

EduWeek 2025

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**Degenerative
Disease of the Spine**

General Information

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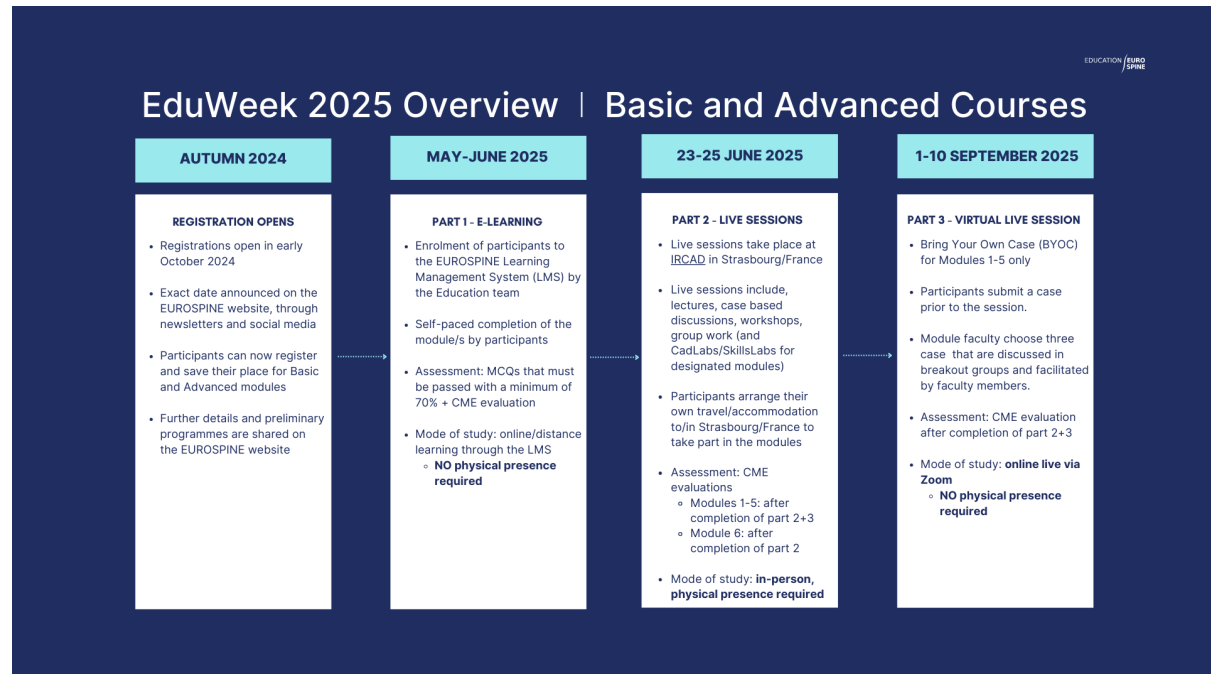
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Quick Facts

DATES & TIMES	<p><u>Live session</u> Group 1: 24 June 2025 (13:50-18:30 CEST) AND 25 June 2025 (07:50-12:30 CEST) Group 2: 25 June 2024 (07:50-18:30 CEST)</p> <p><u>Virtual live session</u> Group 1 and 2: 02 September 2025 (18:00-19:30 CEST)</p>
LIVE VENUE	IRCAD, 1 Place de l'Hôpital, 67000 Strasbourg, FRANCE
MAX. ATTENDEES	40 delegates (per group)
REGISTRATION FEE	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	<p>A computer (Mac/PC) or tablet (Android/Mac) and stable internet connection are required to access the e-learning content.</p> <p>In preparation for the live session, a mandatory and self-paced e-learning component will be available from May 2024 on the EUROSPINE Learning Management System (LMS). This component must be completed before the live session.</p>
MODULE COMPLETION	<p>A module is only deemed as complete when participants have met ALL of the following conditions:</p> <ul style="list-style-type: none"> • Passed the e-learning with at least 70% AND • Attended the live session AND • Attended the virtual BYOC live session AND • Submitted the course evaluations for the e-learning and the (virtual) 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 module is mandatory. • Attendance of the live session and virtual live session is mandatory • Group 1 and 2 contain the same content. Participants are registered for ONE of the groups only! • Changing groups once registered is NOT possible!

