

**28TH ANNUAL UC DAVIS
ANESTHESIOLOGY UPDATE**



October 27-29, 2017
Monterey Plaza Hotel, Monterey, CA

Sponsored by:
Office of Continuing Medical Education and
Department of Anesthesiology and Pain Medicine



PROGRAM

Friday, October 27

7:00 am	Registration Continental Breakfast, Visit Exhibits
7:45 am - 8:00 am	Welcome and Course Objectives <i>Moderator: Stephen M Macres, MD</i>
8:00 am - 8:50 am	*Acute Pain Management in the Era of the Opioid Crisis <i>Eugene R Viscusi, MD</i>
8:50 am - 9:40 am	Anesthetic Management of the Cardiac Patient Undergoing Noncardiac Surgery <i>Orode Badakhsh, MD</i>
9:40 am - 10:10 am	Refreshment Break, Visit Exhibits
10:10 am - 12:15 pm	*Anesthesia Grab Bag: Questions and Answers to Challenging Situations faced by the Perioperative Anesthesiologist: Anesthesia and Cancer Surgery, Perioperative Application of TTE, nerve blocks and neurologic injury, TKA (is that really an ambulatory procedure?), IV Lidocaine for acute post-op pain, quadratum lumborum block for THA, erector spinae block, I-Pack Block, Ketamine rising from the ashes, and much, much more! <i>Robin J Aldwinckle, BMBS, FRCA, Kenneth T Furukawa, MD, Stephen M Macres, MD, Jon Zhou, MD</i>
12:15 pm	Adjourn

**6:00 pm - 8:00 pm
MEET THE FACULTY NETWORKING RECEPTION**

Included in tuition, pre-registration required
(guests invited for \$40)

***Ultrasound Applications for the
Anesthesiologist Workshop
1:15 pm - 5:30 pm**

The Friday afternoon workshop will be a comprehensive review of Ultrasound Guided Peripheral Nerve Blockade, Transthoracic Echocardiography and Miscellaneous Point of Care Applications of Ultrasound. Additional fee, registration required, lunch included, registration limited, four (4)
AMA PRA Category I Credits™

Patricia M Applegate MD, FACC,
Robin J Aldwinckle, BMBS, FRCA,
Orode Badakhsh, MD, Kenneth Furukawa, MD,
Stephen M Macres, MD, Jon Zhou, MD, Aubrey Yao, MD
Eugene R Viscusi, MD

Saturday, October 28

Problem Based Learning Discussions

6:30 am - 7:45 am

Additional fee, registration required, breakfast included, registration limited, 1.25 *AMA PRA Category I Credits™*

- *Perioperative Management of the Opioid Dependent Patient**
Stephen M Macres, MD
- *No Ultrasound, No Stimulator, No Worry**
Kenneth T Furukawa, MD
- *Setting up a Value Added Acute Perioperative Pain Service: Nuts and Bolts**
Jon Zhou, MD
- Management of the Patient with a Left Ventricular Assistive Device (LVAD) Undergoing Noncardiac Surgery**
Orode Badakhsh, MD

7:00 am

**Registration
Continental Breakfast, Visit Exhibits**

7:45 am - 8:00 am

Welcome and Course Objectives
Moderator: Robin J Aldwinckle, BMBS, FRCA

8:00 am - 8:50 am

Design and Implementation of a Perioperative Surgical Home (PSH) model within a Veterans Affairs hospital
Tessa Walters, MD

8:50 am - 9:40 am

Climate Change: It's all Anesthesia's fault
Charandip Sandhu, MD and Jeffrey Uppington, MBBS

9:40 am - 10:30 am

Avoiding Blood Transfusions in Spines and Other Snippets
Nina Schloemerkerper, MBBS, FRCA

10:30 am - 11:00 am

Refreshment Break, Visit Exhibits

11:00 am - 11:40 am

Monitoring Cardiac Function - Yesterday, Today, Tomorrow
Neal W Fleming, MD, PhD

11:40 am - 12:05 pm

Perioperative Management of Coronary Stents
Aubrey Yao, MD

12:05 pm - 12:15 pm

Case Presentation
Neal W Fleming, MD, PhD and Aubrey Yao, MD

12:15 pm

Adjourn

1:15 PM - 5:30 PM - BRAINS ON! WORKSHOP

The Saturday afternoon workshop will highlight fundamentals behind and application of CNS function monitors including EEG, processed EEG, sensory and motor evoked potentials and cerebral oximetry. Case examples will challenge participants to properly apply interpreted information from these monitors to clinical care.

