

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



UCSF Spine Center



16TH ANNUAL UCSF SPINE SYMPOSIUM

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 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 and the AANS-CNS cervical spine 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 **14.75** 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 **7.25** Pain 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

American Academy of Physician Assistants accepts category 1 credit from AOACCME, Prescribed credit from AAFP, and AMA PRA Category 1 CreditTM from organizations accredited by the ACCME.

16TH Annual UCSF SPINE SYMPOSIUM

FRIDA	4Y,	MAY 20, 2022	
7:00 am	1	Registration and Continental Breakfast	
7:55		Welcome and Introduction	Course Chairs
I. Diagn	osis	of Spinal Pain • Moderator: Dr. Conor O'Neill	
8:00	P	Innovations in Imaging of the Lumbar Spine - Implications for Intra-discal Therapies	Dr. Aaron Fields
8:20	P	Intra-discal therapies for Chronic Low Back Pain	Dr. Conor O'Neill
8:40	Р	Cervical Inter-laminar vs. Transforaminal Injections - What's the Evidence?	Dr. Lyndly Tamura
9:00	P	Prolotherapy and Other Complementary Therapies for Chronic Low Back Pain	Dr. Heidi Reetz
9:20	P	The MILD Procedure for Treatment of Lumbar Spinal Stenosis	Dr. Chris Abrecht
9:40	P	Risk Stratification in Chronic Low Back Pain	Dr. Patricia Zheng
10:00	P	Case Studies/Q&A	Dr. Conor O'Neill
10:30		Coffee Break	
II. Mana	gem	ent of Spinal Pain · Moderator: Dr. Conor O'Neill	
10:45	P	PRP and Other Regenerative Therapies for Spinal Disc and Joint Pain - Hope or Hype?	Dr. Peter I-Kung Wu
11:05	P	Pain Management in the Age of Telemedicine	Dr. Melanie M. Henry
11:25	P	The Role of the Paraspinal Muscles in Low Back Pain	Dr. Sibel Deviren
11:45	P	Basiverteral Nerve Ablation for Chronic Low Back Pain	Dr Matthew Smuck
12:05 pm	P	The Spectrum of Care for Piriformis Syndrome - Conservative to Operative	Dr. Lines Jacques
12:25		Guest Lecture Introduction	Dr. Conor O'Neill
12:30	Р	Reflections on Interventional Diagnosis and Treatment of Spinal Pain	Dr. Richard Derby
1:00		Boxed Lunch in Exhibit Hall (included in registration fee)	
		and Controversies in the Management of Common Spinal I r: Dr. Sigurd H. Berven	Pathologies
2:00		Post-op Pain Management	Dr. Guan Zhonghui
2:20		Guest Lecture Introduction	Dr. Sigurd Berven
2:25		Virtual Presentation The Role of Technology in Patient Care and Empowerment of Informed Choice	Dr. James N. Weinstein
2:55		Question and Answer	
3:10		Coffee Break	
IV. Case	e Pre	esentation • Moderator: Dr. Praveen Mummaneni	
3:30	P	Cervical Radiculopathy – Case Presentation and Panel Discussion	Panel: Dr. R. Derby, Dr C. Miller, Dr. B. Tay
3:45	Р	Lumbar Symptomatic Disc Degeneration – Case Presentation and Panel Discussion	Panel: Dr. A. Dang, Dr. C. O'Neill, Dr. L. Tan, Dr. J. Uribe
4:00	Р	Cervical Myelopathy – Case Presentation and Panel Discussion	Panel: Dr. A. Di Giorgio, Dr. P. Mummaneni, Dr. A. Theologis, Dr. D. Wang, Dr. P. Wu
4:15	P	Lumbar Spondylolisthesis – Case Presentation and Panel Discussion	Panel: Dr. A. Clark, Dr. S. Deviren, Dr. L. Metz, Dr. L. Tan, T. Jones, PA-C
4:30	P	Adult Degenerative Scoliosis – Case Presentation and Panel Discussion	Panel: Dr. D. Chou, Dr. V. Deviren, Dr. J. Uribe, Dr. P. Zheng
4:55		Adjourn	
5:00 pm	1	Wine Tasting Reception in Exhibit Hall	

