



David Geffen  
School of Medicine

# Perioperative Point of Care and Cardiac Ultrasound Workshop

**September 24-25, 2016**  
Loews Santa Monica Beach Hotel  
Santa Monica, California

**Co-sponsored by:**



LOMA LINDA UNIVERSITY  
HEALTH

**CME** OFFICE OF  
CONTINUING  
MEDICAL  
EDUCATION

DAVID GEFFEN SCHOOL OF MEDICINE at **UCLA**

# Program

## Saturday, September 24, 2016

7:00 AM	Registration and Continental Breakfast
8:00	Introduction and Keynote Address
8:30	Ultrasound Physics and Knobology
9:00	Ultrasound Pitfall and Artifact
9:30	Break: Transition to Educational Track

### Perioperative Point of Care Ultrasound Curriculum

#### Airway/Pulmonary Ultrasound

9:45	Pulmonary Ultrasound (Lecture)
10:15	Airway Ultrasound (Lecture)
10:30	Review Online Pre-test
10:45	Break
11:00	Hands-on Training (Stations 1, 2, & 3) Station 1 – Knobology Station 2 – Airway (simulator) Station 3 – Pulmonary (live model)
12:30 PM	Lunch

#### Abdominal Ultrasound/Nerve Blocks

1:30	FAST Examination (Lecture)
2:00	Assessment of Gastric Volume (Lecture)
2:15	Regional Anesthesia Part 1
2:45	Regional Anesthesia Part 2
3:00	Break
3:15	Hands-on Training (Stations 1, 2, & 3) Station 1 – FAST Exam Part 2 Station 2 – Gastric Volume Assessment Station 3 – Nerve Blocks
5:00	Adjourn

### Basic TEE Curriculum

#### TEE: Valve Assessment – Small Group

9:45	Station 1 - Mitral Valve Assessment Station 2 - Aortic Valve Assessment Station 3 - Review Online Pre-test
10:45	Break
11:00	Mitral Valve (Lecture)
11:30	Aortic Valve (Lecture)
12:00	Tricuspid/Pulmonic (Lecture)
12:30 PM	Lunch

#### TEE: LV/RV Function

1:30	TEE Workshop: LV/RV Function Station 1 - Qualitative LV Assessment Station 2 - Quantitative LV Assessment Station 3 - RV Assessment
3:00	Break
3:15	LV Assessment (Lecture)
4:00	Diastolic Assessment (Lecture)
4:30	RV Assessment (Lecture)
5:00	Adjourn

## Sunday, September 25, 2016

7:00 AM Continental Breakfast

### Cardiac Ultrasound

- 8:00 Cardiac Views (Lecture)  
8:30 Assessment of Ventricular Function (Lecture)  
9:00 Assessment of Valvular Function (Lecture)  
9:30 Break  
9:45 FATE (Focus Assessed Transthoracic Echo-Lecture)  
10:10 Tips for the Difficult Patient and Q&A  
10:40 Hands-on Training (Stations 1, 2, 3, & 4)  
Station 1 – Basic Cardiac Views (simulator)  
Station 2 – Cardiac Valve Assessment (live model)  
Station 3 – FATE Exam (live model)  
Station 4 – The Difficult Patient (live model)  
12:30 PM Lunch

### Intravascular Volume Assessment

- 1:30 Assessment of Central Venous Pressure (Lecture)  
1:45 Evaluation of Volume Responsiveness (Lecture)  
2:15 Putting it All Together (FORESIGHT Exam)  
2:30 Break  
2:45 Hands-on Training (Stations 1, 2, 3, & 4)  
Station 1 – Central Venous Pressure (live model)  
Station 2 – Volume Responsiveness (live model)  
Station 3 – Review  
Station 4 – Review  
5:00 Adjourn

*\*Optional service (no CME credit): 20 remote education image critiques following the course*

### TEE Outside of the OR

- 8:00 Hands-on Training (Stations 1, 2, & 3)  
Station 1 – TEE for the EP Lab  
Station 2 – TAVR  
Station 3 – TEE in the ICU  
10:00 Break  
10:15 Rescue TEE (Lecture)  
10:45 Echo for Non-Cardiac Transplants (Lecture)  
11:15 Echo Outside the OR (Lecture)  
11:45 Adult Congenital Assessment (Lecture)  
12:15 Q&A  
12:30 PM Lunch

