



## 2<sup>nd</sup> Annual Endoscopic Spine Research Group Symposium: Technological Advancements for Complex Spine Pathology Friday, July 26 & Saturday, July 27, 2024

*at the Seattle Science Foundation*

### AGENDA

#### FRIDAY, JULY 26, 2024

##### UNACCREDITED CONTENT

- 4 p.m.           **Welcome, Course Overview & Objectives**  
*Saqib Hasan, M.D, John Ogunlade, D.O. & Christoph Hofstetter, M.D., Ph.D.*
- 4:10 p.m.       **Live Demonstration Broadcast** *(not for CME credit)*  
**Spineology Double Chamber Lordotic Cage**  
Christoph Hofstetter, M.D., Ph.D.
- 4:40 p.m.       **Break**

##### ACCREDITED CONTENT BEGINS

- 5:10 p.m.       **The World-Wide State of Endoscopic Spine Surgery**  
*Saqib Hasan, M.D.*  
**Objective:**
- Describe the global emergence of endoscopic spine surgery and region-specific trends across a variety of different healthcare environments
- 5:30 p.m.       **ESRG A Surgeon-Led Prospective Quality Improvement Initiative for Endoscopic Spine Surgery**  
*Christoph Hofstetter, M.D., Ph.D.*  
**Objective:**
- Describe an important initiative in elucidating the role of endoscopic spine surgery through a research-based initiative

#### ESRG EXPERTS: PROSPECTIVE DATA REVIEW AND STRATEGIES FOR OPTIMAL OUTCOMES

- 5:50 p.m.       **Interlaminar Endoscopic Lumbar Discectomy**  
*John Ogunlade, D.O.*  
**Objectives:**
- Outline indications, patient selection, and technical pearls for IELD
  - Present ESRG outcome data
  - What are pitfalls and how to achieve excellence
- 6:10 p.m.       **Transforaminal Endoscopic Lumbar Discectomy**  
*Meng Huang, M.D.*  
**Objectives:**
- Outline indications, patient selection, and technical pearls for TELD
  - Explain some of the pitfalls
  - What are pitfalls and how to achieve excellence

- 6:30 p.m.      **Unilateral Laminotomy for Bilateral Decompression**  
*Christoph Hofstetter, M.D., Ph.D.*  
**Objectives:**
- Outline indications, patient selection, and technical pearls for ULBD
  - Explain some of the pitfalls
  - What are pitfalls and how to achieve excellence
- 6:50 p.m.      **Posterior Endoscopic Cervical Foraminotomy**  
*Peter Derman, M.D.*  
**Objectives:**
- Outline indications, patient selection, and technical pearls for IELD
  - Explain some of the pitfalls of this
  - What are pitfalls and how to achieve excellence
- 7:10 p.m.      **Panelists Discussion: Key Takeaways to Allow for Better Surgical Outcomes**  
*All faculty*  
**Objective:**
- Outline indications, patient selection, and technical pearls
- 7:30 p.m.      **Adjourn**

## SATURDAY, JULY 27, 202

- 7 a.m.            **Breakfast, Registration, Exhibits & Change into Scrubs**
- 7:25 a.m.      **Welcome & Introductions**  
*Saqib Hasan, M.D., John Ogunlade, D.O. & Christoph Hofstetter, M.D., Ph.D.*
- 7:30 a.m.      **Keynote Address**  
**A History of Endoscopic Spine Surgery in the United States**  
*Chris Yeung, M.D. with special guest Anthony Yeung, M.D.*  
**Objectives:**
- Outline the role of the US in the evolution of endoscopic spine surgery
  - Summarize the future direction of endoscopic spine surgery
- 8 a.m.            **Q & A**

