

EduWeek 2025

5

**Tumours and
Inflammatory Diseases
of the Spine**

General Information

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EduWeek 2025 Overview

Basic and Advanced Courses

AUTUMN 2024	MAY-JUNE 2025	23-25 JUNE 2025	2-4 SEPTEMBER 2025
<p>REGISTRATION OPENS</p> <ul style="list-style-type: none"> Registrations open in early October 2024 Exact date announced on the EUROSPINE website, through newsletters and social media Participants can now register and save their place for Basic and Advanced modules Further details and preliminary programmes are shared on the EUROSPINE website 	<p>PART 1 - E-LEARNING</p> <ul style="list-style-type: none"> Enrolment of participants to the EUROSPINE Learning Management System (LMS) by the Education team Self-paced completion of the module/s by participants Assessment: MCQs that must be passed with a minimum of 70% + CME evaluation Mode of study: online/distance learning through the LMS <ul style="list-style-type: none"> NO physical presence required 	<p>PART 2 - LIVE SESSIONS</p> <ul style="list-style-type: none"> Live sessions take place at IRCAD in Strasbourg/France Live sessions include, lectures, case based discussions, workshops, group work (and CadLabs/SkillsLabs for designated modules) Participants arrange their own travel/accommodation to/in Strasbourg/France to take part in the modules Assessment: CME evaluations <ul style="list-style-type: none"> Modules 1-5: after completion of part 2+3 Module 6: after completion of part 2 Mode of study: in-person, physical presence required 	<p>PART 3 - VIRTUAL LIVE SESSION</p> <ul style="list-style-type: none"> Bring Your Own Case (BYOC) for Modules 1-5 only Participants submit a case prior to the session. Module faculty choose three case that are discussed in breakout groups and facilitated by faculty members. Assessment: CME evaluation after completion of part 2+3 Mode of study: online live via Zoom <ul style="list-style-type: none"> NO physical presence required

Quick Facts

DATES & TIMES	<p>Live session Group 1: 23 June 2025 (13:00-17:15 CEST) Group 2: 24 June 2025 (08:00-12:15 CEST)</p> <p>Virtual live session Group 1 and 2: 03 September 2025 (17:00-18:30 CEST)</p>
LIVE SESSION VENUE	IRCAD, 1 Place de l'Hôpital, 67000 Strasbourg, FRANCE
MAX. ATTENDEES	40 delegates (per group)
REGISTRATON 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	<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, the mandatory self-paced e-learning component will be available from May 2024 on the EUROSPINE Learning Management System (LMS). <u>This component must be completed before the live session.</u></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!

PART 1 - E-learning Programme

(available from May 2025)

Time Duration	Topic	Faculty
Vertebral Osteomyelitis		
00:28	Primary spinal infections	Netzer
00:11	Conservative treatment	Tessitore
00:22	Vertebral osteomyelitis: Indications for surgical decompression and instrumentation	De Boer
00:20	Knowledge check questions	
Metabolic Bone Disease		
00:12	Bone disorders	Tessitore
00:12	Osteoporosis (aetiology, diagnosis, drug therapy)	De Boer
00:50	Surgical considerations in disorders of the bone	Reynolds
00:20	Knowledge check questions	
Rheumatoid Arthritis (RA) And Ankylosing Spondylitis (AS)		
00:14	Rheumatoid arthritis	De Boer
00:30	Aetiology, pathogenesis, symptoms, diagnosis of AS	Gessler
00:18	Stabilizing and corrective surgery of the TL spine in AS	Gessler
00:31	Diagnosis and treatment of the occipito-atlantoaxial complex in RA	Gessler
00:20	Knowledge check questions	
Tumours of the Axial Skeleton		
00:16	Benign tumours of the spine	Netzer
00:25	Primary tumours of the spine	Reynolds
00:27	Secondary malignant tumours diagnosis and management	Netzer
00:10	Complications and quality of life evaluation	Tessitore
00:20	Knowledge check questions	

PART 2 - Live Session Programme

Group 1 23 June 2025	
13:00–15:10	Cases
15:10 –15:25	Coffee break
15:25 –17:15	Cases

Group 2 24 June 2025	
08:00 –10:10	Cases
10:10 –10:25	Coffee break
10:25 –12:15	Cases

17:15	End Group 1
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12:15	End Group 2
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Case Based Discussions			
Topic List Group 1 and 2	Case presenter	Moderator	Expert opinion
Introduction			
Vertebral osteomyelitis			
Osteopenia			
Rheumatoid arthritis			
Osteosarcoma			
Transoral surgery			
END OF LIVE SESSION			

PART 3 - Virtual Live Session

Bring Your Own Case (BYOC)

03 September 2025 17:00 – 18:30 CEST	
17:00-17:05	Introduction
17:05-17:25	Breakout session 1
17:25-17:30	Discussion 1
17:30-17:50	Breakout session 2
17:50-17:55	Discussion 2
17:55-18:00	Break
18:00-18:20	Breakout 3
18:20-18:25	Discussion 3
18:25-18:30	Wrap-up and conclusion
END OF MODULE	

