



33rd ANNUAL UC DAVIS

Anesthesiology Update

**NOVEMBER
4-6, 2022**

Monterey Plaza Hotel
MONTEREY, CA

UCDAVIS

Anesthesiology & Pain Medicine

PROGRAM

Friday, November 4, 2022

7:00 am - 7:40 am	Registration Continental Breakfast, Visit Exhibits
7:40 am - 7:45 am	Welcome and Course Objectives <i>Moderator: Stephen M. Macres, M.D., Pharm.D. & Orode Badakhsh, M.D.</i>
7:45 am - 8:30 am	Is Opioid-Free Anesthesia and Analgesia a Rational Goal? <i>Eugene Viscusi, M.D.</i>
8:30 am - 9:15 am	Perioperative Management of the opioid dependent patient <i>Stephen M. Macres, M.D., Pharm.D.</i>
9:15 am - 10:00 am	The Plain truth about Fascial Plane blocks: An Overview <i>Amy Chen, M.D.</i>
10:00 am - 10:30 am	Refreshment Break, Visit Exhibits
10:30 am - 12:00 pm	State of the Art Series: Acute Perioperative Pain Management: Total Knee Arthroplasty: <i>Robert Bishop, M.B.B.S</i> Total Hip Arthroplasty: <i>Diana Dremsa, M.D.</i> Shoulder Surgery: <i>Usha Saldanha, M.D.</i> Management of Rib Fractures: <i>Robin Aldwinckle, B.M.B.S., FRCA</i>
12:00 pm - 12:30 pm	Q & A <i>Drs. Bishop, Dremsa, Saldanha and Aldwinckle</i>
12:30 pm - 1:30 pm	Lunch for Workshop Participants

Saturday, November 5, 2022

7:00 am - 7:45 am	Registration Continental Breakfast, Visit Exhibits
7:45 am - 8:00 am	Welcome and Course Objectives <i>Moderator: Richard L. Applegate II, M.D., F.A.S.A & Orode Badakhsh, M.D.</i>
8:00 am - 8:30 am	Perioperative Considerations in the Management of Heart Failure <i>Orode Badakhsh, M.D.</i>
8:30 am - 9:00 am	Anesthesia in the EP Lab <i>Nicole Weiss, M.D.</i>
9:00 am - 9:30 am	Management of Pulmonary Hypertension <i>Paul Frank, M.D.</i>
9:30 am - 10:00 am	Hemostasis Update <i>Aubrey Yao, M.D.</i>
10:00 am - 10:30 am	Refreshment Break, Visit Exhibits
10:30 am - 11:00 am	Intra-operative Monitoring and Reversal of Neuromuscular Blockade: What Everyone Not in this Room Should Know <i>Neal Fleming, M.D., Ph.D.</i>
11:00 am - 11:30 am	Post-Acute Sequelae of SARS CoV-2 Infection <i>Joshua Santos, M.D.</i>
11:30 am - 12:30 pm	A System's Approach to a Novel Procedure <i>Rajvinder Dhamrait, B.M.B.S., FCACS, FRCA</i>
12:30 pm - 1:30 pm	Lunch for Workshop Participants

Ultrasound Applications for the Anesthesiologist Workshop Friday 1:30 pm - 5:00 pm (with 30 minute break)

The Friday afternoon workshop will be a comprehensive review of Upper & Lower Extremities and Truncal Nerve Blocks. This 3-hour ultrasound-guided regional anesthesia workshop focuses on hands-on scanning and needling practice.

Additional fee and registration required. The American Society of Anesthesiology designates this live activity for a maximum of 3 AMA PRA Category 1 Credits™

Robin Aldwinckle, B.M.B.S., F.R.C.A., Robert Bishop, M.B.B.S., Amy Chen, M.D., Diana Dremsa, M.D., Stephen M. Macres, M.D., Pharm.D., Usha Saldanha, M.D.

Ultrasound Applications for the Anesthesiologist Workshop Saturday 1:30 pm - 5:00 pm (with 30 minute break)

The Saturday afternoon workshop will be a comprehensive review of POCUS workshop including Transthoracic Echocardiography (TTE), Lung, Gastric and Abdominal Ultrasound.

Additional fee and registration required. The American Society of Anesthesiology designates this live activity for a maximum of 3 AMA PRA Category 1 Credits™

Orode Badakhsh, M.D., Robert Bishop, M.B.B.S., Neal Fleming, M.D., Ph.D., Paul Frank, M.D., Nicole Weiss, M.D., Aubrey Yao, M.D.

