

# Advanced Spinal Endoscopy Course

27 June 2025 | IRCAD, Strasbourg, France

## General Information

EUROSPINE, the Spine Society of Europe  
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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

<b>LIVE SESSION DATE &amp; TIME</b>	27 June 2025 (07:50-18:15 CEST)
<b>VENUE</b>	IRCAD, 1 Pl. de l'Hôpital, 67000 Strasbourg, France
<b>MAX. ATTENDEES</b>	24 delegates maximum
<b>REGISTRATION FEES</b>	EUROSPINE Member: €800 Non-member: €1,000
<b>CME CREDITS</b>	<p>The EUROSPINE Basic and Advanced Spine Surgery eLearning platform made available on <a href="https://eurospine.matrixlms.eu">https://eurospine.matrixlms.eu</a> 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 2 CME credits.</p> <p>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 Credits™. Information on the process to convert EACCME® credit to AMA credit can be found at <a href="https://edhub.ama-assn.org/pages/applications">https://edhub.ama-assn.org/pages/applications</a>.</p> <p>“The EduWeek 2025: Advanced Endoscopic Spine Surgery, Strasbourg, France 27/06/2025 - 27/06/2025, 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.”</p> <p>“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 Credits™. Information on the process to convert EACCME® credit to AMA credit can be found at <a href="https://edhub.ama-assn.org/pages/applications">https://edhub.ama-assn.org/pages/applications</a> .</p> <p>“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.”</p>
<b>LANGUAGE</b>	English

<b>DRESS CODE</b>	Smart casual
<b>E-LEARNING</b>	<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>
<b>COURSE COMPLETION</b>	<p>The course is only deemed as complete when participants have met ALL of the following conditions:</p> <ul style="list-style-type: none"> <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>
<b>TARGET AUDIENCE</b>	Senior trainees and trained surgeons, who are planning a career in spine surgery.
<b>IMPORTANT (!)</b>	<ul style="list-style-type: none"> <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	Topic	Faculty
0:14	Evolution of full-endoscopic spine surgery	F. Hassel
<b>Cervical procedures</b>		
00:07	Posterior endoscopic cervical foraminotomy—step by step	T. Remacle
00:22	Cervical UBE—step by step	J. Cristini
00:20	Knowledge check questions	
<b>Thoracic procedure</b>		
00:11	Transforaminal Endoscopic Thoracic Discectomy- TETD	A. Baranto
<b>Endoscopic fusion</b>		

00:16	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;"><b>Skills Lab</b></p> <ul style="list-style-type: none"> <li>• Learners <ul style="list-style-type: none"> <li>○ 24 participants</li> <li>○ 6 groups</li> <li>○ 4 learners per group</li> </ul> </li> <li>• Rotations <ul style="list-style-type: none"> <li>○ 3 rotations</li> <li>○ 6 stations in total</li> <li>○ 90 minutes per rotation</li> </ul> </li> <li>• Techniques and Stations <ul style="list-style-type: none"> <li>○ Participants will be assigned to stations 1 to 4 according to their preference on a first come first served basis</li> </ul> <ol style="list-style-type: none"> <li>1. Cervical Foraminotomy Monoportal: Hassel</li> <li>2. Cervical Biportal: Cristini</li> <li>3. Cervical Decompression: Wagner</li> <li>4. Lumbar Interlaminar Technique: Baranto</li> <li>5. 2 stations on Endoscopic Lumbar Fusion Monoportal: Siepe and Remacle</li> </ol> </li> </ul>	
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
<b>Lectures and Cases</b>	
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?
<b>18:15</b>	<b>END OF COURSE</b>

# 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 Bae<sup>1</sup>, Pratyush Shahi<sup>1</sup>, Sang-Ho Lee<sup>1</sup>, Han-Joong Keum<sup>1</sup>, Ju-Wan Seok<sup>1</sup> Yong-Soo Choi<sup>1</sup>, Jin-Sung Kim<sup>2</sup> 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 Pholprajug<sup>1</sup>, Vit Kotheeranurak<sup>2</sup>, Yanting Liu<sup>3</sup>, Jin-Sung Kim<sup>3</sup> 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,<sup>1</sup> Elias Shaaya,<sup>1</sup> Josh Feler,<sup>1</sup> Owen P. Leary,<sup>1</sup> Matthew J. Hagan,<sup>1</sup> Ankush Bajaj,<sup>1</sup> Jared S. Fridley,<sup>1</sup> Frank Hassel,<sup>2</sup> Raymond Gardocki,<sup>3</sup> Ricardo Casal Grau,<sup>4</sup> Kai-Uwe Lewandrowski,<sup>5</sup> and Albert E. Telfeian<sup>1</sup> BioMed Research International

Volume 2022, Article ID 4979231, 9 pages <https://doi.org/10.1155/2022/4979231>