### TEE: Hemodynamics and Review Questions

- 1:30 Hands-on Training (Stations 1, 2, & 3)  
Station 1 – Echo Review Questions  
Station 2 – Echo Review Questions  
Station 3 – Echo Review Questions  
2:30 Break  
2:45 Pericardial Disease (Lecture)  
3:20 Aortic Assessment (Lecture)  
3:55 Cardiac Masses (Lecture)  
4:30 Hemodynamic Measurements (Lecture)  
5:00 Adjourn

*\*Optional service (no CME credit): 20 remote education image critiques following the course*

# General Information

## Conference Location

Loews Santa Monica Beach Hotel  
1700 Ocean Avenue  
Santa Monica, CA 90401  
310-458-6700

## Accommodations

A block of rooms has been reserved at the Loews Santa Monica Beach Hotel at a special rate of \$319 single or double occupancy per night plus taxes. Please call the Loews Reservation Center at 800-235-6397 and request the group rate for the UCLA Ultrasound Anesthesiology Conference. To reserve online, please visit: <http://www.loewshotels.com/santa-monica/ucla-ultrasound-anesthesiology-conference>. Confirmation of reservations made after August 24, 2016 is subject to availability.

## Parking

Valet day parking is \$12.00.  
Overnight valet parking is \$42 plus tax.

## Registration Fee

\$700 Physicians, CRNAs, Nurses, and Allied Health Professionals  
\$450 UCLA and Loma Linda Fellows/Residents  
(\*Must submit letter of verification)

## Refunds

A processing fee of \$50.00 is withheld from all refunds (full refund if course is canceled or rescheduled). Requests for refunds must be in writing and received no later than August 26, 2016.

## Enrollment

Enrollment is limited. Early enrollment is strongly recommended.

### By Mail

Use the form attached. For additional applications, use a photocopy or separate sheet giving all information requested on form.

### By Phone

Use your MasterCard, VISA, American Express, or Discover. Call (310) 794-2620.

### By Fax

Send completed enrollment form with credit card information and authorizing signature.  
FAX (310) 794-2624.

### Online

Use your MasterCard, VISA, Discover Card, or American Express. Go to [www.cme.ucla.edu](http://www.cme.ucla.edu) and click on Perioperative Point of Care and Cardiac Ultrasound Workshop.

## Accreditation

The Office of Continuing Medical Education, David Geffen School of Medicine at UCLA is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Office of Continuing Medical Education, David Geffen School of Medicine at UCLA designates this live activity for a maximum of 14.5 *AMA PRA Category 1 Credit(s)*<sup>TM</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## Disclosure

The FDA has issued a concept paper which classifies commercial support of scientific and educational programs as promotional unless it can be affirmed that the program is "truly independent" and free of commercial influence. In addition to independence, the FDA requires that non-promotional, commercially supported education be objective, balanced, and scientifically rigorous. The Policy further states that all potential conflicts of interest of the CME staff and faculty be fully disclosed to the program's participants. We at UCLA fully endorse the letter and spirit of the concept. In compliance with this policy, the program audience will have disclosed to them any potential conflicts of interest related to the contents of presentations made by all faculty participating in sponsored or jointly sponsored programs by the David Geffen School of Medicine at UCLA.

## Information

If you have questions about the program, please contact the Office of Continuing Medical Education at (310) 794-2620.

Please visit our website for other UCLA CME offerings. [www.cme.ucla.edu](http://www.cme.ucla.edu)

# Perioperative Point of Care and Cardiac Ultrasound Workshop

**September 24-25, 2016**

## Mail Application for Enrollment

Course Title and Number	Amount
<p><b>Perioperative Point of Care and Cardiac Ultrasound Workshop</b> M167-7</p> <p><input type="checkbox"/> \$700 Physicians, CRNAs, Nurses and Allied Health Professionals</p> <p><input type="checkbox"/> \$450 UCLA and Loma Linda Fellows/Residents (*Must submit letter of verification)</p> <p>Select one (limit of 75 attendees per track):</p> <p><input type="checkbox"/> Track 1: Perioperative Point of Care Ultrasound</p> <p><input type="checkbox"/> Track 2: Basic Echocardiography</p>	

Please print clearly, and remember to include your credit card number and authorizing signature.

