

**10th Annual UCSF Techniques in Complex Spine Surgery Program
November 5, 2021 – Vdara, Las Vegas, NV**

7:30am *Registration and Continental Breakfast*

SECTION INFORMATION IF APPLICABLE

8:00	Welcome	Christopher Ames, MD Vedat Deviren, MD
8:05	Interbody Selection Algorithm for MIS Surgery	Praveen Mummaneni, MD
8:25	En Bloc Spondylectomy and Reconstruction Techniques for Tumor	John H. Shin, MD
8:45	Enhanced Recovery After Spine Surgery (ERAS) at Two Academic Institutions	Corrina Zygourakis, MD
9:05	Evolution of MIS Capacity for Deformity Correction	Robert Eastlack, MD
9:25	Honored Speaker Introduction	
9:30	Complication Classification in Spinal Surgery	Eric Klineberg, MD
10:00	Question and Answer	
10:20	<i>Break</i>	
10:40	Every Degenerative Case is a Deformity Case: The Importance of Sagittal Alignment in Single-Level Lumbar Fusion	Deeptee Jain, MD
11:00	PJK Prevention Strategies	Han Jo Kim, MD
11:20	Leveraging the Quality/Value Equation with Navigation and Robotics in Complex Spine Surgery	Rajiv Sethi, MD
11:40	Question and Answer	
12:00	<i>Lunch</i>	
1:00	Considerations for Deformity Surgery in the Young Adult	Lionel Metz, MD
1:20	Adult Idiopathic Scoliosis Classification and Treatment	Joseph Osorio, MD
1:40	Adult Deformity Measurements for Spine Surgery	Grigory Arutyunyan, MD
2:00	VCR for Tumor/Infection	Aaron Clark, MD
2:20	Question and Answer	
2:40	<i>Coffee Break</i>	
3:00	Honored Speaker Introduction	
3:05	Revision Strategies for Harrington Rod Instrumentation: Radiographic Outcomes and Complications	Christopher DeWald, MD
3:35	Rail Technique: Surgical Technique and Description	Alekos Theologis, MD
3:55	Early Results for Robotic Assisted Minimally Invasive Scoliosis Surgery with Patient Specific Implants for Precise 3D Alignment. How AI and Robots Create Predictable Outcomes	Gregory Poulter, MD
4:15	AI/Surgical Genomics Update in Adult Deformity	Christopher Ames, MD
4:35	Cervical Spinal Deformity Radiographic Parameters, Surgical Techniques and Complication Avoidance	Lee Tan, MD
4:55	Question and Answer	
5:35pm	Adjourn	
	Course Reception Course Reception Dinner included in Tuition for Attendee	

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Session One: Cadaver Lab

8:00am Continental Breakfast and Change into scrubs
 9:00-12:00pm Cadaver AM Session Group A
 9:00-12:00pm Session Group B: Lecture and Case Presentations
Moderators: Vedat Deviren, MD and Eric Klineberg, MD
Case Presentations: Joseph Osorio, MD, PhD, Gregory Poulter, MD, Rajiv Sethi, MD, John H. Shin, MD, Shane Burch, MD, Grigory Arutyunyan, MD, Robert K. Eastlack, MD, FAAOS
 12:00-1:00pm *Lunch included with tuition*

Session Two: Cadaver Lab

1:00-4:00pm Cadaver PM Session Group B
 1:00-4:00pm Session Group A: Lecture and Case Presentations
Moderators: Christopher Ames, MD and Christopher J. DeWald, MD
Case Presentations: Han Jo Kim, MD, Lee Tan, MD, Alekos Theologis, MD, Praveen Mummaneni, MD, MBA, Corinna Zygourakis, MD, Lionel N. Metz, MD
 4:00pm *Course Adjourns*

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

LAB ASSIGNMENT AM Group A			
Station	Instructor	Procedure	Company
Cadaver #1	Han Jo Kim, MD	PTP / Percutaneous Instrumentation	ATEC
	Lee Tan, MD		
Cadaver #2	Aaron Clark, MD, PhD	Xlif / Single Position Anterior	NuVasive
	Deeptee Jain, MD		Orthofix
Cadaver #3	Alekos Theologis, MD	Cervical Instrumentation and Osteotomy	Spine Craft
			SI-Bone
Cadaver #4	Lionel Metz, MD	Posterior Fixation / Pelvic Fixation	Medtronic
	Corinna Zygourakis, MD		
Cadaver #5	Christopher J. DeWald, MD	Posterior Fixation / Pelvic Fixation	Depuy
	Lionel N. Metz, MD		Stryker
	Praveen Mummaneni, MD, MBA		
Lunch 12:00 – 1:00pm			
LAB ASSIGNMENT PM Group B			
Stations/ Position	Instructor	Procedure	Company
Cadaver #1	Eric Klineberg, MD	PSO/VCR	ATEC
	Joseph Osorio, MD, PhD		
Cadaver #2	John H. Shin, MD	PSO/VCR	NuVasive
	Gregory Poulter, MD		Orthofix
Cadaver #3	Rajiv Sethi, MD	PSO/VCR	Spine Craft
			SI-Bone
Cadaver #4	Shane Burch, MD	En Bloc Resection / Osteotomies	Medtronic
	Grigory Arutyunyan, MD		
Cadaver #5	Robert K. Eastlack, MD, FAAOS	En Bloc Resection / Osteotomies	Depuy
			Stryker