Richard L Applegate II, MD
Neal W Fleming, MD, PhD
Charandip Sandhu, MD
Nina Schloemerkerper, MBBS, FRCA
Cinthia Tirado, MD



PROGRAM

Sunday, October 29

Problem Based Learning Discussions

6:30 am - 7:45 am

Additional fee, registration required, breakfast included, registration limited, 1.25 AMA PRA Category I Credits™

5. **Activate the Massive Transfusion Protocol! Management of the Acute Massive Perioperative Hemorrhage**
James Littlejohn, MD, PhD
6. **This Delayed Kid is Stronger Than My Entire Team! How do I Get Him in the OR?**
Sungeun Lee, MD
7. **Postpartum Hemorrhage and Massive Transfusion**
Nina Schloemerkemper, MBBS, FRCA
8. **My Patient has a Cardiac Implantable Electronic Device (CIED) - Do I put a Magnet on It?**
Neal W Fleming, MD, PhD
9. **Pediatric Pre-Operative Dilemmas**
Cathy Lammers, MD

7:00 am

**Registration
Continental Breakfast, Visit Exhibits**

7:45 am - 8:00 am

Welcome and Course Objectives
Moderator: Jeffrey Uppington, MBBS, FRCA

8:00 am - 8:40 am

Is Anesthesia Exposure Causing Brain Damage? What do we Actually Know?
Cathy Lammers, MD

8:40 am - 9:10 am

Interactive Discussion With Audience: FDA Medwatch on General Anesthetics and Sedation Drugs
Cathy Lammers, MD, Sungeun Lee, MD and Jon Zhou, MD

9:10 am - 10:00 am

Pintos, Pins, and Pistachios. How to Deal with Things That Don't Belong in a Child's Airway
Sungeun Lee, MD

10:00 am - 11:00 am

TEG and ROTEM: Viscoelastic Testing and Monitoring During Massive Transfusion Events in the OR
James Littlejohn, MD, PhD

11:00 am

Adjourn

* Lectures marked with asterisk (*) qualify for recognized content for California Assembly Bill 487 which requires physicians and surgeons to obtain 12 hours of continuing education in the subject of pain management and palliative care.

FACULTY

Course Chair

Stephen M Macres, MD
Professor
Director, Acute Pain Service

Course Co-Chairs

Richard L Applegate II, MD
Professor and Chair

Robin J Aldwinckle, BMBS, FRCA
Associate Professor
Director, Same Day Surgery Center

Amrik Singh, MD
Professor
Associate Chief, Division of Perioperative Medicine

Jeffrey Uppington, MBBS, FRCA
Professor
Vice Chair of Clinical Affairs

Guest Faculty

Tessa Walters, MD
Staff Anesthesiologist and Director,
Perioperative Surgical Home
VA Palo Alto Health Care System
Clinical Assistant Professor of Anesthesiology (Affiliated),
Perioperative and Pain Medicine
Stanford University School of Medicine

Eugene R Viscusi, MD
Professor of Anesthesiology
Director, Acute Pain Management
Department of Anesthesiology
Thomas Jefferson University

UC Davis Health Department of Cardiology Faculty

Patricia M Applegate, MD, FACC
Associate Professor
University of California Davis



FACULTY

UC Davis Department of Anesthesiology & Pain Medicine

Orode Badakhsh, MD
Assistant Professor

Neal W Fleming, MD, PhD
Professor
Director, Cardiovascular and Thoracic Anesthesiology

Kenneth T Furukawa, MD
Professor

Cathy Lammers, MD
Professor

Sungeun Lee, MD
Associate Professor
Director, Pediatric Anesthesia Fellowship Program
Co-Director, Pediatric Perioperative Pain Service

James Littlejohn, MD, PhD
Assistant Professor

Charandip Sandhu, MD
Associate Professor

Nina Schloemer Kemper, MBBS, FRCA
Assistant Professor

Cinthia Tirado, MD
Associate Professor

Aubrey Yao, MD
Associate Professor

Jon Zhou, MD
Assistant Professor

Conference Coordinator
Beng Salud, BSBA
Education Manager
Department of Anesthesiology & Pain Medicine