PART1 - E-Learning Programme

(available from May 2025)

Time/Duration	Topic
Cervical & Lumbar	
00:21	Epidemiology, natural history, and imaging of radicular pain
00:15	Effective non-surgical interventions for radicular pain
00:17	Surgery for radicular pain in the lumbar spine
00:17	Surgery for radicular pain in the cervical spine
00:20	Knowledge check questions
Cervical & Thoracic Myelopathy	
00:11	Presentation, causes, and natural history of myelopathy
00:11	Imaging myelopathy: techniques and prognostic indicators
00:17	Clinical and surgical decision making in cervical myelopathy
00:18	Clinical and surgical decision making in thoracic myelopathy
00:20	Knowledge check questions
Lumbar Spinal Stenosis & Degenerative Spondylolisthesis	
00:10	Presentation, natural history, and non-surgical treatment of spinal stenosis
00:13	Imaging of spinal stenosis and degenerative spondylolisthesis
00:17	Surgical treatment of lumbar stenosis
00:12	Surgical treatment of degenerative spondylolisthesis
00:20	Knowledge check questions
Spondylolysis & Low-Grade Isthmic Spondylolisthesis, Axial Back Pain, Degenerative Deformity	
00:13	Spondylolysis and low-grade isthmic spondylolisthesis
00:14	Natural history, obstacles to recovery and non-surgical treatment of axial pain
00:14	How to investigate a patient with axial pain
00:14	Surgical treatment for axial back pain
00:17	Degenerative deformity of the lumbar spine
00:20	Knowledge check questions

PART 2 - Live Session Programme

Group 1	
24 June 2025	
13:50–16:00	Cases
16:00–16:15	Coffee break
16:15–18:30	Cases
25 June 2025	
07:50 – 08:00	Preparation for Skills Lab workshop (sign-in, changing, going to assigned tables etc)
08:00–12:30 (incl. 1x30 min. break around 10:00-10:30)	Skills Lab Workshop 1
12:30	End Group 1

Group 2	
25 June 2025	
07:50–10:00	Cases
10:00–10:15	Coffee break
10:15–12:30	Cases
12:30–13:30	Lunch
13:50 – 14:00	Preparation for Skills Lab workshop (sign-in, changing, going to assigned tables etc)
14:00–18:30 (incl. 1x30 min. break around 16:00-16:30)	Skills Lab Workshop 2
18:30	End Group 2

Case Based Discussions		
Topics Group 1 and 2	Case Presenter	Expert Opinion
Recurrent lumbar disc herniation with radicular pain		
3 level lumbar spinal stenosis with minor slip		
2-level cervical radicular pain		
Low back pain		
Cervical myelopathy with multilevel pathology		
Degenerative deformity and root pain		

Skills Lab Workshop Group 1		
Topic	Support	Faculty (to be assigned)
Minimally invasive spine surgery	Realists	
Minimally invasive spine surgery	Realists	
ALIF	Realists	
LLIF	Cadaver specimen	
Cervical laminoplasty with piezosurgery	Realists	
Cervical laminoplasty with drills	UpSurgeon	
Total disc replacement	Realists/UpSurgeon	

Thoracic pedicle screw fixation and hybrid solutions	Cadaver specimen	
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Skills Lab Workshop Group 2		
Topic	Support	Faculty (to be assigned)
Minimally invasive spine surgery	Realists	
Minimally invasive spine surgery	Realists	
ALIF	Realists	
LLIF	Cadaver specimen	
Cervical laminoplasty with piezosurgery	Realists	
Cervical laminoplasty with drills	UpSurgeon	
Total disc replacement	Realists/UpSurgeon	
Thoracic pedicle screw fixation and hybrid solutions	Cadaver specimen	
END OF LIVE SESSION		

PART 3 - Virtual Live Session

Bring Your Own Case (BYOC)

02 September 2025 18:00 – 19:30 CEST	
18:00-18:05	Introduction
18:05-18:25	Breakout session 1
18:25-18:30	Discussion 1
18:30-18:50	Breakout session 2
18:50-18:55	Discussion 2
18:55-19:00	Break
19:00-19:20	Breakout 3
19:20-19:25	Discussion 3
19:25-19:30	Wrap-up and conclusion
END OF MODULE	

Learning Outcomes

Cervical & Lumbar: Herniated Discs, Diagnosis & Treatment of Radicular Pain

Epidemiology, Natural History and Imaging of Radicular Pain

- Use common epidemiological terms to define and outline prevalence of radicular pain
- Understand the natural history of radicular pain
- Identify the contributory factors
- Diagnose causes of radicular pain
- Explain how disc herniation occurs
- Differentiate between the roles of MRI and CT in radicular pain imaging
- Interpret images using correct nomenclature

Effective Non-Surgical Interventions for Radicular Pain

- Evaluate non-surgical options for radicular pain
- Explain these options to patients
- Identify suitable patients for non-operative management
- Differentiate between the 3 types of analgesics
- Summarise the roles of physiotherapy and injection therapy.

