

Spanish & Portuguese
Spine Societies

COURSE DIPLOMA
2026

Module 4
Trauma

Organized by:



SPPCV
SOCIEDADE
PORTUGUESA
DE PATOLOGIA
DA COLUNA
VERTEBRAL

GEER 
SPANISH SPINE SOCIETY

When:
30 June & 1 July // 2026

Where :
Lisbon - Portugal



SPPCV
SOCIEDADE
PORTUGUESA
DE PATOLOGIA
DA COLUNA
VERTEBRAL

Quick Facts

When

30 June & 1 July 2026

Where

NOVA Medical School
Advanced Education / Campus de Carcavelos
R. Luanda 166, Parede

Maximum Attendees

30 delegates

Registration Fee

SPPCV/ GEER Members : 800€
Non Members: 1.000€

CME Credits

An application for accreditation has been submitted to the EACCME

Language

English

Dress

Casual

E-Learning

A computer (Mac/PC) or tablet (Android/Mac) and stable internet connection are required to access the e-learning content.

In preparation for the virtual live session, the mandatory self-paced e-learning component will be available from 1 June 2026 on the SPPCV Moodle page. **This component must be completed before the on-site session.**

Module Completion

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

- Passed the e-learning component with at least 70% AND
- Attended the live session AND
- Submitted the course evaluations for the e-learning and the live session component

Important Note

- Completion of eLearning component is mandatory
- Attendance of the live session is mandatory

Target Audience

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

Learning Outcomes

Module 4

Trauma

1. Select and interpret appropriate x-ray, computed tomography scan (CT) and magnetic resonance imaging (MRI) in spinal trauma
2. Classify fractures of cervical vertebrae (C0-C2), subaxial cervical spine (C-spine), thoracolumbar spine (TL-spine) and sacrum
3. Compare surgical and conservative treatment methods at different levels, including C0-C2, subaxial C-spine, TL-spine, and sacrum
4. Define special features of conditions including ankylosing spondylitis (AS), osteoporosis and trauma of the immature spine
5. Plan how to prevent complications in spinal trauma
6. Describe characteristics of spinal shock and spinal cord injury syndromesp

Trauma Of C-Spine, TL-Spine & Sacrumin

1. Imaging of Cervical Trauma

- Select appropriate imaging for suspected cervical spinal injury
- Evaluate options for x-ray views
- Select CT and/or MRI as appropriate
- Differentiate between requirements following major and minor cervical spine trauma

2. Trauma of C0-C2: Classification & Management

- Define the role of ligaments in cervical spine stability
- Classify and relate to treatment
 - Occipital condyle fractures
 - Occipito-cervical dislocation
 - Occipito-atlantal dislocation
 - Axial atlanto-axial instability
 - Atlas (C1) fracture
 - Axis (C2) fracture
 - Traumatic spondylolisthesis C2

3. Imaging of Thoracic/Thoracolumbar Trauma

- Use the AO classification
- Select appropriate imaging for major and minor trauma
- Assess x-ray images
- Define the indications of CT and MRI as appropriate
- Identify specific conditions with compromised spinal function

4. Classification and Management of TL Trauma

- Recognise the signs and symptoms of TL spine trauma
- Differentiate Denis, AO and Thoraco-Lumbar Injury Classification and Severity Score (TLICS) classifications
- Explain the role of Posterior Ligamentous Complex (PLC) injuries for burst fractures
- Evaluate surgical techniques in:
 - Anterior surgery including MIS techniques
 - Posterior surgery including MIS techniques

5. Sacral Fractures: Classification & Management

- Describe the relevant anatomy
- Differentiate sacral fracture types
- Use the AO classification
- Recognize signs and symptoms of sacral fractures
- Compare surgical vs conservative treatment
- Evaluate surgical options

Post-Traumatic Kyphosis, Metabolic Spine Diseases, Paediatric Trauma & Spinal Cord Injury

