

Advanced Spinal Endoscopy Course

27 June 2025 | IRCAD, Strasbourg, France

General Information

EUROSPINE, the Spine Society of Europe
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Course Chairs

Bertrand Debono, France
Frank Hassel, Germany

Course Faculty

Adad Baranto, Sweden
Joseph Cristini, France
Thibault Remacle, Belgium
Christoph J. Siepe, Germany
Ralf Wagner, Germany

Programme Goal

Advanced Endoscopic Spine Surgery

Endoscopic spine surgery is becoming the ultimate tissue premanyque to treat a multitude of 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 expand your knowledge and technical skills, enabling you to take the next step in your endoscopic practice: mastering cervical and thoracic pathologies and the treatment options for endoscopic fusion.

Quick Facts

LIVE SESSION DATE & TIME	27 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 Accreditation Council for Continuing Medical Education (EACCME) is pending.
LANGUAGE	English
DRESS CODE	Smart casual
E-LEARNING	<p>A computer (Mac/PC) or tablet (Android/Mac) and stable internet connection are required to access the e-learning content.</p> <p>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.</p>
COURSE COMPLETION	<p>The course is only deemed as complete when participants have met ALL of the following conditions:</p> <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

Time/Duration	Topic	Faculty
0:15	Evolution of full-endoscopic spine surgery	F. Hassel
Cervical procedures		
00:08	Posterior endoscopic cervical foraminotomy—step by step	T. Remacle
00:20	Cervical UBE—step by step	J. Cristini
00:20	Knowledge check questions	
Thoracic procedure		
00:20	Transforaminal Endoscopic Thoracic Discectomy- TETD	A. Baranto
Endoscopic fusion		
00:20	Endoscopic fusion step by step	R. Wagner
00:20	Knowledge check questions	

Live Session Programme

27 June 2025 08:00 – 18:15 CEST	
<p style="text-align: center;">Skills Lab</p> <ul style="list-style-type: none"> • Learners <ul style="list-style-type: none"> ○ 24 participants ○ 6 groups ○ 4 learners per group • Rotations <ul style="list-style-type: none"> ○ 3 rotations ○ 6 stations in total ○ 90 minutes per rotation • Techniques and Stations <ul style="list-style-type: none"> ○ Participants will be assigned to stations 1 to 4 according to their preference on a first come first served basis <ol style="list-style-type: none"> 1. Cervical Foraminotomy Monoportal: Hassel 2. Cervical Biportal: Cristini 3. Cervical Decompression: Wagner 4. Lumbar Interlaminar Technique: Baranto 5. 2 stations on Endoscopic Lumbar Fusion Monoportal: Siepe and Remacle 	
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 – cervical, thoracic – Remacle, Hassel, Siepe
15:45 – 16:00	Coffee Break
16:00 – 17:45	Cases 2 – endoscopic fusion – Wagner, Cristini
17:45 – 18:15	Discussion – Mono or biportal? Wagner, Cristini, Debono Which technique should I use?
18:15	END OF COURSE

Learning Outcomes

Endoscopy in Cervical Spine

- Explain and differentiate the endoscopic techniques in the cervical spine
- Describe the relevant anatomy for cervical endoscopy
- List and evaluate the different methods for cervical spine
- Describe the posterior cervical endoscopic foraminotomy technique (PECF) (theatre set-up, patient positioning, planning, procedural steps, limitations)
- Describe the cervical endoscopic unilateral Laminotomy for Bony Decompression technique (CE-ULBD) (theatre set-up, patient positioning, planning, procedural steps, limitations)

Thoracic Endoscopic Techniques

- Describe the transforaminal thoracic endoscopic technique
- Describe the transforaminal endoscopic thoracic discectomy (TETD) (theatre set-up, patient positioning, planning, procedural steps, limitations)

Endoscopic Fusion Techniques

- Describe the monoportal endoscopic fusion technique (theatre set-up, patient positioning, planning, procedural steps, limitations)
- Describe the biportal endoscopic fusion 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): 111S–121S.
DOI: 10.1177/2192568219887364

Atlas of Full-Endoscopic Spine Surgery, C. Hofstetter et al. (Book), Thieme, 2020, ISBN 978-68420-023-8

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

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

Comparison of efficacy and safety between unilateral biportal endoscopic transforaminal lumbar interbody fusion versus uniportal endoscopic transforaminal lumbar interbody fusion for the treatment of lumbar degenerative diseases: a systematic review and meta-analysis. Ding et al. BMC Musculoskeletal Disorders (2024) 25:1037
<https://doi.org/10.1186/s12891-024-08146-x>

Posterior Cervical Percutaneous Endoscopic Ventral Bony Decompression
Chapter | First Online: 17 January 2023, Endoscopy of the Spine, Vincent Hagel, Albert E. Telfeian & B. S. Ankush Bajaj

Transforaminal Endoscopic Thoracic Discectomy Is More Cost-Effective Than Microdiscectomy for Symptomatic Disc Herniations
Junseok Bae¹, Pratyush Shahi¹, Sang-Ho Lee¹, Han-Joong Keum¹, Ju-Wan Seok¹ Yong-Soo Choi¹, Jin-Sung Kim² Neurospine 2025;22(1):118-127. <https://doi.org/10.14245/ns.2449414.707>

The Endoscopic Lumbar Interbody Fusion: A Narrative Review and Future Perspective
Phattareeya Pholprajug¹, Vit Kotheeranurak², Yanting Liu³, Jin-Sung Kim³ Neurospine 2023;20(4):1224-1245. <https://doi.org/10.14245/ns.2346888.444>

Endoscopic Lateral Lumbar Interbody Fusion: Technical Note and Case Series
Ricardo Casal Grau, Francisco Javier Sánchez Benitez de Soto, Patrick Barhouse, Christian Schroeder, Owen P. Leary, Patricia Zadnik, Sullivan and Albert E. Telfeian
published online 6 February 2024, *Int J Spine Surg*
<http://ijssurgery.com/content/early/2024/01/24/8572>

Endoscopic Techniques for Lumbar Interbody Fusion: Principles and Context Bryan Zheng,¹ Elias Shaaya,¹ Josh Feler,¹ Owen P. Leary,¹ Matthew J. Hagan,¹ Ankush Bajaj,¹ Jared S. Fridley,¹ Frank Hassel,² Raymond Gardocki,³ Ricardo Casal Grau,⁴ Kai-Uwe Lewandrowski,⁵ and Albert E. Telfeian¹ BioMed Research International Volume 2022, Article ID 4979231, 9 pages <https://doi.org/10.1155/2022/4979231>