Surgery for Radicular Pain in the Lumbar Spine

- Differentiate between absolute and relative indications for surgery
- Identify appropriate timing for surgery
- Evaluate common surgical techniques with supporting evidence
- Compare surgical and non-surgical options
- Formulate a surgical plan
- Anticipate complications and plans for return to work and activity

Surgery for Radicular Pain in the Cervical Spine

- Outline the causes and incidence of radicular pain in the cervical spine
- Justify indications for surgery
- Identify factors influencing regression of symptoms from cervical disc herniation
- Select appropriate surgical approach
- Evaluate surgical options
- Anticipate complications and plans for return to work and activity
- Formulate a plan when an adjacent level problem emerges

Cervical & Thoracic Myelopathy

Presentation, Causes, and Natural History of Myelopathy

- Compare functional and clinical presentation of cervical spondylotic myelopathic syndromes
- Grade the disease using validated instruments
- Anticipate clinical traps in diagnosis and consider differentials
- Describe the natural history
- Identify the distinctive clinical presentation of craniocervical and thoracic myelopathy

Imaging Myelopathy: Techniques & Prognostic Indicators

- Interpret MRI and CT findings in spondylotic myelopathy
- Recognize signal changes in different MRI sequences and their significance
- Consider differential diagnoses in spinal cord non tumoral pathology
- Understand the current place of myelography and CT myelography in imaging myelopathy

Clinical & Surgical Decision Making in Cervical Myelopathy

- Define a treatment plan for patients with cervical myelopathy
- Identify absolute and relative indications for surgery in cervical spondylotic myelopathy
- Compare different surgical approaches to cervical myelopathy and define a rationale for the surgical plan
- Discuss the place of intraoperative neuromonitoring in cervical myelopathy

Clinical & Surgical Decision Making in Thoracic Myelopathy

- Assess the risk-benefit balance for surgery in patients with thoracic myelopathy
- Compare different surgical approaches to thoracic myelopathy

Lumbar Spinal Stenosis & Degenerative Spondylolisthesis

Presentation, Natural History and Non-Surgical Treatment of Spinal Stenosis

- Outline the signs & symptoms of lumbar spine stenosis (LSS)
- Understand the clinical features and natural history of neurogenic claudication
- Classify LSS
- Evaluate surgical and non-surgical options
- Appraise rehabilitation alternatives

Imaging of Spinal Stenosis and Degenerative Spondylolisthesis

- Describe the different imaging techniques to identify lumbar stenosis and degenerative spondylolisthesis
- Classify and grade lumbar stenosis
- Appraise the role of full spine and functional X-rays in the assessment of patients with lumbar spinal stenosis and degenerative spondylolisthesis

Surgical Treatment of Lumbar Stenosis

- Formulate principles for stenosis surgery
- Tailor the surgical technique to the individual patient
- Recognize indications for fusion in patients with lumbar stenosis

Surgical Treatment of Degenerative Spondylolisthesis

- Evaluate surgical and non-surgical options for degenerative spondylolisthesis
- Summarise controversies in the choice of treatment for degenerative spondylolisthesis

Spondylolysis & Low-Grade Isthmic Spondylolisthesis, Axial Back Pain, Degenerative Deformity

Spondylolysis & Low-Grade Spondylolisthesis

- Outline the epidemiology and natural history
- Describe the signs & symptoms of spondylolysis & low-grade spondylolisthesis
- Formulate principles of management

- Evaluate surgical options
- Anticipate complications of instrumentation and repositioning
- Appraise rehabilitation alternatives

Natural history, Obstacles to Recovery and Non-Surgical Treatment of Axial pain

- Anticipate potential obstacles to recovery
- Explain how flagging can be used
- Plan strategies for managing catastrophizing
- Differentiate between acute and chronic back pain
- Evaluate options for non-surgical management of back pain
- Summarise current evidence pertaining to operative and non-operative management

How to investigate a Patient with Axial Pain

- Understand the role of clinical history and physical examination in the assessment of patients with axial pain
- Decide the need for imaging studies
- Select patients with axial pain who need advanced diagnostic techniques
- Review the place of diagnostic blocks and discography in patients with axial pain

Surgery for Axial Back Pain

- Provide a rationale for fusion surgery
- Evaluate alternative options
- Select appropriate approach
- Link to current evidence

Degenerative Lumbar Deformity

- Describe the pathogenesis and natural history of degenerative lumbar deformity
- Explain the concept of spinal balance and the spinopelvic parameters
- Evaluate the risk-benefit balance for surgery and potential for complications
- Formulate a surgical plan for lumbar degenerative kyphoscoliosis

