



8th Annual MIS Spine Symposium

Saturday, July 23, 2022

Syllabus

Esteemed Faculty

Christoph Hofstetter, M.D., Ph.D. (virtual)

Course Co-Chair

Associate Professor

Fellowship Program Co-Director

Director of Spine Surgery

University of Washington Medical Center

Seattle, Washington

Rod J. Oskouian, Jr., M.D., FAANS

Course Co-Chair

Chief of Spine

Swedish Neuroscience Institute

Seattle, Washington

Paul Park, M.D.

Course Co-Chair

Director, Neurosurgery Spine Program

Professor, Neurological & Orthopaedic Surgery

University of Michigan

Ann Arbor, Michigan

Neel Anand, M.D.

Director of Spine Trauma

Cedars-Sinai Medical Center

Los Angeles, California

Shane Burch, M.D. (virtual)

Professor in Residence, Dept. of Orthopaedic Surgery

University of California, San Francisco

San Francisco, California

Victor Chang, M.D. (virtual)

Neurosurgeon

Henry Ford Health System

West Bloomfield, Michigan

Richard A. Hynes, M.D. (pre-recorded)

President & Spine Surgeon

The B.A.C.K. Center

Melbourne, Florida

Osama Kashlan, M.D., M.P.H.

Clinical Assistant Professor

Neurological & Orthopaedic Surgery

University of Michigan

Ann Arbor, Michigan

Isador Lieberman, M.D., M.B.A. (virtual)

Orthopaedic Spine Surgeon

Texas Back Institute

Plano, Texas

Martin H. Pham, M.D. (virtual)

Associate Professor

University of California San Diego

San Diego, California

Luiz Pimenta, M.D., Ph.D. (virtual)

Neurosurgeon

Director, Instituto de Patologia da Coluna

Sao Paulo, Brazil

Timur Urakov, M.D.

Neurosurgeon

University of Miami

Miami, Florida

AGENDA

7 a.m.	Breakfast, Exhibits & Registration
7:30 a.m.	Welcome & Course Overview <i>Rod Oskouian, M.D., Jr., Paul Park, M.D., & Christoph Hofstetter, M.D., Ph.D.</i>
7:35 a.m.	Cutting Edge of LLIF Technology (<i>pre-recorded</i>) <i>Richard A. Hynes, M.D.</i> Objectives: <ul style="list-style-type: none">• Identify why ergonomics matter• Describe why simultaneous access to spine is key• Explain how to do each procedure in the best position
7:50 a.m.	Q & A
7:55 a.m.	Incorporating Robotics into Simple & Complex MIS Cases (<i>virtual</i>) <i>Martin Pham, M.D.</i> Objectives: <ul style="list-style-type: none">• Identify MIS cases for which robotics can be used• Describe robotic workflows to decrease the cognitive and physical load• Describe the “Robotic Culture”
8:10 a.m.	Q & A
8:15 a.m.	Oblique Lateral Interbody Fusion (OLIF) vs. Lateral <i>Neel Anand, M.D.</i> Objectives: <ul style="list-style-type: none">• Describe reasons why to go oblique• Explain why to try L5-S1• Analyze whether you need an access surgeon
8:30 a.m.	Q & A
8:35 a.m.	Why Go Prone vs. Lateral (<i>virtual</i>) <i>Luiz Pimenta, M.D., Ph.D.</i> Objectives: <ul style="list-style-type: none">• Summarize the indications associated with the prone transpoas approach• Outline the steps of the prone transpoas approach• Describe pearls & limitations for the prone transpoas approach
8:50 a.m.	Q & A
8:55 a.m.	MIS TLIF (<i>virtual</i>) <i>Victor Chang, M.D.</i> Objectives: <ul style="list-style-type: none">• Provide pearls for the MIS TLIF• Outline the limitations of the MIS TLIF
9:10 a.m.	Q & A
9:15 a.m.	<u>Live Demonstration Broadcast from BioSkills Lab No. 1</u> Tubular MIS TLIF <i>Neel Anand, M.D.</i> Objectives: <ul style="list-style-type: none">• Demonstrate an MIS TLIF Tubular• Provide pearls for the MIS TLIF Tubular• Outline the limitations of the MIS TLIF Tubular procedure

