

**Madrid, Spain**  
18-19 November 2022



**SPPCV**  
SOCIEDADE  
PORTUGUESA  
DE PATOLOGIA  
DA COLUNA  
VERTEBRAL

# Spanish & Portuguese Spine Societies Course Diploma

## Module 5

# Tumours & Inflammatory Diseases of the Spine

**PROGRAMME**

Application for  
accreditation of continuing  
medical education



## QUICK FACTS

### WHEN:

18-19 November 2022

### WHERE:

**Madrid. Spain**

#### Course Venue:

Hotel AC La Finca  
Pº del Club Deportivo, 1. Ed. 17  
Parque empresarial La Finca  
Pozuelo de Alarcón, 28223 Madrid

#### Cad-Lab Workshops:

Universidad Francisco de Vitoria  
Carretera Pozuelo a Majadahonda, Km 1.800  
Pozuelo de Alarcón, 28223 Madrid

### REGISTRATION FEE:

**800 € for Members\***

**1000 € for Non Members**

\*Discounts for GEER and SPPCV members are available.

### MAXIMUM ATTENDEES:

30 delegates

### CME CREDITS:

Application for accreditation of continuing medical education

### LANGUAGE:

English, Spanish and Portuguese (*The speaking is in Spanish or Portugues, but the slides are in English, live discussions are also in Spanish-Portuguese without translation available*)

### DRESS:

Casual

### IMPORTANT NOTE:

- Attendance at every session is mandatory
- A wireless Internet device (mobile phone/lpad/ Computer) will be required to access on-line resources during the programme, please bring one with you

## COURSE CHAIRMEN

- **Luis Álvarez Galovich.** Spain
- **Jorge Alves.** Portugal

## CAD LAB CHAIRMEN

- **Antonio Martín Benlloch.** Spain
- **Simón Fuentes Caparrós.** Spain

## COURSE FACULTY

- Luis Álvarez Galovich
- Jorge Alves
- Nelson Carvalho
- Ángel Escámez Pérez
- Pedro Fernandes
- Simón Fuentes Caparrós
- Miguel Ángel Marín Luján
- Antonio Martín Benlloch
- Miguel Menéndez García
- Ángel Piñera Parrilla
- Ricardo Rodrigues-Pinto
- José Miguel Sánchez Márquez

## TARGET AUDIENCE

Senior trainees and trained surgeons, who are planning a career in spinal surgery

**FACE-TO-FACE MODULE**

**LEARNING OUTCOMES  
SESSION 1  
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 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

**CASE DISCUSSION**

## LEARNING OUTCOMES SESSION 2 METABOLIC BONE DISEASES

### BONE DISORDERS

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

### OSTEOPOROSIS

- Outline the etiology 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

### CASE DISCUSSION

## LEARNING OUTCOMES SESSION 3 CADAVER LABS

### POSTERIOR CERVICAL

- Approach the posterior cervical spine
- Identify anatomical landmarks of the occipito-cervical region
- Anticipate risks and pitfalls
- Perform lateral mass screw fixation
- Perform lamina hook fixation
- Perform C1-C2 screw osteosynthesis (Harms or Magerl)
- Insert an occipital plate

### VBR: VERTEBRAL BODY REPLACEMENT (THORACIC SPINE & THORACO-LUMBAR JUNCTION)

- Approach to the anterior thoracic and thoraco-lumbar spine
- Describe the relationship between large vessels and spine
- Elevate diaphragm
- Prepare rib for strut graft
- Perform discectomy
- Perform corpectomy
- Place rib strut graft
- Place corpectomy cage

