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
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.
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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

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

Nathan Li, MD
Professor of Orthopaedic Surgery
Chief of Spine Service
Beijing Jishuitan Hospital, the 4th Teaching Hospital of Peking University Beijing, China

Emmanuel N. Manga, 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
Hauma, Louisiana

COURSE FACULTY (CONT’D)
Sigurd H. Berven, MD
Professor of Orthopaedic Surgery
University of California, San Francisco; Department of Orthopaedic Surgery

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

Tanner Guillaume, MD
Pediatric Spine Surgeon
Gillette Children’s Hospital
St. Paul, MN

Yoon Ha, MD
Professor, Dept of Neurosurgery
Yonsei University College of 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

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

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
President of Spine Surgery
Beijing Jishuitan Hospital
Beijing, China
WEDNESDAY, MARCH 18, 2020

2:00 pm  Registration
3:15  Welcome and Introductions  
3:20  Treatment of Adolescent Idiopathic Scoliosis  
3:40  Implant Density and Alternative Anchor Options in Pediatric Deformity  
4:00  Honored Speaker Introduction  
4:05  Advances in the Treatment of Adolescent Idiopathic Scoliosis  
4:35  Honored Speaker Introduction  
4:40  3-Column Osteotomies in Pediatric Deformity  

II. ADULT DEFORMITY (Complications)
5:10  Mechanical Complication After Corrective Surgery in Patients with Adult Spinal Deformity  
5:30  Risk Factors for Early Cage Retropulsion After Lumbar Interbody Fusion Surgery and Literature and Prospective Study Review  
5:50  Proximal Junctional Kyphosis: Current Concepts and Prevention  

6:10  Q & A: Case Presentations and Panel Discussion  
6:30 pm  Adjourn: Luau Reception

THURSDAY, MARCH 19, 2020

7:30 am  Continental Breakfast
8:00  Treatment Principles for Neuromuscular Scoliosis  
8:20  Pelvic Obliquity in Neuromuscular Scoliosis  
8:40  Practical Experience, Tips, Tricks, and Pitfalls in the Management of EOS  
9:00  The Role of Reduction in Dysplastic Spondylolisthesis – Adult Sequelae of Pediatric Deformity  
9:20  Revision for Patients Who Underwent Correction Surgery in Pediatric Patients  
9:40  Q & A and Case Discussion  
10:25  Coffee Break

IV. ADULT DEFORMITY (Corrections)
10:45  Relationship Between Lumbar Intervertebral Disc Degeneration and Adult Idiopathic Scoliosis  
11:05  Honored Speaker Introduction  
11:10  Utility of Lateral Interbody Fusion in Deformity Surgery  
11:40  Surgical Result of Adult Spinal Deformity Patients Treated with Lateral Interbody Fusion Combined with Posterior Fusion  
12:00 pm  Q & A and Case Discussion  
12:30  Lunch
1:30  Honored Speaker Introduction  
1:35  Adult Scoliosis: Assessment and Surgical Planning  
2:05  TB of the Spine – Still a Problem Everywhere: Towards a Consensus on Surgical Solutions  
2:25  Honored Speaker Introduction  
2:30  Proximal Junctional Kyphosis and Prevention Strategies  
3:00  Q & A and Case Discussion  
4:00 pm  Adjourn
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  Craniovascular 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  Coffee Break

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
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  Adjourn
GENERAL INFORMATION
Advance registration closes three (3) business days 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.
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
**REGISTRATION • MOR20009**
**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](http://cme.ucsf.edu)
Registration Information: (415) 476-5808
Course Information: (415) 476-4251

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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:

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**Registration Fees:**

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*On-site registration is $50 additional.*

Make checks payable to UC Regents

Please charge my credit card:  
[ ] Visa  [ ] MasterCard  [ ] AmEx for $ ________________

CARD # ____________________________ / ____________

NAME ON CARD (Please Print)  AUTHORIZED SIGNATURE

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](http://cme.ucsf.edu)

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**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](https://www.royal-hawaiian.com)