

Presented by the Departments of
Neurosurgery and Orthopaedic Surgery
University of California, San Francisco
School of Medicine



University of California
San Francisco

7th Annual UCSF Techniques in Complex Spine Surgery Course

FRIDAY - SATURDAY
November 3-4, 2017



Vdara Hotel
Las Vegas, Nevada and
**Medical Education
and Research Institute
of Nevada**
Henderson, Nevada

COURSE DIRECTORS

Christopher P. Ames, MD
Professor of Neurological
Surgery; Co-Director,
Spinal Surgery and
UCSF Spine Center;
Co-Director, Neurospinal
Disorders Program;
Director of Spinal Tumor
and Deformity Surgery

Vedat Deviren, MD
Professor of Clinical
Orthopaedic Surgery;
UCSF Spine Center

HONORED GUEST SPEAKERS

Ahmet Alanay, MD
Pedro Berjano, MD
Rajiv Sethi, MD

7th Annual UCSF Techniques in Complex Spine Surgery Course

Vdara Hotel
Las Vegas, Nevada
**Medical Education and
Research Institute of
Nevada**
Henderson, Nevada

November 3-4, 2017

The 2017 UCSF Techniques in Complex Spine Surgery Course is a two-day course emphasizing pioneering trends in 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 portion taking place at the Medical Education and Research Institute in Nevada (MERIN). Participants will review and practice surgical principles and techniques in the treatment of spinal deformities and tumors. As a result of hands-on sessions and case conferences, residents, fellows, and surgeons with less than an advanced level of experience will have improved skills in cases dealing with complex spinal deformities.

TARGET AUDIENCE

Orthopaedists and Neurosurgeons, as well as their clinical support team and surgeons in training in the specialty of spine surgery.

OBJECTIVES

An attendee completing this course will increase skills and strategies to:

- 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;
- Identify risk factors that may predispose individuals to perioperative morbidity and determine modifiable risk factors and strategies for effective optimization;
- Improve diagnosis of 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.

ACCREDITATION

The University of California, San Francisco (UCSF) School of Medicine 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 **13.25 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 Credits™** issued by organizations accredited by the ACCME.

Physician Assistants

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

Pharmacy:

The California Board of Pharmacy accepts as continuing professional education those courses that meet the standard of relevance to pharmacy practice and have been approved for **AMA PRA Category 1 Credits™**



FRIDAY NOVEMBER 3, 2017

7:30 am	<i>Registration and Continental Breakfast</i>	
8:00	Welcome & Overview	Dr. Christopher Ames & Dr. Vedat Deviren
8:05	Anterior Approach for Interbody Fusion: What Might Go Wrong?	Dr. Charles Eichler
8:25	Lateral Approach for Interbody Fusion: What might Go Wrong?	Dr. Juan Uribe
8:45	Risk and Complication in MIS Adult Spinal Deformity Surgery	Dr. Gregory Mundis
9:05	Neurologic Complications in Adult Spinal Deformity Surgery	Dr. Han Jo Kim
9:25	HONORED SPEAKER INTRODUCTION	Dr. Vedat Deviren
9:30	Management of Congenital Scoliosis	Dr Ahmet Alanay
10:00	Questions and Answers	
10:15	<i>Coffee Break</i>	
10:35	Sagittal Alignment is Critical Even in Single-level Lumbar Fusion	Dr. Vedat Deviren
10:55	The Role of Plastic Surgeons in Complex Spine Surgery	Dr Scott Hansen
11:20	A New Algorithm for MIS Deformity Surgical Planning	Dr. Praveen Mummaneni
11:40	Application of Transposas Technique for Deformity Surgery	Dr. Shane Burch
12:00 pm	The Use of MIS Surgery for Sagittal Plane Deformities	Dr. Robert Eastlack
12:20	Questions and Answers	
12:35	<i>Lunch</i>	
2:05	MIS TLIF: Techniques and Outcomes	Dr. Aaron Clark
2:25	HONORED SPEAKER INTRODUCTION	Dr. Chris Ames
2:30	Rod Fractures and Non-unions in Three-Column Osteotomies of the Spine. Strategies for Prevention and Treatment	Dr. Pedro Berjano
3:00	Role of ALIF with Hyperlordotic Cages Below Long Fusion L4-S1	Dr. Murat Pekmezci
3:20	Questions and Answers	
3:35	<i>Coffee Break</i>	
3:55	Cost and Value in Surgery for Adult Spinal Deformity	Dr. Sigurd Berven

COURSE CO-CHAIRS

Christopher P. Ames, MD
Professor of Neurosurgery;
Director of Spine Tumor Surgery
Director of Spinal Deformity
University of California,
San Francisco

