

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



University of California
San Francisco

5th Annual UCSF Techniques in Complex Spine Surgery Course

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

Todd J. Albert, MD
Michael D. Daubs, MD
Jeffrey C. Wang, MD



FRIDAY - SATURDAY
November 6-7, 2015

5th Annual UCSF Techniques in Complex Spine Surgery Course

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

November 6-7, 2015

The 2015 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). Designed for neurosurgeons, orthopaedic surgeons, residents, and fellows who are interested in complex spine surgery techniques and want to gain both a description of the unique anatomical and clinical aspects of these procedures as well as a hands-on approach to each of these regions on cadaveric preparations that will provide for cervical, thoracic, and lumbar dissection and instrumentation from a diverse faculty of experts in a state of the art facility.

OBJECTIVES 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. An attendee completing this course should increase skills and strategies to:

- Evaluate and treat spinal pain 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 and avoid perioperative complications by identifying risk factors that may predispose cases to morbidity risk;
- Select patients for these procedures and avoid complications;
- Utilize a variety of instrumentations and techniques;
- Describe the surgical techniques in accessing different areas of the spine;
- Recognize the indications and contraindications for these approaches;
- Correlate radiographic findings as they pertain to the surgical approach and understand 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 **14.00 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

The National Commission Certification of Physician Assistants (NCCPA) states on certification that **AMA PRA Category 1 Credits** are acceptable for continuing medical education requirements for recertification.



5th Annual UCSF Techniques in Comp

November 6-7, 2015

FRIDAY NOVEMBER 6, 2015

7:30 am	<i>Registration and Continental Breakfast</i>	
8:00	Welcome and Announcements	Dr. Christopher Ames & Dr. Vedat Deviren
8:05	Minimally Invasive Transforaminal Lumbar Interbody Fusion	Dr. Praveen Mummaneni
8:25	Mini-Open Surgery: Can We Achieve the Same Results as Open Surgery with Less Morbidity	Dr Dean Chou
8:45	Technical and Practical Considerations of Lateral Lumbar Interbody Fusion (LLIF) in Spinal Deformity Surgery	Dr. Robert Eastlack
9:05	Minimally Invasive Spine Surgery: Complications and Complications and Avoidance: Lessons Learned	Dr. Juan Uribe
9:25	Anterior Column Realignment (ACR): A Surgery for the Select Few or Technique for the Masses?	Dr. Gregory Mundis
9:45	Coffee Break	
10:00	Oblique (Anterior to psoas) Cage Techniques for Deformity	Dr. Ganesh Swamy
10:20	HONORED GUEST LECTURER: Controversies in Biologics for the Spine	Dr. Jeffrey Wang
10:55	Q & A	
11:05	Neurological Monitoring in Spinal Deformity Surgery	Dr. Michael Kelly
11:25	Complication of Cervical Disc Arthroplasty	Dr. Bobby Tay
11:45	Technical Nuances to Resection of Primary Spinal Tumors	Dr. Dan Sciubba
12:05 pm	<i>Lunch- included with your tuition</i>	
1:20	Cost and Value in Adult Spine Surgery: Innovations in Spinal Deformity Surgery- Bending the Cost Curve	Dr. Sigurd Berven
1:40	Complications in Adult Spinal Deformity	Dr. Eric Klineberg
2:00	Preoperative Planning, the Validity of Alignment Targets, and Age Specific Targets of Deformity Correction	Dr. Themistocles Protopsaltis
2:20	Can Patient-specific Pre-operative Planning Reduce the Incidence of Proximal Junctional Kyphosis?	Dr. Virginie Lafage
2:40	HONORED GUEST LECTURER: Psychosocial Effects on Spine Outcomes and Choosing the Right Patient for Surgery	Dr. Michael Daubs
3:15	Proximal Junctional Failure - Avoidance and Management	Dr. Robert Hart
3:35	Q & A	
3:45	Coffee Break	
4:00	The Influence of Spinal Deformity on Acetabular Orientation in Total Hip Arthroplasty	Dr. Samuel Bederman

COURSE CO-CHAIRS

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

Vedat Deviren, MD
Professor of Orthopaedics,
University of California
San Francisco, School of Medicine,
Department of Orthopaedic Surgery

HONORED GUEST SPEAKERS

Todd J. Albert, MD
Professor of Orthopedic Surgery,
Chairman, Department of
Orthopedic Surgery, Weill Cornell
Medical College; Surgeon-in-Chief
and Medical Director, Hospital for
Special Surgery; New York, NY

Michael D. Daubs, MD
Professor and Chief of
Orthopaedic Surgery
University of Nevada, Las Vegas
Las Vegas, NV

Jeffrey C. Wang, MD
Professor of Orthopaedic Surgery
and Neurosurgery; Chief,
Orthopaedic Spine Service;
Co-Director USC Spine Center
University of Southern California
Los Angeles, CA

