



**9<sup>th</sup> Annual MIS Spine Symposium**  
***New and Emerging Techniques & Technologies in MIS Surgery***  
**Saturday, July 22, 2023**

**AGENDA**

7 a.m.           **Breakfast, Exhibits & Registration**

7:30 a.m.       **Welcome & Course Overview**  
*Paul Park, M.D. & Christoph Hofstetter, M.D., Ph.D.*

**FUSION SURGERY SESSION**

**UNACCREDITED CONTENT**

7:35 a.m.       **The Future VUE of MIS Surgery *(not for CME credit)***  
*Christoph Hofstetter, M.D.*

7:50 a.m.       **Q & A**

7:55 a.m.       **Live Demonstration Broadcast from BioSkills Lab No. 1 *(not for CME credit)***  
**MIS TLIF with Teligen**  
*Christoph Hofstetter, M.D.*

8:15 a.m.       **Q & A**

8:20 a.m.       **Innovations in Maximizing Bone Graft Delivery for Interbody Fusion *(not for CME credit)***  
*Jeff Kleiner, M.D.*

8:35 a.m.       **Q & A**

8:40 a.m.       **Live Demonstration Broadcast from BioSkills Lab No. 2 *(not for CME credit)***  
**KG2 Interbody Fusion System**  
*Jeff Kleiner, M.D.*

9 a.m.           **Q & A**

9:05 a.m.       **PTP - The Evolution of the Lateral Approach *(not for CME credit)***  
*William Taylor, M.D.*

9:20 a.m.       **Q & A**

9:25 a.m.       **Breaks & Exhibits *(not for CME credit)***

## ACCREDITED CONTENT BEGINS

9:55 a.m. **Implant Technology for MIS Spine Surgery** *(virtual)*

*David Okonkwo, M.D., Ph.D.*

**Objectives:**

- Describe advanced material properties for spinal implants
- Identify the impact of implant technology on spine surgery outcomes

10:10 a.m. **Q & A**

10:15 a.m. **Live Demonstration Broadcast from BioSkills Lab No. 3**

**SI Joint Fusion**

*William Cross, 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

10:45 a.m. **Q & A**

## FUTURE OUTPATIENT SURGERY SESSION

10:50 a.m. **Incorporating Robotics into Simple & Complex MIS Cases** *(virtual)*

*Corinna Zygourakis, M.D.*

**Objectives:**

- Identify MIS cases for which robotics can be used
- Describe robotic workflows to decrease the cognitive and physical load
- Describe the "Robotic Culture"

11:05 a.m. **Q & A**

11:10 a.m. **Live Demonstration Broadcast from BioSkills Lab No. 4a**

**Percutaneous Screw Placement for MIS**

*Rakesh Patel, M.D.*

**Objectives:**

- Explain x-ray positioning in percutaneous screw placement
- Review the navigation on Jamshidi needles
- Describe safety precautions

11:25 a.m. **Q & A**

- 11:30 a.m. **Achieving Fusion Across the SI Joint: Methods for True Arthrodesis**  
*William Cross, M.D.*  
**Objectives:**
- Identify pathology around the pelvis that can masquerade as SI Joint pain
  - Describe the native anatomy of the SI Joint and where pain can be coming from

11:45 a.m. **Q & A**

- 11:50 a.m. **Live Demonstration Broadcast from BioSkills Lab No. 4b**  
**Percutaneous Screw Placement for MIS**  
*Anu Amin, M.D.*  
**Objectives:**
- Identify tips, tricks and nuances of placing percutaneous screws
  - Explain precautions to take when placing percutaneous screws

12:05 p.m. **Q & A**

12:10 p.m. **Lunch Break (not for CME credit)**

- 12:30 p.m. **Minimally Invasive Treatment of Metastatic Spine Disease: Recent Innovations**  
*Anu Amin, MD*  
**Objectives:**
- Describe advantages of Minimally Invasive Surgery specific to Spinal Oncology
  - Describe a MIS algorithm for pathological vertebral fractures
  - Explore future applications: robotics, endoscopy

12:45 p.m. **Q & A**

- 12:50 p.m. **Live Demonstration Broadcast from BioSkills Lab No. 5**  
**Prone Transpsoas**  
*Victor Chang, M.D.*  
**Objectives:**
- Demonstrate a prone lateral
  - Summarize the indications associated with a prone lateral
  - Describe pearls & limitations for a prone lateral

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

- 1:25 p.m. **Outpatient MIS Multisegmented Fusions**  
*Hamid Abbasi, M.D.*  
**Objectives:**
- Identify the patient and describe the selection criteria for patients with spine pathology who would be good candidates for ASC

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

1:45 p.m.