- 9:45 a.m. **When to Use Iliac Fixation in the Setting of MIS Posterior Procedures** *(virtual)*
Shane Burch, M.D.
Objectives:
- Compare technique and indications of S2AI vs. Iliac screws
 - Describe when to place pelvic screws
 - Illustrate why you should fuse the SI joint
- 10 a.m. **Q & A**
- 10:05 a.m. **Break & Exhibits** *(not for CME credit)*
- 10:20 a.m. **Live Demonstration Broadcast from BioSkills Lab No. 2**
Prone Transpsoas
Rod J. Oskouian, Jr., M.D.
Objectives:

 - Demonstrate a prone corpectomy
 - Summarize the indications associated with a prone corpectomy
 - Describe pearls & limitations for a prone corpectomy
- 10:50 a.m. **Preferred Approaches for Adult Deformity: MIS, TLIF, Lateral or ALIF**
Neel Anand, M.D.
Objectives:
- Describe complications associated with MIS
 - Outline the lateral contraindications
 - Compare and contrast ALIF vs. TLIF
- 11:05 a.m. **Q & A**
- 11:10 a.m. **Single-Stage Lateral Lumbo-Sacral Arthrodesis with Robotic Assistance**
Timur Urakov, M.D.
Objectives:
- Describe lessons learned from past robotic assisted cases
 - Outline reasons why to use a robot
 - Summarize the reasons to use single-stage
- 11:25 a.m. **Q & A**
- 11:30 a.m. **Robotic MIS Deformity Surgery** *(virtual)*
Isador Lieberman, M.D., M.B.A.
Objectives:
- Outline the risks of robotic MIS deformity surgery
 - Explain the accuracy of using a robot for MIS deformity surgery
 - List potential complications of robotic MIS deformity surgery
- 11:45 a.m. **Q & A**
- 11:50 a.m. **Live Demonstration Broadcast from BioSkills Lab No. 3**
Endoscopic TLIF
Osama Kashlan, M.D.
Objectives:

 - Demonstrate the endoscopic TLIF
 - Provide pearls for the endoscopic TLIF
 - Outline the limitations of the endoscopic TLIF
- 12:20 p.m. **Lunch Break** *(not for CME credit)*

12:35 p.m. **Live Demonstration Broadcast from BioSkills Lab No. 4**
Anterior to Psoas (ATP)
Osama Kashlan, M.D.

Objectives:

- Demonstrate the ATP approach
- Provide pearls for the ATP approach
- Outline the limitations of the ATP approach

1:05 p.m. **Case Presentation: Spine Endoscopy**
Osama Kashlan, M.D.

Objectives:

- Describe the indications associated with endoscopic spine surgery
- Outline the potential complications of endoscopic spine surgery
- List pearls and limitations for the endoscopic LIF

1:20 p.m. **Q & A**

1:25 p.m. **Endoscopic TLIF (virtual)**
Christoph Hofstetter, M.D., Ph.D.

Objectives:

- List indications for endoscopic TLIF
- Outline the steps of the endoscopic TLIF
- Describe pearls and preliminary outcomes following endoscopic TLIF

1:40 p.m. **Q & A**

1:45 p.m. **Live Demonstration Broadcast from BioSkills Lab No. 5**
Robotic-Assisted SI Joint Fusion
Paul Park, M.D.

Objectives:

- Demonstrate MIS SI-joint fusion technique
- Outline the indications and risks of the MIS SI joint fusion technique
- Show the benefits of robotics in SI-joint fusion

2:15 p.m. **Enhanced Diagnostics for MIS (virtual)**
Christoph Hofstetter, M.D., Ph.D.

Objectives:

- Outline advanced imaging modalities for decision-making in MIS
- Identify imaging pearls for planning MIS procedures
- Describe when to get diagnostic blocks

2:30p.m. **Q&A**

2:35 p.m. **Panel Discussion: Too Many MIS LIFs: Which is Best?**
All Faculty
Moderator: Neel Anand, M.D.