Skills Workshop

Anterior Cervical Fixation Systems: Cages & Plates

- Describe the surgical steps of the procedure
- Identify surgical differences between cage fusion and disc arthroplasty
- Identify tricks and pitfalls in decompression of the spinal canal and foramen
- Identify tricks and pitfalls in anterior plating

Lateral Approach: Lateral Lumbar Interbody Fusion (LLIF)

- Identify the fluoroscopic targets for lateral approach to the lumbar spine
- Perform minimally invasive lateral approach to the discs L2-L3, L3-L4, L4-L5
- Identify key structures and discuss risks related to local vascular neuro anatomy
- Approach the disc using neuromonitoring and tubular system
- Convert the approach to mini-open lumbotomy and access the disc by reclining the psoas muscle
- Perform a discectomy and prepare endplates
- Insert a LLIF cage

Lumbar Pedicle Screws & Transforaminal Lumbar Interbody Fusion (TLIF)/ Posterior Lumbar Interbody Fusion (PLIF)

- Identify entry points for lumbar pedicle screws insertion
- Prepare lumbar pedicles and insert lumbar pedicle screws
- Learn/revise neural anatomy of the lumbar spine
- Perform facetectomy, prepare the disc space and insert a TLIF/PLIF cage

Learning Outcomes – Bring Your Own Case (BYOC)

The module concludes with the Bring Your Own Case (BYOC) virtual live session. The BYOC is a case-based learning session based on the participants own practice or experience. Participants will be asked to submit a case on the module topic before the virtual live session.

The cases are ideally the participant's own case and should preferably present questions with no single right answer or dilemmas. The cases could also be from their own departments and ideally, the participant should have had some personal connection or have at least seen the case.

The cases will be shared with assigned faculty preceptors who will process the cases and determine the line-up and order of discussion. Some cases may be grouped with that of other colleagues in discussion.

At the end of the session participants will be able to:

- Synthesise background knowledge and principles on the topic (module name) and apply to their own case and other cases presented
- Identify dilemmas and issues with their own case and other cases presented
- Raise points and questions on their own case and other cases presented
- Defend their positions regarding their own case and cases presented during the discussion
- Recognise and understand diverse perspectives from other participants and faculty
- Assimilate new ideas, new techniques and information, and adopt them appropriately in practice
- Formulate clinical decisions, strategies and generate possible solutions on their own case and other cases presented

Recommended Reading

Part II Basic Module 2: Surgical Treatment of Degenerative Cervical, Thoracic and Lumbar Spinal Pathologies. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach. Switzerland: Springer.

- F. Ringel and S. Kantelhardt. (2019). Anterior Cervical Subaxial Treatment (Fusion). B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 19-24). Switzerland: Springer.
- F. Ringel and E. Archavlis. (2019). Cervical Motion Preserving Procedures (TDR). B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 25-32). Switzerland: Springer.
- F. Ringel and A. Gutenberg. (2019). Cervical Motion Preserving Procedures (Frykholm). B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 33-38). Switzerland: Springer.

- M. Czabanka and P. Vajkoczy. (2019). Cervical Myelopathy: Indication and Operative Procedure. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 39-50). Switzerland: Springer.
- L. Bobinski. (2019). Cervical Posterior Long Construct Stabilization. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 51-58). Switzerland: Springer.
- B. Meyer and S. Krieg. (2019). Thoracic Disc Herniation and Myelopathy. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 59-64). Switzerland: Springer.
- N.A. van der Gaag and W. Moojen. (2019). Lumbar Disc Herniation, Nucleo- and Sequesterectomy. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 65-70). Switzerland: Springer.
- I. Magras, A. Athanasiou and V. Magra. (2019). Lumbar Spinal Stenosis Requiring Decompression and Fusion. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 71-76). Switzerland: Springer.
- I. Magras, A. Athanasiou and V. Magra. (2019). Lumbar Spinal Stenosis. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 77-80). Switzerland: Springer.
- J. Patino and J. Lafuente. (2019). Degenerative Spondylolisthesis. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 81-86). Switzerland: Springer.
- S. Hartmann, A. Tschugg and C. Thomé. (2019). Basic Degenerative Lumbar Scoliosis. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 87-94). Switzerland: Springer.
- S.K, Tschoeke. (2019). Thoracolumbar Instrumentation and Fusion for Degenerative Disc Disease. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 95-108). Switzerland: Springer.
- M. Stoffel. (2019). Lumbar Non-Fusion Techniques. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 109-116). Switzerland: Springer.
- E. Shibhan and B. Meyer. (2019). Management of Failed Back Surgery Syndrome. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 117-122). Switzerland: Springer.
- H. Meyer and Y. Ryang. (2019). Navigation of the Cervical, Thoracic and Lumbar Spine. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 129-137). Switzerland: Springer.