PROGRAM INFORMATION

Needs Assessment

This year's conference continues our theme of "best practice" enhanced care clinical pathways and optimization of patient safety. Improving communication between various healthcare disciplines and developing clinical pathways leads to better coordination of care benefiting both the patient and the institution. Our goal this year is to discuss some ideas that may be useful to address situations where there is clearly a "gap" in the way a system currently operates and the way it could operate more effectively and safely through the dissemination of knowledge. Topics that will be covered include: acute pain management and opioid abuse, anesthetic management of the patient with cardiac disease, anesthesia techniques and cancer surgery, neurological risk of regional anesthesia, unique uses for ketamine, application of point of care ultrasound (POCUS) for peripheral nerve blockade and cardiac evaluation, anesthesia techniques and outpatient arthroplasty, implementation of a Perioperative Surgical Home (PSH), anesthetic considerations for major spine surgery, point of care viscoelastic testing (TEG and ROTEM) and topics in pediatric and obstetric anesthesia.

This year's conference will provide practitioners with evidence based methods and strategies to assist them in providing better treatment options for their patients. Faculty presenting and interacting with participants at this activity have been selected on the basis of their comprehensive clinical experience and academic excellence.

Brochure Art Credit: Brochure images courtesy of Accreditation Council for Continuing Medical Education, UC Davis Department of Anesthesiology & Pain Medicine, UC Davis Public Affairs, Monterey Plaza Hotel, and Monterey CVB.

Photo And Video Release: By participating in this course, you grant the right to use your photograph and video for such purposes to UC Davis Department of Anesthesiology & Pain Medicine.



PROGRAM INFORMATION

Objectives: By the end of this conference the attendee will be able to:

1. Quantify the impact of the opioid crisis on pain management.
2. Discuss the management options and preoperative optimization of the cardiac patient who is undergoing non-cardiac surgery.
3. Explain the basic tenets of a PSH and the benefits and expenditures of implementation.
4. Discuss the risks and benefits of blood transfusion.
5. Demonstrate an understanding of the benefits and limitations of the new hemodynamic monitors.
6. Formulate a plan for the anesthetic management of the opioid dependent patient.
7. Discuss the perioperative management of coronary artery stents.
8. Discuss the significance of massive blood transfusion protocols.
9. Devise a plan for the management of post-partum hemorrhage.
10. Identify pediatric patients who may be challenging to sedate and intubate, and be able to generate a pre-medication plan that is both safe and effective.
11. Formulate a plan for post-operative pain control using ultrasound guided regional anesthesia techniques.
12. Assess a patient with suspected foreign body aspiration and determine the appropriate induction and maintenance anesthetic technique.
13. Identify clinical scenarios where the use of TEG and ROTEM is appropriate.
14. Explain the physiology underlying monitors of brain function including EEG, processed EEG, evoked potential and regional oximetry.

Target Audience

This activity is designed for anesthesiologists, pain medicine physicians, nurses, nurse anesthetists, residents, and fellows involved with the perioperative care of surgical patients.

Educational Methods

- Lectures with Q and A will be used to facilitate the dissemination of up to date information.
- Case studies and discussion will highlight conditions commonly seen in clinical practice.
- Interactive workshops and roundtable discussions are included to facilitate a more in-depth understanding of clinical issues.
- Pre/post tests will be given using an audience response system to help attendees ascertain the level of learning being achieved.
- Panel discussion will be used to provide an opportunity for experts to present differing viewpoints on various topics or issues.
- Hands on skill building workshops are included to provide attendees with the opportunity to refine their nerve block, airway and echocardiography skills.



ACCREDITATION

The University of California, Davis, Health System is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.



Physician Credit

- **Physician Credit:** The University of California, Davis, Health System designates this live activity for a maximum of 21.5 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.
- **Nurse:** For the purpose of recertification, the American Nurses Credentialing Center accepts *AMA PRA Category 1 Credits™* issued by organizations accredited by the ACCME. For the purpose of re-licensure, the California Board of Registered Nursing accepts *AMA PRA Category 1 Credits™* (report ___ hours of credit and fill in "CME Category 1" for the provider number).
- **Physician Assistant:** The National Commission on Certification of Physician Assistants (NCCPA) states that *AMA PRA Category 1 Credits™* are acceptable for continuing medical education requirements for recertification.
- **Nurse Anesthetist:** This program has been prior approved by the American Association of Nurse Anesthetists for 20.50 Class A CE credits; Code Number 1034894; Expiration Date 10/29/2017. AANA designates this program as meeting the criteria for up to 3.75 CE Credits in pharmacology/therapeutics.

