

Program

Friday, December 12, 2025

7:15 am Registration
Continental Breakfast and Exhibit Viewing

Convene Level 2 Foyer

SESSION 1: How Best to Plan for High Grade Spondylolisthesis Surgery: Pre-Op, Intra-Op, and Post-Op

NON-CME

Moderator: M. Kelly

Forum

7:55	Welcome	L. Lenke
8:00	Management of the Unbalanced Pelvis, Balanced Spine - Classification and Assessment	J. Hills
8:10	Transsacral Advocate	S. Hershman
8:20	TLIF	A. Tuchman
8:30	ALIF	M. Gupta
8:40	Discussion	
8:50	Cases and Complication Avoidance: Panel Discussion	

SESSION 2: How to Prevent Short Segment Degen Surgery from Progressing into a Deformity

NON-CME

Moderator: J. Smith

Forum

9:10	Introduction to Problem, Recent Literature Review, & Analysis and Decision-Making Based on Clinical and Radiographic Presentation	H. J. Moon
9:20	How I Intraoperatively Achieve My Pre-Operative Alignment Plan for Short-Segment Lumbar Fusions in Order to Prevent Creating My Next Deformity Case	K. Jones
9:30	Nothing Beats the Power of the ALIF to Reliably and Adequately Restore Segmental Lordosis in Degenerative Lumbar Spine Disease	S. Berven
9:40	The Carpentry I Use with the TLIF Technique to Ensure That I Get Sufficient Lordosis for Degenerative Lumbar Spine Disease	J. Lombardi
9:50	Strategies with MIS Approaches to Lumbar Spine Degenerative Disease to Restore Adequate Lumbar Lordosis and Prevent Flatback	S. Qureshi
10:00	Discussion	
10:10	Case Reviews of Degenerative Cases Prone to Malalignment: Strategies to Prevent Deformity	
10:30	Refreshment Break and Exhibit Viewing	Foyer

SESSION 3: Short Segment Degenerative Deformity Correction in the Lumbar TL Spine: Revision Strategies for Short Segment Degeneration that Turned into a Deformity

NON-CME

Moderator: R. Lehman

Forum

11:00 Introduction to Problem, Recent Literature Review, & Analysis and Decision-Making Based on Clinical and Radiographic Presentation *P. Mummaneni*

Step-by-Step Surgical Treatment:

11:10 Can Short Segment Failures Be Salvaged with MIS Procedures? *N. Anand*

11:20 Get Aggressive—A 3CO is Best to Restore Alignment Even in a Short Construct *K. Kebaish*

11:30 Be Wary of Coronal Alignment When Revising Degenerative Failures *E. Klineberg*

11:40 Decision Tree in Choosing UIV During Short Segment Revisions: When to Keep It Short vs. Why to Go Long? *J. Osorio*

11:50 Discussion

12:00 pm Case-Based Panel Discussion *R. Lehman*

12:30 Lunch **Foyer**

SESSION 4: Non-CME Working Lunch

NON-CME

Moderator: L. Tan

Forum

1:05–1:17 **Evolving Strategies and Technologies for Alignment Planning in Adult Spinal Deformity**
Mike Kelly, MD, MSc
Supported by Medtronic

1:20–1:32 **The AcuPac Advantage: Elevating Performance in Bone Grafting**
Ioannis Avramis, MD; Jeffrey L. Gum, MD; Lawrence G. Lenke, MD; Scott Zuckerman, MD, MPH
Supported by Acuity Surgical

1:32–1:40 Discussion

SESSION 5: Analysis and Treatment of Young Adult Idiopathic Scoliosis between AIS and Much Older Adult Patients

NON-CME

Moderator: C. Shaffrey

Forum

1:55 How Do Pediatric Spine Surgeons View the Older AIS Patient with “Borderline” Operative Curves? *M. Vitale*

2:05 Clinical and Radiographic Presentation of Young to Middle-Aged Adult Idiopathic Scoliosis *P. Passias*

2:15 Nonop Treatment of Adult Idiopathic Scoliosis—Does it Work? *B. Diebo*

2:25 When to Pull the Trigger and Recommend Surgical Treatment of Young and Middle-Aged Adult Idiopathic Scoliosis *Z. Sardar*

2:35 My Perspective on the Young and Middle-Aged Adult Idiopathic Scoliosis Patient *B. Rocos*

2:45 Panel Discussion

3:10 Refreshment Break and Exhibit Viewing **Foyer**

SESSION 6: Avoiding Neurologic Complications in ASD Surgery

CME Accredited

Moderator: L. Lenke

Forum

3:40	Which Patients Are at Highest Risk and What Is the Incidence of Both Cord and Root Neuro Complications in ASD Surgery Circa 2025?	N. Lee
3:50	IONM in ASD Surgery: What Exactly Does It Monitor and Mechanisms/Reasons for Alerts	S. Lewis
4:00	BPG's for Both the "Stable" and "Unstable" ASD Spine With Clinical Impact	D. Sciubba
4:10	Discussion	
4:20	What I Have Learned to Both Avoid and Treat IONM Changes in Deformity Surgery Over My Career	L. Lenke
4:30	Case Discussion Session	
5:00	Adjourn	



Don't miss the Case Discussions at 8 am on Saturday morning!

