NEUROSURGERY UPDATE
IN WINE COUNTRY

Thursday - Saturday
August 1-3, 2019
Fairmont Sonoma Mission Inn • Sonoma, California
The Department of Neurosurgery at the University of California San Francisco invites you to attend its annual Neurosurgery Update course. The course will be held at the Fairmont Sonoma Mission Inn in Sonoma, California August 1-3, 2019. The program endeavors to provide the latest updates and recent advances in the field of neurosurgery. Neurosurgeons, neurosurgery residents, nurse practitioners, physician assistants, and advanced health practitioners can benefit from this program in the treatment of neurosurgical problems. Now in its thirteenth year, it will cover the entire spectrum of neurosurgical topics.

OBJECTIVES
An attendee completing this course will be able to:

• Incorporate into practice the latest surgical techniques in the management of minimally-invasive spinal disorders;
• Improve the management of brain tumors using the most up-to-date data and studies;
• Recognize and interpret the nuances of pain management in spinal disorders and treat accordingly;
• Improve patient outcomes through medical and surgical management of pituitary disorders;
• Provide modern management of cerebrovascular disorders based on the most current data;
• Use modern management techniques in the treatment of neurotrauma;
• Use evidence-based data in performing pediatric neurosurgery.

ACCREDITATION
The University of California, San Francisco School of Medicine (UCSF) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. UCSF designates this live activity for a maximum of 15.50 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity. This CME activity meets the requirements under California Assembly Bill 1195, continuing education and cultural and linguistic competency.

Pain Management and Care for the Terminally Ill
The approved credits shown above include 3.00 AMA PRA Category 1 Credits™ towards meeting the requirement under California Assembly Bill 487, Pain Management and Care for the Terminally Ill.

Nurses
For the purpose of recertification, the American Nurses Credentialing Center accepts AMA PRA Category 1 Credit™ issued by organizations accredited by the ACCME.

Physician Assistants
AAPA accepts AMA PRA Category 1 Credit™ from AOACCME. Prescribed credit from AAFP, and AMA Category 1 Credit for the PRA for organizations accredited by the ACCME.
THURSDAY, AUGUST 1, 2019
12:00 - 12:30 pm Registration
SPINE, TRAUMA, AND ANATOMY
12:30 Welcome / Overview / Pre-Test
12:45 P Anterior Cervical Foraminotomy with Uncinate Process Resection: the Power of Direct Nerve Root Decompression
1:05 P Which Interbody Approach to Choose for MIS Surgery Applying Advances in Perfusion and Electrophysiology to Improve Outcomes After Spinal Cord Injury and High Risk Spine Surgery
1:45 P Anterior Cervical Fusion Optimization: Can We Do Better?
2:05 P Percutaneous Sacroiliac Joint Fusion: Indications and Technique
2:25 P Predictive Modeling and Precision Medicine: the Future of Complex Costly Care
2:45 Coffee Break
3:15 P 3D Surgical Anatomy of the Craniofacial Junction
3:35 P The Roussouly Classification: a different Way to Evaluate Spino-pelvic Morphology
3:55 P Lumbar Alignment Restoration Techniques
4:15 Development and Implementation of an Outpatient Spine Surgery Program at an Academic Institution
4:35 P Pain Therapy Options in Our current Opioid Abuse Climate
5:15 P Biologic Treatments for Painful Discs: Fact or Fiction
5:35 - 6:00 Discussion with Questions and Answers
6:00 - 7:30 pm Wine Tasting Reception in Exhibit Area
FRIDAY, AUGUST 2, 2019
7:00 - 7:30 am Continental Breakfast
FUNCTIONAL, PERIPHERAL NERVE, EPILEPSY, TRAUMA, PEDIATRICS
7:30 Introduction/Opening Remarks
7:35 Emerging Technology in the Surgical Treatment of Movement Disorders
7:55 DBS for Tinnitus: Results of a Phase 1 Clinical Trial
8:15 Deep Cerebellar Stimulation for Post-stroke Rehabilitation
8:35 The Next Generation of Implantable Brain Devices
8:55 P Deep Brain Stimulation of the Ventral Striatial Area for the Affective Sphere of Chronic Pain
9:15 Coffee Break

COURSE CO-CHAIRS
Mitchel S. Berger, MD
Berthod and Belle N. Guggenheim Professor; Chairman, Department of Neurological Surgery; Director, Brain Tumor Research Center, University of California, San Francisco
Dean Chou, MD
Professor of Neurological Surgery; Associate Director, UCSF Spine Center, University of California, San Francisco

SPECIAL GUEST FACULTY
Peter C. Gerszten, MD, MPH, FACS
Professor and vice Chair of Neurology; Chair, Neurological Research and Education Foundation • Rolling Meadows, IL
Regis W. Haid Jr., MD
Vice President, American Association of Neurological Surgeons Chair, Neurosurgical Research and Education Foundation • Rolling Meadows, IL

