

Presented by the
Departments of Orthopaedic Surgery
and Neurological Surgery
University of California, San Francisco



13TH ANNUAL UCSF SPINE SYMPOSIUM

PARC 55 SAN FRANCISCO, A HILTON HOTEL

FRIDAY - SATURDAY

June 1-2, 2018



COURSE DIRECTORS

Shane Burch, MD

Associate Professor of Orthopaedic Surgery

Praveen Mummaneni, MD

Joan O'Reilly Endowed Professor

Vice Chair, Department of Neurosurgery

Lionel Metz, MD

Assistant Professor of Orthopaedic Surgery

UCSF Spine Center



13TH ANNUAL UCSF SPINE SYMPOSIUM

**Parc 55 San Francisco –
a Hilton Hotel**
San Francisco, CA

The UCSF Spine Symposium is an annual two day event emphasizing pioneering trends in diagnostic and therapeutic strategies for patients suffering from spinal disorders. This course is designed to be interactive with talks given by leaders in the spine community. All lectures are followed by case discussions aimed at highlighting key issues in breakthrough treatments. The course is designed for neurosurgeons, orthopedists, nurses, physical therapists, physiatrists, anesthesiologists, pain specialists as well as primary care providers.

OBJECTIVES

The purpose of this course is to increase competence and improve clinical practice in the management of patients with spinal pathologies. Attendees will be better equipped to:

- Evaluate and treat spinal pain in a cost effective and reliable manner based on recently published guidelines;
- Identify appropriate indications for surgery of the painful, degenerated spine and identify the appropriate surgical approach in the painful, degenerative spinal conditions based on recently published guidelines;
- Evaluate and treat lumbar degenerative disease and deformity in a cost effective manner and avoid perioperative complications by identifying risk factors that may predispose to morbidity;
- Determine pain management strategies for patients with spine-related pain;
- Increase utilization and competence with NASS spinal stenosis guidelines;
- Provide physical exams that include a process to identify lower extremity pain that dissipates while sitting and exacerbates with standing or walking;
- Identify spinal instability related to spinal tumors and formulate surgical treatment plans to deal with neurological deficits and pain in spine oncology patients based on recently published guidelines.

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 **12.75 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 End-of-Life Care

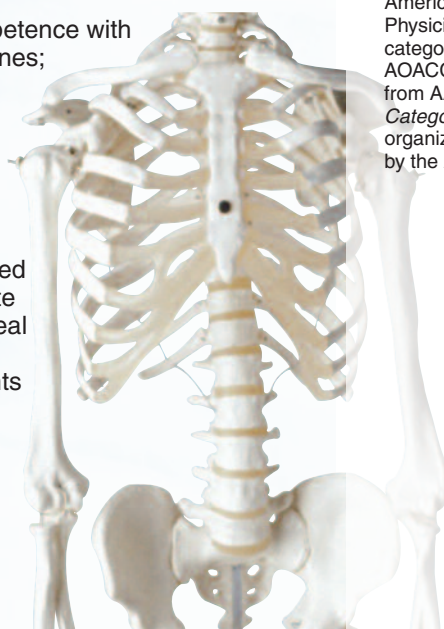
The approved credits shown above include a maximum of **8.25** credits toward meeting the requirement under California Assembly Bill 487, Pain Management and End-of-Life Care.

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

American Academy of Physician Assistants accepts category 1 credit from AOACME, Prescribed credit from AAFP, and **AMA PRA Category 1 Credit™** from organizations accredited by the ACCME.



