

# ***Perioperative Ultrasound Symposium and Workshops***

## ***June 12-14, 2020***



***UPMC Shadyside Herberman Conference Center  
5150 Centre Avenue, Pittsburgh, PA 15232***

***University of Pittsburgh Peter M. Winter Institute  
for Simulation, Education, and Research (WISER)  
230 McKee Place Suite 300, Pittsburgh, PA 15213***

***Program Chair – Aman Mahajan, MD, PhD, MBA***

***Course Directors - Kathirvel Subramaniam, MD, MPH, FASE and Steven L. Orebaugh, MD***

### **Program Overview:**

The University of Pittsburgh Physicians Department of Anesthesiology and Perioperative Medicine and the University of Pittsburgh School of Medicine Center for Continuing Education will sponsor the Perioperative Ultrasound Symposium and Workshops.

This meeting will focus on enhancing the knowledge and skills of physicians using point-of-care ultrasound with an emphasis on echocardiography, lung ultrasound, assessment of gastric contents, and vascular ultrasound, as well as the use of ultrasound to guide peripheral nerve blockade in the trunk and extremities. The program is notable for its comprehensive approach to the use of ultrasound for both diagnostic purposes and to guide specific therapeutic interventions. This symposium consists of both workshops and lectures. The Basic Transesophageal Echocardiography (TEE) Bootcamp is intended to help noncardiac anesthesiologists learn basic TEE skills to evaluate hemodynamic instability/hypoxemia during the perioperative period. This bootcamp is also aimed to prepare trainees and physicians for the National Board of Echocardiography basic TEE examination.

**Friday, June 12, 2020**

- **Basic Transesophageal Echocardiography (TEE) Bootcamp, 1:00 pm – 8:00 pm, UPMC Shadyside Herberman Conference Center**
- **Peripheral Nerve Blockade Cadaver Workshop, 1:00 pm – 5:00 pm, WISER**

**Saturday and Sunday, June 13 & 14, 2020, Symposium and Workshops at Herberman Conference Center**

- **Point-of-care Ultrasound (POCUS)**
- **Basic Echocardiography (Transthoracic and Transesophageal)**
- **Regional Anesthesia**
- **Ultrasound-guided Nerve Blocks**

### **Target Audience:**

This CME offering is designed to unite anesthesiologists, surgeons, intensivists, and critical care, emergency medicine, and other acute care and perioperative medicine physicians and trainees in a collaborative educational program.

### **Learning Objectives:**

Upon conclusion of the program, attendees should be able to:

- Understand the four standard views to image the heart with transthoracic ultrasound; diagnose common pathologic states such as hypovolemia, pump failure, cardiac tamponade, and severe valvular dysfunction
- Use ultrasound to image the lung, recognizing normal sonographic features; identify how pathologic pulmonary states would appear, including interstitial syndrome, pulmonary edema, consolidation, and pleural effusion
- Utilize ultrasound imaging to evaluate gastric contents and assess the impact of these contents on the risk of aspiration during anesthesia
- Use ultrasound to evaluate vascular integrity, specifically to exclude deep venous thrombosis in the veins of the lower extremities
- Utilize ultrasound to effectively identify and cannulate central veins
- Understand musculoskeletal sonoanatomy in the extremities to identify peripheral nerves
- Utilize ultrasound to guide needle placement and injectate deposition near nerves in the extremities for peripheral nerve blockade
- Identify the sonoanatomy of various tissue planes in the trunk to facilitate plane blocks such as TAP block, quadratus lumborum block, PEC block, serratus plane block, and erector spinae plane block
- Help trainees and physicians successfully pass the National Board of Echocardiography examinations

