

Presented by the **Department of Orthopaedic Surgery**
University of California, San Francisco

UCSF Pediatric and Adult Spine Surgery Course

Royal Hawaiian Hotel • Honolulu, Hawaii

WEDNESDAY – SATURDAY

March 18-21, 2020

COURSE DIRECTORS

Lionel N. Metz, MD

Assistant Professor of Orthopaedic Surgery
University of California, San Francisco

Kyle A. Mitsunaga, MD

Assistant Professor of Orthopaedic Surgery
University of Hawaii; Medical Director, Spine
Surgery; Queens Medical Center Honolulu, HI

Lee Tan, MD

Assistant Professor in Residence
UCSF Department of Neurological Surgery
San Francisco, CA

HONORED SPEAKERS

Vedat Deviren, MD

Munish Gupta, MD

David L. Skaggs, MD, MMM

UCSF Pediatric and Adult Spine Surgery Course

Royal Hawaiian Hotel • Honolulu, Hawaii

The UCSF Pediatric and Adult Spine Surgery Course is a three-and-a-half day event emphasizing pioneering trends in pediatric and adult spinal surgery. This course is designed to be interactive with didactic lectures given by leaders in the spine community as well as a hands-on bioskills lab. Participants will review and practice surgical principles and techniques in the treatment of complex spinal disorders. Expert lecturers will describe the state-of-the-art treatment for a variety of Pediatric and Adult Spinal Disorders. Interactive case presentations will allow learners to apply knowledge to improve decision making for complex spine pathology.

Residents, fellows, and surgeons wanting to broaden their hands-on experience will have the opportunity to improve skills in evaluating, case planning, and performing techniques to address various pediatric and adult spine pathologies.

OBJECTIVES

An attendee completing this course should improve skills and strategies to:

- Interpret and apply current, best available evidence to assess sagittal alignment in the adult and pediatric deformity patient;
- Evaluate and treat pain related to spinal disorders in a cost-effective and reliable manner based on recently published guidelines;
- Evaluate and treat lumbar degenerative disease and deformity in a cost-effective manner based on an evidence based approach and avoid case-to-morbidity risk;
- Avoid perioperative complications by identifying risk factors that may predispose individuals to perioperative morbidity;
- Determine modifiable risk factors and strategies for effective optimization;
- Diagnose spinal instability related to spinal tumors and formulate surgical treatment plans to address neurological deficits, pain, and instability in spine oncology patients based on published guidelines;
- Correlate radiographic findings to surgical anatomy as they pertain to the approach and techniques for minimizing complications;
- Refine and optimize treatment planning for adult and pediatric patients.

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 **19.00 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.

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 category 1 credit from AOACCME, Prescribed credit from AAFP, and *AMA PRA Category 1 Credits™* from organizations accredited by the ACCME.





COURSE DIRECTORS

Lionel N. Metz, MD

Assistant Professor of Orthopaedic Surgery
University of California,
San Francisco

Kyle A. Mitsunaga, MD

Assistant Professor of Orthopaedic Surgery
University of Hawaii
Medical Director, Spine Surgery
Queens Medical Center
Honolulu, HI

Lee Tan, MD

Assistant Professor in Residence
UCSF Department of Neurological Surgery
San Francisco, CA

HONORED SPEAKERS

Vedet Deviren, MD

Professor, Clinical Orthopaedic
University of California,
San Francisco; Department of
Orthopaedic Surgery

Munish Gupta, MD

Mildred B. Simon Distinguished
Professor of Orthopaedic Surgery
Professor of Neurological Surgery
Co-director of Pediatric and
Adult Spinal Deformity Service
Washington University
St. Louis, MO

David L. Skaggs, MD, MMM

Chief of Orthopaedic Surgery
Director of Spine Surgery
Endowed Chair of Pediatric
Spinal Disorders
Attending Physician
Professor of Surgery
Keck School of Medicine of USC
Los Angeles, CA

COURSE FACULTY

(University of California, San Francisco,
unless otherwise noted)