13TH ANNUAL UCSF SPINE SYMPOSIUM

FRIDAY, JUNE 1, 2018

7:00 am		<i>Registration and Continental Breakfast</i>	
7:55		Welcome and Greeting	Shane Burch, MD and Praveen Mummaneni, MD
8:00	P	Explaining Pain	Stephen Baxter, MD
8:15	P	An Updated Lecture on Cervical Facet Joint Pain	Robert Gamburd, MD
8:30	P	Can We Find the Painful Disc?	Jeffrey C. Lotz, MD
8:45	P	Role of the Endplates in Back Pain	Aaron Fields, PhD
9:00	P	Complex Regional Pain Syndrome Type II-Causalgia	John W. Engstrom, MD
9:15	P	Do We Know Everything About Lower Back Pain? Literature Update	Sibel Deviren, MD
9:30		Guest Lecture Introduction	Praveen Mummaneni, MD
9:35	P	The Ecosystem of Back Pain	Ashwini D. Sharan, MD
10:05		Question and Answer Session	Praveen Mummaneni, MD
10:20		<i>Coffee Break</i>	
10:40		Diffusion Imaging of the Spine and Peripheral Nerves	Cynthia T. Chin, MD
10:55	P	Imaging Biomarkers of Facetogenic Pain	Vinil Shah, MD
11:10		Guest Lecture Introduction	Shane Burch, MD
11:15		Spine and the Machine: How Will Big Data Help to Make Us Better Doctors	Zohar Ghogawala, MD
11:45		Question and Answer Session	
12:00 pm		<i>Lunch in Exhibit Hall (included in registration fee)</i>	
1:00	P	Treatment of Spinal Pain: Role of Shared Decision-Making	Conor O'Neill, MD
1:15	P	Do Opioids Have a Role In Chronic Pain	Robert Hines, MD
1:30	P	Pain Management Options During the Opioid Epidemic	Melanie Henry, MD
1:45	P	Medical Cannabis and Spine Pain	Michael Moskowitz, MD
2:00	P	Perioperative Analgesic Management of Patients with Severe Chronic Pain	Jeremy Lieberman, MD
2:15	P	Revision Neuromodulation Surgery for Pain	Rishi Wadhwa, MD
2:30	P	Virtual Reality Technology in the Management of Back Pain	Scott Berta, MD
2:45	P	Intra-Articular Steroid Injections for Facet Joint Mediated Pain: a Review of Current Evidence	Patricia Zheng, MD
3:00	P	Interventional Pain Management Complications	David J. Lee, MD
3:15	P	Guest Lecture Introduction	Shane Burch, MD
3:20		Biologic Treatments for Disc Pain: Fact or Fiction?	Marko Bodor, MD
3:50	P	Case Presentations	Neil Bhamb, MD Catherine Miller, MD Paramjit Singh, MD
4:30 pm		<i>Adjourn</i>	
4:30-5:30 pm		<i>Wine Tasting Reception in Exhibit Hall</i>	

GENERAL INFORMATION

Advance registration closes at 10:00 am on Thursday, **May 31, 2018**. On-site registration fees will apply after advance registration closes.

HOW TO ENROLL

Early Bird Rates prior to 2/28/18

Tuition: Physicians	\$395 by 2/28/18
	\$475 after 2/28/18
Nurses/Pharmacists/Advanced Health Professionals/Residents/Fellows	\$300 by 2/28/18
	\$375 after 2/28/18

*Beginning on 5/31/18, registration will be \$50 additional

Payment can be made by American Express, Visa, MasterCard or check.

REFUND POLICY

Cancellations received in writing before **May 31, 2018** will be refunded, less a \$100 administrative fee. No refunds will be made on cancellations received after **May 31, 2018**.

REGISTER VIA:

Online: cme.ucsf.edu

Mail: Complete course registration form and send with payment to:
UCSF Office of CME
P.O. Box 45368
San Francisco, CA 94145-0368

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 UCSF's CME Registration Office at (415) 476-5808.

Please check our website for up-to-date information on the course: cme.ucsf.edu

On-Site Registration: Generally we are able to accommodate on-site registration at our courses, however pre-registration is preferred to ensure that we have adequate course materials.