Drs. Lenke, Shaffrey, and Schwab will lead two in-depth breakout sessions to review some of their recent cases.

7:30 am **Registration** **Convene Level 2 Foyer**
Continental Breakfast and Exhibit Viewing

8:00 **Concurrent Breakout Case Discussions**
Participants are invited to attend the Case Discussion of their choice

**Complex Adult Deformity Surgery from
Evaluation to Planning to Execution**

Forum

Moderator: L. Lenke

Panelists: S. Hu, G. Mundis, J. Gum, B. Neuman

CME Accredited

Revisions of Early Failures

Hub One

Moderators: C. Shaffrey & F. Schwab

Panelists: T. Protopsaltis, E. Beauchamp, D. Polly, M. Virk

CME Accredited

8:55 **Walking Break**

SESSIONS 7 & 8: Concurrent Free Paper Sessions

CME Accredited

SESSION 7: Free Papers #1–#12

Hub One

Moderators: K. Jones

9:05 **Paper 1: One Size Doesn't Fit All: Patterns of Proximal Junctional
Angle Progression and Revision Surgery** *Alex Upfill-Brown*

9:09 **Paper 2: The Impact of Interbody Use on Reoperation, Pseudoarthrosis, and Proximal Junctional
Failure in Adult Spinal Deformity Surgery** *Weston Wright*

9:13 **Paper 3: Beyond Cement: Identifying Drivers of Junctional Failure in Cement-Augmented
Thoracolumbar Posterior Spine Fusion Constructs** *Asra Toobaie*

9:17 Discussion

9:25 **Paper 4: Iliac Screws in Adult Spinal Deformity Surgery: Is Proximity to the Sciatic Notch Necessary?** *Iyan Younus*

9:29 **Paper 5: Preoperative Cervical Degeneration Predisposes Adult Spinal Deformity Patients to
Poor Postoperative Cervical Sagittal Alignment After Thoracolumbar Deformity Correction** *Josephine Coury*

9:33 **Paper 6: Pelvic Incidence Determines Spinal Alignment in the Sitting Position** *David Foley*

9:37 Discussion

9:45 **Paper 7: Does Alignment Alone Predict Mechanical Complications After Adult Spinal
Deformity Surgery? A Machine Learning Comparison of Alignment, Bone Quality, and Soft Tissue** *Iyan Younus*

9:49 **Paper 8: The Impact of Global Sagittal Alignment on Pelvic Fixation Failure:
A Matched Case-Control Study** *Alexander Yahanda*

9:53 **Paper 9: Getting It Right: Measuring from the Sacral Endplate Results in Greater Achievement
of Alignment Targets in Deformity Patients with Transitional Anatomy** *Nikita Lakomkin*

9:57 Discussion

10:05 **Paper 10: Does Sustained Intraoperative Hypotension During Adult Spinal Deformity Surgery
Lead to Worse Outcomes?** *Iyan Younus*

10:09 **Paper 11: The Role of Thoracic Flexibility as an Independent Protective Factor Against
Proximal Junctional Kyphosis** *Dayton Grogan*

10:13	Paper 12: Intraoperative to Postoperative Changes in T4-L1-Hip Axis Angles Occur After Fusions for Adult Spinal Deformity	Alexander Yahanda
10:18	Discussion	
10:25	Refreshment Break and Exhibit Viewing	Foyer
SESSION 8: Free Papers #13–#24 <i>Moderators: J. Sardi, J. Oren</i>		Forum
9:05	Paper 13: Motion-Preserving Hybrid Constructs Versus Posterior Spinal Fusion in Lenke 3/6 AIS: Two-Year Comparative Outcomes	Juan Carlos Rodriguez-Olaverri
9:09	Paper 14: Assessment of Upper and Lower Lumbar Lordosis in Asymptomatic Adults: Nearly 70% of The Population Exhibits More Than 35 Degrees of L4-S1 Lordosis	Sinan Kahraman
9:13	Paper 15: Comparative Morbidity and Outcomes for Adult Spinal Deformity Corrections Spanning C2-Pelvis Compared to T4-Pelvis: A Propensity Score-Matched Analysis of Patients of Similar Systemic Disease	Alexander Yahanda
9:17	Discussion	
9:25	Paper 16: Redefining Clinical Success Following Adult Spine Deformity Surgery Using a Multifactorial Composite Metric	Blerta Budani
9:29	Paper 17: Factors Associated with Achieving Minimum Clinical Important Difference in SRS-22r Subtotal Score Among Complex Adult Spinal Deformity Patients	Fthimnir Hassan
9:33	Paper 18: Changes in Acetabular Abduction and Anteversion Can Be Predicted Following Spinal Realignment Surgery Using Non-Linear Equations	Renaud Lafage
9:37	Discussion	
9:45	Paper 19: Standardization of Dynamic Postural Control via Standing Full Body Biplanar Radiograph	Jeffrey Gum
9:49	Paper 20: Plain Radiographs Predict the Risk of Pseudarthrosis in Corrective Deformity Surgery	Ted Shi
9:53	Paper 21: Bioimpedance Body Composition Phenotypes Predict Perioperative Risk Beyond BMI in Adult Spinal Deformity	Tej Azad
9:57	Discussion	
10:05	Paper 22: Utilizing a Supervised Machine Learning Strategy to Automate Detection of Bony Fusion Using X-Rays in Lumbar Fusion Surgery	Rushikesh Joshi
10:09	Paper 23: Machine Learning (ML) in Intraoperative Neuromonitoring: Updated Model Integrating Hemodynamic Data Detects Changes 35 Minutes Earlier Than Clinical Teams	Michael Vitale
10:13	Paper 24: Seven Years of Safer Surgery: Declining Medical Complications After Adult Spinal Deformity Reconstruction	Chierika Coco Ukogu Clements
10:18	Discussion	
10:25	Refreshment Break and Exhibit Viewing	Foyer

