

# 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: <u>www.eurospine.org</u>

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Director of Education and Research Julie-Lyn Noël E: <u>noel@eurospine.org</u>

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 Guillaume Lonjon\*, France Thibault Remacle, Belgium Christoph J. Siepe, Germany Ralf Wagner, Germany

\*e-learning faculty

## **Programme Goal**

#### Starting with Endoscopic Spine Surgery

Endoscopic spine surgery is becoming the ultimate tissue-preserving technique to treat many spine pathologies, with accumulating evidence supporting its efficacy and reduced complication rate. This has generated massive interest among surgeons worldwide to learn and adopt this technology. This course will help you take the first steps in spinal endoscopy or widen the spectrum of the procedures you offer to your patients, allowing you to achieve highly rewarding and excellent surgical outcomes in spinal 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	
REGISTRATON FEES	EUROSPINE Member: €800 Non-member: €1,000	
CME CREDITS	The EUROSPINE Basic and Advanced Spine Surgery eLearning platform made available on https://eurospine.matrixIms.eu and organized by EUROSPINE, the Spine Society of Europe is accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) to provide the following CME activity for medical specialists. The e-learning activity for this module is accredited with 3 CME credits. Only those e-learning materials that are displayed on the UEMS-EACCME® website have formally been accredited. Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 CreditsTM. Information on the process to convert EACCME® credit to AMA credit can be found at https://edhub.ama-assn.org/pages/applications. "The EduWeek 2025: Introduction to Spinal Endoscopy Course, Strasbourg, France 26/06/2025 - 26/06/2025, has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 8.0 European CME credits (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity." "Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 CreditsTM. Information on the process to convert EACCME® credit to AMA credit can be found at https://edhub.ama-assn.org/pages/applications . "Live educational activities, occurring outside of Canada, recognised by the UEMS-EACCME® for ECMEC®s are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada."	
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	<ul> <li>The course is only deemed as complete when participants have met</li> <li>ALL of the following conditions: <ul> <li>Passed e-learning/pre-learning component AND</li> <li>Attended the live session AND</li> <li>Submitted course evaluations for the e-learning and the live session component</li> </ul> </li> </ul>	
TARGET AUDIENCE	Senior trainees and trained surgeons, who are planning a career in spine surgery.	
IMPORTANT (!)	<ul> <li>Completion of e-learning component is mandatory</li> <li>Attendance of the live session is mandatory</li> </ul>	

## **E-learning Programme**

#### (available from May 2025)

Time/Duration	Торіс	Faculty		
0:20	Basic concepts in spinal endoscopy	Debono		
Interlaminar				
00:20	Interlaminar endoscopic lumbar discectomy (IELD)	Baranto		
00:18	Lumbar endoscopic unilateral laminotomy for bilateral decompression (LE-ULBD, "over the top" decompression)	Siepe		
00:20	Knowledge check questions			



Transforaminal		
00:16	Transforaminal endoscopic lumbar discectomy (TELD)	Hassel
00:16	Transforaminal endoscopic lumbar foraminotomy (TELF)	Wagner
Biportal		
00:23	Unilateral biportal endoscopy (UBE)	Lonjon
00:20	Knowledge check questions	

## **Live Session Programme**

26 June 2025		
IRCAD Lab (Skills Lab) and Hirsch Lecture Theatre (Lecture and cases)		
08:00 – 18:15 CEST		
Skills Lab		
Learners		
○ 6 gr	oups	
o 4 le	arners per group	
Rotations		
o 3 rc	tations	
$\circ$ 6 stations in total (2 each technique)		
<ul> <li>90 minutes per rotation</li> </ul>		
Techniques		
1. Interlaminar endoscopic techniques: Siepe and Baranto		
2. Transforaminal endoscopic techniques: Remacle and Wagner		
3. Uni	lateral biportal endoscopic technique: Debono and Cristini	
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 Interlaminar – Baranto, Remacle, Hassel	
15:45 – 16:00	Coffee Break	
16:00 - 17:45	Cases 2 Transforaminal / UBE – Wagner, Cristini, Debono	
17:45 – 18:15	Complications prevention and management in endoscopic spine surgery - Hassel	
18:15	END OF COURSE	



## **Learning Outcomes**

#### Endoscopy in Lumbar Spine

- Explain how to use the endoscope in the spine
- Describe the relevant anatomy for lumbar endoscopy
- List and evaluate the different approaches to the 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 the pitfalls of the different procedures and discuss how to
- Prevent and manage complications

## Assessment

To complete this course, participants must complete and pass the e-learning quizzes with a minimum score of 70% and complete the required course evaluations, which include a reflective component.



### **Recommended Reading**

AOSpine Consensus Paper on Nomenclature for Working-Channel Endoscopic Spinal Procedures, Global Spine Journal. 2020 Apr; 10(2 Suppl): 1115–121S. 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.000000000000361

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