

Introduction to Spinal Endoscopy Course

26 June 2025 | IRCAD, Strasbourg, France

General Information

EUROSPINE, the Spine Society of Europe
c/o Pfister Treuhand AG
Bankstrasse 4, 8610 Uster-Zurich, Switzerland
W: www.eurospine.org

Chair of Education Committee

Paulo Pereira
E: education@eurospine.org

Director of Education and Research

Julie-Lyn Noël
E: noel@eurospine.org

Education and Research Manager

Oriana Pivetta
E: pivetta@eurospine.org

Course Chairs

Bertrand Debono, France
Frank Hassel, Germany

Course Faculty

Adad Baranto, Sweden
Joseph Cristini, France
Thibault Remacle, Belgium
Ralf Wagner, Germany

Programme Goal

Starting with Endoscopic Spine Surgery

Endoscopic spine surgery is becoming the ultimate tissue preserving technique to treat a multitude of spine pathologies with accumulating evidence in support of its efficacy and reduced complication rate. This has generated huge interest among surgeons worldwide to learn and adopt this technology. This course will help you to make the first steps in spinal endoscopy or to widen the spectrum of the procedures you offer to your patients, allowing you to achieve highly rewarding and excellent surgical outcomes in disc and stenosis surgery in the lumbar spine.

Quick Facts

LIVE SESSION DATE & TIME	26 June 2025 (07:50-18:15 CEST)
VENUE	IRCAD, 1 Pl. de l'Hôpital, 67000 Strasbourg, France
MAX. ATTENDEES	24 delegates maximum
REGISTRATION FEES	EUROSPINE Member: €800 Non-member: €1,000
CME CREDITS	Accreditation by the European Board for Accreditation of Continuing Education for Health Professionals (EBAC) is pending
LANGUAGE	English
DRESS CODE	Smart casual
E-LEARNING	A computer (Mac/PC) or tablet (Android/Mac) and stable internet connection are required to access the e-learning content. The e-learning component is self-paced and will be available from 15 May 2024 on the EUROSPINE Learning Management System (LMS). The e-learning must be completed by the start of the live session.
COURSE COMPLETION	The course is only deemed as complete when participants have met ALL of the following conditions: <ul style="list-style-type: none"> - Passed e-learning/pre-learning component AND - Attended the live session AND - Submitted course evaluations for the e-learning and the live session component
TARGET AUDIENCE	Senior trainees and trained surgeons, who are planning a career in spine surgery.
IMPORTANT (!)	<ul style="list-style-type: none"> • Completion of e-learning component is mandatory • Attendance of the live session is mandatory

E-learning Programme

(available from May 2025)

Time/Duration	Topic
0:15	Basic concepts in spinal endoscopy
Interlaminar	
00:20	Interlaminar endoscopic lumbar discectomy (IELD)
00:20	Lumbar endoscopic unilateral laminotomy for bilateral decompression (LE-ULBD, “over the top” decompression)
00:20	Knowledge check questions
Transforaminal	
00:20	Transforaminal endoscopic lumbar discectomy (TELD)
00:20	Transforaminal endoscopic lumbar foraminotomy (TELF)
Biportal	
00:20	Unilateral biportal endoscopy (UBE)
00:20	Knowledge check questions

Live Session Programme

26 June 2025 08:00 – 18:15 CEST	
Skills Lab	
08:00 – 09:30	Rotation 1
09:30 – 09:45	Coffee Break
09:45 – 11:15	Rotation 2
11:15 – 11:30	Coffee Break
11:30 – 13:00	Rotation 3
13:00 – 14:00	Lunch
Lectures and Cases	
14:00 – 15:45	Cases 1
15:45 – 16:00	Coffee Break
16:00 – 17:45	Cases 2
17:45 – 18:15	Complications prevention and management in endoscopic spine surgery
18:15	END OF COURSE

Skills lab details:

- Number of participants: 24
- Rotations
 - 3 rotations
 - 6 stations in total (2 each technique)
 - 90 minutes per rotation
- Techniques
 1. Interlaminar endoscopic techniques
 2. Transforaminal endoscopic techniques
 3. Unilateral biportal endoscopic technique
- Lab groups: 4 participants in each group