**Registration Fee Schedule:**

	Fee on or before April 30, 2020	Fee on or after May 1, 2020
UPMC Physician Basic TEE Bootcamp	\$100.00	\$150.00
UPMC Physician Cadaver Workshop	\$300.00	\$350.00
UPMC Physician Saturday/Sunday	\$150.00	\$200.00
UPMC Physician TEE plus Sat/Sun	\$250.00	\$350.00
UPMC Physician Cadaver plus Sat/Sun	\$450.00	\$550.00
Non-UPMC Physician Basic TEE Bootcamp	\$125.00	\$200.00
Non-UPMC Physician Cadaver Workshop	\$400.00	\$450.00
Non-UPMC Physician Saturday/Sunday	\$200.00	\$350.00
Non-UPMC Physician TEE plus Sat/Sun	\$325.00	\$550.00
Non-UPMC Physician Cadaver plus Sat/Sun	\$725.00	\$800.00
UPMC Residents/Fellows Basic TEE Bootcamp	\$0.00	\$50.00
UPMC Residents/Fellows Cadaver Workshop	\$50.00	\$100.00
UPMC Residents/Fellows Saturday and Sunday	\$0.00	\$50.00
UPMC Residents and Fellows TEE plus Sat/Sun	\$100.00	\$150.00
UPMC Residents and Fellows Cadaver plus Sat/Sun	\$100.00	\$150.00
Non-UPMC Resident/Fellow Basic TEE Bootcamp	\$100.00	\$150.00
Non-UPMC Residents/Fellows Cadaver Workshop	\$200.00	\$250.00
Non-UPMC Residents/Fellows Saturday and Sunday	\$100.00	\$150.00
Non-UPMC Residents-Fellows TEE plus Sat/Sun	\$150.00	\$200.00
Non-UPMC Residents-Fellows Cadaver plus Sat/Sun	\$200.00	\$250.00

**CME Accreditation and Designation Statements:**

In support of improving patient care, the University of Pittsburgh 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.

**Physicians (CME)**

The University of Pittsburgh designates this live activity for a maximum of **15.25 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Other Healthcare Professionals**

Other health care professionals will receive a certificate of attendance confirming the number of contact hours commensurate with the extent of participation in this activity.

Registration available at: <https://cce.upmc.com/ultrasound-anesthesiologists#group-tabs-node-course-default1>

- Friday registration for the TEE Bootcamp and cadaver workshop are separate and will include access to course materials, snacks during breaks, and dinner after the program.
- Saturday/Sunday registration will include access to course materials, conference attendance on both days, breakfast, lunch, breaks, and an evening reception on Saturday, and both breakfast and a morning break on Sunday.
- For those who are not registered, a \$50.00 fee will be charged for the reception.

All cancellations must be made in writing and sent via U.S. mail, email, or fax (Attention Barb Novak Chismar [chisbn@upmc.edu](mailto:chisbn@upmc.edu); fax: 412-692-4515; 3471 Fifth Avenue Suite 402, Pittsburgh, PA 15213). Tuition for cancellations postmarked or date stamped before May 16, 2020 will be refunded in full. On or after May 16, 2020, a \$100.00 administrative fee will be assessed, and the remaining amount will be refunded. No refunds will be made after June 1, 2020.

## PERIPHERAL NERVE BLOCKADE CADAVER WORKSHOP - Friday, June 12, 2020

Director – Steven L. Orebaugh, MD

University of Pittsburgh

Peter M. Winter Institute for Simulation, Education, and Research (WISER)

TIME	TITLE	INSTRUCTOR
12:30pm – 1:00 pm		Registration
1:00 pm – 2:30 pm	Peripheral Nerve Blockade Cadaver Workshop	Steven L. Orebaugh, MD Mihaela Visoiu, MD Paul Bigeleisen, MD Karen Boretsky, MD
2:30 pm – 2:45 pm		Refreshment Break
2:45 pm – 5:00 pm	Peripheral Nerve Blockade Cadaver Workshop	Steven L. Orebaugh, MD Mihaela Visoiu, MD Paul Bigeleisen, MD Karen Boretsky, MD
5:00 pm		Adjournment

## BASIC TEE BOOTCAMP - Friday, June 12, 2020

Director – Kathirvel Subramaniam, MD, MPH, FASE

UPMC Shadyside Herberman Conference Center

TIME	TITLE	SPEAKER
12:30 pm – 1:00 pm		Registration and Exhibitors
1:00 pm – 1:30 pm	Introduction to Basic TEE Views	Harikesh Subramaniam, MBBS
1:30 pm – 2:00 pm	Artifacts and Anatomic Variants	Shiva M. Sale, MD
2:00 pm – 2:30 pm	Evaluation of Right Ventricular Function	Joshua Knight, MD
2:30 pm – 3:00 pm	Evaluation of Left Ventricular Function	Swapnil Khoche, MD
3:00 pm – 3:20 pm		Refreshment Break and Exhibitors
3:20 pm – 3:50 pm	Basics of Ultrasound	Kathirvel Subramaniam, MD, MPH, FASE
3:50 pm – 4:20 pm	Evaluation of Mitral and Tricuspid Valve	Michael L. Boisen, MD
4:20 pm – 4:45 pm	Evaluation of Aortic Valve and Aorta	Stephen McHugh, MD
4:45 pm – 5:15 pm	Evaluation of Hemodynamic Instability in Anesthesia and Critical Care	Theresa Gelzinis, MD
5:15 pm – 5:30 pm		Refreshment Break and Exhibitors
5:30 pm – 7:00 pm		BASIC TEE QUIZ
7:00 pm		Adjournment