COURSE FACULTY

(all UCSF unless otherwise noted)

Samuel Bederman, MD
Assistant Clinical Professor of
Orthopaedic Surgery; University of
California, Irvine, School of
Medicine, Department of
Orthopaedic Surgery
Irvine, CA

Sigurd Berven MD
Professor of Orthopaedic Surgery;
Chief of Spine Service, Department
of Orthopaedic Surgery
University of California
San Francisco, School of Medicine,
Department of Orthopaedic Surgery

Shane Burch, MD
Associate Clinical Professor
in Residence; University of
California; San Francisco, School
of Medicine, Department of
Orthopaedic Surgery

Dean Chou, MD
Associate Professor of Neurological
Surgery; Associate Director,
UCSF Spine Center, University of
California San Francisco,
School of Medicine, Department
of Neurosurgery

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

Charles Eichler, MD

Professor of Vascular and
Endovascular Surgery, University of
California, San Francisco, School of
Medicine, Department of Surgery

Munish Gupta MD
Professor and Chief of Orthopaedic
Surgery; Co-Director of Spine
Center; University of California,
Davis, School of Medicine,
Department of Orthopaedic Surgery
Sacramento, CA

Robert A. Hart, MD, MA
Associate Professor of Orthopaedic
Surgery, Oregon Health & Science
University, Department of
Orthopaedics, Portland, OR

Michael Kelly, MD
Assistant Professor of Orthopaedic
and Neurologic Surgery
Adult and Paediatric Spinal
Deformity Washington University
St. Louis, MO

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

FRIDAY NOVEMBER 6, 2015 (CONT'D)

4:20	HONORED GUEST LECTURER: What Have my Gray Hairs Taught Me?	Dr. Todd Albert
4:55	Maximizing Correction and Outcomes in Pedicle Subtraction Osteotomies	Dr. Munish Gupta
5:15	Making Adult Spinal Deformity Surgery Sustainable in the Era of Healthcare Reform	Dr. Rajiv Sethi
5:35	Q&A	
5:45	Surgical Debate: Pro: Dr. Murat Pekmezci Con: Dr. Shane Burch	Moderators: Dr. Christopher Ames & Dr. Vedat Deviren
6:15 pm	<i>Course Adjourn</i>	
6:15 - 7:15 pm	<i>Course Reception</i>	

SATURDAY NOVEMBER 7, 2015

Shuttles from Vdara depart at 8:00 am

8:30 am	Arrive at MERIN for Continental Breakfast	
9:00 -12:00 pm	Session Group One: Lecture and Case Presentations	
9:00 -9:20 am	Anterior Exposure to the Lumbar Spine Lessons Learned and Relearned • Dr. Charles Eichler	
9:00 -12:00 pm	Case Presentations • Presenters: Dr. Michael Kelly and Dr. Ganesh Swamy	
9:00 -12:00 pm	Session Group Two: Cadaver Lab	
12:00 -1:00	<i>Lunch included with tuition</i>	
1:00 -1:20	Session Group One: Cadaver Lab	
1:20 -4:00	Session Group Two: Lecture and Case Presentations	
1:00 -1:20	Anterior Exposure to the Lumbar Spine Lessons Learned and Relearned • Dr. Charles Eichler	
1:20 -4:00	Case Presentations • Presenters: Dr. Murat Pekmezci and Dr. Michael Keely	
4:00 pm	<i>Course Adjourn, shuttles return to Vdara and Airport</i>	

Cadaver Stations to include:

**Anterior Exposure and XLIF • Harms Deformity/C2 Lumbar Screw Placement/
Cervical Osteotomy/T-VCR/T-Screws • TL PSO VCA/Pelvic Fixation/Screws
Sacrectomy/Iliac Fixation/VLIF/Pelvic Fixation/En Bloc Resection
Pedicle Screw Fixation/Post Osteotomy/Screws/Transitional
Percutaneous Screws • PSO/VCR/S2 Screws
Lumbar PSO/Sacrum Fixation/PSO/S2 Screws Thoracic
Cervical Instrumentation/Cervical PSO/Lumbar PSO/VCR**



COURSE FACULTY (CONT'D)

Virginie LaFage, MD

Director, Spine Research, New York University Langone Medical Center-Hospital for Joint Diseases
Department of Orthopedic Surgery
New York, NY

Praveen Mummaneni, MD

Professor of Neurological Surgery;
University of California, San Francisco, School of Medicine,
Department of Neurosurgery

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

Associate Clinical Professor of Orthopaedic and Trauma Surgery
University of California San Francisco, School of Medicine,
Department of Orthopaedic Surgery

