



1st Annual Endoscopic Spine Surgery Symposium

Friday, July 28 & Saturday, July 29, 2023

at the Seattle Science Foundation

AGENDA

FRIDAY, JULY 28, 2023

- 3 p.m. **Endoscopic Spine Research Group Meeting**
Closed meeting for members only. Not for CME credit.
- 3:45 p.m. **Registration, Pizza & Change Into Scrubs**
- 4 p.m. **Welcome & Overview**
Saqib Hasan M.D. & Christoph Hofstetter M.D., Ph.D.
- 4:10 p.m. **Studying the Power of 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
- 4:30 p.m. **Live Demonstration from BioSkills Lab No. 1**
Side-by-Side Interlaminar & Transforaminal Discectomy
Jon J. W. Yoon, M.D. & Lynn McGrath, Jr., M.D.
Objectives:

 - Explain radiographic targeting for interlaminar & transforaminal discectomy
 - Recognize targeting-palpitation-visualization sequence for both procedures
 - Identify the endoscopic landmarks for both procedures
- 5:15 p.m. **Break, Exhibits & Change Into Scrubs**
- 5:30 p.m. **Benefit Zone of Endoscopic Spine Surgery**
Saqib Hasan, M.D.
Objectives:
- Describe beginner, intermediate and advanced cases in endoscopic spine surgery
 - Outline the benefits of incorporating the above techniques
- 5:45 p.m. **The World-Wide State of Endoscopic Spine Surgery *(virtual)***
Junseok Bae, M.D.
Objectives:
- Describe the global emergence of endoscopic spine surgery and region specific trends across a variety of different healthcare environments

PRACTICAL HANDS-ON TRAINING NO. 1

6 p.m.

Hands-on BioSkills Lab

All faculty

Stations:

1. Transforaminal endoscopic lumbar discectomy (TELF)
2. Interlaminar endoscopic lumbar discectomy (IELD)
3. Interlaminar lumbar laminectomy
4. Pick your procedure
5. Posterior endoscopic cervical foraminotomy
6. Interlaminar lumbar laminectomy

Objectives:

- Perform the above procedures
- Outline endoscopic targeting for lumbar and cervical
- Understand the basics of handling endoscopic equipment

8 p.m.

Adjourn

SATURDAY, JULY 29, 2023

7 a.m.

Breakfast & Change into Scrubs

7:25 a.m.

Welcome & Introductions

Saqib Hasan, M.D., & Christoph Hofstetter, M.D., Ph.D.

7:30 a.m.

Keynote Address *(virtual)*

Endoscopic Spine Surgery: How It Started & Where We Are

Prof. J.N. Alistair Gibson

Objectives:

- Outline the evolution of endoscopic spine surgery
- Describe current use-cases for endoscopic spine surgery
- Summarize the future direction of endoscopic spine surgery

LUMBAR ENDOSCOPIC SPINE SURGERY SESSION

7:50 a.m.

Interlaminar Endoscopic Lumbar Discectomy

Nathan Brooks, M.D.

Objectives:

- Describe the indications for interlaminar endoscopic lumbar discectomy
- Outline technical pearls for this procedure
- Explain some of the pitfalls of this procedure

8:10 a.m.

Transforaminal Endoscopic Lumbar Discectomy

John Ogunlade, D.O.

Objectives:

- Describe the indications for transforaminal endoscopic lumbar discectomy
- Outline technical pearls for this procedure
- Explain some of the pitfalls of this procedure

8:30 a.m. **Lumbar Discectomies: How to Recognize Intra-Operative Challenges & Complications** *(virtual)*
Christoph Siepe, M.D.

Objectives:

- Interpret a pre-operative evaluation of imaging to stratify approach-related risk
- Summarize strategies for complication avoidance
- Outline how to address intra-operative complications

8:50 a.m. **The Nuances of Discectomy Approach Selection**
Meng Huang, M.D.

Objectives:

- Outline clinical decision-making for discectomy
- Illustrate case examples

9:10 a.m. **Break, Exhibits & Change into Scrubs** *(not for CME credit)*

9:25 a.m. **Anesthesia Selection for Lumbar Discectomy: Wide Awake vs. General**
Albert E. Telfeian, M.D., Ph.D.