Learning Outcomes

Endoscopy in Lumbar Spine

- Explain how to use the endoscope in spine
- Describe the relevant anatomy for lumbar endoscopy
- List and evaluate the different approaches to lumbar spine

Interlaminar Endoscopic Techniques

- Describe the interlaminar endoscopic technique (theatre set-up, patient positioning, planning, procedural steps, limitations)
- Describe interlaminar endoscopic lumbar discectomy (IELD)
- Describe lumbar endoscopic unilateral laminotomy for bilateral decompression (LE-ULBD, “over the top” decompression)

Transforaminal Endoscopic Techniques

- Describe the transforaminal endoscopic technique (theatre set-up, patient positioning, planning, procedural steps, limitations)
- Describe transforaminal endoscopic lumbar discectomy (TELD)
- Describe transforaminal endoscopic lumbar foraminotomy (TELF)

Unilateral Biportal Endoscopic Technique

- Describe the unilateral biportal endoscopic technique (theatre set-up, patient positioning, planning, procedural steps, limitations).

General

- Identify the ideal indications for novice surgeons and recognise
- the contraindications based on the evidence
- Describe pitfalls of the different procedures and discuss how to
- Prevent and manage complications

Assessment

For the completion of this course, participants are required to complete and pass the e-learning quizzes with a minimum score of 70% and complete the required course evaluations, which includes a reflective component.

Recommended Reading

AOSpine Consensus Paper on Nomenclature for Working-Channel Endoscopic Spinal Procedures *Global Spine Journal*. 2020 Apr; 10(2 Suppl): 111S–121S.
DOI: 10.1177/2192568219887364

Endoscopic Spine Surgery (*J Korean Neurosurg Soc* 60 (5): 485-497, 2017)
DOI: 10.3340/jkns.2017.0203.004

Endoscopic Disc and Decompression Surgery (Book chapter) Rütten, Hahn (AOSpine MISS)

Comparative Study Between Uniportal Full-Endoscopic Interlaminar and Tubular Approach in the Treatment of Lumbar Spinal Stenosis: A Pilot Study *Global Spine Journal* 2020, Vol. 10(2S) 70S-78S

TELF: Percutaneous Endoscopic Lumbar Foraminotomy: An Advanced Surgical Technique and Clinical Outcomes *Neurosurgery*, 2014, 75:124–133 DOI: 10.1227/NEU.0000000000000361

TE-LRD: Percutaneous Transforaminal Endoscopic Decompression on Lateral Recess Stenosis: Technical Notes and Outcomes of Two Years Follow-up. A Case Series Study *International Journal of Clinical and Experimental Medicine*, 2018; 11(10):10731-10739
URL: www.ijcem.com/IJCEM0077613 / ISSN: 1940-5901

Complications of Percutaneous Endoscopic Lumbar Discectomy: Experiences and Literature Review Zhu et al., *J Spine* 2017, 6:6 DOI: 10.4172/2165-7939.1000402

Unique Complications of Percutaneous Endoscopic Lumbar Discectomy and Percutaneous Endoscopic Interlaminar Discectomy *Pain Physician* 2018; 21: E105-E112 • ISSN 2150-1149#

Complications and Limitations of Endoscopic Spine Surgery and Percutaneous Instrumentation Kim HS, Sharma SB, Wu PH, Raorane HD, Adsul NM, Singh R, et al. *Indian Spine Journal* 2020; 3:78-85

New Era of Percutaneous Endoscopic Lumbar Surgery: Lumbar Stenosis Decompression – A Technical Report Choi et al., *J Spine* 2014, 3:5 DOI: 10.4172/2165-7939.1000182

Clinical Outcomes and Complications after Biportal Endoscopic Spine Surgery: A Comprehensive Systematic Review and Meta-analysis of 3673 Cases
Don Y. Park, Alexander Upfill-Brown, Nora Curtin, Christopher D. Hamad, Akash Shah, Brian Kwon, Yong H. Kim, Dong Hwa Heo, Cheol Woong Park, William L. Sheppard DOI: 10.1007/s00586-023-07701-9