



Hellenic
Spine
Society

Diploma of the Hellenic Spine Society

(equivalent to the Eurospine Diploma)

MODULE 4: TRAUMA

30 MAY 2026

**Athens Medical Group Amphitheater
Kefalari Square, Athens, Greece**



ΟΜΙΛΟΣ ΙΑΤΡΙΚΟΥ
ΑΘΗΝΩΝ

Πάντα ένα βήμα μπροστά!

The Panhellenic Medical Association will grant credit points
of Continuing Medical Education (ECMECs)

Course Manager

Ioannis Magras

Professor of Neurosurgery

SCIENTIFIC PROGRAMME

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SECRETARIAT



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COURSE MANAGER Ioannis Magras
COURSE CHAIR Parmenion Tsitsopoulos

FACULTY

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Stavridis Stavros
Tsitsopoulos Parmenion

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LEARNING OUTCOMES

MODULE 4

1. Select & interpret appropriate x-ray, CT and MRI in spinal trauma
2. Classify fractures of C0-2, subaxial C-spine, TL-spine and sacrum
3. Compare surgical and conservative treatment methods at different levels, including C0-2, subaxial C, TL and sacrum
4. Define special features of conditions including 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 syndromes

DETAILED LEARNING OUTCOMES:

SESSION 1 - TRAUMA CERVICAL SPINE

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

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

Trauma of Subaxial C- Spine:

Classification & Management

- Estimate the incidence of and classify using the AO classification
- Use other classifications to determine treatment and prognosis
- Anticipate diagnostic pitfalls
- Evaluate non-surgical management options and when appropriate
- Recognise indications for surgical management
- Emergency
- Urgent
- Elective
- Justify different surgical approaches (anterior vs posterior, combined ant-post or post - ant)

SESSION 2 - TRAUMA THORACOLUMBAR SPINE

Imaging of Thoracic/Thoracolumbar Trauma

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

Trauma of TL spine: classification & management

- Recognise the signs and symptoms of TL spine trauma
- Differentiate Denis, AO and TLICS classifications
- Explain the role of PLC for burst fractures, hematological, nutritional and metabolic
- Evaluate surgical techniques

Sacral and spinopelvic Fractures: classification & management

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

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Trauma of Spine with Ankylosing Spondylitis and DISH: features & management

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

Osteoporotic Fractures: Classification & Management

- Define osteoporosis
- Describe medical management of osteoporosis
- Summarize the diagnosis of osteoporotic fractures
- Use the AO Spine osteoporotic fracture classification systems
- Evaluate surgical options
- Outline the indications for vertebral augmentation procedures
- Outline indications for spinal instrumentation ± VBR

SESSION 3 - PAEDIATRIC TRAUMA AND SCI TOPICS

Paediatric Spinal Trauma: features & management

- Outline features of the immature cervical and thoracolumbar spine
- Define SCIWORA/SCIWORET
- Explain mechanism of:
 - o C-spine injury
 - o Lumbar apophyseal injuries
- Plan appropriate investigations and management of injuries

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 for surgery
- Explain the possible role of methylprednisolone in SCI

Biomaterials in Spine Surgery

- Evaluate different biomaterial options in spine surgery
- Evaluate the options for cement stabilisation
- Explain the mechanical behaviour of calcium phosphate and BMP

SESSION 4 - POST-TRAUMATIC KYPHOSIS

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

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SCIENTIFIC PROGRAMME

Module 4: Trauma

Saturday, 30 May 2026

| | |
|---------------|---|
| 08:30 - 09:00 | Course Registration & Welcome Coffee |
| 09:00 - 10:30 | Session 1: Trauma in the Cervical Spine |
| 09:00 - 09:10 | Introduction J. Magras, P. Tsitsopoulos |
| 09:10 - 09:30 | Imaging of Cervical Trauma A. Karantanas |
| 09:30 - 09:50 | Trauma of CO-C2: Classification & Management D. Bouramas |
| 09:50 - 10:10 | Trauma of Subaxial C-Spine: Classification & Management A. Athanasiou |
| 10:10 - 10:30 | Case Discussion Faculty |
| 10:30 - 11:00 | Coffee Break |
| 11:00 - 13:00 | Session 2: Trauma in the Thoracolumbar Spine and Spinopelvic Area |
| 11:00 - 11:20 | Imaging of Thoracic/Thoracolumbar Trauma A. Karantanas |
| 11:20 - 11:40 | Trauma of TL Spine: Classification and management N. Mazarakis |
| 11:40 - 12:00 | Sacropelvic Fractures: Classification & Management F. Nikolopoulos |
| 12:00 - 12:15 | Trauma of Spine with Ankylosing Spondylitis & DISH: Features & Management P. Tsitsopoulos |
| 12:15 - 12:30 | Osteoporotic Fractures: Diagnosis & Management S. Stavridis |
| 12:30 - 13:00 | Case Discussion Faculty |
| 13:00 - 13:30 | Hands-on Session |
| 13:30 - 14:30 | Lunch Break (continued hands-on) |

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14:30 - 16:20 **Session 3: Paediatric Trauma and SCI Topics**

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|---------------|--|
| 14:30 - 14:45 | Pediatric Spinal Trauma: Features & Management N. Mazarakis |
| 14:45 - 15:00 | Spinal Shock & Incomplete Spinal Cord Injury Syndromes P. Tsitsopoulos |
| 15:00 - 15:20 | Biomaterials in Spine Surgery A. Brotis |
| 15:20 - 15:50 | Case Discussion Faculty |
| 15:50 - 16:20 | Coffee Break |

16:20 - 17:00 **Session 4: Post-Traumatic Kyphosis**

| | |
|---------------|---|
| 16:20 - 16:40 | Management of Post-Traumatic Kyphosis N. Paidakakos |
| 16:40 - 17:00 | Case Discussion Faculty |
| 17:00 - 17:10 | Closing remarks J. Magras, P. Tsitsopoulos |
| 17:10 | End of course |

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GENERAL INFORMATION

Module

Module 4: Trauma

Registration Fee

Module 4: 400 euros

Module 3 and 4: 700 euros

Date

30 May 2026

Official Language

English

Accreditation

The Panhellenic Medical Association grants credit points of Continuing Medical Education (ECMECs)

Venue

Athens Medical Group Amphitheater
Kefalari Square, Athens, Greece

Organization

Hellenic Spine Society

Course Secretariat



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NOTES

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