Gregory Poulter, MD

Spinal Surgeon, OrthoIndy Spine Center, Indianapolis, IN

Themistocles Protopsaltis, MD

Assistant Professor, Department of Orthopaedic Surgery, Department of Orthopaedic Surgery, New York University Langone Medical Center
New York, NY

Dan Sciubba, MD

Associate Professor of Neurological Surgery; Director, Spine Tumor and Spine Deformity Research; Director, Minimally Invasive Spine Surgery;
Co-Director, Spinal Column Biomechanics and Surgical Outcomes; John Hopkins University Department of Neurosurgery, Baltimore, MD

Rajiv Sethi, MD

Clinical Assistant Professor, University of Washington, School of Public Health, Department of Health Services; Chair of the Virginia Mason Neuroscience Institute; Director of Spine Research; Director of Complex Spine Surgery Departments of Neurosurgery and Orthopaedics, Virginia Mason Medical Center
Seattle, Washington

Ganesh Swamy, MD

Assistant Clinical Professor
University of Calgary
Dept of Orthopaedic Surgery
Calgary, Alberta, Canada

Bobby Tay, MD

Professor, Clinical Orthopaedics, Director Spine Fellowship Program, Director of Outpatient Spine Surgery at the Orthopaedic Institute, Director, Spine Center Ambulatory Service; Director of NFL Spine Player Care Program
University of California San Francisco, School of Medicine, Department of Orthopaedic Surgery

Juan S. Uribe, MD

Director of Complex and Minimally Invasive Spine Surgery
Department of Neurosurgery, University of South Florida
Tampa, FL

Rishi Wadhwa, MD

Assistant Clinical Professor of Neurological Surgery;
University of California San Francisco, School of Medicine, Department of Neurosurgery

Michael Weber, MD

Assistant Professor of Orthopaedic Surgery, McGill University
Montreal, Quebec Canada

Pituitary Disorders: Advances in Diagnosis and Management

October 24, 2015

Marriott Union Square
San Francisco, California

UCSF 10th Annual Primary Care Sports Medicine Conference

December 11-12, 2015

InterContinental San Francisco
San Francisco, California

For more information or to register online visit our website at www.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

Office of CME

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San Francisco, CA

94143-0742



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Recycled Paper

GENERAL INFORMATION

Advance registration closes one (1) business day prior to start of course.

HOW TO ENROLL

- Tuition:** **\$675** Physicians
\$775 Physicians (*after October 15, 2015*)
\$625 Allied Health Professionals/
Residents/Fellows
\$725 Allied Health Professionals/
Residents/Fellows
(*after October 15, 2015*)

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

REGISTER VIA:

Online: www.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 the first day of the course 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.

CONFERENCE LOCATION (CONT'D)

A block of guestrooms has been reserved at the special UCSF conference rate of **\$139** for Thursday night and **\$139** 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 6, 2015**, 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, visit our website at www.cme.ucsf.edu.

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 #03BW0134 or call your travel agent. You may also make reservations at www.Hertz.com.

AIR TRANSPORTATION

UCSF OCME has negotiated special fares with American and United Airlines for our course attendees. You may use the following tour codes to book your airfare:

United – www.ual.com group code: ZUG2332213

general info

5th Annual UCSF Techniques in Complex Spine Surgery Course

MOR16004

November 6-7, 2015 • Vdara Hotel • Las Vegas, NV and MERIN Center • Henderson, NV

Mail to : UCSF Office of CME
P.O. Box 45368
San Francisco, CA 94145-0368
Fax: (415) 502-1795

Online registration: www.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: / / X X
Month Day

 Please indicate if you have any special needs:

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

- ☐ \$675 Physicians
- ☐ \$775 Physicians (after October 15, 2015)
- ☐ \$625 Nurses/Pharmacist/Allied Health Professionals/Residents/Fellows
- ☐ \$725 Nurses/Pharmacist/Allied Health Professionals/Residents/Fellows (after October 15, 2015)

Check enclosed payable to UC Regents

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

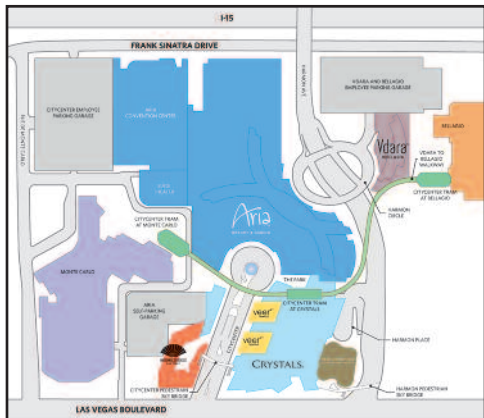
Card # Expiration date

Name on Card (Please Print) Authorized Signature

Refund Policy: Cancellations received in writing before the first day of the course 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: www.cme.ucsf.edu.

VDARA HOTEL & SPA
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Please refer to our website www.ucsf.cme.edu for additional information.