Christopher P. Ames, MD

Professor of Neurological Surgery
and of Orthopedic Surgery
Director Spinal Deformity and Spine
Tumor Surgery; Co-director, Spinal
Surgery and UCSF Spine Center
Director, California Deformity
Institute Director, Spinal
Biomechanics Laboratory

COURSE FACULTY (CONT'D)

Sigurd H. Berven, MD

Professor of Orthopaedic Surgery
Chief of Spine Service

William Burkhalter, MD

Orthopaedic Surgeon, Hawaii
Pacific Health, Honolulu, HI

J. Matthew Cage, MD

Orthopaedic Surgeon
Tripler Army Medical Center
Honolulu, HI

Yong Eon Cho, MD

Professor, Department of
Neurosurgery, Yonsei University
College of Medicine
Seoul, South Korea

He Da, MD

Assistant Director of
Spine Surgery Department
Beijing Jishuitan Hospital
Beijing, China

Ozgur Dede, MD

Assistant Professor of Pediatric
Orthopaedics; Children's Hospital
of Pittsburgh of UPMC
Pittsburgh, PA

Stephen George, MD

Pediatric Orthopaedic Surgeon
Nicklaus Children's Hospital
Coral Terrace, FL

Tenner Guillaume, MD

Pediatric Spine Surgeon
Gillette Children's Hospital
St. Paul, MN

Yoon Ha, MD

Professor, Dept of Neurosurgery
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Medicine, Seoul, South Korea

Naobumi Hosogane, MD, PhD

Associate Professor
Department of Orthopedic
Surgery Kyorin University
Tokyo, Japan

Keung-Nyun Kim, MD, PhD

Professor, Director of Department
of Neurosurgery, Chief of Spine
Section; Severance Hospital
Yonsei University, College of
Medicine, Seoul, South Korea

Kyung Hyun Kim, MD, PhD

Associate Professor Spinal
Associate Professor
Department of Orthopedic Surgery
Kyorin University
Seoul, South Korea

COURSE FACULTY (CONT'D)

Nathan Li, MD

Department of Spine Surgery
Beijing Jishuitan Hospital, the
4th Teaching Hospital of Peking
University, Beijing, China

Emmanuel N. Menga, MD

Assistant Professor of Orthopaedic
Surgery, University of Rochester
Rochester, NY

Paul Moroz, MD

Pediatric Orthopaedic Surgeon
Shriners' Hospital Honolulu
Honolulu, HI

Sina Pourtaheri, MD

Spine Surgeons
Gulf Coast Orthopaedics
Houma, Louisiana

Peter P. Sun, MD

Director, Pediatric Neurosurgery
UCSF Benioff Children's Hospital
Oakland, CA

Satoshi Suzuki, MD

Assistant Professor, Department
of Orthopaedic Surgery
Keio University School of Medicine
Tokyo, Japan

Bobby Tay, MD

Professor and Vice Chair of
Quality Assurance, Department of
Orthopaedic Surgery

Wei Tian, MD

Professor of Orthopaedic Surgery
Beijing Jishuitan Hospital
Beijing, China

Osahiko Tsuji, MD

Program-Specific Assistant
Professor, Department of
Orthopaedic Surgery,
Keio University School of Medicine
Tokyo, Japan

Kota Watanabe, MD

Associate Professor
Chief of Spine and
Spinal Cord Division
Director of Clinical Treatment
Department of Orthopaedic Surgery
Keio University, Tokyo, Japan