Learning Outcomes

Vertebral Osteomyelitis

Aetiology, Pathogenesis, Routes of Spread

- Explain the aetiology of vertebral osteomyelitis including bacterial, tuberculous, and fungal
- Describe the pathogenesis including venous route, arterial inoculation, and iatrogenic direct extension
- Anticipate the routes of spread: vertebral body & intervertebral disc

Symptoms & Diagnosis

- Recognise the signs and symptoms of vertebral osteomyelitis
- Identify the risk factors (immunodeficiency etc)
- Select appropriate investigations
- Distinguish on Magnetic Resonance Imaging (MRI) and x-ray the key features that define and contrast both pyogenic and tuberculous spinal lesions

Conservative Management & Indications for Surgical Treatment

- Evaluate options for conservative treatment
- Compare absolute and relative indications for conservative treatment

Metabolic Bone Diseases

Bone Disorders

- Paget's disease
- Rickets
- Diffuse idiopathic skeletal hyperostosis (DISH) (Forestier's disease)
- Metabolic bone disease

Osteoporosis

- Outline the aetiology of osteoporosis
- Diagnose osteoporosis using appropriate investigations

Surgical Considerations in Disorders of the Bone

- Evaluate treatment options
- Compare minimally invasive techniques including;
 - vertebroplasty
 - kyphoplasty
 - vertebral body stenting

Rheumatoid Arthritis and Ankylosing Spondylitis

Aetiology, Pathogenesis, Symptoms, Diagnosis

- Explain the aetiology of rheumatoid disease
- Describe the pathogenesis relating rheumatoid disease and joint changes
- Recognise the signs and symptoms
- Select and interpret appropriate investigations and imaging
- Recognise signs of
 - the rheumatoid spine
 - ankylosing spondylitis

Stabilizing & Corrective Surgery of the Spine

- Describe indications for corrective surgery for ankylosing spondylitis
- Diagnose occipito-atlantoaxial complex and subaxial cervical spine
- Differentiate between horizontal and vertical atlantoaxial instability

Diagnosis & Treatment of the Occipito-Atlantoaxial Complex

- Identify the commonly used radiographic lines and measurements for the C0 to C2 complex.
- Plan appropriate treatment for C0 to C2 and sub-axial rheumatic neck problems.
- Appraise current evidence regarding outcome and prognosis

Tumours of the Axial Skeleton

Primary Benign Tumours and Tumour Like Lesions; Diagnosis and Management

- Explain the aetiology of tumours and tumour-like lesions
- Describe the pathogenesis relating to tumours and tumour-like lesions
- Differentiate between primary benign tumours and tumour-like lesions

- Select appropriate investigations, interpret results, and stage tumour-like lesions
- Evaluate treatment options
- Anticipate outcomes
- Formulate a plan for long term monitoring

Secondary Malignant Tumours; Diagnosis and Management

- Justify the relative importance of combined tumour therapy including surgery, radiotherapy, and chemotherapy
- Evaluate surgical options and results
- Formulate a multidisciplinary management plan
- Justify the risks, benefits and impact of radiotherapy and chemotherapy
- Evaluate surgical options
- Anticipate complications

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 V Basic Module 5: Tumours of Spine and Inflammatory Diseases. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach. Switzerland: Springer.

- C. Fleege and M. Rauschmann. (2019). Vertebral Osteomyelitis: Aetiology, Pathogenesis, Routes of Spread Symptoms and Diagnosis. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 327-338). Switzerland: Springer.

- A. Slavici. (2019). Pyogenic Infection Following Single Level Nucleotomy. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 339-344). Switzerland: Springer.
- G. Prezerakos and A.T.H. Casey. (2019). Diagnostics and Treatment of C1/C2 Instability in Rheumatoid Arthritis. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 345-352). Switzerland: Springer.
- G.Prezerakos and A.T.H. Casey. (2019). Treatment Options in Severe Cervico-Thoracic Deformity in “Bechterew’s Disease”. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 353-362). Switzerland: Springer.
- M. Richter. (2019). Diagnosis and Treatment of the Occipito-Atlantoaxial Complex and Subaxial Cervical Spine in Rheumatoid Diseases. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 363-368). Switzerland: Springer.
- H. Pape and Y. Ryang. (2019). Osteoporosis (Aetiology, Diagnosis, Drug Therapy, Surgical Therapy). B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 369-376). Switzerland: Springer.
- H. Pape and Y. Ryang. (2019). Benign Tumours and Tumour-Like Lesions. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 377-384). Switzerland: Springer.
- M. Rickert and M. Rauschmann. (2019). Primary Malignant Tumours. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 385-400). Switzerland: Springer.
- J. Gempt. (2019). Secondary Malignant Tumours (Diagnosis, Staging, Surgical Treatment and Adjuvant Therapy). B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 401-409). Switzerland: Springer