Objectives:

- Outline the relative advantages of each type of MIS LIF
- Describe sub-optimal condition/indication for each MIS LIF technique

3:05 p.m. **Adjourn**

Acknowledgements

The Planning Committee gratefully acknowledges support for this conference from the following:

Educational Grant

Alphatec Spine, Inc.
Globus Medical
Joimax
SeaSpine Orthopedics Corp
SpineArt USA
Stryker

Exhibit Support

Alphatec Spine, Inc.
DePuy Synthes
Globus Medical
SpineArt USA
Spineology

In-Kind Support

Alphatec Spine, Inc.
DePuy Synthes
Globus Medical
Joimax
SpineArt USA
Viseon

Course Planning Committee

Christoph Hofstetter, M.D., Ph.D

University of Washington Medical Center
Seattle, Washington

Rod J. Oskouian, Jr., M.D., FAANS

Swedish Neuroscience Institute
Seattle, Washington

Paul Park, M.D.

University of Michigan
Ann Arbor, Michigan

Amir Abdul-Jabbar., M.D.

Swedish Neuroscience Institute
Seattle, Washington

Jonathan Plümer, M.D.

Swedish Neuroscience Institute
Seattle, Washington

Cory Kepler

Seattle Science Foundation
Seattle, Washington

Linda Sahlin, B.A.

Seattle Science Foundation
Seattle, Washington

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Purpose: The information provided addresses several requirements of the Accreditation Council for Continuing Medical Education (ACCME) to help **ensure independence** in CME activities. Everyone in a position to control the content of a CME activity must disclose **ALL** financial relationships with an ineligible company to the CME provider. This information must be disclosed to participants prior to the beginning of the activity. Also, CME providers must mitigate current conflicts of interest prior to the educational activity.

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Each speaker is required to give a balanced, evidenced-based presentation based on published research. No conclusions or recommendations without external validation may be made by a speaker with a conflict of interest.

Disclosure Summary

The following planners and/or presenters, in the past 24 months, have/had financial relationship(s) with ineligible company(ies) whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients: (*S = Speaker; P = Planner*)

Neel Anand, M.D. (S): Consultant: Medtronic, Globus Medical; Stockholder: Globus Medical, Medtronic, Paradigm Spine, Bonovo, Spinal Balance; Royalties: Medtronic, Globus Medical, El Sevier

Shane Burch, M.D. (S): Consultant: Medtronic, NuVasive; Grant or Research Support: Medtronic, NuVasive; Stocks or Stock Options: NuVasive; Royalties: Medtronic

Victor Chang, M.D. (S): Consultant: Globus Medical

Christoph Hofstetter, M.D., Ph.D. (P, S): Consultant: Innovasis, Globus, Joimax, J&J; Grant Support: Raisbeck Foundation, NIH, Department of Defense, Neilsen Foundation, NIH

Richard A. Hynes, M.D. (S): Consultant, Grant or Research Support, Royalties & Education: Medtronic

Osama Kashlan, M.D. (S): Consultant: Joimax

Isador Lieberman, M.D. (S): Consultant: Medtronic, SI Bone, Misonix, Globus Medical; Royalties: Globus Medical, SI-Bone; Research Support: Medtronic, Inc, SI-Bone

Rod J. Oskouian, Jr., M.D. (P,S): Consultant: Atec Spine, Blue Ocean Sine, DePuy Synthes, Globus Medical, SeaSpine, Stryker; Royalties: Stryker, Globus Medical

Paul Park, M.D. (P,S): Consultant: Globus Medical, NuVasvie, Accelus, DePuy Synthes; Grant or Research Support: Cerapedics, ISSG, DePuy Synthes, SI Bone; Royalties: Globus Medical

Martin Pham, M.D. (S): Consultant: Medtronic, Thompson Surgical; Grant or Research Support: Medtronic

Luiz Pimenta, M.D., Ph.D. (S): Consultant, Stocks or Stock Options, Royalties, Intellectual Property Rights: Atec Spine

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