

10th Annual MIS Spine Symposium: Contemporary Techniques and Emerging Technologies Saturday, June 29, 2024

AGENDA

7 a.m. Breakfast, Exhibits & Registration

7:30 a.m. Welcome & Course Overview

Paul Park, M.D., Rod Oskouian, Jr., M.D., & Christoph Hofstetter, M.D., Ph.D.

Session 1: Unaccredited Content

7:35 a.m. The Future VUE of MIS Surgery

Christoph Hofstetter, M.D.

7:50 a.m. **Q & A**

7:55 a.m. Live Demonstration Broadcast from BioSkills Lab No. 1

MIS TLIF with Teligen Christoph Hofstetter, M.D.

8:15 a.m. **Q & A**

8:20 a.m. **New Drill Technology**

Victor Chang, M.D.

8:35 a.m. **Q & A**

8:40 a.m. Live Demonstration Broadcast from BioSkills Lab No. 2

New Drill Technology Victor Chang, M.D.

9 a.m. **Q & A**

9:05 a.m. **Breaks & Exhibits** (not for CME credit)

ACCREDITED CONTENT BEGINS

Session 2: Al & Robotics in MIS Surgery

9:35 a.m. Radiation Reduction in MIS Spine Surgery

Muhammad Abd-El-Barr, M.D., Ph.D.

Objectives:

- Identify the dangers of ionizing radiation as it relates to MIS spine surgery
- Describe how fluoroscopic instrument-tracking navigation can decrease radiation in MIS spine surgery
- Outline different applications of fluoroscopic instrument-tracking in MIS spine percutaneous pedicle screw placement, entrance into Kambin's triangle and lateral interbody fusion

9:50 a.m. **Q & A**

9:55 a.m. Robotics Facilitates 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"

10:10 a.m. Q & A

10:15 a.m. Navigation Trusted and Proven for MIS Cases

Roger Härtl, M.D.

Objectives:

Identify MIS cases for which navigation can be used

Describe navigation workflow

• Describe common navigation techniques

10:30 a.m. Q & A

10:35 a.m. Break & Exhibits (not for CME credit)

10:50 a.m. Live Demonstration Broadcast from BioSkills Lab No. 3

Percutaneous Screw Placement for MIS Using Fluoroscopic-Assisted Instrument Tracking

Muhammad Abd-El-Barr, M.D., Ph.D.

Objectives:

Explain x-ray positioning in percutaneous screw placement

Review the navigation on Jamshidi needles

Describe safety precautions

11:20 a.m. Q & A

Session 3: Emerging Trends in MIS Fusion

11:25 a.m. Retropleural/Retrodiaphragmatic Approaches to the Thoracolumbar Junction

Paul Holman, M.D.

Objectives:

• Identify pathology amenable for this approach

Describe surgical maneuvers to facilitate an efficient approach

11:40 a.m. Q & A

11:45 a.m. Lateral Transpsoas Interbody Fusion: A Workhorse for Multilevel MIS Constructs

Nima Alan, M.D.

Objectives:

Identify pathology amenable for multi-level laterals

Describe surgical maneuvers to facilitate an efficient approach

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

12:05 p.m. Oblique Lateral interbody Fusion – Can Do it All?

Neel Anand, M.D.

Objectives:

Identify pathology amenable for oblique laterals

Describe surgical maneuvers to facilitate an efficient approach

12:20 p.m. **Q & A**

12:25 p.m. Break & Pick Up Lunch (not for CME credit)

12:40 p.m. <u>Live Demonstration Broadcast from BioSkills Lab No. 4</u> (working lunch)

Tissue-Sparing Posterior Cervical Fusion

Bruce McCormck, M.D.

Objectives:

• TBD

1:10 p.m. **Q & A**

1:15 p.m. Revival of ALIF – the MIS is in the Approach/Stand Alone

Paul Holman, M.D.

Objectives:

Identify pathology amenable for stand alone ALIF

· Describe surgical maneuvers to facilitate and efficient approach

1:30 p.m. **Q & A**

1:35 p.m. The Gap Between MIS Spine & Providing Open Spine Surgery to Achieve Desired

Outcome In Developing Country (working lunch)

Soren Otieno, M.D.

