



10th Annual Advanced Lateral Approaches to the Spine

Saturday, April 6, 2024

Agenda

- 7 a.m. **Registration & Breakfast**
- 7:30 a.m. **Welcome, Introductions & Course Overview**
Juan S. Uribe, M.D. & Rod J. Oskouian, Jr., M.D.
- 7:35 a.m. **Keynote:**
Prone (PPT) vs. LLIF Evolution
William Taylor, M.D.
Objectives:
- Identify complications related to prone lateral approach
 - Outline the indications for prone lateral surgery
 - Recognize the differences between lateral and prone position approaches
- 7:55 a.m. **Beyond MIS Lateral: MIS Posterior Derotation, Translation, and Reduction Techniques - A Critical component of CMIS correction for ASD Without an Osteotomy (working lunch)**
Neel Anand, M.D.
Objectives:
- Describe the true concepts of what makes for circumferential MIS in adult spinal deformity
 - Explain that percutaneous screws is not just putting some screws in percutaneously
 - Outline the concept of ligamentotaxis in adult spinal deformity correction
- 8:15 a.m. **When and How To Do Stand Alone Lateral**
Juan Uribe, M.D.
Objectives:
- Identify complications related to stand alone lateral
 - Outline the indications for stand alone lateral
- 8:35 a.m. **Adoption of Navigation & Its Use in Lateral Surgery**
Nima Alan, M.D.
Objectives:
- Describe the advantages and disadvantages of using image guidance in lateral access surgery
 - Outline the safety checks to confirm accuracy of image guidance intraoperatively
 - Evaluate the utility of image guidance to navigate non-bony anatomy in lateral access surgery
- 8:55 a.m. **Why Not Go All Posterior?**
Venu Nemani, M.D., Ph.D.
Objectives:
- Describe the posterior-based TL deformity correction surgery
 - Discuss updated techniques for improved outcomes

- Outline a proposal for an integrated approach
- 9:15 a.m. **Difficult Lateral Cases**
Rod J. Oskouian, Jr., M.D.
Objectives:
- Describe how to deal with difficult lateral cases
 - Discuss updated techniques for improved outcomes
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9:35 a.m. **Break & Exhibits** (*not for CME credit*)

- 9:45 a.m. **Lab Demonstration No. 1: Prone Lateral with Robot**
Roland Kent, M.D.
Objectives:
- Outline proper retractor placement
 - Identify lateral interbody fusion following posterior treatment of adult spinal deformity patients
 - Describe techniques and clinical outcomes for delayed second-stage lateral surgery following posterior adult deformity correction

- 10:25 a.m. **Pushing the Boundaries of Lateral Surgery**
M. Craig McMains, M.D.
Objectives:
- Identify common barriers to lateral surgery adoption
 - Outline current enabling technology in lateral surgery
 - Recognize opportunities for further development

- 10:45 a.m. **Multilevel Prone with MIS Deformity**
Elizabeth Lord, M.D.
Objectives:
- Describe the rationale for prone lateral in deformity
 - Describe tips and tricks for this approach
 - Outline the potential pitfalls of this approach for deformity

11:05 a.m. **Break & Exhibits** (*not for CME credit*)

- 11:15 a.m. **Lab Demonstration No. 2: Nuances of the Lateral Approach to the Lumbar Spine**
Tony Kwon, M.D.
Objectives:
- Describe the nuances of the lateral approach to the lumbar spine
 - Outline important anatomic considerations in this approach
 - Summarize potential complications

11:55 a.m. **Pick Up Lunch** (*not for CME credit*)

- 12:10 p.m. **MIS Lateral for Deformity Surgery** (*working lunch*)
Corey Walker, M.D.
Objectives:
- Describe how MIS can be applied to adult deformity cases and the advantages of these techniques over traditional open operations
 - Identify key features that may make performing MIS surgery more challenging or dangerous
 - Outline how different enabling technologies can allow you to perform MIS deformity surgery more efficiently and safely

12:25 p.m.

Lab Demonstration No. 3: Stand Alone Lateral

Juan S. Uribe, M.D.

Objectives:

- Describe the principles and techniques for the standalone lateral approach
- Outline important anatomic considerations in standalone lateral approach
- Summarize potential complications

12:50 p.m.

The Importance of Sagittal Alignment and Expandables in Lateral Surgery

Luiz Pimenta, M.D.

Objectives:

- Outline issues with spinal balance and alignment
- Describe how to achieve lordosis in the lumbar spine
- Describe how to avoid subsidence with expandable cages

1:10 p.m.

Break & Exhibits (*not for CME credit*)

1:20 p.m.

Lab Demonstration No. 4: Subcostal, Subdiaphragmatic Lateral Approach with Corpectomy at L1-2 Without Rib Resection

Elizabeth Lord, M.D.

Objectives:

- Explain the anatomy of the TL junction
- Present an MIS way of approaching L1-2
- Recognize the potential pitfalls of this approach

2 p.m.

Lateral Corpectomy

Tony Kwon, M.D.

Objectives:

- Describe the anatomy and approach for lateral corpectomy for trauma
- Outline indications for lateral corpectomy for trauma

2:20 p.m.

Break, Exhibits & Change into Scrubs (*not for CME credit*)

2:30 p.m.

Lab Demonstration No. 5: Prone Lateral Tips & Tricks

Luiz Pimenta, M.D.

Objectives:

- Describe the principles and techniques for the lateral approach
- Outline important anatomic considerations in prone lateral surgery
- Summarize potential complications

3:20 p.m.

Intradiscal Osteotomy

Jens R. Chapman, M.D.

Objectives:

- Identify complications related to intradiscal osteotomy
- Outline the indications for intradiscal osteotomy

3:40 p.m.

Break & Transition to BioSkills Lab (*not for CME credit*)

3:45 p.m.

Hands-On BioSkills Lab Rotations (20 min. rotations)

Station 1: Prone Lateral with Robot

Roland Kent, M.D.

Station 2: Nuances of the Lateral Approach to the Lumbar Spine

Tony Kwon, M.D. & Nima Alan, M.D.

Station 3: Subcostal, Subdiaphragmatic Lateral Approach with Corpectomy

Elizabeth Lord, M.D., & Corey Walker, M.D.

Station 4: Prone Lateral Tips and Tricks & Standalone Lateral

Luiz Pimenta, M.D., Ph.D. & M. Craig McMains, M.D.

Objectives:

- Demonstrate use of the lateral approach to various regions of the spine
- Explain how to avoid complications with the lateral technique
- Appraise patient selection and indications for the lateral approach

5 p.m.

Adjourn

DISTINGUISHED FACULTY

COURSE CHAIRMEN

Juan S. Uribe, M.D., FAANS
Professor of Neurosurgery
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Surgical Demonstrations Supported by Swedish Neuroscience Institute Fellows
Bryan Anderson, D.O., Donald D. Davis, III, M.D., & Neel Patel, M.D.