André Machado, MD, PhD
Chairman, Neurological Institute; Charles and Christine Carroll Family Endowed Chair in Functional Neurosurgery, Cleveland Clinic • Cleveland, OH

COURSE FACULTY
Adib A. Abla, MD
Associate Professor of Neurological Surgery; Chief of Vascular Neurosurgery; Director, Cerebrovascular Surgical Disorders Program; Tong-Po Kan Chair in Neurological Surgery; Director, Neurological Surgery; lai wan Kan Biobank, Neurosurgical Institute of San Francisco unless indicated

Christopher P. Ames, MD
Professor of Clinical Neurological Surgery and Orthopedic Surgery; Director of Spine Tumor & Spinal Deformity Surgery; Co-director, Spinal Surgery and UCSF Spine Center; Director, California Deformity Institute; Director, Spinal Biomechanics Laboratory

Edward F. Chang, MD
Professor of Neurological Surgery; Chief of Epilepsy Surgery; Co-director Center for Neural Engineering and Prostheses at UC Berkeley and San Francisco

Susan M. Chang, MD
Professor and Vice Chair of Neurological Surgery; Lai Wan Kan Endowed Chair; Director, Division of Neuro-Oncology; Program Member, UCSF Comprehensive Cancer Center
FRIDAY, AUGUST 2, 2019 (CONT'D)

9:45  Surgical Approach of Peripheral Nerve Sheath Tumors at C8 and T1
      Line Jacques, MD

10:05 Dissecting the Function of Human Auditory Cortex
       Edward F. Chang, MD

10:25  Traumatic Brain Injury: a Field in Rapid Evolution
       Geoffrey Manley, MD, PhD

10:45  Advanced Imaging in Pediatric Neurosurgery
       Nalin Gupta, MD, PhD

11:05  Gene Therapy for Children with Primary Aromatic L-Amino Acid Decarboxylase Deficiency
       Peter P. Sun, MD

11:25  Minimally-invasive Correction of Craniosynostosis
       Mitchell S. Berger, MD

11:45  Case Discussions / Questions and Answers
       Dean Chou, MD

11:45 am - 1:00 pm Case Presentations / Question and Answers

6:15 pm  Winery Dinner (optional event with additional fee)
         (bus will pick-up at approximately 6:15 pm)

SATURDAY, AUGUST 3, 2019

7:00 - 7:30 am  Continental Breakfast

TUMOR, VASCULAR, SKULL BASE

7:30  Update on Management of Aggressive Meningiomas
      Michael W. McDermott, MD

7:50  Preoperative Evaluation of Pituitary Pathology – Avoiding the Unexpected
      Sanjeev Kunwar, MD

8:10  5-aminolevulinic Acid, Fluorescein Sodium, and Other Adjuvants to Guided Maximal Resection for Low and High-grade Gliomas
      Shawn Hervey-Jumper, MD

8:30  Awake Brain Mapping for Eloquent Glioma
      Jingsong Wu, MD, PhD

8:50  A New Model to Predict Outcomes in Patients Undergoing Surgery for High Grade Gliomas
      Mitchell S. Berger, MD

9:10  Clinical Trials Landscape for Glioma
      Susan M. Chang, MD

9:30  Coffee Break

10:00 Aggressive Recurrent Schwannomas: the Missing Piece of the Puzzle
      Philip V. Theodosopoulos, MD

10:20 Endovascular Treatment of Ruptured Intracranial Aneurysms: Long-term Results
      Cameron G. McDougall, MD

10:40 Tricks and Techniques for Treatment of Wide-neck Aneuvers Using Endovascular Therapies
      Adib A. Abla, MD

11:20 Flow Diverters for Intracranial Aneurysms: the Revolution Continues
      Cameron G. McDougall, MD

11:40 Research and Development of Artificial Intelligence Neuropathologist
      Jingsong Wu, MD, PhD

12:00 pm  Post-course Test

12:20  Cases / Questions and Answers / Closing Remarks
      Mitchell S. Berger, MD

1:30 pm  Adjourn

P – Pain Credit
**Upcoming CME Courses**

**14th Annual Spine Symposium**
May 31 - June 1, 2019
Parc 55 Hilton – San Francisco, CA

**Spinal Surgery Blockade Lab:**
Techniques and Advances
November 8, 2019
Vdara Hotel – Las Vegas, NV

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**GENERAL INFORMATION**

Pre-registration is preferred to ensure that registrants receive a syllabus at the course. Generally we are able to accommodate on-site registration at the course. Pre-registration closes on Tuesday, July 30th at 11:00 am PST.