## LEARNING OUTCOMES SESSION 4

### 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

#### CASE DISCUSSION

## LEARNING OUTCOMES SESSION 5

### 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

#### CASE DISCUSSION

# Scientific Programme

Chairmen: Luis Álvarez Galovich & Jorge Alves

Chairmen CAD LAB: Antonio Martín Benloch & Simón Fuentes Caparrós

Course attendance is mandatory

**FRIDAY, 18 NOVEMBER**

TIME	TOPIC	FACULTY
07:30-08:00	Course Registration	
08:00-08:10	Introduction	Luis Álvarez Galovich
<b>SESSION 1: VERTEBRAL OSTEOMYELITIS</b>		
08:10-08:30	Vertebral osteomyelitis. Etiology, Pathogenesis, Symptoms and Diagnosis	Nelson Carvalho
08:30-08:50	Conservative Treatment	Miguel Menéndez García
08:50-09:10	Vertebral osteomyelitis. Indications for Surgical Decompression and Instrumentation	Miguel Menéndez García
09:10-10:00	Case Discussion on Vertebral Osteomyelitis	Moderator / Case: Nelson Carvalho
10:00-10:30	<b>Coffee Break</b>	
<b>SESSION 2: METABOLIC BONE DISEASE</b>		
10:30-10:50	Bone Disorders	Ángel Piñera Parrilla
10:50-11:10	Osteoporosis (Etiology, Diagnosis, Drug Therapy)	Pedro Fernandes
11:10-11:30	Surgical Considerations in Disorders of the Bone	Ángel Piñera Parrilla
11:30-12:10	Case on Metabolic Bone Disorder	Moderator: Dr. Pedro Fernandes Case: Ángel Escámez Pérez
12:10-12:50	Cadaver Lab Discussion	All Faculty
12:50-13:50	<b>Lunch</b>	
13:50-14:20	Shuttle bus service to Universidad Francisco de Vitoria	
<b>SESSION 3: CADAVER LABS</b>		
14:20-14:30	Go to the Lab	
14:30-16:15	Group A Posterior Cervical	All Faculty
14:30-16:15	Group B VBR	All Faculty
16:15-16:45	<b>Coffee Break</b>	
16:45-18:30	Group B Posterior Cervical	All Faculty
16:45-18:30	Group A VBR	All Faculty

**END OF DAY 1**

Course attendance is mandatory

**DAY 2. SATURDAY, 19 NOVEMBER**

TIME	TOPIC	FACULTY
07:30-08:00	<b>Coffee and Attendance Signature</b>	
<b>SESSION 4: RHEUMATOID ARTHRITIS (RA) AND ANKYLOSING SPONDYLITIS (AS)</b>		
08:00-08:30	Rheumatoid Arthritis	Jorge Alves
08:30-09:00	Etiology, Pathogenesis, Symptoms, Diagnosis of AS	Ángel Piñera Parrilla
09:00-09:30	Stabilizing & Corrective Surgery of the TL Spine in AS	José Miguel Sánchez Márquez
09:30-10:00	Diagnosis & Treatment of the Occipito-Atlantoaxial Complex in RA	Jorge Alves
10:00-11:00	Case Discussion on RA	Moderator: Ángel Escámez Pérez Case: Jorge Alves
11:00-11:20	<b>Coffee Break</b>	
<b>SESSION 5: TUMOURS OF THE AXIAL SKELETON</b>		
11:20-11:50	Bening Tumours of the Spine	Miguel Ángel Marín Luján
11:50-12:20	Primary Malignant Tumours of the Spine	Antonio Martín Benlloch
12:20-12:50	Secondary Malignant Tumours Diagnosis and Management	Simón Fuentes Caparrós
12:50-13:20	Complications and Quality of Life Evaluation	Antonio Martín Benlloch
13:20-14:20	Case Discussion on Tumours	Moderator: Ricardo Rodrigues-Pinto Case: Antonio Martín Benlloch
14:20-14:50	Conclusions, Diploma and Mandatory Course Evaluation	Luis Álvarez Galovich
14:50	<b>Lunch</b>	

**END OF MODULE 5**



# 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: Etiology, 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 (Etiology, 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

# Notes

Lined area for taking notes, consisting of multiple horizontal dotted lines.



# Sponsors

## Course Organisation



### Sociedad Española de Columna Vertebral

Av. García Lorca s/n. Edf. Club Municipal de Hielo

29630 Benalmádena. Málaga. Spain

Contacts: Mari Cruz Berruezo; Silvia Núñez

E-mail: [secretaria@secolumnavertebral.org](mailto:secretaria@secolumnavertebral.org)

Phone: +34 95 244 55 86

[www.secolumnavertebral.org](http://www.secolumnavertebral.org)



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### Sociedade Portuguesa de Patologia da Coluna Vertebral

Escritório nº E03 Estrada de São Bartolomeu, 169

1750-276 Lisboa, Portugal

Contact: Cristiana Mota

[sppcv\\_secretariado@yahoo.com](mailto:sppcv_secretariado@yahoo.com)

[www.sppcv.org](http://www.sppcv.org)