AMA PRA Category 1 Credits™

General Session: Up to 11 *AMA PRA Category 1 Credits™*

Optional Breakfast Roundtable Sessions. Up to 2.5 *AMA PRA Category 1 Credits™* (1.25 credit for each session)

Optional Afternoon Workshops

Up to 4 *AMA PRA Category 1 Credits™* each

Pain Management: California Business and Professions Code (Section 2190.5) requires physicians and surgeons to complete 12 hours of mandatory continuing education on pain management and the appropriate care of the terminally ill. Physicians licensed prior to January 2002 were to have completed this requirement by December 31, 2006. Physicians licensed on or after January 1, 2002 must complete this requirement within 4 years of their initial license or by their second renewal date, whichever occurs first.



LODGING

Monterey Plaza Hotel
400 Cannery Row
Monterey, California 93940
Tel 831-646-1700 | 800-334-3999
Email reservations@montereyplazahotel.com
<http://www.montereyplazahotel.com>

\$239 Inland View **\$299 Partial Ocean View**
\$349 Ocean View **\$419 Ocean View Balcony**

A block of rooms is being held for conference participants at a rate of \$239 single or double occupancy plus hotel and sales tax. After October 4, 2017, reservations will be on a space and rate available basis. Reservations should be made directly with the hotel. Please be aware that a limited number of rooms in each category have been reserved and the hotel will likely sell out prior to the reservations deadline of October 4, 2017.

By staying at the host hotel, you help the University of California, Davis meet its contractual obligations with the host hotel and keep future registration fees reasonable. Please consider that when making your accommodation decisions. We encourage you to stay at the host hotel.

Just 100 miles south of San Francisco, Monterey's breathtaking scenery, rich history, world-renowned attractions and outdoor adventures invite one to grab life by the moment! Monterey is a dramatic setting for endless choices of activities all within minutes of convenient, charming overnight accommodations. Monterey is named a Top North American Golf Destination and the 2013 Top Ten Wine Travel Destination in the World. The Monterey Bay National Marine Sanctuary is home to favorite marine life that can be observed in one of the most amazing natural environments found anywhere in the United States. www.SeeMonterey.com

Air Travel To Monterey - Peninsula Airport (MRY)

For the Monterey Peninsula and the California Central Coast, regular flights are available from San Francisco, Los Angeles, Phoenix, Denver, Las Vegas, Salt Lake City, LA/Ontario and San Diego. The

United Airlines Group Discount: To obtain Groups and Meetings discount prices go to <http://www.united.com> and enter Offer Code **ZXM9 576931**

Ground Transportation: Hertz Car Rental Discount ID:
Convention Number (CV): **052G0001** (800) 654-2240

REGISTRATION

Please register early – space is limited.

Tuition is \$650

Confirmation of registration will be sent within two weeks after receipt of registration form. The fees will increase after September 5, 2017.

Tuition includes continental breakfasts, refreshment breaks, electronic syllabus, and an online certificate of attendance. Tuition may be paid by check, American Express, Discover, MasterCard or VISA. Cash is not accepted. UC Davis Health and UC Davis School of Medicine faculty and staff are eligible for tuition discounts. See registration form for details. Conference materials cannot be guaranteed unless registration is received by October 13, 2017. The Department of Anesthesiology & Pain Medicine reserves the right to cancel this conference. In such a case, a full refund will be given.

Registration forms received without payment will not be processed until payment is received, and payment must follow within 10 days. Early discount rates are honored if payment is received by the date noted on the registration form. After that date, the late fee is applied.

On-site Fees: At door registrations will be charged at a higher rate. Please see registration form for details.

Cancellation and Refund Policy:

A refund of tuition, less \$100 administrative fee, will be allowed if requested in writing by October 23, 2017. No refunds will be provided after this date.

ELECTRONIC EVALUATION AND CREDIT

The link to your electronic syllabus, evaluation and certificate of credit will be available for 30 days after the last day of the conference. Once you have completed the online evaluation your certificate will be available to print. However, after 30 days this link will expire and these items are no longer available online. You must contact the Office of CME to receive your certificate. A \$15 administrative fee will be applied.