Objectives:

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

9:45 a.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

10:05 a.m. **Live Demonstration from BioSkills Lab No. 2**
Side-by-Side Endoscopic TLIF vs. Endoscopic PLIF
Raymond Gardocki M.D., & Jian Shen, M.D., Ph.D.

Objectives:

- Explain radiographic targeting for interlaminar & transforaminal interbody fusions
- Recognize targeting-palpitation-visualization sequence for both procedures
- Identify the endoscopic landmarks for both procedures

11:05 a.m. **Lunch, Exhibits & Change into Scrubs** *(not for CME credit)*

PRACTICAL HANDS-ON SESSIONS NO. 2

11:25 a.m. **Hands-on BioSkills Lab** *(max 5 people per station)*
All faculty

Stations:

1. Pick your procedure
2. Thoracic discectomy
3. Pick your procedure
4. Endoscopic transforaminal lumbar interbody fusion (TLIF)
5. Endoscopic posterior lumbar interbody fusion (PLIF)
6. Pick your procedure

Objectives:

- Perform the above procedures
- Understand endoscopic targeting for transforaminal lumbar interbody fusion

CERVICAL / THORACIC ENDOSCOPIC SPINE SURGERY SESSION

1:25 p.m. **Posterior Cervical Foraminotomy / Discectomy (virtual)**

Peter Derman, M.D.

Objectives:

- Describe the indications for posterior cervical foraminotomy / discectomy
- Outline technical pearls for this procedure
- Explain some of the pitfalls of this procedure

1:45 p.m.

Live Demonstration from BioSkills Lab No. 3
Posterior Cervical Foraminotomy / Discectomy

Osama Kashlan, M.D.

Objectives:

- Explain radiographic targeting for posterior cervical foraminotomy / discectomy
- Recognize targeting-palpitation-visualization sequence for both procedures
- Identify the endoscopic landmarks and endpoints

2:15 p.m.

Thoracic Discectomies

Sanjay Konakondla, M.D.

Objective:

- Outline technical pearls for thoracic discectomies
- Explain the pitfalls of thoracic discectomies

2:30 p.m.

Break & Exhibits (not for CME credit)

2:45 p.m.

Live Demonstration from BioSkills Lab No. 4
Thoracic Discectomy / Fusion

Sanjay Konakondla, M.D.

Objectives:

- Explain radiographic targeting for thoracic discectomy
- Recognize targeting-palpitation-visualization sequence for both procedures
- Identify the endoscopic landmarks and endpoints

ENDOSCOPIC FUSION SESSION

3:15 p.m.

Awake Endoscopic Spine Surgery with Fluoroscope-Guided Navigation

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

Objectives:

- Outline the indications for awake endoscopic spine surgery
- Describe technical pearls for awake endoscopic spine surgery with fluoroscope-guided navigation
- Identify the pitfalls of awake endoscopic spine surgery with fluoroscope-guided navigation

3:30 p.m.

Endoscopic Fusion: Transforaminal Approach

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

Objectives:

- Outline the indications for endoscopic fusion: transforaminal approach
- Describe technical pearls for endoscopic fusion: transforaminal approach
- Identify the pitfalls of endoscopic fusion: transforaminal approach

3:45 p.m.

Endoscopic Fusion: Overview & Rationale (virtual)

Michael Y. Wang, M.D.

Objectives:

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

- 4 p.m. **Endoscopic Fusion: Technical Adjuncts**
Raymond Gardocki, M.D.
Objectives:
- Outline the indications for endoscopic fusion: technical adjuncts
 - Describe technical pearls for endoscopic fusion: technical adjuncts
 - Identify the pitfalls of endoscopic fusion: technical adjuncts
- 4:15 p.m. **Endoscopic Fusion: Posterolateral Approach**
Mark Mahan, M.D.
Objectives:
- Outline the indications for endoscopic fusion: posterolateral approach
 - Describe technical pearls for endoscopic fusion: posterolateral approach
 - Identify the pitfalls of endoscopic fusion: posterolateral approach
- 4:30 p.m. **Endoscopic Fusion: How to Perform the Optimal Discectomy**
Christopher A. Yeung, M.D.
Objectives:
- Outline the indications for how to perform the optimal discectomy using endoscopic fusion
 - Describe technical pearls for how to perform the optimal discectomy using endoscopic fusion
 - Identify the pitfalls of performing the optimal discectomy using endoscopic fusion
- 4:45 p.m. **Technology Update for Planning an Endoscopic Fusion: Interbody Cage Material Selection, Use of Navigation, Robotics**
Saqib Hasan, M.D.
Objectives:
- Outline current materials used with endoscopic fusion
 - Describe the how and why of incorporating navigation and robotics
- 5 p.m. **Break, Exhibits & Transition to BioSkills Lab** (*not for CME credit*)

PRACTICAL HANDS-ON SESSIONS NO. 3

- 5:15 p.m. **Hands-on BioSkills Lab**
All faculty
 Stations:
1. Pick your procedure
 2. Pick your procedure
 3. Unilateral laminectomy for bilateral decompression
 4. Endoscopic TLIF/treatment of central discs
 5. Endoscopic PLIF/revision discectomies
 6. Cervical procedures
- Objectives:**
- Perform the above procedures
 - Understand endoscopic targeting for lumbar, cervical and thoracic discectomy (for decompression vs. fusion)
- 6:15 p.m. **Course Wrap-up**
Saqib Hasan, M.D., & Christoph Hofstetter, M.D., Ph.D.
- 6:30 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

Muhammad M. Abd-El-Barr, M.D., Ph.D.
Associate Professor of Neurosurgery
Associate Professor of Orthopaedics
Duke University
Durham, North Carolina

Junseok Bae, M.D. (virtual)
Neurosurgeon
President, Wooidul Hospital Gangnam
Seoul, South Korea

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

Peter Derman, M.D. (virtual)
Orthopedic Spine Surgeon
Texas Back Institute
Dallas, Texas

Alfonso García, M.D.
Orthopaedic Spine Surgeon
Hospital Ángeles Tijuana
Tijuana, Mexico

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

J. N. Alistair Gibson (virtual)
Spinal Surgeon & Consultant
The Royal College of Surgeons of Edinburgh
Edinburgh, Scotland

Meng Huang, M.D.
Assistant Professor of Neurosurgery,
Academic Institute; Assistant Clinical Member, Research
Institute, Houston Methodist
Weill Cornell Medical College
Houston, Texas

Osama Kashlan, M.D., M.P.H.
Clinical Assistant Professor, Neurological
Surgery & Orthopedic Surgery
University of Michigan Medicine
Ann Arbor, Michigan

Sanjay Konakondla, M.D.
Neurosurgeon
Geisinger Neuroscience Institute
Danville, Pennsylvania

Mark Mahan, M.D., FAANS
Neurosurgeon
University of Utah Health
Salt Lake City, Utah

Lynn McGrath, Jr., M.D.
Assistant Professor of Neurological Surgery
Weill Cornell Medicine
New York, New York

John Ogunlade, D.O.
Assistant Professor of Neurosurgical Surgery
Washington University
St. Louis, Missouri

Prof. Dr. Christoph Siepe *(virtual)*
Professor, Spinal Endoscopy
Schoen Clinic
Munich, Germany

Michael Y. Wang, M.D., FACS *(virtual)*
Professor of Neurological Surgery
Chief of Service, Medical Director,
Minimally Invasive Spine
University of Miami
Miami, Florida

Jian Shen, M.D., Ph.D.
Endoscopic Spine Surgeon
Shen Spine
New York, New York

Albert E. Telfeian, M.D., Ph.D.
Director, Center for Minimally Invasive
Endoscopic Spinal Surgery
Rhode Island Hospital
Providence, Rhode Island

Christopher Yeung, M.D.
Orthopedic Spine Surgeon
Desert Institute for Spine
Phoenix, Arizona

Jon J.W. Yoon, M.D., MSc, FAANS
Director, Minimally Invasive Spine Surgery
Assistant Professor of Clinical Neurosurgery
Penn Medicine
Philadelphia, Pennsylvania