## ENABLING TECHNOLOGIES FOR COMPLEX ENDOSCOPIC SPINE SURGERY

### **Live Demonstrations & Lectures from the BioSkills Lab: Tools, Drills, Lasers & Navigation**

- 8:10 a.m.      **Targeting In Endoscopic Spine Surgery**  
**Speaker:** *John Ogunlade, D.O.*  
**Demonstrations:**  
 Demo 1: Transforaminal - *Meng Huang, M.D.*  
 Demo 2: Interlaminar - *Saqib Hasan, M.D.*  
 Demo 3: Biportal - *Jon J.W. Yoon, M.D.*  
**Objectives:**
- Describe the process to achieve an optimal trajectory
  - Demonstrate setup and utilization of different technologies
- 8:55 a.m.      **Pause**

- 9 a.m.           **Soft Tissue Handling**  
**Speaker:** *Nathaniel Brooks, M.D.*  
**Demonstrations:**  
Demo 1: *Mark Mahan, M.D.*  
Demo 2: *Sanjay Konakondla, M.D.*  
Demo 3: *Jon J.W. Yoon, M.D.*  
**Objectives:**
- Demonstrate how to resect tissue
  - Outline how to control bleeding
  - Describe how to use RF, Kerrison, dissectors
- 9:45 a.m.       **Break & Exhibits** (*not for CME credit*)
- 10 a.m.           **Bony Decompression – The Devil is in the Detail**  
**Speaker:** *Patrick Y. Kim, M.D.*  
**Demonstrations:**  
Demo 1: *Ray Gardocki, M.D.*  
Demo 2: *Jian Shen, M.D., Ph.D.*  
Demo 3: *Jon J.W. Yoon, M.D.*  
**Objectives:**
- Demonstrate proper use of drills for this procedure
  - Illustrate the utility of Kerrison rongeurs for this procedure
  - Demonstrate proper use of osteotomes for this procedure
- 10:45 a.m.       **Pause**
- 10:50 a.m.       **Navigation & Robotics – Friend or Foe?**  
**Speaker:** *Osama Kashlan, M.D.*  
**Demonstrations:**  
Demo 1: *Imad Khan, M.D.*  
Demo 2: *Muhammad Abd-El-Barr, M.D., Ph.D.*  
Demo 3: *Saqib Hasan, M.D.*  
**Objectives:**
- Compare and contrast various technologies against robotics
  - Demonstrate setup and utilization of different technologies
- 11:35 a.m.       **Lunch Break, Change into Scrubs, & Exhibits** (*not for CME credit*)

## **PRACTICAL HANDS-ON SESSIONS NO. 1**

- 12 p.m.           **Hands-on BioSkills Lab** (*max 5 people per station*)  
*All faculty*  
**Stations:**
1. Interlaminar endoscopic lumbar discectomy (IELD) + Posterior Endoscopic cervical foraminotomy (PECF)
  2. Interlaminar endoscopic lumbar discectomy (IELD) + Transforaminal endoscopic lumbar discectomy (TELD)
  3. Transforaminal endoscopic lumbar discectomy (TELD) + Transforaminal endoscopic thoracic discectomy (TETD)
  4. Transforaminal endoscopic lumbar discectomy (TELD) + Transforaminal endoscopic thoracic discectomy (TETD)
  5. Interlaminar endoscopic lumbar discectomy (IELD) + Posterior Endoscopic cervical foraminotomy (PECF)
  6. Interlaminar endoscopic lumbar discectomy (IELD) + Transforaminal endoscopic lumbar discectomy (TELD)
- Objectives:**
- Outline endoscopic targeting for lumbar and cervical

- Define the basics of handling endoscopic equipment
- Practice soft tissue handling and bone removal

2 p.m. **Fluid Management in Endoscopic Spine Surgery** (*virtual*)  
*Vincent Hagel, M.D.*

**Objective:**

- Describe tips & tricks for fluid management

2:20 p.m. **Anesthesia Selection for Lumbar Discectomy: Spinal vs. Conscious Sedation**  
*Muhammad Abd-El-Barr, M.D., Ph.D. vs. Paul Houle, M.D.*

**Objectives:**

- Outline the pros & cons of anesthesia selection
- Describe tips & tricks for wide-awake discectomy

2:40 p.m. **Interfascial Plane Blocks in Lumbar Endoscopic Spine Surgery**  
*Raymond Gardocki, M.D.*

