

## Optional Point of Care Ultrasound (POCUS) Workshop

This hands-on workshop (live education only) will be offered on Sunday (2/16) and Monday (2/17) afternoon from 2-5 PM

### 2:00- 2:10 Course Introduction

- Review application for ultrasound in perioperative management
- Outline learner goals and course structure
- Outline course goals (obtain basic views for vascular access, cardiac exam, lung exam)

### 2:10- 2:40 Vascular access

- Each station will be equipped with 1 ultrasound, an IV kit, 1 live model, 1 blue phantom, and 1 bedside laptop/iPad

#### Objectives:

- Identify important vascular anatomy
- Differentiate artery vs. vein
- Review technique for image acquisition in transverse and longitudinal view
- Demonstrate line placement guided in real-time by ultrasound (arterial, central venous, peripheral venous cannulation)

### 2:40- 4:00 Cardiac

	View	Station 1	Station 2	Station 3	Station 4	Station 5
2:40- 3:00	PSLx	Group 1	Group 2	Group 3	Group 4	Group 5
3:00- 3:20	PSSx	Group 5	Group 1	Group 2	Group 3	Group 4
3:20- 3:40	A4C	Group 4	Group 5	Group 1	Group 2	Group 3
3:40- 4:00	SC	Group 3	Group 4	Group 5	Group 1	Group 2

- Groups will rotate among 4 stations for basic TTE views. Each instructor will teach the same view per time interval.
- Each station will have 1 ultrasound machine, 1 human model, and 1 bedside laptop/iPad

#### Objectives

- Review technique for acquisition of parasternal long/short, apical, and subcostal views
- Review common trouble-shooting techniques for image optimization
- Identify structures and important uses for each view

### 4:00- 4:25 Lung

- Each station will have 1 human model, 1 ultrasound machine, and 1 bedside laptop/iPad

#### Objectives:

- Identify findings associated with normal and pathologic lung anatomy (pneumothorax, pleural effusion, and lung consolidation)

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- Differentiate M-mode vs. B-mode, linear vs. phased-array probes
- Review limitations of lung ultrasound

### 4:25- 4:50 Approach to respiratory failure or shock

- Each station will have 1 human model, 1 ultrasound machine, and 1 bedside laptop/iPad

#### Objectives:

- Review algorithmic approach to assessment of respiratory failure or shock
- Review ultrasound imaging of common pathologies encountered in respiratory failure or shock

### 4:00-4:50 Upper and Lower Extremity Nerve Blocks (alternative option to stations on Lung and Resp/Failure Shock)

#### Objectives:

- Identify nervous structures of the upper extremity to facilitate performance of blocks that allow surgery on the shoulder, elbow, and/or wrist/hand
- Identify nervous structures of the lower extremity to facilitate performance of blocks that allow surgery on the knee

### 4:50- 5:00 Wrap-Up/Questions