Vedat Deviren, MD
Professor of Orthopaedics University
of California,
San Francisco

HONORED GUEST SPEAKERS

Ahmet Alanay, MD
Professor of Orthopaedics and
Traumatology; Pediatric and
Adult Spinal Disorders;
Acibadem University School of
Medicine, Department of
Orthopaedics and Traumatology
Comprehensive Spine Center
Acibadem Maslak Hospital
Istanbul, Turkey

Pedro Berjano, MD
Head, GSpine4 Spine Division at
IRCCS Istituto Ortopedico Galeazzi
Milan, Italy

Rajiv Sethi, MD

Associate Professor
Chair of the Neuroscience Institute
Departments of Orthopaedics and
Neurosurgery Virginia Mason
Medical Center Department of
Health Services Program in
Health Economics and
Outcomes Methodology
University of Washington
Seattle, WA

COURSE FACULTY (all UCSF unless otherwise noted)

Sigurd Berven MD
Professor of Orthopaedics

Shane Burch, MD
Associate Professor in Residence

Aaron Clark, MD
Assistant Professor of Neurosurgery

Dean Chou, MD
Professor of Neurological Surgery
Associate Director, UCSF Spine
Center

Robert Eastlack, MD
Co-Director, San Diego Spine
Fellowship; Complex, Cervical, and
Minimally Invasive Spine Surgery
Scripps Clinic Orthopaedic Surgery
San Diego, CA

COURSE FACULTY (CONT'D)

Charles Eichler, MD
Professor of Vascular and
Endovascular Surgery

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

Scott Hansen, MD
Associate Professor of Plastic,
Reconstructive & Orthopedic Surgery
Chief, Hand and Microvascular
Surgery, UCSF
Chief, Plastic and Reconstructive
Surgery, Zuckerberg San Francisco
General Hospital
Co-Director, UCSF Center for
Reconstructive Microsurgery
Director, Plastic Surgery
Residency Program
Director, UCSF Microsurgery
Fellowship

Han Jo Kim, MD
Associate Professor of
Orthopaedic Surgery Spine
Fellowship; Co-Director Hospital
for Special Surgery
New York, NY

FRIDAY NOVEMBER 3, 2017 (CONT'D)

4:15	HONORED SPEAKER INTRODUCTION	Dr. Vedat Deviren
4:20	Delivering Value and Enhancing Safety in the Care of Spinal Deformity Patients: Lessons from the Seattle Spine Team	Dr. Rajiv Sethi
4:50	Adult Spinal Deformity Long-term Construct Durability	Dr. Munish Gupta
5:10	Update on Osteoporosis Management in Spinal Deformity	Dr Kyle Mitsunaga
5:30	Questions and Answers	
5:50 pm	<i>Adjourn to Course Reception</i>	

SATURDAY NOVEMBER 4, 2017

Shuttles from Vdara depart at 8:00 am.

8:30 am	Arrive at MERIN
9:00 -12:00 pm	Session Group A: Cadaver Lab
9:00 -12:00 pm	Session Group B: Lecture and Case Presentations Moderators: Dr. Eric Klineberg, Dr. Aaron Clark, and Dr. Bobby Tay
12:00 -1:00 pm	<i>Lunch included with tuition</i>
1:00 - 4:00 pm	Session Group A: Lecture and Case Presentations Moderators: Dr. Dean Chou, Dr. Rishi Wadhwa, and Dr. Lionel Metz
1:00 - 4:00 pm	Session Group B: Cadaver Lab
4:00 pm	<i>Course Adjourns; shuttles return to Vdara and Airport.</i>

Cadaver stations to include:

Anterior exposure and LIF/ Lateral and Oblique Interbody Fusion

C1-C2 Screw Placement/Cervical Osteotomy

TL PSO VCR/ Thoracolumbar PSO/VCR

Pelvic Fixation/En Bloc Resection Techniques

Posterior Pedicle Screw Fixation/Post Osteotomy/Screws

COURSE FACULTY (CONT'D)

Eric Klineberg, MD

Associate Professor of Orthopaedic Surgery; Assistant Residency Director, Spine Fellowship Program Director University of California, Davis, School of Medicine, Department of Orthopaedic Surgery Sacramento, CA

Lionel Metz, MD

Assistant Professor Clinical Orthopaedics

Kyle Mitsunaga, MD

Orthopaedic Spine Surgeon The Queen's Medical Center Shriners' Hospitals for Children Honolulu, Hawaii