Hilton San Francisco **Financial District** 750 Kearny Street

San Francisco, CA 94108 (415) 433-6600



Hilton San Francisco Financial District

SATURDAY, MAY 21, 2022

V. Healthcare Reform – Economics of Managing Spinal Disorders Moderators: Dr. Sigurd H. Berven Dr. Praveen Mummaneni					
Healthcare Economics in the Management of Spinal Disorders- Burden of Spinal Disorders on the Healthcare Economy	Dr. Sigurd H. Berven				
Cost and Value in the Management of Spinal Disorders – a Healthcare Economist Perspective	Dr. Leslie Wilson				
Guest Lecture Introduction	Dr. Praveen Mummaneni				
Evolution of Lateral Interbody Fusion: From Inception to Current	Dr. Juan Uribe				
Evidence in the Management of Spinal Disorders – Large Data, AI, and Machine Learning	Dr. Thomas Peterson				
Spine Surgery During the COVID Pandemic	Dr. Praveen Mummaneni				
Guest Lecture Introduction	Dr. Praveen Mummaneni				
Evidence Based Medicine for Lumbar Fusion	Dr James S. Harrop				
Question and Answer					
Coffee Break					
VI. Alternative Payment Models · Moderator: Dr. Sigurd H. Berven					
BCPI and the UCSF Experience	Dr. Gina Intinarelli				
	Healthcare Economics in the Management of Spinal Disorders- Burden of Spinal Disorders on the Healthcare Economy Cost and Value in the Management of Spinal Disorders – a Healthcare Economist Perspective Guest Lecture Introduction Evolution of Lateral Interbody Fusion: From Inception to Current Evidence in the Management of Spinal Disorders – Large Data, AI, and Machine Learning Spine Surgery During the COVID Pandemic Guest Lecture Introduction Evidence Based Medicine for Lumbar Fusion Question and Answer Coffee Break ive Payment Models • Moderator: Dr. Sigurd H. Berven				

VII. Perspectives on the Management of Specific Cases · Moderator: Dr. Praveen Mummaneni					
12:30 pm	Lumbar Disc Herniation- Ambulatory vs. Inpatient	Dr. Tarun Arora			
12:50	Degenerative Spondylolisthesis	Dr. Catherine Miller			
1:10	Complex Spinal Deformity- Primary	Dr. Dean Chou			
1:30	High Risk Spinal Trauma	Dr. Anthony Di Giorgio			
1:50	High Risk Patient with Spinal Disorders	Dr. Alekos Theologis			
2:10	Impact of Complications on Outcome and Cost of Care, Classification of Complications, Strategies for Avoiding Complications, and Risk	Dr. Lionel Metz			
2:30	When to Say No to Surgery	Dr. Bobby Tay			
2:50	Avoiding Neurological Deficits During Spine Surgery	Dr. Lee Tan			
3:10	MIS Strategies for Patients with Medical Co-Morbidities	Dr. Aaron Clark			

VIII. Spinal Surgery/ Case Presentation • Moderator: Dr. Praveen Mummaneni

The Payer's Perspective on Costs and Value -

Course Luncheon (included in registration fee)

3:30 Round Table Interdisciplinary Discussion

What Metrics Matter

Table 1 - Dr. Sigurd Berven/ Dr. Phillip Kissel/ Dr. Patricia Zheng/ Dr. Valli Mummaneni/ Dr. Jay K. Morgan/ Dr. Leslie C. Robinson

Table 2 - Dr. Praveen Mummaneni/ Dr. Lionel Metz/ Dr. Peter I-Kung Wu

Table 3 – Dr. Conor O'Neill/ Dr. Lee Tan/ Dr. Alekos Theologis

Table 4 – Dr. Dean Chou/ Candita Rodriguez, NP/ Dr. Bobby Tay

4:15 Question and Answer Session

4:35 pm Adjourn

11:00

11:20

P · Pain Credit



Dr. Leslie Black

GENERAL INFORMATION

Advance registration closes at 10:00 am on Thursday, **May 19, 2022**. On-site registration fees will apply after advance registration closes.

