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

O F F I C E O F CONTINUING MEDICAL EDUCATION
DAVID GEFFEN SCHOOL OF MEDICINE at UCLA
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 tracts: 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.

Tract 1: Perioperative Point of Care Ultrasound

This tract 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 endotrachial 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

Tract 2: Basic Echocardiography

This tract will offer training on the fundamentals of transesophageal (TEE) and transthoracic (TTE) echocardiography for cardiac and non-cardiac surgery. Topics for the tract 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
Director, Perioperative Echocardiography
Program Director, Cardiothoracic Fellowship
Department of Anesthesiology & Perioperative Medicine
David Geffen School of Medicine at UCLA

Kimberly Howard-Quitano, MD, MS
Assistant Clinical Professor
Co-Chief, Cardiothoracic Anesthesiology
Associate Director, Cardiovascular Research
Department of Anesthesiology & Perioperative Medicine
David Geffen School of Medicine at UCLA

Davinder Ramsingh, MD
Director of Clinical Research and Perioperative Ultrasound
Associate Professor
Department of Anesthesiology
Loma Linda Medical Center
Loma Linda, California

Kimberly Howard-Quitano, MD, MS
Assistant Clinical Professor
Co-Chief, Cardiothoracic Anesthesiology
Associate Director, Cardiovascular Research
Department of Anesthesiology & Perioperative Medicine
David Geffen School of Medicine at UCLA

FACULTY

John Anderson-Dam, MD
Assistant Clinical Professor
Critical Care Medicine and Cardiothoracic Anesthesiology
Department of Anesthesiology & Perioperative Medicine
David Geffen School of Medicine at UCLA

W. Benjamin Kratzert, MD
Assistant Clinical Professor
Critical Care Medicine and Cardiothoracic Anesthesiology
Department of Anesthesiology & Perioperative Medicine
David Geffen School of Medicine at UCLA

Joseph Rinehart, MD
Associate Professor
Director of Clinical Research
Department of Anesthesiology and Perioperative Care
University of California, Irvine
Irvine, California

Michael Benggon, MD
Instructor, Anesthesiology
Department of Anesthesiology
Loma Linda Medical Center
Loma Linda, California

Ryan Lauer, MD
Assistant Professor
Director, Cardiac Anesthesiology Residency
Program Director, Cardiac Anesthesiology Fellowship
Department of Anesthesiology
Loma Linda Medical Center
Loma Linda, California

Ali Salehi, MD
Associate Clinical Professor
Cardiothoracic Anesthesiology
Department of Anesthesiology & Perioperative Medicine
David Geffen School of Medicine at UCLA

Ihab Dorotta, MBBS
Associate Professor
Director, Critical Care Center
Department of Anesthesiology
Loma Linda Medical Center
Loma Linda, California

Jure Marijic, MD
Clinical Professor
Director, Pediatric Cardiac Anesthesiology
Department of Anesthesiology & Perioperative Medicine
David Geffen School of Medicine at UCLA

Nishant Shah, MD
Midwest Anesthesiology Partners
PRAA Division
Advocate Lutheran General Hospital
Park Ridge, Illinois

Jason Gatling, MD
Assistant Professor
Associate Program Director, Anesthesiology Residency
Associate Program Director, Cardiac Anesthesiology Fellowship
Department of Anesthesiology
Loma Linda Medical Center
Loma Linda, California

Emily Methangkool, MD
Assistant Clinical Professor
Cardiothoracic Anesthesiology Residency Program
Department of Anesthesiology & Perioperative Medicine
David Geffen School of Medicine at UCLA

Gary Shih, MD
Assistant Professor
Division of Critical Care Medicine
Department of Anesthesiology
Loma Linda University School of Medicine
Loma Linda, California

Vadim Gudzenko, MD
Assistant Clinical Professor
Critical Care Medicine
Director, Critical Care Medicine Fellowship Program
Department of Anesthesiology & Perioperative Medicine
David Geffen School of Medicine at UCLA

Sumit Singh, MD
Assistant Clinical Professor
Critical Care Medicine
Medical Director, Greater LA VA Surgical ICU Critical Care Medicine
David Geffen School of Medicine at UCLA

Reed Harvey, MD
Assistant Clinical Professor
Cardiothoracic Anesthesiology
Department of Anesthesiology & Perioperative Medicine
David Geffen School of Medicine at UCLA

Greg Yoshikawa, MD
Assistant Professor
Department of Anesthesiology and Perioperative Care
University of California, Irvine
Irvine, California

Jonathan Ho, MD
Associate Clinical Professor
Co-Chief, Cardiothoracic Anesthesiology
Director, UCLA Interventional Cardiovascular Operations Department of Anesthesiology & Perioperative Medicine
David Geffen School of Medicine at UCLA

Josh Zimmerman, MD, FASE
Associate Professor
Director, Perioperative Echocardiography
Director, Preoperative Clinic
University of Utah Department of Anesthesiology
Assistant Director, Echocardiography
George E. Wahlen VA Medical Center
Salt Lake City, Utah
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 Tract

**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
- 9:45  Station 2 - Aortic Valve Assessment
- 9:45  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
- 1:30  Station 1 - Qualitative LV Assessment
- 1:30  Station 2 - Quantitative LV Assessment
- 1:30  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
### Cardiac Ultrasound