Friday November 4 - 6:00 pm - 8:00 pm
Dolphins Ballroom
MEET THE FACULTY NETWORKING RECEPTION
Included in tuition, pre-registration required
(guests invited for \$75)

PROGRAM

Sunday, November 6, 2022

7:00 am - 7:45 am	Registration Continental Breakfast, Visit Exhibits <i>Moderator: Stephen M. Macres, M.D., Pharm.D. & Orode Badakhsh, M.D</i>
7:45 am - 8:45 am	AI & Anesthesia: A Brave New World <i>Sesh Mudumbai, M.D.</i>
8:45 am - 9:45 am	Transitional Pain - Bridging the Gap from Acute to Chronic Pain in the Peri-operative Period <i>T. Kyle Harrison, M.D.</i>
9:45 am – 10:00 am	Refreshment Break, Visit Exhibits
10:00 am – 11:00 am	An Update on Perioperative Brain Health <i>Richard L. Applegate II, M.D., F.A.S.A and Amrik Singh, M.D.</i>
11:00 am – 11:30 am	Panel Q & A <i>Drs. Mudumbai, Harrison, Applegate and Singh</i>
11:30 am – 12:00 pm	Know Before You Go <i>Richard L. Applegate II, M.D., F.A.S.A.</i>
12:00 pm	Adjourn

Have a safe journey home!

2022 POCUS Curriculum Online Learning Workshop

Basic Ultrasound Physics

- Guidelines - 30 minutes

Focused Cardiac Ultrasound

- Guidelines - 90 minutes
- Image Acquisition, Interpretation & Assessment - 60 minutes

Focused Gastric Ultrasound

- Guidelines - 60 minutes
- Image Acquisition, Interpretation & Assessment - 60 minutes

Lung Ultrasound

- Guidelines - 60 minutes
- Image Acquisition, Interpretation & Assessment - 60 minutes

The online POCUS activity should be completed prior to the November live workshop. The curriculum will be available August 2022.

The American Society of Anesthesiologists designates this enduring material for a maximum of 7.0 AMA PRA Category 1 Credits™.

Physicians should claim only the credit commensurate with the extent of their participation in the course



FACULTY

Course Chair

Stephen M. Macres, M.D., Pharm.D.

Professor

Director, Acute Pain Services

Fellowship Director, Regional Anesthesia and Acute Pain Medicine

Orode Badakhsh, M.D.

Associate Professor

Fellowship Director, Adult Cardiothoracic Anesthesia

Course Co-Chairs

Richard L. Applegate II, M.D., F.A.S.A.

Professor and Chair

Amrik Singh, M.D., F.A.S.A.

Professor and Vice Chair

Guest Faculty

T. Kyle Harrison, M.D.

Professor, Department of Anesthesiology, Perioperative and Pain Medicine

Staff Anesthesiologist, Stanford University

Stanford University School of Medicine

Sesh Mudumbai, M.D., M.S.

Assistant Professor, Department of Anesthesiology,

Perioperative and Pain Medicine

Director, VISN 21 clinical Informatics Systems and

Perioperative Analytics

Staff Anesthesiologist, VA Palo Alto HCS

Stanford University School of Medicine

Eugene Viscusi, M.D.

Professor, Department of Anesthesiology

Director, Acute Pain Management Services

Thomas Jefferson University



FACULTY

UC Davis Department of Anesthesiology and Pain Medicine

Robin Aldwinckle, B.M.B.S., F.R.C.A.

Associate Professor

Director, Same Day Surgery Center

Robert Bishop, M.B.B.S.

Assistant Professor

Amy Chen, M.D.

Assistant Professor

Rajvinder Dhamrait, B.M.B.S., F.C.A.C.S.I., F.R.C.A.

Professor

Director, Pediatric Anesthesiology

Diana Dremsa, M.D.

Assistant Professor

Neal W. Fleming, M.D., Ph.D

Professor

Vice Chair for Education

Paul Frank, M.D.

Assistant Professor

Usha Saldanha, M.D.

Assistant Professor

Joshua Santos, M.D.

Assistant Professor

Nicole Weiss, M.D.

Assistant Professor

Aubrey Yao, M.D.

Professor

Cardiothoracic Anesthesiology Section Head

Conference Coordinator

Brenda Juan - CME Coordinator

916-734-5359

bojuan@ucdavis.edu

Department of Anesthesiology and Pain Medicine

PROGRAM INFORMATION

Needs Assessment

Advances in medications and monitoring technology allow anesthesiologists to continuously improve the quality and safety of clinical care. These advancements also contribute to the constantly expanding role anesthesiologists play within the patient care model. This conference will provide learners with evidence-based methods, strategies and knowledge to more effectively fulfil their role as perioperative physicians, whose responsibilities extend to patient care beyond just the operating room.

