COURSE OBJECTIVES

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

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 15.75 AMA PRA Category 1 Credit(s)^m.

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 \$40 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, May 19, 2017. 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 AT CHOP.CLOUD-CME.COM

PROGRAM — SATURDAY, JUNE 3, 2017

7 a.m.	Registration and Continental Breakfast Aaron Chen, MD, FACEP; Thomas Conlon, MD; Maky Fraga, MD
7:30 a.m.	Welcome and Course Overview
7:45 a.m.	Physics and Fundamentals of Ultrasonography Philip T. Levy, MD
8:15 a.m.	Hands-on Skills – Knobology and Machine Basics
8:45 a.m.	Introduction to FAST/FAFF Alyssa Abo, MD
9:15 a.m.	Vascular Access – Peripheral, Central and Arterial Line Placement Sonali Basu, MD
9:45 a.m.	Lung Ultrasound — Pneumonia, Pneumothorax and Pleural Effusions Adam Himebauch, MD
10:15 a.m.	Break
10:30 a.m.	Hands-on Skills – FAST/FAFF, Vascular Access, Lung
12:30 p.m.	Lunch — Ultrasound Cases and Discussion J. Kate Deanehan, MD, RDMS; Erik Brandsma, MD
1:30 p.m.	Basic Cardiac Views Jason Stoller, MD
2 p.m.	Ultrasound Assessment of Shock and Hypotension Thomas Conlon, MD
2:30 p.m.	Break
2:45 p.m.	Hands-on Skills – Subcostal, Apical and Parasternal Views
4:30 p.m.	Adjourn

PROGRAM — SUNDAY JUNE 4, 2017

7 a.m.	Continental Breakfast
7:30 a.m.	Welcome and Day Two Overview
7:45 a.m.	Brief Review
8 a.m.	Basic Procedures — Abscess, Foreign Body, Bladder, Spinal Tap, Paracentesis Aaron Chen, MD, FACEP
8:30 a.m.	Break (break into EM and Neonatal/CCM groups)
8:45 a.m.	BREAKOUTS

**** EM BREAKOUT SESSIONS ****

- 1. Ocular Pathology Evaluated by Point-of-care Ultrasound Ronald F. Marchese, MD
- 2. Abdominal Ultrasonography in Pediatric Emergency Medicine Rachel Rempell, MD
- 3. Musculoskeletal Applications Summer Kaplan, MD, MS

****NEONATAL/CRITICAL CARE BREAKOUT SESSIONS ****

- 1. Left Ventricular Functional Assessment Alan M. Groves, MD, MB, ChB
- 2. Pulmonary Hypertension and Right Ventricular Function Laura Mercer-Rosa, MD, MSCE
- 3. Volumetric Assessment Christie Glau, MD

10:15 a.m.	Break
10:30 a.m.	Hands-on Skills – Abscess, IV, Shock Assessment
12:15 p.m.	Working Lunch — Ultrasound Cases/Image Review Maky Fraga, MD; Erik Su, MD
1 p.m.	Point-of-Care Ultrasound Education Akira Nishisaki, MD, MSCE, FAAP

PROGRAM — SUNDAY JUNE 4, 2017 continued

1:30 p.m.	Knowledge Assessment: Critical Review of US Scans Aaron Chen, MD, FACEP; Thomas Conlon, MD; Maky Fraga, MD
2:15 p.m.	Break
2:30 p.m.	Skill Assessment EM: FAST, IV, Bladder, Foreign Body, Cardiac/Lung Neonatal/CCM: Cardiac, Lung, IVC Assessment, Procedural
4:15 p.m.	Questions and Answers • Course Evaluation
4:30 p.m.	Adjourn

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

COURSE DIRECTORS

Aaron Chen, MD, FACEP Director, Emergency Ultrasound Division of Pediatric Emergency Medicine Associate Professor of Clinical Pediatrics

Thomas Conlon, MD Director, Pediatric Critical Care Ultrasound Department of Anesthesiology and Critical Care Assistant Professor of Anesthesiology and Critical Care Medicine

Maky Fraga, MD Director, Harriet and Ronald Lassin Newborn/Infant Intensive Care Unit Ultrasound Division of Neonatology Assistant Professor of Clinical Pediatrics

COURSE FACULTY

Alyssa Abo, MD Associate Director, Emergency Ultrasound Division of Emergency Medicine Children's National Medical Center Assistant Professor of Pediatrics and Emergency Medicine George Washington University School of Medicine

Sonali Basu, MD Department of Critical Care Medicine Children's National Medical Center Assistant Professor of Pediatrics and Critical Care Medicine George Washington University School of Medicine

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

Lei Chen, MD, MHS

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Christie Glau, MD

Department of Anesthesiology and Critical Care Medicine Clinical Instructor, Anesthesiology and Critical Care Medicine

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