Last four digits of your Social Security Number

Name (First/Middle/Last)

Degree

☐ Male☐ Female

Preferred Mailing Address

City/State/ZIP

(          )  
Area Code

Area Code

Daytime Phone

( )

Area Code      FAX

E-mail

Specialty

☐ Check enclosed payable to: **The Regents of the University of California**

Charge: ☐ MasterCard ☐ Visa ☐ Discover ☐ American Express

Name of cardholder

Authorizing Signature

Expiration (Mo/Yr)

Mail to: Office of Continuing Medical Education, David Geffen School of Medicine at UCLA, Perioperative Point of Care and Cardiac Ultrasound Workshop, 10920 Wilshire Blvd., Suite 1060, Los Angeles, CA 90024-6512.

## Course Description and Objectives

This workshop is designed to highlight the utility of ultrasound for all health care providers involved in perioperative patient care. The course will have two simultaneous educational tracks: 1) focused on the utility of point of care ultrasound for all aspects of perioperative care for non-cardiac surgery, 2) aimed on the review and training of basic echocardiography for cardiac and non-cardiac surgery.

### Track 1: Perioperative Point of Care Ultrasound

This track will offer training on a “whole-body” ultrasound examination designed to expand anesthesiologists’ skills with cardiac, pulmonary, abdominal, regional, and vascular ultrasound. The speakers have termed this examination FORESIGHT (Focused, PeriOperative, Risk, Evaluation, Sonography, Involving, Gastro-Abdominal, Hemodynamic, and Trans-Thoracic US). This examination has been designed by a multi-disciplinary team of emergency medicine, critical care, cardiology, and anesthesiologists, who have identified the key aspects of cardiac, pulmonary, abdominal, and hemodynamic ultrasound for perioperative care. Speakers will include the team members involved in the development and publication of the clinical utility of this examination. Attendees will gain insight on the utility of point of care during all aspects of the perioperative setting (pre-operative, intra-operative, and post-operative).

Once registered, the participant will receive access to an iTunes university course and iBook that covers the course material. It is highly encouraged that the participants review this material prior to the course date.

*Additional unique features include:*

- Instruction via a clinical validated simulation-based lecture series
- Over six hours of hands on training with live models and simulators
- Course instructors are academic physicians who have received grant funding and published on the course topics
- Practical review of physics and ultrasound knobology
- Pre and post training testing with review

At the completion of this course, participants should be able to:

- Identify qualitative ventricular function, qualitative valve function, and tamponade
- Assess endotracheal tube location, evaluate for pneumothorax, and assess severe air space disease

- Assess gastric volume and perform a FAST exam – Focused Assessment with Sonography in Trauma
- Assess volume status and central venous pressure
- Review common regional procedures

### Track 2: Basic Echocardiography

This track will offer training on the fundamentals of transesophageal (TEE) and transthoracic (TTE) echocardiography for cardiac and non-cardiac surgery. Topics for the track include: 1) valvular assessment, 2) qualitative and quantitative assessment of left and right ventricular assessment, 3) TEE for the cath/EP lab, 4) echo in the ICU, 5) rescue echo, 6) adult congenital assessment, 7) echo for hemodynamics, 8) echo for non-cardiac transplant, 9) echo outside of operating room, 10) echo for percutaneous valve procedures. Speakers will include a diverse team of cardiac and critical care anesthesiologists who practice in quaternary care centers.

*Additional unique features include:*

- Instruction via latest simulators on echocardiography
- Hands on training with live models and simulators
- Course instructors are academic physicians who have received grant funding and published on the education of echocardiography to anesthesiologists
- Practical review of an abbreviated 5 minute cardiac echocardiography examination
- Pre and post training testing with review

At the completion of this course, participants should be able to:

- Gain fundamental understanding of the basic utility of echocardiography (both TEE and TTE) for perioperative care
- Highlight the utility of echocardiography outside of the operating room in the catheterization and electrophysiology suites

## Target Audience

The target audience for this event is all health care providers involved in perioperative medicine (primarily physician anesthesiologists). The typical practice settings of our audience will be academic, private practice, and hospital based groups.

# Faculty

## PROGRAM CO-DIRECTORS

### Jacques Prince Neelankavil, MD

Assistant Clinical Professor  
Cardiothoracic Anesthesiology  
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