

EduWeek 2025



Tumours and Infammatory Diseases of the Spine



General Information

EUROSPINE, the Spine Society of Europe c/o Pfister Treuhand AG Bankstrasse 4, 8610 Uster-Zurich, Switzerland W: www.eurospine.org

Chair of Education Committee Paulo Pereira E: <u>education@eurospine.org</u>

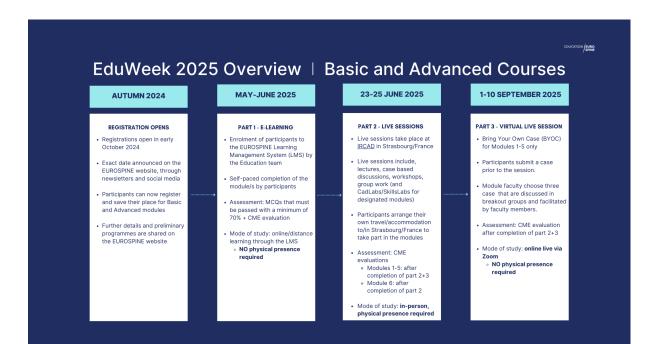
Director of Education and Research Julie-Lyn Noël E: <u>noel@eurospine.org</u>

Education and Research Manager Oriana Pivetta

E: pivetta@eurospine.org

Module Chairs Jeremy Reynolds, United Kingdom Ralph de Boer, Netherlands

Module Faculty Charlie Bouthors, France Florian Gessler, Germany Cordula Netzer, Switzerland





Quick Facts

	Live session		
	Group 1: 23 June 2025 (13:00-17:15 CEST)		
	Group 2: 24 June 2025 (08:00-12:15 CEST)		
DATES & TIMES			
	Virtual live session		
	Group 1 and 2: 08 September 2025 (18:00-19:30 CEST)		
LIVE SESSION	IRCAD 1 Place de l'Hânitel 67000 Streshourg ERANCE		
VENUE	IRCAD, 1 Place de l'Hôpital, 67000 Strasbourg, FRANCE		
MAX. ATTENDEES	40 delegates (per group)		
REGISTRATON FEES	EUROSPINE Member: €800		
REGISTRATON FEES	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			
	A computer (Mac/PC) or tablet (Android/Mac) and stable internet		
	connection are required to access the e-learning content.		
E-LEARNING	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). This component must be completed before		
	the live session.		
	A module is only deemed as complete when participants have met ALL of		
	the following conditions:		
MODULE	Passed the e-learning with at least 70% AND		
COMPLETION	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		
	Senior trainees and trained surgeons, who are planning a career in spine		
TARGET AUDIENCE	surgery.		
	Completion of e-learning module is mandatory		
	 Attendance of the live session and virtual live session is mandatory 		
IMPORTANT (!)	 Group 1 and 2 contain the same content. Participants are registered for 		
	ONE of the groups only!		
	 Changing groups once registered is NOT possible! 		
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PART 1 - E-learning Programme

(available from May 2025)

Time Duration	Торіс			
Vertebral Osteomyelitis				
00:28	Primary spinal infections			
00:11	Conservative treatment			
00:22	Vertebral osteomyelitis: Indications for surgical decompression and instrumentation			
00:20	Knowledge check questions			
Metabolic Bone Disease				
00:12	Bone disorders			
00:12	Osteoporosis (aetiology, diagnosis, drug therapy)			
00:50	Surgical considerations in disorders of the bone			
00:20	Knowledge check questions			
	Rheumatoid Arthritis (RA) And Ankylosing Spondylitis (AS)			
00:14	Rheumatoid arthritis			
00:30	Aetiology, pathogenesis, symptoms, diagnosis of AS			
00:18	Stabilizing and corrective surgery of the TL spine in AS			
00:31	Diagnosis and treatment of the occipito-atlantoaxial complex in RA			
00:20	Knowledge check questions			
	Tumours of the Axial Skeleton			
00:16	Benign tumours of the spine			
00:25	Primary tumours of the spine			
00:27	Secondary malignant tumours diagnosis and management			
00:10	Complications and quality of life evaluation			
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		
17:15	End Group 1		

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

Case Based Discussions (Faculty to be allocated)					
Topic List Group 1 and 2	Case presenter	Moderator	Expert opinion		
Introduction					
Vertebral osteomyelitis					
Osteopenia					
Rheumatoid arthritis					
Osteosarcoma					
Transoral surgery					
	END OF LIVE S	ESSION			

PART 3 - Virtual Live Session

Bring Your Own Case (BYOC)

08 September 2025 18:00 – 19:30 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;
 - o vertebroplasty
 - o 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



o 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 casebased 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-Thoracal 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