**MIS Trauma**

*Rakesh Patel, M.D.*

**Objectives:**

- Discuss the use of MIS surgery for the treatment of compression and burst fractures
- Identify the use of MIS surgery to treat three column spine injuries in patients
- Explain MIS corpectomy

2:00 p.m.

**Q & A**

**MIS TLIF SURGERY SESSION**

2:05 p.m.

**MIS Intradural Tumor Surgery**

*Paul Park, M.D.*

**Objectives:**

- Describe the MIS tubular approach for intradural tumor resection
- Illustrate selection criteria for MIS intradural tumor surgery
- Recognize outcomes for MIS intradural tumor surgery

2:20 p.m.

**Q & A**

2:25 p.m.

**Live Demonstration Broadcast from BioSkills Lab No. 6**

**OLLIF Anatomy & Techniques**

*Hamid Abbasi, M.D., Ph.D.*

**Objectives:**

- Describe Trans-Kambin oblique posterior lateral interbody fusion
- Illustrate tips and tricks of OLLIF procedure
- Explain clinical results of the OLLIF procedure

2:55 p.m.

**Q & A**

3:00 p.m.

**Osteobiologics in MIS**

*Victor Chang, M.D.*

**Objectives:**

- Describe the different classes of osteobiologics available for minimally invasive techniques
- Review the current literature regarding outcomes with osteobiologics and minimally invasive fusion techniques

3:15 p.m.

**Q & A**

3:20 p.m.

**Live Demonstration Broadcast from BioSkills Lab No. 7**

**PTP Procedural Tips & Tricks**

*William Taylor, M.D.*

**Objectives:**

- Evaluate the safety and efficacy of the PTP approach
- Optimize surgical technique and instrumentation for PTP
- Illustrate the correct anatomy

3:50 p.m.

**Q & A**

3:55 p.m.

**Panel Discussion: "What Is Next for MIS?"**

*All Faculty*

*Moderator: Paul Park, M.D.*

**Objectives:**

- Recognize future innovative techniques impacting MIS surgery
- Discuss which MIS techniques will be most popular in the future

4:25 p.m.

**Q & A**

4:30 p.m.

**Course Wrap-up**

*Paul Park, M.D. & Christoph Hofstetter, M.D., Ph.D.*

4:35 p.m.

**Adjourn**

## Esteemed Faculty

**Christoph Hofstetter, M.D., Ph.D.**

**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

**Wellington Hsu, M.D.**

**Course Co-Chair**

Orthopedic Surgeon  
Northwestern Medicine  
Chicago, Illinois

**Paul Park, M.D.**

**Course Co-Chair**

Director, Neurosurgery Spine Program  
Professor, Neurological & Orthopedic Surgery  
University of Michigan  
Ann Arbor, Michigan

**Hamid Abbasi, M.D., Ph.D., FACS, FAANS**

Neurosurgeon  
Inspired Spine  
Burnsville, Minnesota

**Anu Amin, M.D.**

Assistant Professor of Neurological Surgery  
University of Washington  
Seattle, Washington

**Victor Chang, M.D.**

Neurosurgeon  
Henry Ford Health  
West Bloomfield Township, Michigan

**William Cross III, M.D.**

Orthopedic Surgeon  
Mayo Clinic  
Rochester, Minnesota

**David Okonkwo, M.D., Ph.D. (virtual)**

Professor of Neurological Surgery, Director of  
Neurotrauma & Director of Brain & Trauma Research  
University of Pittsburgh  
Pittsburgh, Pennsylvania

**Rakesh Patel, M.D.**

Associate Professor  
Orthopaedic Surgery Clinic | Taubman Center  
University of Michigan Health  
Ann Arbor, Michigan

**William Taylor, M.D.**

Professor of Neurosurgery  
University California San Diego  
La Jolla, California

**Corinna Zygorakis, M.D. (virtual)**

Neurosurgeon  
Stanford Medicine Health Care  
Palo Alto, California