### **Lodging:**

The conference has contracted a limited number of hotel rooms at the Courtyard by Marriott, Shadyside ([www.courtyardshadyside.com](http://www.courtyardshadyside.com)). The discounted group rate of \$129.00/night plus applicable taxes and parking is available for conference attendees, guaranteed through May 22, 2020. Early registration is encouraged to ensure getting the group room rate. [Book your group rate for UPMC Anesthesiology](#)

### **The Americans with Disabilities Act Information:**

Participation by all individuals is encouraged. Advance notification of any special needs will help us provide better service. Please notify us of your needs at least two weeks in advance of the program by calling Barb Novak Chismar at 412-692-4505.

PERIOPERATIVE ULTRASOUND SYMPOSIUM  
UPMC Shadyside Herberman Conference Center

Saturday, June 13, 2020

TIME	TITLE	SPEAKER
7:00 am – 7:45 am	Registration, Breakfast and Exhibitors	
7:45 am – 8:00 am	Welcome	Aman Mahajan, MD, PhD, MBA
8:00 am – 8:20 am	Upper Extremity Block Update	Kristin Ondecko Ligda, MD, FASA
8:20 am – 8:40 am	Lower Extremity Block Update	Carl Rest, MD
8:40 am – 9:00 am	Chest Wall Blocks	Nicholas Schott, MD
9:00 am – 9:20 am	Adjuvants in Regional Anesthesia	Brian Williams, MD, MBA
9:20 am – 9:40 am	Refreshment Break and Exhibitors	
9:40 am – 10:00 am	Focused Transthoracic Ultrasound	Kathirvel Subramaniam, MD, MPH, FASE
10:00 am – 10:20 am	Lung Ultrasound	Mourad Senussi, MD
10:20 am – 10:40 am	Ultrasound-guided Vascular Access	Brian Gierl, MD
10:40 am – 11:00 am	Other applications of POCUS	Michael L. Boisen, MD
11:00 am – 12:00 pm	Lunch and Exhibitors	
12:00 pm – 12:20 pm	Pediatric Pain: General Approach	Franklyn Cladis, MD
12:20 pm – 12:40 pm	Pediatric Truncal Blocks	Karen Boretzky, MD
12:40 pm – 1:00 pm	Pediatric Paravertebral Blocks and Erector Spinae Plane Blocks	Mihaela Visoiu, MD
1:00 pm – 1:30 pm	Refreshment Break and Exhibitors	
1:30 pm – 5:00 pm	Hands on Workshops Point of Care Ultrasound and Paravertebral Nerve Blockade	Steven L. Orebaugh, MD Kathirvel Subramaniam, MD, MPH, FASE
5:00 pm	Adjournment	

**PERIOPERATIVE ULTRASOUND SYMPOSIUM**  
**UPMC Shadyside Herberman Conference Center**  
**Sunday, June 14, 2020**

TIME	TITLE	SPEAKER
7:30 am – 8:00 am	Breakfast	
8:00 am – 8:20 am	New Concepts in Injectate Disposition for Optimal Nerve Blockade	Paul Bigeleisen, MD
8:20 am – 9:00 am	Continuous Peripheral Nerve Block Update	Amanda Monahan, MD
9:00 am – 9:20 am	Complications and Outcomes after Peripheral Nerve Blockade	Steven L. Orebaugh, MD
9:20 am – 10:00 am	Optimizing Multimodal Analgesia to Complement Nerve Blockade	Charles Lin, MD
10:00 am – 10:20 am	Refreshment Break and Exhibitors	
10:20 am - 11:00 am	Problem based Discussion/Cases in Regional Anesthesia	Steven L. Orebaugh, MD
11:00 am – 11:30 am	Problem based Discussions/Cases on Point-of-Care Ultrasound	Kathirvel Subramaniam, MD, MPH, FASE
11:30 am – 12:00 pm	Problem based Discussions/Cases on Basic Transesophageal Echocardiography	Michael L. Boisen, MD
12:00 pm – 12:15 pm	Conclusions	Steven L. Orebaugh, MD Kathirvel Subramaniam, MD, MPH, FASE
12:15 pm	Adjournment	

***Faculty List:***

Aman Mahajan, MD, PhD, MBA  
 Peter & Eva Professor and Chair

University of Pittsburgh/UPMC Dept. of Anesthesiology & Perioperative Medicine  
Professor of Anesthesiology and Perioperative Medicine, Bioinformatics, and Pharmacology  
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