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>Cardiac Views (Lecture)</td>
</tr>
<tr>
<td>8:30</td>
<td>Assessment of Ventricular Function (Lecture)</td>
</tr>
<tr>
<td>9:00</td>
<td>Assessment of Valvular Function (Lecture)</td>
</tr>
<tr>
<td>9:30</td>
<td>Break</td>
</tr>
<tr>
<td>9:45</td>
<td>FATE (Focus Assessed Transthoracic Echo-Lecture)</td>
</tr>
<tr>
<td>10:10</td>
<td>Tips for the Difficult Patient and Q&amp;A</td>
</tr>
<tr>
<td>10:40</td>
<td>Hands-on Training (Stations 1, 2, 3, &amp; 4)</td>
</tr>
<tr>
<td></td>
<td>Station 1 – Basic Cardiac Views (simulator)</td>
</tr>
<tr>
<td></td>
<td>Station 2 – Cardiac Valve Assessment (live model)</td>
</tr>
<tr>
<td></td>
<td>Station 3 – FATE Exam (live model)</td>
</tr>
<tr>
<td></td>
<td>Station 4 – The Difficult Patient (live model)</td>
</tr>
<tr>
<td>12:30</td>
<td>Lunch</td>
</tr>
</tbody>
</table>

### Intravascular Volume Assessment

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30</td>
<td>Assessment of Central Venous Pressure (Lecture)</td>
</tr>
<tr>
<td>1:45</td>
<td>Evaluation of Volume Responsiveness (Lecture)</td>
</tr>
<tr>
<td>2:15</td>
<td>Putting it All Together (FORESIGHT Exam)</td>
</tr>
<tr>
<td>2:30</td>
<td>Break</td>
</tr>
<tr>
<td>2:45</td>
<td>Hands-on Training (Stations 1, 2, 3, &amp; 4)</td>
</tr>
<tr>
<td></td>
<td>Station 1 – Central Venous Pressure (live model)</td>
</tr>
<tr>
<td></td>
<td>Station 2 – Volume Responsiveness (live model)</td>
</tr>
<tr>
<td></td>
<td>Station 3 – Review</td>
</tr>
<tr>
<td></td>
<td>Station 4 – Review</td>
</tr>
<tr>
<td>5:00</td>
<td>Adjourn</td>
</tr>
</tbody>
</table>

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

### TEE Outside of the OR

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>Hands-on Training (Stations 1, 2, &amp; 3)</td>
</tr>
<tr>
<td></td>
<td>Station 1 – TEE for the EP Lab</td>
</tr>
<tr>
<td></td>
<td>Station 2 - TAVR</td>
</tr>
<tr>
<td></td>
<td>Station 3 – TEE in the ICU</td>
</tr>
<tr>
<td>10:00</td>
<td>Break</td>
</tr>
<tr>
<td>10:15</td>
<td>Rescue TEE (Lecture)</td>
</tr>
<tr>
<td>10:45</td>
<td>Echo for Non-Cardiac Transplants (Lecture)</td>
</tr>
<tr>
<td>11:15</td>
<td>Echo Outside the OR (Lecture)</td>
</tr>
<tr>
<td>11:45</td>
<td>Adult Congenital Assessment (Lecture)</td>
</tr>
<tr>
<td>12:15</td>
<td>Q&amp;A</td>
</tr>
<tr>
<td>12:30</td>
<td>Lunch</td>
</tr>
</tbody>
</table>

### TEE: Hemodynamics and Review Questions

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30</td>
<td>Hands-on Training (Stations 1, 2, &amp; 3)</td>
</tr>
<tr>
<td></td>
<td>Station 1 – Echo Review Questions</td>
</tr>
<tr>
<td></td>
<td>Station 2 – Echo Review Questions</td>
</tr>
<tr>
<td></td>
<td>Station 3 – Echo Review Questions</td>
</tr>
<tr>
<td>2:30</td>
<td>Break</td>
</tr>
<tr>
<td>2:45</td>
<td>Pericardial Disease (Lecture)</td>
</tr>
<tr>
<td>3:20</td>
<td>Aortic Assessment (Lecture)</td>
</tr>
<tr>
<td>3:55</td>
<td>Cardiac Masses (Lecture)</td>
</tr>
<tr>
<td>4:30</td>
<td>Hemodynamic Measurements (Lecture)</td>
</tr>
<tr>
<td>5:00</td>
<td>Adjourn</td>
</tr>
</tbody>
</table>

*Optional service (no CME credit): 20 remote education image critiques following the course*
Conference Location
Loews Santa Monica Beach Hotel
1700 Ocean Avenue
Santa Monica, CA 90401
310-458-6700

Parking
Valet parking is $12.00.

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 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)™. 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
Perioperative Point of Care and Cardiac Ultrasound Workshop  
September 24-25, 2016

Mail Application for Enrollment

<table>
<thead>
<tr>
<th>Course Title and Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perioperative Point of Care and Cardiac Ultrasound Workshop</td>
<td>M167-7</td>
</tr>
</tbody>
</table>

- $700 Physicians, CRNAs, Nurses and Allied Health Professionals
- $450 UCLA and Loma Linda Fellows/Residents

(*Must submit letter of verification)

Select one (limit of 75 attendees per tract):
- [ ] Tract 1: Perioperative Point of Care Ultrasound
- [ ] Tract 2: Basic Echocardiography

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

Last four digits of your Social Security Number

<table>
<thead>
<tr>
<th>Name (First/Middle/Last)</th>
<th>Degree</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
</table>

Preferred Mailing Address

____________________________________________________  (_______) ______________

(_______)_________________________     _______________________________________

<table>
<thead>
<tr>
<th>Area Code</th>
<th>Daytime Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area Code</th>
<th>FAX</th>
<th>E-mail</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.
Perioperative Point of Care and Cardiac Ultrasound Workshop

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