**HOW TO ENROLL**

*Tuition:*

<table>
<thead>
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<th>Category</th>
<th>By 5/31/19</th>
<th>After 5/31/19</th>
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<tr>
<td>Practicing Physicians</td>
<td>$425</td>
<td>$475</td>
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<tr>
<td>Nurses/Pharmacists/PA's</td>
<td>$325</td>
<td>$375</td>
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<tr>
<td>Advanced Health Practitioners</td>
<td>$225</td>
<td>$275</td>
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</table>

*On-site registration will be $50 additional.*

Payment may be made by Visa, MasterCard, AmEx or check.

**REGISTER VIA:**

- Online: [cme.ucsf.edu](http://cme.ucsf.edu)
- Mail: Complete course registration form and send with payment to:
  UCSF Office of CME
  3333 California Street, Suite 450
  San Francisco, CA 94118
- Fax: Fax completed registration form to:
  (415) 502-1795 (be sure to include your credit card number)
- Phone: To register by phone or to inquire about registration status, please call the UCSF CME Registration Office at (415) 476-5808.

Please check our website for up-to-date information on the course: [cme.ucsf.edu](http://cme.ucsf.edu)

**REFUND POLICY**

Cancellations received in writing before June 30, 2019, will be refunded, less a $100 administrative fee. No refunds will be made on cancellations received after that date.

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**CONFERENCE LOCATION**

The Fairmont Sonoma Mission Inn is the ultimate Wine Country destination blessed by natural mineral hot springs in the Sonoma Valley of California. Enjoy Sonoma’s rustic surroundings amidst the backdrop of a dynamic wine region that is home to award winning wineries, stately redwoods, magnificent coastlines, and plenty of shopping. It’s also the closest wine region to San Francisco, just 45 miles north of the Golden Gate Bridge.

A block of guestrooms has been reserved at the special UCSF conference rates of $339 Standard / $389 Deluxe / $519 Junior Suite / $579 Mission Suite plus a $35 per night resort fee and applicable occupancy tax.

You are urged to make your reservations early. The special rate is available through June 30, 2019, or until the group room block is filled. After this date, rooms will be provided on a space-available basis only.

You may make hotel reservations on-line by visiting the course webpage on our website at [cme.ucsf.edu](http://cme.ucsf.edu).

Please click on the More Info tab next to the course listing in the CME Calendar and you’ll find the reservations link in the Travel & Lodging section. If you prefer, you can phone the Fairmont at 888-710-8008 and identify yourself as a member of this UCSF conference to receive the special rate.

By staying at the host hotel, you help UCSF meet its contractual obligations and keep registration fees reasonable. Please take this into consideration when making your accommodation decisions.

**AIR TRANSPORTATION AND RENTAL CAR**

UCSF has negotiated special fares with airlines and car rental agencies for our course attendees. Please visit the Travel and Lodging section on the course webpage at [cme.ucsf.edu](http://cme.ucsf.edu) for more information and discount codes.
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Mail to: UCSF Office of CME
3333 California Street, Suite 450
San Francisco, CA 94118
Fax: (415) 502-1795

Online registration: cme.ucsf.edu
Registration Information: (415) 476-5808
Course Information: (415) 476-4251

Dr. □ Ms. □ Mr. □ Mrs.

LAST NAME FIRST M.I.

DEGREE SPECIALTY

ADDRESS

CITY STATE ZIP

DAYTIME PHONE FAX

EMAIL

Address Label Code Letter (see address label: example, A, B, C, D, etc.) ______________________

Would you like to be on our priority email list? □ Yes □ No

Date of birth to be used as OCME registrant number: ___ ___ / ___ ___ / X X

Please indicate if you have any special needs: _______________________________________

| Registration Fees (receipt/Confirmation will be mailed within two to four weeks): |
| Tuition*: | By 5/31/19 | After 5/31/19 |
| Physicians | □ $425 | □ $475 |
| Nurses/Pharmacists/Allied Health Professionals | □ $325 | □ $375 |
| Residents/Fellows | □ $225 | □ $275 |

* On-site registration will be $50 additional.

Wine Tasting Reception – Thursday 8/1/19

Please confirm below so we may plan for the appropriate number of people

□ I will attend the Thursday Reception (included in tuition) □ I will not attend
□ I will bring a guest @ $50 each (limited to one adult guest/ no one under 21 permitted)

Winery Dinner – Friday 8/2/19 (No refunds or cancellations)

Please confirm below so we may plan for the appropriate number of people

□ I will attend the Friday Winery Dinner @ $150.00 □ I will not attend

Meal Choice: □ Beef □ Fish □ Vegetarian

□ I will bring a guest @ $150 each (limited to one adult guest/ no one under 21 permitted)

Meal Choice: □ Beef □ Fish □ Vegetarian

Make checks payable to UC Regents

Please charge my credit card: □ Visa □ MasterCard □ AmEx for $ __________________________

CARD # __________/__________

NAME ON CARD (PLEASE PRINT) AUTHORIZED SIGNATURE

Cancellations received in writing by July 30, 2019 will be refunded, less a $100 administrative fee. No refunds will be made on cancellations received after that date.

Fairmont Sonoma Mission Inn
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