HOW TO ENROLL

Early Bird Rates prior to 2/28/22

Tuition: Physicians \$400 by 2/28/22

\$475 after 2/28/22

Nurses/Pharmacists/Advanced Health Practitioners/Residents/Fellows \$300 by 2/28/22

\$300 by 2/28/22 **\$375** after 2/28/22

* Onsite registration will be \$50 additional Payment can be made by American Express, Visa, MasterCard or check.

REGISTER VIA:

Online: cme.ucsf.edu

Mail: Complete course registration form

and send with payment to: UCSF Office of CME 490 Illinois St., Floor 8 San Francisco, CA 94143

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 the course. cine.ucsi.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.

You may also reach us by calling the Office of

our website at **cme.ucsf.edu**

CME at (415) 476-4251 or emailing

nfo@ocme.ucsf.edu

Office of CME • Box 0742 San Francisco, CA 94143

490 Illinois St., Floor 8

COURSE DIRECTORS

Sigurd H. Berven, MD Professor of Orthopaedic Surgery Chief of Orthopaedic Spine Service Praveen V. Mummaneni, MD

Professor and Vice Chair of Neurological Surgery
Director, UCSF Spine Center

Conor O'Neill, MD Professor of Orthopaedic Surgery

SPECIAL GUEST FACULTY

Richard Derby, Jr., MD Medical Director, Spinal Diagnostics & Treatment Center, Daly City, CA

James S. Harrop, MD Professor and Director, Division of Spine and Peripheral Nerve Surgery Co-Director Neurologic Surgery Quality and Safety Neurosurgery Director of Delaware Valley SCI Center, Thomas Jefferson University Hospitals, Philadelphia, PA

Juan Uribe, MD
Chief, Spinal Disorders;
Sonntag Chair of Spine Research
Vice Chair, Neurosurgery
Barrow Neurological Institute, Phoenix, AZ

James N. Weinstein, DO, MS Senior Vice President, Microsoft Healthcare, Lyme, NH

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COURSE FACULTY (University of California, San Francisco unless indicated)

2022

Friday, November 4 - Saturday, November 5,

/dara Hotel - Las Vegas, Nevada

11th Spinal Surgery Bioskills Lab Royal Hawaiian - Honolulu, Hawaii

Surgery

Wednesday, July 13 - Saturday, July 16, Pediatric and Adult Spinal Deformity

Thursday, August 4 – Saturday, August 6, 2022

Neurosurgery Update 2022 UPCOMING COURSES

Silverado Resort - Napa, California

Christopher R. Abrecht, MD Assistant Professor of Anesthesia; Director, Chronic Pain Service

Tarun Arora, MD Assistant Professor of Neurological Surgery

Leslie Black, MD Department of Orthopaedic Surgery

Dean Chou, MDProfessor of Neurological Surgery Aaron Clark, MD, PhD Associate Professor of Neurological Surgery

Alan Dang, MD Associate Professor of Orthopaedic

Anthony DiGiorgio, DO, MHA Assistant Professor of Neurological Surgery

Sibel Deviren, MD Professor, Department of Orthopaedic Surgery

Vedat Deviren, MD Professor of Orthopaedic Surgery Aaron Fields, PhD

Associate Professor of Orthopaedic Surgery

Melanie M. Henry, MD, MPH Professor of Anesthesia

Line Jacques, MD Professor of Neurological Surgery, John Adams Endowed Professorship; Director of Peripheral Nerve and Pain Surgery

Teresa Jones, PA-C Physician Assistant Specialist Gina Intinarelli, PhD, MS

Associate Dean, Clinical Affairs, School of Nursing; Vice President, Office of Population Health and Accountable Care