Ultrasound Guided Regional Anesthesia Workshop

The proper use of peripheral nerve blocks and peripheral nerve stimulation are invaluable tools in our armamentarium for the treatment of acute perioperative pain. Application of ultrasound guidance for the performance of peripheral nerve blocks and peripheral nerve stimulation allows the practitioner to efficiently perform the procedure while optimizing safety and efficacy. As such, ultrasound guidance for the performance of peripheral nerve blocks and peripheral nerve stimulation has rapidly become the standard of care in clinical practice.

Point of Care Ultrasound (POCUS) Workshop

POCUS is gaining increased adoption within Anesthesiology and is now considered a CORE COMPETENCY for residents graduating within the specialty. POCUS utilizes various bedside ultrasound modalities for diagnostic or procedural purposes in order to enhance patient care and safety.

Target Audience

This course is designed for anesthesiologists, pain medicine physicians, residents and fellows. In addition, nurses and nurse anesthetists, with an interest in anesthesiology and involved as part of the perioperative care team of surgical patients may find this course beneficial.

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

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 and Pain Medicine.

Disclosures

All of the relevant financial relationships have been mitigated. All other planners, faculty, reviewers, and staff have disclosed no relevant financial relationships with ineligible companies.

Name	Role	Interest	Ineligible Company
Richard Applegate II, M.D.	Planner	Research Grant	Merck
Richard Applegate II, M.D.	Planner	Research Grant	Masimo
Richard Applegate II, M.D.	Planner	Research Grant	Pfizer
Neal Fleming, M.D., Ph.D.	Faculty	Honorarium/Contract	Edwards Lifesciences
Neal Fleming, M.D., Ph.D.	Faculty	Research Grant	ECOM Medical Inc.
Neal Fleming, M.D., Ph.D.	Faculty	Research Grant	Masimo
Neal Fleming, M.D., Ph.D.	Faculty	Research Grant	Tsumura USA, Inc.
Neal Fleming, M.D., Ph.D.	Faculty	Research Grant	Pfizer Canada Inc.
T. Kyle Harrison, M.D.	Faculty	Grant	Lucid Lane
Eugene Viscusi, M.D.	Faculty	Consultant	Heron Therapeutics, Inc.
Eugene Viscusi, M.D.	Faculty	Consultant	Innocoll
Eugene Viscusi, M.D.	Faculty	Consultant	Salix Pharmaceuticals

PROGRAM INFORMATION

Objectives

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

1. Predict the polytrauma patient's risk of morbidity and mortality, and provide a framework for therapeutic interventions
2. Recognize patients with pulmonary hypertension and tailor perioperative management accordingly
3. Describe innervation to the shoulder joint
4. Describe the pathogenesis; recognize the signs and symptoms; and manage PASC
5. Monitor and optimize brain function perioperatively
6. Describe the emerging concept of multimodal anesthesia, be conversant in the relative analgesic potency of various available drugs, the potential of perioperative opioids to the opioid crisis, and apply emerging concepts of non-opioid treatment
7. Review the literature covering the risks and benefits of anesthesia type in regard to patient outcomes in various EP procedures (IV versus inhaled, MAC versus general, etc)
8. Improve competence in treating coagulopathy
9. Cite the indications for various Point-of care Ultrasound (POCUS) modalities
10. Discuss the multi-stage challenges of a unique, novel and rare anesthetic case
11. Identify multiple etiologies of heart failure
12. Discuss the differences between implications of systolic and diastolic heart failure

ACCREDITATION

PROVIDED
BY:



This course has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of American Society of Anesthesiologists and UC Davis Department of Anesthesiology and Pain Medicine. The American Society of Anesthesiologists is accredited by the ACCME to provide continuing medical education for physicians.

- **Physician Credit:** The American Society of Anesthesiologists designates this live course for a maximum of 18.25 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the course.
- **Nurse:** For the purpose of recertification, the American Nurses Credentialing Center accepts *AMA PRA Category 1 Credit™* issued by organizations accredited by the ACCME. For the purpose of re-licensure, the California Board of Registered Nursing accepts *AMA PRA Category 1 Credit™*.
- **Physician Assistant:** The National Commission on Certification of Physician Assistants (NCCPA) states that *AMA PRA Category 1 Credit™* 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 12.25 Class A CE credits; Code Number 1037737.

AMA PRA Category 1 Credit™

General Session:

Maximum of 12.25 *AMA PRA Category 1 Credits™*

Optional Afternoon Workshops:

Friday – Maximum of 3 *AMA PRA Category 1 Credits™*

Saturday - Maximum of 3 *AMA PRA Category 1 Credits™*

Optional Online Workshop:

Maximum of 7 *AMA PRA Category 1 Credits™*

Completing the online and live activities will offer participants a maximum of **25.25 *AMA PRA Category 1 Credits™***.