Bin Xiao, MD

Beijing Jishuitan Hospital
Beijing, China

faculty

UCSF Pediatric and Adult Spine Course

WEDNESDAY, MARCH 18, 2020

2:00 pm	<i>Registration</i>	
3:15	Welcome and Introductions	Dr. Metz and Dr. Mitsunaga
	I. PEDIATRIC DEFORMITY (AIS)	
3:20	Treatment of Adolescent Idiopathic Scoliosis	Dr. Stephen George
3:40	Implant Density and Alternative Anchor Options in Pediatric Deformity	Dr. Matthew Cage
4:00	Honored Speaker Introduction	
4:05	Advances in the Treatment of Adolescent Idiopathic Scoliosis	Dr. David Skaggs
4:35	Honored Speaker Introduction	
4:40	3-Column Osteotomies in Pediatric Deformity	Dr. Munish Gupta
	II. ADULT DEFORMITY (Complications)	
5:10	Mechanical Complication After Corrective Surgery in Patients with Adult Spinal Deformity	Dr. Kyung Hyun Kim
5:30	Risk Factors for Early Cage Retropulsion After Lumbar Interbody Fusion Surgery and Literature and Prospective Study Review	Dr. Nathan Li
5:50	Proximal Junctional Kyphosis: Current Concepts and Prevention	Dr. Emmanuel Menga
6:10	Q & A: Case Presentations and Panel Discussion	Dr. Bobby Tay
6:30 pm	<i>Adjourn: Luau Reception</i>	

THURSDAY, MARCH 19, 2020

7:30 am	<i>Continental Breakfast</i>	
	III. PEDIATRIC DEFORMITY II (EOG/NM/CONG)	
8:00	Treatment Principles for Neuromuscular Scoliosis	Dr. Ozgur Dede
8:20	Pelvic Obliquity in Neuromuscular Scoliosis Scoliosis	Dr. William Burkhalter
8:40	Practical Experience, Tips, Tricks, and Pitfalls in the Management of EOS	Dr. Tenner Guillaume
9:00	The Role of Reduction in Dysplastic Spondylolisthesis – Adult Sequelae of Pediatric Deformity	Dr. Sigurd H. Berven
9:20	Revision for Patients Who Underwent Correction Surgery in Pediatric Patients	Dr. Kota Watanabe
9:40	Q & A and Case Discussion	
10:25	<i>Coffee Break</i>	
	IV. ADULT DEFORMITY (Corrections)	
10:45	Relationship Between Lumbar Intervertebral Disc Degeneration and Adult Idiopathic Scoliosis	Dr. Satoshi Suzuki
11:05	Honored Speaker Introduction	
11:10	Utility of Lateral Interbody Fusion in Deformity Surgery	Dr. Vedat Deviren
11:40	Surgical Result of Adult Spinal Deformity Patients Treated with Lateral Interbody Fusion Combined with Posterior Fusion	Dr. Naobumi Hosogane
12:00 pm	Q & A and Case Discussion	
12:30	<i>Lunch</i>	
1:30	Honored Speaker Introduction	
1:35	Adult Scoliosis: Assessment and Surgical Planning	Dr. Munish Gupta
2:05	TB of the Spine – Still a Problem Everywhere: Towards a Consensus on Surgical Solutions	Dr. Paul Moroz
2:25	Honored Speaker Introduction	
2:30	Proximal Junctional Kyphosis and Prevention Strategies	Dr. Vedat Deviren
3:00	Q & A and Case Discussion	
4:00 pm	<i>Adjourn</i>	

FRIDAY, MARCH 20, 2020

7:30 am *Continental Breakfast at Royal Hawaiian. Depart at 8am for Cadaver Lab*

9:00 **Cadaver Lab**

12:00 pm *Lunch*

1:00 **Cadaver Lab**

4:00 pm *Course Adjourns*

Bioskills Stations to include:

- Anterior, lateral, and oblique Lumbar Interbody Fusion
- Thoracolumbar pedicle subtraction osteotomy/vertebral column resection
- Pelvic Fixation
- Transforminal lumbar Interbody Fusion for Deformity
- Free hand Posterior Pedicle Screw Fixation/Posterior Column Osteotomy
- Anterior Spinal Instrumentation/Tethering
- Cervical Anterior and Posterior Instrumentation