COURSE FACULTY (CONT'D)

Phillip Kissel, MD, FACS Clinical Professor Department of Neurological Surgery, UCSF Director of Neurological Surgery, Sierra Vista Regional Medical Center, San Luis Obispo, CA Lionel N. Metz, MD Assistant Professor of Orthopaedic

Surgery Catherine Miller, MD Assistant Professor of Neurological

Surgery

Jay K. Morgan, MD Neurosurgeon, Sierra Neurosurgery Group, Reno, NV Valli P. Mummaneni, MD

Associate Professor of Anesthesia Thomas Peterson, Jr., PhD Assistant Professor of Orthopaedic

Surgery Heidi Reetz, MD Assistant Professor of Anesthesia

Candita Rodriguez, NP
Department of Neurological Surgery Lee Tan, MD

Assistant Professor of Neurological Surgery

Bobby Tay, MD Professor of Orthopaedic Surgery Alekos Theologis, MD Assistant Professor of Orthopaedic

Surgery **Doris Wang, MD, PhD**Assistant Professor of Neurological

Surgery Leslie Wilson, PhD Professor of Medicine and Pharmacy

Peter I-Kung Wu, MD, PhD Assistant Professor of Orthopaedic Surgery

Patricia Zheng, MD Assistant Professor of Orthopaedic Surgery



REGISTRATION • MOR22003

16TH ANNUAL UCSF SPINE SYMPOSIUM

May 20-21, 2022

Hilton San Francisco Financial District

Mail to: UCSF Office of CME 490 Illinois St., Floor 8 San Francisco, CA 94143

Online registration: spinesymposium.ucsf.edu

Registration Information: (415) 476-5808 Course Information: (415) 476-4251

□ Dr. □ Ms. □ Mr. □ Mrs. □ Mx		
LAST NAME	FIRST	M.I.
DEGREE	SPECIALTY	
ADDRESS		
CITY	STATE	ZIP
DAYTIME PHONE	FAX	
EMAIL		
Address Label Code Letter (see add	dress label: example, A, B, C, D, et	:c.)
Would you like to be on our priority en	mail list? ☐ Yes ☐ No	
Rlease indicate if you have any sp	ecial needs:	
Registration Fees: Postmarked By 2/28/22 □ \$400 Ph After 2/28/22 □ \$475 Ph Postmarked By 2/28/22 □ \$300 Nu After 2/28/22 □ \$375 Nu **Beginning on 5/17/22, registration w	nysicians urses/Pharmacists/Adv. Health Pract urses/Pharmacists/Adv. Health Pract	
Check enclosed payable to UC Reger	nts	
Please charge my credit card: \square Visa	☐ MasterCard ☐ AmEx for \$	
CARD #	E>	KPIRATION DATE
NAME ON CARD (PLEASE PRINT)	AUTHORIZED SIGN	IATURE
Refund Policy: Cancellations received	d in writing before May 17, 2022 will	be refunded, less a \$100

administrative fee. No refunds will be made on cancellations received after May 17, 2022. Please check our website for up to date information on the course: **spinesymposium.ucsf.edu**

REFUND POLICY

Cancellations received in writing before **May 17, 2022** will be refunded, less a \$100 administrative fee. No refunds will be made on cancellations received after May 17, 2022.

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 Hilton San Francisco Financial District is just steps from the famed North Beach and Jackson Square as well as within walking distance to the Embarcadero waterfront and Fisherman's Wharf. A block of guestrooms has been reserved at the special UCSF conference rate of \$249/night. You are urged to make your reservations early. The cut off date is April 20, 2022, 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 visit the course webpage on our website at **spinesymposium.ucsf.edu** and click on the reservations link in the Travel & Lodging section. You can also call Hilton Reservations at 800-424-8292 to reserve by phone.

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

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: ZK47190520 You can also visit the course webpage on our website at **spinesymposium.ucsf.edu** and find direct links for United in the Travel & Lodging section.