

### COURSE DIRECTOR

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Vice Chair for Professional Affairs  
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Division of Regional Anesthesia and Liver Transplant  
Basic and Advanced FATE Certification

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### GUEST FACULTY

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**Ron Wofford, RDCSCour**  
Lead Technician  
Technical Director of Echocardiography  
Lab

### **PRE-CONFERENCE STUDY**

Pre-study is strongly encouraged prior to participating in the conference, to gain familiarity with basic images and to facilitate the hands-on skills acquisition part of the course. Suggested websites for e-learning include USABCD.org for interactive e-learning modules at <http://usabcd.org/elearning> Click on the Basic Cardiac Ultrasound (FATE) module for further information. Access to this module requires a separate fee. Other free online links include the Point of Care Ultrasound site hosted by Toronto General Hospital Department of Anesthesia at <https://pie.med.utoronto.ca/POCUS/index.htm>

### **DISCLOSURES**

This activity has been planned and implemented under the sole supervision of the course directors in association with the UNC Office of Professional Development (UNC CPD). This activity has not received any financial support as defined by the ACCME. None of the planners, presenters, or UNC CPD staff have financial relationships with commercial interests.

### **CONFERENCE LOCATION**

The course will be held at the University of North Carolina School of Medicine Clinical Skills and Patient Simulation Center, Third Floor, 316 Berryhill Hall, 150 Medical Drive, Chapel Hill, NC 27599.

For directions: [www.med.unc.edu/csc/about/directions-the-skills-center](http://www.med.unc.edu/csc/about/directions-the-skills-center)

### **PARKING**

Parking for attendees can be found in the Dogwood Deck, the patient and visitor deck at UNC Hospitals. It is located at 101 Manning Drive, Chapel Hill, NC 27514. The conference location is a 10 minute walk from the parking facility.

### **ACCOMMODATIONS**

For out of town visitors, discounted room rates are available at the Hyatt Place in Chapel Hill. For reservations, call 919-929-9511 and mention "UNC Point of Care Course" to obtain the discounted rate of \$124/night. **Rates expire: October 3, 2017.**

# Introduction to Perioperative Point-of-Care Ultrasound and Focused Assessed Transthoracic Echocardiography Conference

**November 4, 2017 • 7:30 am - 5:30 pm**  
**UNC School of Medicine Clinical Skills  
and Patient Simulation Center**



**UNC**  
SCHOOL OF MEDICINE

## COURSE DESCRIPTION

The course will provide basic training and expertise in assessing basic cardiovascular function utilizing parasternal long axis; parasternal short axis; apical 4-chamber; and subcostal views. An introduction to color flow doppler will be discussed to aid in the recognition of significant valvular pathology. Participants will also learn how to assess for the presence of lung pathologies, including pneumothorax; pleural effusions; lung consolidation; endobronchial intubation; and intraabdominal pathologies including hemoperitoneum and ascites.

**A unique feature of the course will be a low faculty student ratio of 1:4, with a primary emphasis on learning the hands-on skills for image acquisition and interpretation.** The activity will take place in a specially designed medical skills simulation lab, using a combination of live models, high-fidelity simulators, and experienced physician faculty and medical sonographers

## TARGET AUDIENCE

This activity is targeted to anesthesiologists, surgeons, emergency medicine, internists and critical care physicians, with minimal or no previous experience in point-care-ultrasound and transthoracic echocardiography.

## LEARNING OBJECTIVES

The information presented at this activity should improve participants' ability to:

- Recognize and utilize knobology of the ultrasound machine to optimize ultrasound imaging, including the use of color doppler
- Identify the steps necessary to obtain and interpret images of the parasternal long axis and parasternal short axis views; the apical 4-chamber view; the subcostal 4 chamber view; and the subcostal IVC view
- Identify the steps necessary to obtain and interpret images of normal lung function and pathology, and recognize B-lines; lung sliding; lung pulse; lung point; seashore and barcode signs; and identify pneumothorax; endobronchial intubation; pleural effusion; lung consolidation; and pulmonary edema
- Perform and interpret simple hemodynamic calculations including fractional shortening (FS); ejection fraction (EF); mitral septal separation (MSS); tricuspid annular systolic excursion (TAPSE); and mitral annular systolic excursion (MAPSE).
- Utilize color doppler for qualitative assessment of valvular pathology, including mitral stenosis and regurgitation; aortic stenosis and insufficiency; and tricuspid regurgitation
- Assess qualitative left and right ventricular function
- Recognize the presence of pericardial effusions and tamponade physiology
- Assess volume status and estimate central venous pressure
- Perform a focused assessed sonography exam for trauma (FAST) to assess for the presence of intraperitoneal fluid or blood, and identify the splenorenal recess; the hepatorenal recess and the retrovesicular pouch.

# Course Agenda

0730—0800	Registration and Continental Breakfast
0800—0805	Course Overview
0805—0810	Image acquisition and knobology
0810—0825	Parasternal long axis views: Image acquisition and interpretation
0825—0925	Hands on skills acquisition: Parasternal long axis views
0925—0940	Parasternal short axis views: Image acquisition and interpretation
0940—1040	Hands on skills acquisition: Parasternal short axis views
1040—1050	Break
1050—1105	Apical views: Image acquisition and interpretation
1105—1205	Hands on skills acquisition and interpretation
1205—1230	Lunch
1230—1245	Subcostal views: Image acquisition and interpretation
1245—1345	Hands on skills acquisition: Subcostal window and views
1345—1400	Introduction to color flow Doppler and simple hemodynamic calculations (FS, EF, MSS, MAPSE, TAPSE)
1400—1500	Hands on skill acquisition: Color flow Doppler and simple hemodynamic calculations
1500—1515	Common cardiac pathologies
1515—1530	Break
1530—1500	Group 1, 2, 5: Lung scanning
1530—1600	Group 3 and 4: Case scenarios and simulation testing (plus 2 members from Group 5)
1600—1630	Group 1 and 2: Case scenarios and simulation testing (plus the other 2 members from Group 5)
1630—1700	FAST exam scan (Focus Assess Sonography Trauma)
1700—1730	Questions and Answer Review



Register Online: <http://go.unc.edu/POCUS2017>

**Registration Fee: \$325 (includes continental breakfast, breaks and lunch)**

**ONLY 20 SEATS FOR THIS COURSE—REGISTER EARLY!!**

## REFUND/CREDIT/CANCELLATION POLICY

Cancellation requests must be received by email by midnight on October 4, 2017 with an explanation for cancellation. No refunds will be issued thereafter. A handling fee of \$125 will be deducted for all cancellations.

## COURSE CREDIT

The University of North Carolina School of Medicine designates this live activity for a maximum of 8.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This course meets the requirements of the American Board of Anesthesiology Maintenance of Certification (MOCA) and MOCA 2.0 for lifelong learning and self-assessment (part 2).

## ACCREDITATION

The School of Medicine of the University of North Carolina is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

## ADA STATEMENT

If an attendee requires the use of services identified by the Americans with Disabilities Act in order to attend the conference, he or she should contact [anesthesiologycme@aims.unc.edu](mailto:anesthesiologycme@aims.unc.edu) with "POCUS2017" in the subject line to make the needed arrangements.

## REGISTRATION QUESTIONS?

Contact Event Manager, Lynn Craven at 919-966-0009 or email: [lynn\\_craven@med.unc.edu](mailto:lynn_craven@med.unc.edu)