SATURDAY, MARCH 21, 2020

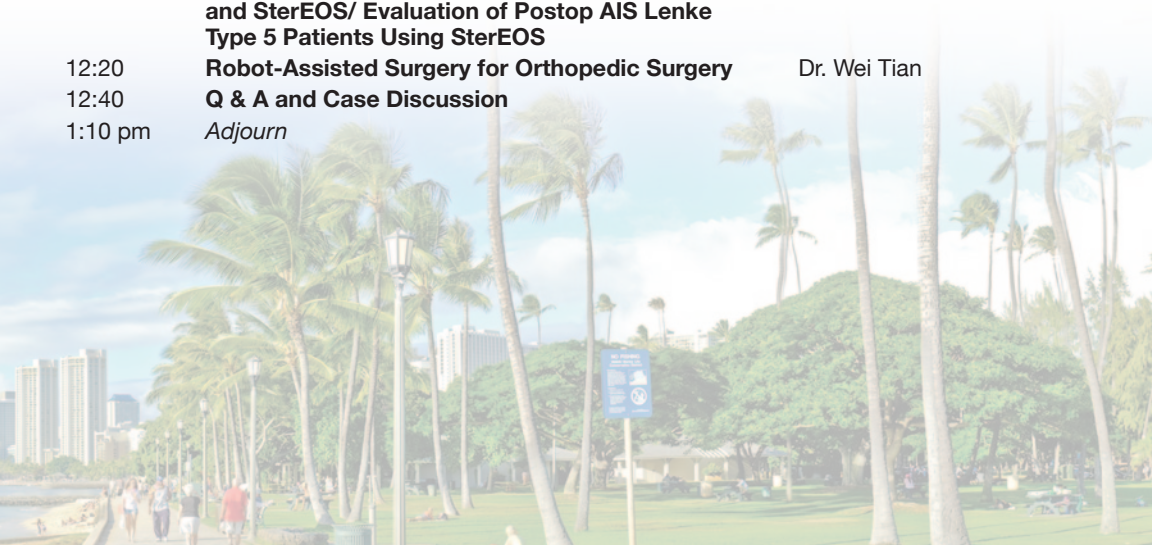
7:30 am *Continental Breakfast*

V. CERVICAL

8:00	Cranio-cervical Instability in the Pediatric Population	Dr. Peter Sun
8:20	High Cervical Spine Surgery with CT based Navigation	Dr. Keung Nyun Kim
8:40	Management of Cervical OPLL: Controversies and Our Concerns	Dr. Yong Eon Cho
9:00	Cervical Deformity Correction in Severe Neuromuscular Disorders	Dr. Yoon Ha
9:20	Evaluation and Surgical Treatment of Complex Cervical Pathology	Dr. Lee Tan
9:40	Distribution and Location of Spinal Schwannoma	Dr. Osahiko Tsuji
10:00	Q & A and Case Discussion	
10:20	<i>Coffee Break</i>	

VI. TECHNOLOGY

10:40	Computer Assisted Management of Complicated Upper Cervical Deformity	Dr. He Da
11:00	Artificial Intelligence and the Future of Spinal Surgery	Dr. Christopher Ames
11:20	Opiate Use in Spine Surgery, Strategies to Prevent Opioid Dependence	Dr. Sina Pourtaheri
11:25	Honored Speaker Introduction	
11:30	Use of Power in Spine Deformity Surgery to Protect the Patient and Preserve the Surgeon	Dr. David Skaggs
12:00 pm	The Comparison of Spine Radiograph Measurement Using the Traditional Method and SterEOS/ Evaluation of Postop AIS Lenke Type 5 Patients Using SterEOS	Dr. Bin Xiao
12:20	Robot-Assisted Surgery for Orthopedic Surgery	Dr. Wei Tian
12:40	Q & A and Case Discussion	
1:10 pm	<i>Adjourn</i>	



GENERAL INFORMATION

Advance registration closes three (3) business day prior to start of course. Onsite registration fees will be applied after this date.

HOW TO ENROLL

Tuition:	Early bird	Postmarked after 1/1/20
Physicians	\$825	\$950
Nurses/Advanced Practice Professionals	\$725	\$850
Residents/Fellows	\$725	\$850

* On-site registration is \$50 additional.

