

# PEDIATRIC POINT-OF-CARE ULTRASOUND BASIC & ADVANCED COURSE

Provided by the University of California, San Diego School of Medicine

## KEY NOTE SPEAKER

**Jennifer R. Marin, MD, MSc**

Director of Emergency Ultrasound  
Division of Pediatric Emergency Medicine  
University of Pittsburgh School of Medicine

**April 13-14<sup>th</sup>, 2017**

Rady Children's Hospital-San Diego  
3020 Children's Way San Diego, CA 92123

## GUEST SPEAKER:

**Tarina Lee Kang, MD, FACEP**

Chief of Emergency Ultrasound Division  
Department of Emergency Medicine  
USC Keck School of Medicine

## COURSE DIRECTORS:

**Atim Uya, MD, FAAP**

Point-of-Care Ultrasound Director  
Division of Emergency Medicine  
Assistant Clinical Professor of Pediatrics  
University of California, San Diego

**Kathleen M. Smith, MD, MPH**

Clinical Professor of Pediatrics  
University of California, San Diego

## COURSE DESCRIPTION

This course will familiarize the targeted audience to the uses of Point-of-Care Ultrasound with respect to the emergent and critically ill pediatric patient. It includes basic, advanced, and critical care applications and combines lectures with 8 hours of hands-on scanning on live models and phantoms. Breakout sessions will include critical care (ultrasound in the undifferentiated hypotensive patient, advanced cardiac evaluation) soft tissue and musculoskeletal sessions (evaluation of lymph nodes, shoulder, elbow, hip, and knee joint evaluation, fracture evaluation and nerve blocks). Supervision is provided by Point-of-Care Ultrasound trained faculty and Emergency physicians.

**Target audience:** Practicing physicians and mid-level providers in Pediatrics, Emergency medicine, Pediatric emergency medicine, other Pediatric sub-specialists.

**At the conclusion of this activity, the participants should be able to:**

- Describe how physics relates to ultrasound image acquisition and processing
- Summarize how ultrasound instruments affect image acquisition
- Review relevant literature pertinent to Pediatric Point-of-Care Ultrasound
- Identify the indications for and limitations for Point-of-Care Ultrasound in Pediatric Emergency Medicine
- Recognize the relevant focused findings and pitfalls associated with Pediatric Point-of-Care Ultrasound basic and advanced applications
- Be familiar with scanning techniques for different ultrasound applications

The University of California, San Diego School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The University of California, San Diego School of Medicine designates this Live Activity for a maximum of **16.0 AMA PRA Category 1 Credit(s)<sup>™</sup>**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This CME activity meets the requirements under California Assembly Bill 1195, continuing education and cultural linguistic competency.

*It is the policy of the University of California, San Diego School of Medicine to ensure balance, independence, objectivity and scientific rigor. All persons involved in the selection, development and presentation of content are required to disclose any real or apparent conflicts of interest. All conflicts of interest will be resolved prior to an educational activity being delivered to learners through one of the following mechanisms 1) altering the financial relationship with the commercial interest, 2) altering the individual's control over CME content about the products or services of the commercial interest, and/or 3) validating the activity content through independent peer review. All persons are also required to disclose any discussions of off label/unapproved uses of drugs or devices. Persons who refuse or fail to disclose will be disqualified from participating in the CME activity.*

## SPACE IS LIMITED!

Details and registration:

[www.regonline.com/OCMPP17](http://www.regonline.com/OCMPP17)

Questions?

(858) 966-8036

Dr. Atim Uya (auya@ucsd.edu)

Vy Tran (ntran@rchsd.org)



# PEDIATRIC POINT-OF-CARE ULTRASOUND **BASIC & ADVANCED COURSE** 2017 AGENDA

**Thursday, April 13<sup>th</sup>, 2017**

07:00 am	Check In, Breakfast, and Pre-Course Survey
07:45 am	Welcome and Introduction
08:00 am	Physics and Knobology
08:30 am	<b>HANDS ON ACTIVITY: PHYSICS AND KNOBOLOGY</b>
09:00 am	Focused Assessment in Trauma (FAST) Exam
09:30 am	Lung Ultrasound
10:00 am	Break
10:15 am	<b>HANDS ON SESSION: FAST/LUNG</b>
10:45 am	Cardiac Ultrasound: Basic (Anatomy, Pericardial Effusion, Tamponade)
11:15 am	Rapid Ultrasound for Shock and Hypotension (RUSH)
11:45 am	<b>HANDS ON SESSION: CARDIAC AND RUSH</b>
12:30 pm	Case Discussions and Lunch
01:30 pm	Musculoskeletal: Basic (Cellulitis, Abscess, Fractures, Foreign Body)
02:00 pm	Vascular Access (Central and Peripheral)
02:30 pm	<b>HANDS ON SESSION: VASCULAR ACCESS AND MUSCULOSKELETAL</b>
04:00 pm	Break
04:15 pm	Case Discussions
05:15 pm	Adjourn and Social Hour



# PEDIATRIC POINT-OF-CARE ULTRASOUND BASIC & ADVANCED COURSE 2017 AGENDA

## Friday, April 14<sup>th</sup>, 2017

08:15 am	Check In and Breakfast
08:45 am	Welcome
09:00 am	Critical Care and Musculoskeletal/Soft Tissue Workshops (Split Sessions) <i>See details below.</i>
12:00 pm	Case Discussions and Lunch
01:00 pm	Abdomen (Appendicitis, Intussusception, Pyloric Stenosis, Gallbladder)
01:45 pm	<b>HANDS ON SESSION: ABDOMEN</b>
02:30 pm	Break
02:45 pm	Ocular
03:05 pm	<b>HANDS ON SESSION: OCULAR</b>
03:30 pm	Case Review, Post-Course Survey, and Evaluations
05:00 pm	Adjourn

**Musculoskeletal/ Soft Tissue Workshop:** Joint evaluation (shoulder, elbow, hip, knee), Lymph node assessment, Peritonsillar abscess assessment (anatomy, pitfalls), Nerve blocks (upper and lower extremity)

**Critical Care Workshop:** Using POCUS in congenital heart disease, RUSH exam, DVT evaluation, Volume assessment, Left ventricular function / dysfunction, pulmonary hypertension, using Doppler to evaluate flow

This course is designed to cater to Point-of-Care ultrasound enthusiasts with different levels of experience. Participants will be grouped together for the hands on session based on experience level. This will allow for focused teaching during these sessions, preventing less experienced learners from getting overwhelmed.

The workshops are split similarly. Please do not select the critical care workshop if you do not have a basic understanding of cardiac POCUS and have not performed at least 20 cardiac POCUS exams previously. You may be given an opportunity to cross over to a different workshop, time permitting.