

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

17TH ANNUAL UCSF SPINE SYMPOSIUM

HILTON SAN FRANCISCO FINANCIAL DISTRICT

A wide-angle photograph of the San Francisco skyline at dusk. The city's lights are on, reflecting on the water of the bay. The Transamerica Pyramid is prominent on the right, and the Salesforce Tower is on the left. The water in the foreground is dark blue.

UCSF COURSE DIRECTORS

Sigurd Berven, MD
Professor of Orthopaedic Surgery
Chief of Orthopaedic Spine Service

Praveen Mummaneni, MD, MBA
Professor and Vice Chair of Neurological
Surgery; Director, UCSF Spine Center

Conor O'Neill, MD
Professor of Orthopaedic Surgery

FRIDAY - SATURDAY

June 16-17, 2023

spinesymposium.ucsf.edu

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, anesthesiologist, 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.



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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 **13.00 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 **4.50 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 accepts category 1 credit from AOACME, Prescribed credit from AAFP, and **AMA PRA Category 1 Credit™** from organizations accredited by the ACCME.

17TH Annual UCSF SPINE SYMPOSIUM

Friday, June 16, 2023

7:00 am Registration and Continental Breakfast

7:55 Welcome and Introduction

Course Chairs

I. Session 1 The BACPAC Research Program: Early Results with Potential Implications for Clinical Practice Moderator: Conor O'Neill, MD

8:00 **P** Novel Imaging Methods

Jeffrey C. Lotz, PhD

8:20 **P** Novel Biomechanical Assessments

Jeanine F. Bailey PhD

8:40 **P** Digital Health

Patricia Zheng, MD

9:00 **P** Case Reviews – BACPAC Research Participants

Conor O'Neill, MD

9:20 Question and Answer

9:40 **Guest Lecture Introduction**

Conor O'Neill, MD

9:45 **P** The Role of Exercise in the Management of Chronic Axial Back Pain

Thomas E. Dreisinger, PhD

10:15 Coffee Break

II. Controversies and Conundrums in Non-operative Spine Care: A Case-based Approach Moderator: Conor O'Neill, MD

10:35 **P** Case #1 • Mario de Pinto, MD • Lyndly Tamura, MD • Stephen Baxter, PT, MSc, DPT

10:55 **P** Case #2 • Heidi Reetz, MD • Ninad Karandikar, MD • Dustin Tom, DPT

11:15 **P** Case #3 • Prasad Shirvalkar, MD, PhD • Sibel Deviren, MD • Sara Temple, PT, DPT, OCS

11:35 **P** Case #4 • Melanie M. Henry, MD, MPH • Peter Wu, MD, PhD • Arthur Long, PT, DPT, OCS

11:55 Question and Answer

12:15 pm Boxed Lunch (included in tuition)

III. Efficiency and Challenges in the Hospital and Operating Room Moderator: Praveen Mummaneni, MD

1:15 Diverse Patient Populations and Approach to the Underserved Populations

Anthony DiGiorgio, DO

1:35 Programs to Optimize Patients Pre-operatively, to Improve Inpatient Efficiency and Long-Term Outcomes

Christopher R. Abrecht, MD

1:45 **P** How to Optimize Efficiency with Injections for Spine Pain at a Surgical Center

Robert Gamburd, MD

2:05 **Guest Lecture Introduction**

Praveen Mummaneni, MD

2:10 How to Optimize Spine Surgery Team Efficiency in the Operating Room

Luis M. Tumialán, MD

2:40 Guest Lecture Introduction

Sigurd Berven, MD

2:45 Robotics and Spine Surgery; the Genesis, State of the Art & the Future

Isador Lieberman, MD

3:15 Question and Answer

IV. Tumor, Trauma, and Deformity Part I Moderator: Praveen Mummaneni, MD

3:35 **P** Back Pain Cases

Panel: J. Morgan, MD • Z. Guan, MD • I. Say, MD • Presenter: Phillip Kissel, MD

3:55 **P** Painful Trauma Cases with Complications

Panel: A. DiGiorgio, DO • A. El Naga, MD • T. Arora, MD • Presenter: David Gendelberg, MD

4:15 **P** Painful Spine Tumor Cases with Complications

Panel: A. Clark, MD • P. Mummaneni, MD • B. Tay, MD • Presenter: Alekos Theologis, MD