LODGING

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

Please see the link below to book directly with Monterey Plaza
<https://tinyurl.com/mv89mwww>

\$255 Inland View \$305 Partial Ocean View
\$367 Ocean View \$459 Ocean View Balcony

A block of rooms is being held for conference participants at a rate of \$255 single or double occupancy plus hotel and sales tax. After October 3, 2022, 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 3, 2022.

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 (MRJ)

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.

REGISTRATION

Please register early – space is limited.

Early Bird Discount \$779

Confirmation of registration will be sent within two weeks after receipt of registration form. The fees will increase after September 6, 2022.

Tuition includes continental breakfasts, refreshment breaks, electronic syllabus, and an online workshop. Tuition may be paid by check, American Express, Discover, MasterCard or VISA. Please note, credit card payments are accepted online only via registration link. 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 21, 2022. The Department of Anesthesiology and 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. Payment must be received within 10 days of registration. 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 \$150 administrative fee, will be allowed if requested in writing by October 4, 2022. No refunds will be provided after this date.

Electronic Evaluation and Credit

The American Society of Anesthesiologists (ASA) is the accredited joint provider for this meeting. A link to access course materials, evaluations, and CME certificates will be sent to the email on your ASA account. Please use this email when registering for the course.

Disclaimer

The information provided at this accredited course is for continuing education purposes only and is not meant to substitute for the independent medical judgment of a healthcare provider relative to diagnostic and treatment options of a specific patient's medical condition.



COURSE REGISTRATION

33rd ANNUAL UC DAVIS ANESTHESIOLOGY UPDATE, NOVEMBER 4-6, 2022

Receipt/confirmation will be emailed within two weeks	Early Discount	After Sept 6	On Site	FEE DUE
All	\$779	\$857	\$943	

UC Davis Affiliate Fees (Please specify)
☐ Faculty ☐ Alumni ☐ Staff

Receipt/confirmation will be emailed within two weeks	Early Discount	After Sept 6	On Site	FEE DUE
All	\$625	\$690	\$759	

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, 1:30 PM - 5:00 PM (lunch included)	\$300
Regional Anesthesia Workshop Saturday, 1:30 PM - 5:00 PM (lunch included)	\$300

Meet The Faculty Networking Reception (included in tuition, pre-registration required, guests invited)

FEE DUE	
☐ I will attend the Friday evening Meet the Faculty Reception ☐ I will not attend the Friday evening Meet the Faculty Reception	N/A

Guests
 I will bring _____ adults and children at \$75 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	
Number of Adults _____ Name(s) _____	\$150

TOTAL FEES

First Name MI Last Name

☐ MD ☐ DO ☐ PA ☐ NP ☐ RN
☐ ASA ID # _____

All attendees claiming credit need an ASAID. If you do have one, you can create a free account here. <https://www.asahq.org/member-center/create-account>

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

Email for registration and certificate processing:

Address City State Zip Code

() ()
 Day Phone Fax

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

☐ AN ☐ PAIN ☐ APM ☐ PMD ☐ PPN
☐ Other (specify) _____

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.

Everyone's health and safety is our priority, we will be asking for the following during registration:
Vaccinated Attendees: Proof of vaccination
Non-vaccinated attendees: Negative PCR test, 72 hours prior to your arrival

Social distancing will be maintained during lectures, general sessions, workshops, and exhibit halls

Register Online:
<https://ces.ucdavis.edu/anesthesiologyupdate>

Method of Payment:

Check: Please make check payable to: UC Regents

Mail application and payment to:
 Brenda Juan
 Department of Anesthesiology and Pain Medicine
 4150 V Street, PSSB Suite 1200
 Sacramento, CA 95817

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

Non-Profit Org.
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Permit No.

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

DATED MATERIAL

MONTEREY PLAZA HOTEL

400 Cannery Row, Monterey, California

November 4-6, 2022

Friday - Sunday

33rd ANNUAL UC DAVIS ANESTHESIOLOGY UPDATE

HIGHLIGHTS

- Focus on Minimizing the Risks of Anesthesia Care
- Interactive Discussions on Hot Topics in Acute Pain, Pediatric, and Cardiac Anesthesia
- Topics on Brain Health Update, Overview on the Development and Importance of a Transitional Pain Service, AI and Anesthesia, Opioid -Free Anesthesia and Analgesia
- Ultrasound Applications for the Anesthesiologist Workshop
- Wine and Cheese Reception Friday Evening at the Monterey Plaza Hotel
- This activity contributes to the CME component of the American Board of Anesthesiology's redesigned Maintenance of Certification in Anesthesiology® (MOCA®) program, known as MOCA 2.0®.

Maintenance of Certification in Anesthesiology® and MOCA® are registered certification marks of the American Board of Anesthesiology®. MOCA 2.0® is a trademark of the American Board of Anesthesiology®.

This program is self-supporting and receives no state funding.