COURSE REGISTRATION

28TH ANNUAL UC DAVIS ANESTHESIOLOGY UPDATE, OCTOBER 27-29, 2017

Receipt/confirmation will be emailed within two weeks	Early Discount	After Sept 4	On Site	FEE DUE
All	\$650	\$725	\$800	

UC Davis Affiliate Fees (Please specify)

Faculty Alumni Staff

Receipt/confirmation will be emailed within two weeks	Early Discount	After Sept 4	On Site	FEE DUE
All	\$520	\$595	\$670	

Optional Workshop Registration

Please register early, as workshops are limited and fill up fast. Each workshop includes lunch and additional credit.

Workshop options	FEE DUE
Ultrasound Applications for the Anesthesiologist Friday, 12:30-5:30 PM	\$300
Brains On! Workshop Saturday, 12:30-5:30PM	\$300
Saturday Problem Based Learning - 6:30 am 1st choice: 1 2 3 4	\$60
Sunday Problem Based Learning - 6:30 am 1st choice: 5 6 7 8 9	\$60

Meet The Faculty Networking Reception

(included in tuition, pre-registration required, guests invited)

	FEE DUE
<input type="checkbox"/> I will attend the Friday evening Meet the Faculty Reception	N/A
<input type="checkbox"/> I will not attend the Friday evening Meet the Faculty Reception	
Guests I will bring _____ adults and children at \$40 each Name(s) _____	

Guest/Spouse Food Package

(Name badges must be worn. Meal tickets may be purchased for guests to join you for continental breakfast for three days).

	FEE DUE
_____ Adults Name(s) _____	\$125
TOTAL FEES	

First Name _____ MI _____ Last Name _____

MD DO PA NP RN

CRNA (AANA License #) _____

Other _____

Institution/Employer (as you would like it to appear on your badge) _____

Email for link to electronic syllabus _____

Address _____ City _____ State _____ Zip Code _____
(where you would like your receipt emailed)

() ()

Day Phone _____ Fax _____

Please indicate primary medical specialty:
Physician information required for CME credit and name badge.

AN PAIN APM PMD PPN

Other (specify) _____

Social Security Number (last 4 digits required for transcript)

Please copy the mail code from the address side of the brochure _____

Have you ever attended this conference? YES NO

Please check here if you need disability accommodations at the meeting, please let us know by October 17TH and our representative will contact you.

Please note special dietary/food allergy requirements _____

Methods of payment: Registration forms received without check, credit card number or purchase order number will not be processed until payment is received. Registration is non-transferable.

- Check in U.S. Dollars only \$ _____
 Credit Card Payment (see below)
 Telephone: 916-734-1574
 Fax: 916-734-2975

Make check payable to: UC Regents

Send to:

Beng Salud, BSBA, Education Manager
 Department of Anesthesiology & Pain Medicine
 4150 V Street, Suite 1200 PSSB
 Sacramento, CA 95817

Payment by credit card: For your protection, do not fax or email your registration form with credit card information. Please mail your registration or contact Beng Salud at (916) 734-1574 for assistance if you would like to use a credit card.

Bill To: Visa MasterCard American Express Amount to be charged: \$ _____

Credit card number: _____ Expiration date _____ CVV code _____

Card member's name: _____ Signature _____
 (Please print)

Register online: <http://conferences.ucdavis.edu/28thanesthesiologyupdate>

Department of Anesthesiology & Pain Medicine
4150 V Street, Suite 1200 PSSB
Sacramento, CA 95817

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**If you cannot attend .. Please
give brochure to a colleague!**

DATED MATERIAL

MONTEREY PLAZA HOTEL

400 Cannery Row, Monterey, California

October 27-29, 2017

Friday - Sunday

28TH ANNUAL UC DAVIS ANESTHESIOLOGY UPDATE

HIGHLIGHTS

- Difficult Perioperative Dilemmas faced by the Perioperative Anesthesiologist
- Design and implementation of a Perioperative Surgical Home (PSH)
- Point of Care ultrasound
- Ultrasound Applications for the Anesthesiologist
- Brains On! Workshop
- Pediatric anesthesia, neuro-anesthesia, cardiac patient management and monitoring updates
- Problem Based Learning Discussion at Breakfast Round tables
- Wine and Cheese Reception Friday evening at the Monterey Plaza hotel

This program is self-supporting and receives no state funding