4:35 **P** Painful Deformity Cases with Complications

Panel: V. Deviren MD • C. Ames, MD • S. Berven, MD • L. Tan, MD

Presenter: Sigurd Berven, MD

4:55 Question and Answer

5:15 pm Adjourn • Wine Tasting Reception in Exhibit Hall

Hilton San Francisco Financial District

750 Kearny Street

San Francisco, CA 94108

(415) 433-6600





Saturday, June 17, 2023

7:00 am Registration and Continental Breakfast

I. Case Presentations

Moderators Sigurd Berven, MD and Praveen Mummaneni, MD

7:30	MIS Cervical Cases	Bobby Tay, MD
7:50	Lumbar Cases	Aaron Clark, MD & Lee Tan, MD
8:10	Changes in Reimbursement Models: Risk Sharing Models	Paul Slosar, MD
8:30	The Past, Present and Future of VR/AR in Spine Surgery	Kris Okumu, MD
8:50	Question and Answer	
9:10	Guest Lecture Introduction	Sigurd Berven, MD
9:15	Robotics and Spine Surgery; The Genesis, State of the Art & the Future – Discussion	Isador Lieberman, MD
9:45	The Role of Anterior Reconstruction in Spine Surgery – Techniques of Anterior Column Reconstruction	Vedat Deviren, MD
10:05	Question and Answer	
10:25	Coffee Break	
10:45	Integration of Minimally Invasive Techniques into Open Surgery to Prevent Adjacent Segment Disease and PJK	Lionel N. Metz, MD
11:05	Guest Lecture Introduction	Praveen Mummaneni, MD
11:10	The Inevitability of Minimally Invasive Spinal Surgery: A Spine Surgeon's Destiny	Luis M. Tumialán, MD
11:40	P Brachial Neuritis	Line Jacques, MD
12:20 pm	Update on Skeletal Health	Aenor Sawyer, MD
12:40	Question and Answer	Aenor Sawyer, MD
1:00	Lunch	

II. Tumor, Trauma, and Deformity Part II

Moderator Sigurd Berven, MD

2:00	P Painful Trauma Cases – Injuries from the Golden Gate National Recreation Area Presenter: Tarun Arora, MD • Panel: Anthony DiGiorgio, DO • Sun Ik Lee, MD	
2:20	P Post-op Complications with Painful Cervical Spine Cases Presenter: Irene Say, MD • Panel: Leslie Robinson, MD • Bobby Tay, MD, Anthony DiGiorgio, DO • Candita Rodriguez, NP	
2:40	P Post-op Complications with Painful Lumbar Degenerative Cases Presenter: Lee Tan, MD • Panel: Aaron Clark, MD • Sun Ik Lee, MD • Julie Cassata, NP	

VII. Perspective and the Management of Cases

Moderator Sigurd Berven, MD

3:00	P Low Back Pain without Radiculopathy Panel: Matan • DiGiorgio • Lieberman • O'Neill	Presenter: Berven
3:20	P Cervical Myelopathy Panel: Matan • DiGiorgio • Lieberman • O'Neill	Presenter: Berven
3:40	P Degenerative Spondylolisthesis Panel: Matan • DiGiorgio • Lieberman • O'Neill	Presenter: Berven
4:00	P Adult Degenerative Scoliosis Panel: Matan • DiGiorgio • Lieberman • O'Neill	Presenter: Berven
4:20	Question and Answer	
4:45 pm	Adjourn	
	P • Pain Credit	

program

GENERAL INFORMATION

Advance registration closes at 10:00 am on Thursday, June 15, 2023. On-site registration fees will apply after advance registration closes.

HOW TO ENROLL

Early Bird Rates prior to 3/15/23

Tuition:	Physicians	\$400 by 3/15/23 \$475 after 3/15/23
	Nurses/Pharmacists/Advanced Health Practitioners/Residents/Fellows	\$300 by 3/15/23 \$375 after 3/15/23

* 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-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.