SATURDAY, JUNE 2, 2018

7:00 am		Registration and Continental Breakfast	
8:00		Inbody Lumbar Fusions: Which “LIF” to Use and Why	Dean Chou, MD
8:15		MIS Deformity Algorithm to Help Treatment Planning	Praveen Mummaneni, MD
8:30		Vertebral Column Resection in the Treatment of Spinal Malignant and Infectious Etiologies	Aaron Clark, MD
8:45		Question and Answer Session	
9:00	P	Management of Painful Pathologic Fractures of the Thoracolumbar Spine	Murat Pekmezci, MD
9:15		Controversies in Spinal Trauma	Sanjay Dhall, MD
9:30	P	Pain After Adult Reconstruction Surgery	Lionel Metz, MD
9:45	P	Frailty and Spine Pain	Shane Burch, MD
10:00		Question and Answer Session	
10:15		<i>Coffee Break</i>	
10:35		Case Presentations	
11:20		Guest Lecture Introduction	Praveen Mummaneni, MD
11:25		Radiographs in Spine Surgery: Exposure Risks and Long Term Consequences to Patients and Physicians	John R. Dimar, MD
11:55		Question and Answer Session	
12:10 pm		<i>Course Luncheon (included in registration fee)</i>	
1:25	P	Predictive Modelling in Complex Spine Surgery: Evaluation of Pain, Function, and Appropriateness of Surgery	Sigurd Berven, MD
1:40	P	Predictive Analytics and Risk/Benefit Calculation in Patients with Spinal Pain	Christopher P. Ames, MD
1:55		Cortical Screw Fixation for Lumbar Fusion	Ronnie I. Mimran, MD
2:10	P	The Painful SI Joint: Should We Fuse the Joint? – Review SI Pathology and Treatment	Alan Dang, MD
2:25	P	The Pain of Adventure: a Review of Cases from Yosemite Valley	Gregory M. Helbig, MD
2:40	P	Treatment of Low Back Pain from the Perspective of a Community Neurosurgeon	Jeffrey S. Mimbs, MD
2:55		Question and Answer Session	
3:10		Case Presentations	
4:00 pm		<i>Adjourn</i>	
	P	• Pain Credit	

program

CONFERENCE LOCATION

Enjoy San Francisco's renowned attractions such as the historic cable cars, shopping in Union Square, or visit San Francisco's culinary hub at the Ferry Building.

The Parc 55 San Francisco is just steps from Union Square and the Theatre District and centrally located to many of San Francisco's famed sights such as the Embarcadero waterfront and Fisherman's Wharf.

A block of guestrooms has been reserved at the special UCSF conference rate of **\$229/night**. You are urged to make your reservations early. The cut-off date is **May 10, 2018**, or until the group room block is filled. After this date, rooms will be provided on a space-available basis only. To make hotel reservations please call 415-771-1400 and identify yourself as a member of this UCSF conference to receive the special rate.

You can also reserve your hotel rooms on-line by visiting the course webpage on our website at cme.ucsf.edu and clicking on the reservations link in the Travel & Lodging section.

By staying at the host hotel, you help UCSF meet its contractual obligations and keep registration fees reasonable.

RENTAL CAR

Hertz is offering special rates for participants of this conference; simply call 800-654-2240 and refer to convention number #03BW0137. You may also make reservations at www.Hertz.com. Advance reservations are recommended.

AIR TRANSPORTATION

UCSF has negotiated special fares with United Airlines for our course attendees. You may use the following code to book on your own:

United – www.united.com code: ZZ26868008

general info

For more information or to register online visit our website at cme.ucsf.edu. You may also reach us by calling the Office of CME at (415) 476-4251 or emailing info@ocme.ucsf.edu.

UPCOMING COURSES

Neurosurgery Update 2018
Thursday, August 2-4, 2018
Silverado Resort - Napa, California

UCSF

0569
University of California,
San Francisco
Office of CME
UCSF Box 0742
San Francisco, CA
94143-0742

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Shane Burch, MD
Associate Professor of
Orthopaedic Surgery
University of California, San Francisco

Praveen V. Mummaneni, MD
Joan O'Reilly Endowed Professor
Vice Chair, Department of
Neurosurgery; Director, Cervical Spine
Surgery; Director, Minimally
Invasive Spine Surgery;
Co-director, UCSF Spine Center;
University of California, San Francisco

Lionel Metz, MD
Assistant Professor of
Orthopaedic Surgery
University of California, San Francisco

SPECIAL GUEST FACULTY

Marko Bodor, MD
Bodor Clinic Regenerative Spine
and Sports Medicine, Napa, CA
Assistant Adjunct Professor,
Departments of Neurological Surgery
and of Physical Medicine
University of California San Francisco

John R. Dimar, MD
Professor of Orthopaedic Surgery
University of Louisville
Norton Leatherman Spine Center
Louisville, KY

Zohar Ghogawala, MD, FACS
Charles A. Fager Professor and Chair
Department of Neurosurgery
Lahey Hospital and Medical Center
Tufts University School of Medicine
Boston, MA