1. Trauma of Spine with Ankylosing Spondylitis (AS): Features & Management

- Explain the aetiology of AS
- Define the role of the spine surgeon in AS
- Formulate a surgical management plan for AS fractures
- Anticipate difficulties in this patient population
- Explain what kind of imaging is mandatory and why

2. Osteoporotic Fractures: Diagnosis & Management

- Define osteoporosis
- Describe medical management of osteoporosis
- Summarize the diagnosis of osteoporotic fractures
- Use the AOSpine osteoporotic fracture classification
- Evaluate surgical options
- Outline the indications for vertebral augmentation procedures
- Outline indications for spinal instrumentation±Vertebral Body Replacement (VBR)

3. Paediatric Spinal Trauma: Features & Management

- Outline features of the immature cervical and thoracolumbar spine
- Define Spinal cord injury without radiographic abnormality (SCIWORA)/ Cervicothoracic Spinal Cord Injury Without Radiographic Evidence of Trauma (SCIWORET)
- Explain the mechanism of:
 - C-spine injury
 - Lumbar apophyseal injuries
 - Plan appropriate investigations and management of injuries

4. Prevention and Management of Post-traumatic Kyphosis

- Discuss the reasons of post traumatic kyphosis
- Formulate therapeutic goals
- Explain how to restore sagittal balance
- Evaluate surgical options
- Justify a multidisciplinary team approach

5. Spinal Shock and Incomplete SCI Syndromes

- Explain spinal shock and its pathomechanism
- Define the different types of incomplete spinal cord injury
- Classify SCI by using the ASIA impairment scale and explain its clinical and surgical relevance
- Describe the clinical symptoms and pathomechanism of Central Cord Syndrome
- Discuss the importance of timing of surgery
- Explain why there is no role for methylprednisolone in SCI (NASCIS I-III)

Cadaver LAB

- 1. Thoracolumbar lateral corpectomy + lateral percutaneous instrumentation (single position surgery)**
 - Correct patient positioning and radiological landmarks
 - Rib resection and retropleural approach to the thoracolumbar spine
 - Corpectomy and cage implantation
 - Percutaneous instrumentation of the thoracolumbar spine in the lateral position using the C-arm
- 2. Thoracic corpectomy (posterior approach) with instrumentation**
 - Correct patient positioning and radiological landmarks
 - Open spine exposure and free-hand instrumentation
 - Costotransversectomy and lateral corpectomy
 - Cage implantation

Module Chair

Ricardo Rodrigues-Pinto *PORTUGAL*

Antonia Matamalas *SPAIN*

Module Faculty:

Antonia Matamalas *SPAIN*

Bruno Santiago *PORTUGAL*

Carla Reizinho *PORTUGAL*

Joan Escala Arnau *SPAIN*

Jorge Alves *PORTUGAL*

Juan F. Blanco Blanco *SPAIN*

Maia Gonçalves *PORTUGAL*

Nelson Carvalho *PORTUGAL*

Neus Anglada *SPAIN*

Nicolas Plais *SPAIN*

Pedro Varanda *PORTUGAL*

Ricardo Rodrigues-Pinto *PORTUGAL*

Rui Duarte *PORTUGAL*

Tavares Matos *PORTUGAL*

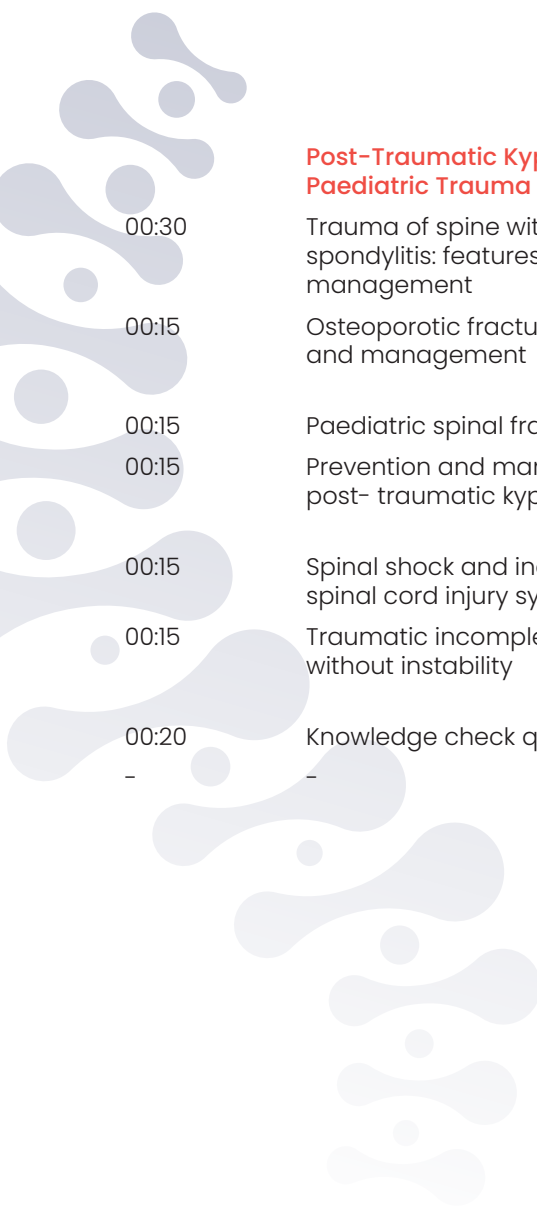
Teresa Bas *SPAIN*

Vítor Castro *PORTUGAL*

Scientific Programme

Module 4 - Trauma

Time	Topic	Faculty
-	-	-
E-LEARNING PROGRAMME		
-	-	-
Trauma of C-spine, TL-spine & Sacrum		
00:20	Imaging of cervical trauma	Neus Anglada
00:30	Trauma of CO-C2: Classification and management	Bruno Santiago
00:10	Lower cervical spine injuries	Joan S. Escala Arnau
00:20	Imaging of thoracic/ thoracolumbar trauma	Nicolas Plais
00:15	Classification and management of TL trauma	Pedro Varanda
00:15	Sacral fractures: classification and management	Jorge Alves
00:20	Knowledge check questions	-
-	-	-



Post-Traumatic Kyphosis, Metabolic Spine Diseases, Paediatric Trauma & Spinal Cord Injury

00:30	Trauma of spine with ankylosing spondylitis: features & management	Juan F. Blanco
00:15	Osteoporotic fractures: diagnosis and management	João Pedro Maia Gonçalves
00:15	Paediatric spinal fractures	Teresa Bas
00:15	Prevention and management of post- traumatic kyphosis	Manuel Tavares de Matos
00:15	Spinal shock and incomplete spinal cord injury syndromes	Carla Reizinho
00:15	Traumatic incomplete tetraplegia without instability	Ricardo Rodrigues-Pinto
00:20	Knowledge check questions	-

Day 1 – Tuesday, 30 June 2026

PRESENTIAL

Time	Topic	Faculty
------	-------	---------

-	-	-
---	---	---

Time	Topic	Faculty
------	-------	---------

-	-	-
---	---	---

Cadaver Lab Workshops

14:00	Preparation for CadLab workshop	
-------	---------------------------------	--

14:30	Group 1: Thoracolumbar lateral corpectomy + lateral percutaneous instrumentation (single position surgery)	All Faculty
-------	---	-------------

	Group 2: Thoracic corpectomy (posterior approach) with instrumentation	All Faculty
--	---	-------------

-	-	-
---	---	---

Coffee Break 30 mins.