Praveen Mummaneni, MD

Professor of Neurological Surgery

Gregory M. Mundis, Jr., MD

Medical Director, San Diego Center for Spinal Disorders Co-Director San Diego Spine Fellowship, Pediatric and Adult Deformity Surgery San Diego, CA

Murat Pekmezci, MD

HS Associate Clinical Professor in Orthopaedic, Trauma Surgery Department of Orthopaedic Surgery

Bobby Tay, MD

Professor of Orthopaedics Director Spine Fellowship Program; Director of Outpatient Spine Surgery Orthopaedic Institute; Director of NFL Spine Player Care Program

Juan Uribe, MD

Associate Professor, Director Spine Section, Department of Neurosurgery University of South Florida Department of Neurosurgery and Brain Repair University of South Florida Tampa, FL

Rishi Wadhwa, MD

Assistant Professor of Neurological Surgery University of California, San Francisco



faculty

Neurosurgery Update 2017

August 3, -5, 2017
Silverado Resort • Napa, California

Pituitary Disorders: Advances in Diagnosis and Management

October 21, 2017
Marriott Union Square • San Francisco, California

UCSF 12th Annual Primary Care Sports Medicine Conference

December 1-3, 2017
InterContinental San Francisco
San Francisco, California

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.

UCSF

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San Francisco, CA
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GENERAL INFORMATION

Advanced registration closes November 1, 2017 to start of course. Onsite registration fees, if applicable, will be applied after this date.

HOW TO ENROLL

Tuition:	\$800 Physicians
	\$900 Physicians (after October 15, 2017)
	\$750 Allied Health Professionals
	\$850 Allied Health Professionals (after October 15, 2017)
	\$650 Residents/Fellows
	\$750 Residents/Fellows (after October 15, 2017)

Payment can be made by American Express, Visa, MasterCard, or check payable to *UC Regents*

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 your registration status, please call the UCSF CME Registration Office at (415) 476-5808.

REFUND POLICY

Cancellations received in writing before **November 1, 2017** will be refunded, less a \$75 administrative fee. No refunds will be made on cancellations received after that date.

CONFERENCE LOCATION

Enjoy Las Vegas' renowned attractions such as the historic Fremont Street, shopping in CityCenter, or the world-famous Strip. **Vdara Hotel** is located in the CityCenter, an urban community filled with fine art and spectacular architecture. CityCenter is a place of high-tech meeting spaces, brilliant residences, world-class spas, extraordinary dining, modern art, and seductive bars.

A block of guestrooms has been reserved at the special UCSF conference rate of **\$152** for Thursday night and **\$209** a night on Friday and Saturday night, plus a daily resort fee of \$28.00. You are urged to make your

reservations early. The cut-off date is **October 3, 2017**, 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.

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

The Medical Education and Research Institute of Nevada (MERIN) is an independent facility located in Henderson, Nevada. Each year, thousands of medical professionals from across the US and around the world come to MERIN to learn new surgical procedures and test innovative medical products, which can result in improved health care delivery, less invasive operations, improved surgical outcomes, shorter recovery times, and the reduction of post-surgical infection. MERIN is recognized among physicians, researchers, and medical device companies as a world-class facility. MERIN is one of the Platinum Training facilities across the United States.

RENTAL CAR

Hertz is offering special rates for participants of this conference; simply call 800-654-2240 and refer to convention number # 03BW0136 or call your travel agent. 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 offer code to book on your own:

United – www.united.com code: ZY6G767022



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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. Mr. Mrs. Ms.

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

- \$800 Physicians
- \$900 Physicians (after October 15, 2017)
- \$750 Nurses/Pharmacist/Allied Health Professionals
- \$850 Nurses/Pharmacist/Allied Health Professionals (after October 15, 2017)
- \$650 Residents/Fellows
- \$750 Residents/Fellows (after October 15, 2017)

Check enclosed payable to UC Regents

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

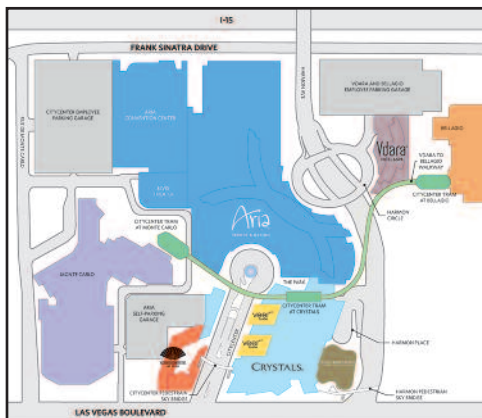
Card # _____ Expiration date _____

Name on Card (Please Print) _____ Authorized Signature _____

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www.vdara.com

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Please refer to our website www.ucsf.cme.edu for additional information.