UPCOMING COURSES

Pediatric and Adult Spinal Deformity Surgery
Wednesday, July 26 – Saturday, July 29, 2023
Moana Surfider – Honolulu, Hawaii

Neurosurgery Update 2023
Thursday, August 4 – Saturday, August 5, 2023
Silverado Resort – Napa, California

11th Spinal Surgery Bioskills Lab
Friday, November 3 – Saturday, November 4, 2023
Vdara Hotel – Las Vegas, Nevada

University of California,
San Francisco
Office of CME • Box 0742
490 Illinois St., Floor 8
San Francisco, CA 94143

COURSE DIRECTORS

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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

Isador Lieberman, MD, MBA, FRCSC
Orthopedic Spine Surgery
Scoliosis and Spine Tumors
Texas Back Institute Leaders in
Spine Care
Plano, TX

Luis M. Tumialán, MD
Neurosurgeon, Spine Surgery
Barrow Neurological Institute
Scottsdale, AZ

Thomas E. Dreisinger, PhD
Director of Research
and Development
Dynamic Back & Neck Therapy
Troy, MI

COURSE FACULTY

(University of California, San Francisco
unless indicated)

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

Tarun Arora, MD
Assistant Professor of
Neurological Surgery

Jeannie F. Bailey, PhD
Assistant Professor,
Orthopaedic Surgery

Stephen Baxter, PT, MSc, DPT
Assistant Clinical Professor

COURSE FACULTY (CONT'D)

Julie Cassata, NP
Nurse Practitioner

Aaron Clark, MD, PhD
Associate Professor of
Neurological Surgery

Mario De Pinto, MD
Anesthesiologist

Sibel Deviren, MD
Professor, Department of
Orthopaedic Surgery

Vedat Deviren, MD
Professor of Orthopaedic Surgery

Anthony DiGiorgio, DO, MHA
Assistant Professor of
Neurological Surgery

Robert Gamburd, MD
Associate Professor

David Gendelberg, MD
Assistant Professor, Spine

Melanie M. Henry, MD, MPH
Anesthesiologist, Pain Medicine
Specialist

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

Ninad Karandikar, MD
Clinical Professor,
Rehabilitation Spine

Phillip Kissel, MD, FACS
Clinical Professor Department of
Neurological Surgery, UCSF
Director of Neurological Surgery,
Sierra Vista Regional Medical Center,
San Luis Obispo, CA

Sun Ik Lee, MD
Assistant Professor of Neurosurgery

Arthur Long, PT, DPT, OCS
Physical Therapist

Jeffrey C. Lotz, PhD
Professor, Orthopaedic Surgery

Anthony J. Matan, MD
Orthopaedic Surgeon
Kaiser - San Jose, CA

COURSE FACULTY (CONT'D)

Lionel N. Metz, MD
Assistant Professor of
Orthopaedic Surgery

Kris Okumu, MD
Orthopaedic Surgeon
Spine Surgeon Coastal
Health Partners
Watsonville, CA

Heidi Reetz, MD
Assistant Professor, Anesthesia

Leslie Robinson, MD
HS Clinical Instructor,
Neurological Surgery

Aenor J. Sawyer, MD, MS
Director, UCSF Skeletal Health
Assistant Clinical Professor,
Orthopaedic Surgery, UCSF

Irene Say, MD
Assistant Professor,
Neurological Surgery

Prasad Shirvalkar, MD, PhD
Associate Professor, Anesthesia

Paul J. Slosar, MD
Chief Medical Officer
Episode Solutions, Nashville, TN

Lyndly Tamura, MD
Assistant Professor,
Orthopaedic Surgery

Lee Tan, MD
Assistant Professor of
Neurological Surgery

Bobby Tay, MD
Professor of Orthopaedic Surgery

Sara Temple, PT, DPT, OCS
Assistant Professor, Physical Therapy

Alekos Theologis, MD
Assistant Professor of
Orthopaedic Surgery

Dustin Tom, DPT
Physical Therapist

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

Patricia Zheng, MD
Assistant Professor,
Orthopaedic Surgery

REGISTRATION • MOR23003

17TH ANNUAL UCSF SPINE SYMPOSIUM

June 16-17, 2023

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.

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

 Please indicate if you have any special needs: _____

Registration Fees:

Postmarked By 3/15/23 ☐ **\$400** Physicians
After 3/15/23 ☐ **\$475** Physicians
Postmarked By 3/15/23 ☐ **\$300** Nurses/Pharmacists/Adv. Health Practitioners/Residents/Fellows
After 3/15/23 ☐ **\$375** Nurses/Pharmacists/Adv. Health Practitioners/Residents/Fellows

****Beginning on 5/17/23, registration will be \$50 additional.**

Check enclosed payable to *UC Regents*

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

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NAME ON CARD (PLEASE PRINT)	AUTHORIZED SIGNATURE

Refund Policy: Cancellations received in writing before June 10, 2023 will be refunded, less a \$100 administrative fee. No refunds will be made on cancellations received after June 10, 2023.

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

REFUND POLICY

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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 **May 15, 2023**, 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.