-	-	-
---	---	---

17:00	Group 1: Thoracic corpectomy (posterior approach) with instrumentation	All Faculty
-------	---	-------------

	Group 2: Thoracolumbar lateral corpectomy + lateral percutaneous instrumentation	
--	---	--

19:00	End of Day 1	
-------	---------------------	--

Course Attendance is Mandatory

Day 2 – Wednesday, 1 July 2026

PRESENTIAL

Time	Topic	Faculty
------	-------	---------

PRESENTIAL

-	-	-
08:00	Course Registration and Welcome Coffee	-
-	-	-
Case Based Discussion		
08:30	Introduction	Ricardo Rodrigues-Pinto
08:40	Subaxial C-Spine Fracture – Case 1	Vitor Castro
09:00	Subaxial C-Spine Fracture – Case 2	Antonia Matamalas
09:20	Upper C-Spine injury – Case 1	Ricardo Rodrigues-Pinto
09:40	Upper C-Spine injury – Case 2	Antonia Matamalas
10:00	Sacral fracture with Spino-pelvic dissociation – Case	Rui Duarte
-	-	-
Coffee Break 30 mins		
-	-	-
10:50	Fractures in the spondylitic spine	Antonia Matamalas
11:10	Osteoporotic Vertebral Compression Fracture (OVCF)	Tavares de Matos
11:30	Post-traumatic kyphosis	Antonia Matamalas
11:50	Traumatic incomplete tetraplegia without instability	Ricardo Rodrigues-Pinto
-	-	-
12:10	End of Module 4	

Course Attendance is Mandatory

Recommended Reading

Part IV Basic Module 4:

- Spinal Fractures.
B. Meyer and M. Rauschmann (Eds.)
- Spine Surgery: A Case-Based Approach.
Switzerland: Springer.
- **M. Scholz and F. Kandziora. (2019).**
Epidemiology & Classification. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 223-232). Switzerland: Springer.
- **P. Schleicher and F. Kandziora. (2019).**
Pre-Hospital Management, Physical Examination & Polytrauma Management. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 233-242). Switzerland: Springer.
- **S. Krieg. (2019).**
Spinal Cord Injury. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 243-253). Switzerland: Springer.
- **Y. Ryang. (2019).**
Upper Cervical Spine Trauma. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 253-268). Switzerland: Springer.
- **R. Maduri and J. Duff. (2019).**
Subaxial Cervical Trauma. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 269-274). Switzerland: Springer.
- **E. Kiter and N. Ok. (2019).**
Management Criteria for Thoracic, Thoracolumbar and Lumbar Fractures. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 275-280). Switzerland: Springer.
- **Y-P. Charles. (2019).**
Posterior Surgical Management of Thoracic and Lumbar Fractures. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 281-288). Switzerland: Springer.
- **J. Castein and F. Kandziora. (2019).**
Anterior Surgical Management of Thoracic and Lumbar Fractures.

B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 289-298). Switzerland: Springer.

- **U. Yildiz and F. Kandziora. (2019).**

Sacral Fractures. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 299-308). Switzerland: Springer.

- **M. Wostrack and B. Meyer (2019).**

Spine Injuries in the Elderly. B. Meyer and M. Rauschmann

(Eds.), Spine Surgery A Case-Based Approach (pp. 309-318). Switzerland: Springer.

- **D. Rothenfluh and D. Kieser. (2019).**

Spinal Trauma in Patients with Ankylosing Spinal Conditions. B. Meyer and M. Rauschmann (Eds.), Spine Surgery A Case-Based Approach (pp. 319-325). Switzerland: Springer.

Contacts

Course Organisation

SPPCV Sociedade Portuguesa de Patologia da Coluna Vertebral

Portuguese Spine Society

www.sppcv.org

Cristiana Mota

sppcv_secretariado@yahoo.com

T: +351 96 253 9452

GEER Sociedad Española de Columna Vertebral

Spanish Spine Society

www.secolumnavertebral.org

-

Mari Cruz Berruezo / Silvia Núñez
secretaria@secolumnavertebral.org

T. +34 95 244 5586

**Thank you
for your participation**

**Spanish & Portuguese
Spine Societies**

COURSE DIPLOMA

2026

Module 4

Trauma



SPPCV
SOCIEDADE
PORTUGUESA
DE PATOLOGIA
DA COLUMNA
VERTEBRAL

GEER 
SPANISH SPINE SOCIETY