



EDUCATION | EURO  
SPINE

# EduWeek 2024

24-26 JUNE | STRASBOURG, FRANCE

**Basic Module 5:  
Tumours and Inflammatory Diseases  
of the Spine**

## General Information

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### EduWeek 2024 Overview Basic and Advanced Courses

AUTUMN 2023	MAY-JUNE 2024	24-26 JUNE 2024	3-6 SEPTEMBER 2024
<p><b>REGISTRATION OPENS</b></p> <ul style="list-style-type: none"> <li>Registrations open in early October 2023</li> <li>Exact date announced on the EUROSPINE website, through newsletters and social media</li> <li>Participants can now register and save their place for Basic and Advanced modules</li> <li>Further details and preliminary programmes are shared on the EUROSPINE website</li> </ul>	<p><b>PART 1 - E-LEARNING</b></p> <ul style="list-style-type: none"> <li>Enrolment of participants to the EUROSPINE Learning Management System (LMS) by the Education team</li> <li>Self-paced completion of the module/s by participants</li> <li>Assessment: MCQs that must be passed with a minimum of 70% + CME evaluation</li> <li>Mode of study: online/distance learning through the LMS                             <ul style="list-style-type: none"> <li><b>NO physical presence required</b></li> </ul> </li> </ul>	<p><b>PART 2 - LIVE SESSIONS</b></p> <ul style="list-style-type: none"> <li>Live sessions take place at <b>IRCAD</b> in Strasbourg/France</li> <li>Live sessions include, lectures, case based discussions, workshops, group work (and CadLabs/SkillsLabs for designated modules)</li> <li>Participants arrange their own travel/accommodation to/in Strasbourg/France to take part in the modules</li> <li>Assessment: CME evaluations                             <ul style="list-style-type: none"> <li>Modules 1-5: after completion of part 2+3</li> <li>Module 6: after completion of part 2</li> </ul> </li> <li>Mode of study: <b>in-person, physical presence required</b></li> </ul>	<p><b>PART 3 - VIRTUAL LIVE SESSION</b></p> <ul style="list-style-type: none"> <li>Bring Your Own Case (BYOC) for Modules 1-5 only</li> <li>Participants submit a case prior to the session.</li> <li>Module faculty choose three case that are discussed in breakout groups and facilitated by faculty members.</li> <li>Assessment: CME evaluation after completion of part 2+3</li> <li>Mode of study: <b>online live via Zoom</b> <ul style="list-style-type: none"> <li><b>NO physical presence required</b></li> </ul> </li> </ul> <p style="text-align: center; background-color: #008080; color: white; padding: 5px;"><b>NEW in 2024</b></p>

## Quick Facts

<b>DATES &amp; TIMES</b>	<b><u>Live session</u></b> Group 1: 24 June 2024 (13:00-17:15 CEST) Group 2: 25 June 2024 (08:00-12:15 CEST)
	<b><u>Virtual live session</u></b> Group 1 and 2: 04 September 2024 (17:00-18:30 CEST)
<b>LIVE SESSION VENUE</b>	IRCAD, 1 Place de l'Hôpital, 67000 Strasbourg, FRANCE
<b>MAX. ATTENDEES</b>	40 delegates (per group)
<b>REGISTRATON 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 5,5 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 live session accreditation is pending.</p>
<b>LANGUAGE</b>	English
<b>DRESS CODE</b>	Smart casual
<b>E-LEARNING</b>	A computer (Mac/PC) or tablet (Android/Mac) and stable internet connection are required to access the e-learning content.
	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>

A module is only deemed as complete when participants have met **ALL** of the following conditions:

### MODULE COMPLETION

- 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 (!)

- 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 2024)

Time Duration	Topic	Faculty
<b>Vertebral Osteomyelitis</b>		
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	
<b>Metabolic Bone Disease</b>		
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	
<b>Rheumatoid Arthritis (RA) And Ankylosing Spondylitis (AS)</b>		
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	
<b>Tumours of the Axial Skeleton</b>		
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 24 June 2024	
13:00–15:10	Cases
15:10 –15:25	Coffee break
15:25 –17:15	Cases
<b>17:15</b>	<b>End Group 1</b>

Group 2 25 June 2025	
08:00 –10:10	Cases
10:10 –10:25	Coffee break
10:25 –12:15	Cases
<b>12:15</b>	<b>End Group 2</b>

Case Based Discussions			
Topic List Group 1 and 2	Case presenter	Moderator	Expert opinion
Introduction	Tessitore/Reynolds	-	-
Vertebral osteomyelitis	Tessitore	Netzer	De Boer
Osteopenia	Gessler	Tessitore	Netzer
Rheumatoid arthritis	Netzer	Gessler	Tessitore
Osteosarcoma	Reynolds	De Boer	Reynolds
Transoral surgery	de Boer	Reynolds	Gessler
<b>END OF LIVE SESSION</b>			

## PART 3 - Virtual Live Session

### Bring Your Own Case (BYOC)

04 September 2024 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
<b>END OF MODULE</b>	

## 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-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