**Objectives:**

- Describe the different types of field blocks
- Outline tips & tricks to increase field block efficacy

3 p.m. **Endoscopic Fusion: Overview & Rationale**  
*Michael Y. Wang, M.D.*

**Objectives:**

- Outline the rationale and effectiveness of endoscopic fusion
- Recognize the nuances of patient and pathology selection

3:20 p.m. **Leveraging Mobile Technologies to Optimize Perioperative Experience**  
*Sanjay Konakondla, M.D.*

**Objective:**

- Outline technological options for perioperative patient care
- Evaluate mobile technology to engage patients

3:40 p.m. **Break, Exhibits & Transition to BioSkills Lab** (*not for CME credit*)

**PRACTICAL HANDS-ON SESSIONS NO. 2**

3:50 p.m. **Hands-on BioSkills Lab** (*max 5 people per station*)

*All faculty*

Stations 1- 6: Endoscopic TLIF/PLIF

**Objectives:**

- Perform an endoscopic TLIF & PLIF
- Practice discectomies

5:50 p.m. **Course Wrap-up**  
*Saqib Hasan, M.D., John Ogunlade, D.O., & Christoph Hofstetter, M.D., Ph.D.*

6 p.m. **Adjourn**

## ESTEEMED FACULTY

**Saqib Hasan, M.D.**  
**Course Co-Chairman**  
Orthopedic Spine Surgeon  
Golden State Orthopedics & Spine  
Oakland, California

**Christoph Hofstetter, M.D., Ph.D.**  
**Course Co-Chairman**  
Associate Professor of Neurological Surgery  
University of Washington  
Seattle, Washington

**John Ogunlade, D.O.**  
**Course Co-Chairman**  
Assistant Professor of Neurosurgical Surgery  
Washington University  
St. Louis, Missouri

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**Muhammad Abd-El-Barr, M.D., Ph.D., FAANS**  
Associate Professor, Spine Fellowship Director  
Department of Neurosurgery  
Department of Orthopedic Surgery  
Duke University Medical Center  
Durham, North Carolina

**Nathanial Brooks, M.D.**  
Associate Professor of Neurological Surgery  
University of Wisconsin  
Madison, Wisconsin

**Peter Derman, M.D.**  
Orthopedic Spine Surgeon  
Texas Back Institute  
Dallas, Texas

**Raymond Gardocki, M.D., FAAOS**  
Associate Professor  
Division of Orthopedic Spine  
Vanderbilt University Medical Center  
Nashville, Tennessee

**Vincent Hagel, M.D.**  
Senior Physician at the University Spine Center  
Zurich, Switzerland  
Head of Department at the Spine Center  
Lindau, Germany

**Paul Houle, M.D.**  
Neurosurgeon  
Cape Code Healthcare Neurosurgery  
Hyannis, Massachusetts

**Meng Huang, M.D.**  
Assistant Professor of Neurosurgery  
Houston Methodist  
Houston, Texas

**Patrick Y. Kim, M.D.**  
Neurosurgeon  
University of South Florida  
Tampa, Florida

**Imad Khan, M.D.**  
Associate Professor  
University of Washington  
Seattle, Washington

**Osama Kashlan, M.D., M.P.H.**  
Associate Professor of Neurological Surgery  
Weill Cornell Medicine  
Brooklyn, New York

**Sanjay Konakondla, M.D.**  
Neurosurgeon  
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**Mark A. Mahan, M.D., FAANS**  
Associate Professor of Neurosurgery  
Spine & Chief, Division of Peripheral Nerve and Pain Surgery  
University of Utah Health  
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**Jian Shen, M.D., Ph.D.**  
Endoscopic Spine Surgeon  
Shen Spine  
New York, New York

**Michael Y. Wang, M.D., FACS**  
Professor of Neurosurgery and Rehab Medicine  
University of Miami Miller School of Medicine  
Miami, Florida

**Anthony Yeung, M.D. (retired)**  
Orthopedic Spine Surgeon  
Desert Institute for Spine  
Phoenix, Arizona

**Christopher Yeung, M.D.**  
Orthopedic Spine Surgeon  
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