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

REGISTER VIA:

Online: cme.ucsf.edu

Mail: Complete course registration form and send with payment to:

UCSF Office of CME
3333 California St, 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 UCSF's CME Registration Office at (415) 476-5808.

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

GREENER MEETING • We're saving paper! The syllabus will be available electronically one week prior to the course.

On-Site Registration: Generally we are able to accommodate on-site registration at our, however pre-registration is preferred to ensure that we have adequately prepared for all of our attendees.

REFUND POLICY

Cancellations received in writing before 10 am on **March 11, 2020** will be refunded, less a \$100 administrative fee. No refunds will be made on cancellations received after that date.

CONFERENCE LOCATION

In the heart of Waikiki Beach, the **Royal Hawaiian** with its rich history, strong ambassador loyalty, and connection to Hawaiian culture, this historic Honolulu hotel is spectacularly located on the famed Waikiki Beach.

A block of guestrooms has been reserved at special UCSF conference rates*:

Historic Ocean View	\$369/night
Historic Room	\$289/night
Daily resort fee:	\$15

*Room Rates shown do not include room tax, resort fee or gratuities.

You are urged to make your reservations early. The cut off date is **February 28, 2020**, 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 on-line, go to cme.ucsf.edu and click on the hotel link in the Travel & Lodging section of the course webpage.

If you prefer to telephone in your reservation, call (800) 782-9488, please 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.

AIR TRANSPORTATION AND RENTAL CAR

UCSF has negotiated special fares with airlines and car rental agencies. Please visit the TRAVEL & LODGING section of the course webpage at cme.ucsf.edu for more information and discount codes.



REGISTER TODAY!

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

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**Office of Continuing
Medical Education**
3333 California Street
Suite 450
San Francisco, CA
94118

**UPCOMING
COURSES**

10th Annual UCSF Techniques in Complex Spine Surgery Program

November 6-7, 2020

Vdara Hotel • Las Vegas, NV

15th Annual UCSF Spine Symposium

June 5-6, 2020

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



UCSF PEDIATRIC AND ADULT SPINE COURSE

March 18-21, 2020 • Royal Hawaiian • Honolulu, Hawaii

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. Mx.

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: ____ / ____ / **XX**
Month Day

Please indicate if you have any special needs: _____

Registration Fees:

Tuition:	Early bird	Postmarked after 1/1/20
<input type="checkbox"/> Physicians	\$825	\$950
<input type="checkbox"/> Nurses/Advanced Practice Professionals	\$725	\$850
<input type="checkbox"/> Residents/Fellows	\$725	\$850

*On-site registration is \$50 additional.

Make checks payable to *UC Regents*

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

CARD #	EXPIRATION DATE
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NAME ON CARD (Please Print)	AUTHORIZED SIGNATURE
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Refund Policy: Cancellations received in writing before April 4, 2020 will be refunded, less a \$75 administrative fee. No refunds will be made on cancellations received after that date.

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

On-Site Registration

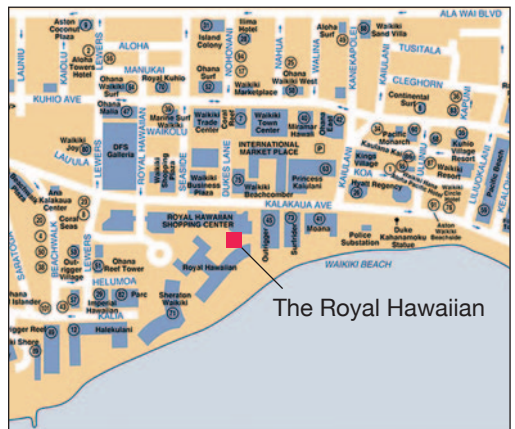
Date: **Wednesday, March 18, 2020**

Time: 2:00 - 3:00 pm

Location: **The Royal Hawaiian**

2259 Kalakaua Ave
Honolulu, HI 96815
(808) 923-7311

<https://www.royal-hawaiian.com>



The Royal Hawaiian