Objectives:

Describe the gap between MIS and open spine procedures in developing countries

Describe how to improve outcomes in developing countries

1:50 p.m. **Q & A**

1:55 p.m. **Break & Exhibits** (not for CME credit)

2:10 p.m. <u>Live Demonstration Broadcast from BioSkills Lab No.5</u>

Retropleural/Retrodiaphragmatic Approach

Paul Holman, M.D.

Objectives:

Demonstrate the retropleural/retrodiaphragmatic approach

Outline the surgical maneuvers to facilitate an efficient approach

2:40 p.m. **Q & A**

2:45 p.m. **PTP – The Evolution of the Lateral Approach**

William Taylor, M.D.

Objectives:

Identify complications related to this approach

Outline the indications for this approach

Recognize the differences between lateral and prone position approaches

3 p.m. Q & A

3:05 p.m. Live Demonstration Broadcast from BioSkills Lab No. 6

Navigated Lateral ALIF

Neel Anand, M.D.

Objectives:

Demonstrate a navigated lateral ALIF

Outline the surgical maneuvers to facilitate an efficient approach

3:35 p.m. **Q & A**

Session 4: MIS Osteo and Neuro-Regenerative Technologies

3:40 p.m. **Disc Regeneration Techniques**

Roger Härtl, M.D. Objectives:

• Describe the different technologies for annular closure

• Review the current literature regarding outcomes

3:55 p.m. **Q & A**

4 p.m. Break & Change Into Scrubs (not for CME credit)

4:10 p.m. <u>Live Demonstration Broadcast from BioSkills Lab No. 7</u>

Robotic MIS Screw Placement

Paul Park, M.D.

Objectives:

Demonstrate a prone lateral

Summarize the indications associated with a prone lateral

Describe pearls & limitations for a prone lateral

4:40 p.m. **Q & A**

4:45 p.m. Break & Change Into Scrubs (not for CME credit)

4:50 p.m. Live Demonstration Broadcast from BioSkills Lab No. 8

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

5:20 p.m. **Q & A**

Session 5: Hands-on BioSkills Lab

5:25 p.m. Hands-On BioSkills Lab Rotations (20 min. rotations)

Station 1: Robotic MIS Screw Placement *Paul Park, M.D. & William Taylor, M.D.*

Station 2: Retropleural/Retrodiaphragmatic Approach

Paul Holman, M.D.

Station 3: Navigated Lateral ALIF Neel Anand, M.D. & Joseph Schwab, M.D.

Station 4: Percutaneous Screw Placement for MIS

Muhammad Abd-El-Barr, M.D., Ph.D. & Victor Chang, M.D.

6:45 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

Paul Park, M.D. Course Co-Chair Neurosurgeon Semmes Murphy Memphis, Tennessee

Muhammad Abd-El-Barr, M.D., Ph.D., FAANS

Associate Professor, Spine Fellowship Director
Department of Neurosurgery
Department of Orthopedic Surgery
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Durham, North Carolina

Neel Anand, M.D.

Professor of Orthopedic Surgery
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Los Angeles, California

Roger Härtl, M.D.

Hansen-MacDonald Professor of Neurological Surgery
Director of Spinal Surgery, Weill Cornell Medicine
Neurosurgical Director, Och Spine at New YorkPresbyterian / Weill Cornell Medical Center
New York, New York

Bruce McCormack, M.D.

Neurosurgeon Sutter Health San Francisco, California

William Taylor, M.D.

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Victor W. Chang, MD

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Paul Holman, M.D.

Endowed Chair of Spine and Peripheral Nerve Surgery
Associate Professor of Neurosurgery
Houston Methodist Department of Neurosurgery
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Soren Otieno, M.D.

Orthopaedic Spine Surgeon National Spine Hospital Nairobi, Kenya

Corinna Zygourakis, M.D. (virtual)

Assistant Professor of Neurosurgery Stanford Medicine Health Care Palo Alto, California