SESSION 9: Best Paper Presentations & Keynote Address by Heiko Koller

CME Accredited

Forum

10:50	Best Paper 1: Vertebral Pelvic Angles Accurately Predict Risk of Proximal Junctional Kyphosis in Long Segment Fusion for Adult Spinal Deformity Surgery	<i>Michael Fields</i>
10:55	Best Paper 2: What is a Better Predictor of Disability in Adult Spinal Deformity Patients: Gait or Radiographic Parameters?	<i>John Burke</i>
11:00	Best Paper 3: Biomechanical Basis of Proximal Junction Vulnerabilities with T4-L1 Hip Axis Malalignment: A Finite Element Analysis of Instrumentation and Disc Stress	<i>Luke Mugge</i>
11:05	Best Paper 4: Geriatric Nutritional Risk Index as a Predictor of Outcomes After Spinal Deformity Surgery in Elderly Patients	<i>Ataollah Shahbandi</i>
11:10	Discussion	
11:20	Keynote Lecture: Failure Prevention in Severe Spinal Deformity Surgeries: Intangibles and Details Can Make a Difference	<i>Heiko Koller</i>
11:40	Discussion	
11:45	Lunch	Foyer

SESSION 10: Non-CME Working Lunch

NON-CME

Moderators: G. Mundis, E. Beauchamp

Forum

12:15–12:27	aprevo® AI-Enabled Planning and Personalized Interbody Devices: Two-Year Reoperation Rates for Mechanical Complications in Adult Spinal Deformity <i>Andrew K. Chan, MD</i> Presented by Carlsmed
12:29–12:41	Built on Bedrock: Emerging Concepts in Spinopelvic Fixation <i>Samuel K. Cho, MD; Ronald A. Lehman Jr., MD</i> Presented by SI-BONE
12:43–12:55	Navigation, Redefined with 7D Machine-Vision Technology <i>Andrew Hecht, MD</i> Presented by Orthofix
12:55–1:15	SHF Bone Health Task Force <i>John R Dimar, II, MD; Zeeshan M. Sardar, MD</i> Presented by SHF

SESSION 11: Etiologies of Proximal and Caudal Junctional Failures: What Can We Learn to Lessen the Risk?

NON-CME

Moderator: F. Schwab

Forum

1:15	Introduction to Problem, Recent Literature Review, & Analysis and Decision-making Based on Clinical and Radiographic Presentation	S. Bess
1:25	Junctional Failure: Distal to Fusion, Risk Factors and Mechanisms of Failure	C. Ames
1:35	Junctional Failure: Proximal to Fusion, Risk Factors and Mechanisms of Failure	R. Lafage
1:45	Modifiable Parameters to Lessen Failure Aside from Tethers: Levels, Spine Shape, Custom Rods, Bracing	A. Daniels
1:55	Discussion	
2:05	Case Reviews on Failures: What Did We Not Get Right?	

SESSION 12: PJK Prevention Strategies, Which Ones Really Work?

NON-CME

Moderator: H.J. Kim

Forum

2:30	Introduction	H. J. Kim
2:40	Pre-Operative Prevention Strategies: Bone Quality Assessment & Optimization	M. Drake
2:52	Intra-Operative Prevention Part I: Hitting Alignment Goals, UIV Level Selection	C. Molina
3:04	Intra-Operative Prevention Part II: Cement, Tethers	F. Lovecchio
3:16	Discussion	
3:20	Case Presentations	H. J. Kim
3:45	Closing Comments	
3:50	Adjourn	