Ashwini D. Sharan, MD, FACS
Professor of Neurosurgery and
Neurology; Director, Functional
Neurosurgery and Neuroimplantation
Center; Residency Program Director,
Neurosurgery; Thomas Jefferson
University, Philadelphia, PA
President, Congress of Neurological
Surgeons

COURSE FACULTY

(University of California, San Francisco
unless indicated)

Christopher P. Ames, MD
Professor of Neurological Surgery
and of Orthopaedic Surgery

Stephen Baxter, MD
Assistant Clinical Professor
Physical Therapist

Scott Berta, MD
Assistant Clinical Professor of
Neurological Surgery

Sigurd Berven MD
Professor of Orthopaedic Surgery

Neil Bhamb, MD
Spine Fellow

Cynthia T. Chin, MD
Professor of Radiology and of
Neurosurgery

Dean Chou, MD
Professor of Neurological Surgery

Aaron Clark, MD, PhD
Assistant Professor of Neurological
Surgery

Alan Dang, MD
Assistant Professor of Orthopaedic
Surgery

Sibel Deviren, MD
Professor,
Department of Orthopaedic Surgery

Sanjay Dhall, MD
Associate Professor of Neurological
Surgery

Paul Eichenseer, MD
Spine Fellow

John W. Engstrom, MD
Betty Anker Fife Distinguished
Professor of Neurology

Aaron Fields, PhD
Assistant Researcher
Department of Orthopaedic Surgery

Robert Gamburd, MD
Physiatrist,
SOAR Physiatry Medical Group
Redwood City, CA

Gregory M. Helbig, MD
Neurosurgeon
Pacific Regional Neurosurgery,
Modesto, CA

Melanie Henry, MD
Associate Professor of Anesthesia
and Perioperative Care

Robert Hines, MD
Co-Director, Bay Area Pain Medical
Associates, Mill Valley, CA

David J. Lee, MD
Professor of Anesthesia and
Perioperative Care

Jeremy Lieberman, MD
Professor and Chief
Division of Spine Anesthesia

Jeffrey C. Lotz, PhD
Professor of Orthopaedic Surgery;
Vice Chair, Research

Catherine Miller, MD
Spine Fellow

Jeffrey S. Mimbs, DO
Neurosurgeon, Northstate
Neurosurgical Associates, Chico, CA

Ronnie I. Mimran, MD
Neurological Surgeon, Pacific Brain &
Spine Medical Group, Inc, Danville, CA

Michael Moskowitz, MD, MPH
Professor of Pain Medicine,
Department of Anesthesiology,
UC Davis; Bay Area Pain Medical
Associates

Valli Mummaneni, MD
Associate Professor of Anesthesia
and Perioperative Care

Conor O'Neill
Pain Management Specialist
Sutter Health

Murat Pekmezci, MD
Associate Professor of
Orthopaedic Surgery

Patrick Reid, MD
Spine Fellow

Vinil Shah, MD
Assistant Professor of Radiology

Paramjit Singh, MD
Spine Fellow

Rishi Wadhwa, MD
Assistant Professor of
Neurological Surgery

Patricia Zheng, MD
Assistant Professor of
Orthopaedic Surgery

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Mail to : UCSF Office of CME
P.O. Box 45368
San Francisco, CA 94145-0368
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
Month Day

 Please indicate if you have any special needs:

Registration Fees (Receipt/Confirmation will be mailed within two to four weeks):

By 2/28/18 ☐ \$395 Physicians
After 2/28/18 ☐ \$475 Physicians

By 2/28/18 ☐ \$300 Nurses/Pharmacists/Advanced Health Professionals/Residents/Fellows
After 2/28/18 ☐ \$375 Nurses/Pharmacists/Advanced Health Professionals/Residents/Fellows

*Beginning on 5/31/18, registration will be \$50 additional.

Check enclosed payable to UC Regents

Please charge my credit card: ☐ Visa ☐ MasterCard ☐ AmEx for \$

Card # Expiration date

Name on Card (Please Print) Authorized Signature

Refund Policy: Cancellations received in writing before May 31, 2018 will be refunded, less a \$100 administrative fee. No refunds will be made on cancellations received after May 31, 2018.

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