



Hellenic
Spine
Society

Diploma of the Hellenic Spine Society

(equivalent to the Eurospine Diploma)

MODULE 4: TRAUMA

3 December 2022



Centre for Dissemination of Research Results
of Aristotle University of Thessaloniki (KE.D.E.A.)
A.U.TH., Thessaloniki, Greece

The Panhellenic Medical Association will grant credit points
of Continuing Medical Education (CME-CPD)

Course Manager

Ioannis Magras

Professor of Neurosurgery

SCIENTIFIC PROGRAMME

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Ioannis Magras
Professor of Neurosurgery

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FACULTY

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FACULTY

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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
- 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

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 in:
- Anterior surgery including MIS techniques
- Posterior surgery including MIS techniques

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

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

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

Osteoporotic Fractures: Classification & Management (Case based Presentation).

- Define osteoporosis
- Describe medical management of osteoporosis
- Summarize the diagnosis of osteoporotic fractures
- Use the AO Spine osteoporotic fracture classification
- 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:
 - C-spine injury
 - 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 of surgery
- Explain why there is no role for methylprednisolone in SCI (NASCIS I-III)

Biomaterials in Spine Surgery

- Evaluate different biomaterial options in spine surgery
- Differentiate between Calcium-phosphate/ Hydroxyapatite act osteoconductive, whereas Bone Morphogenetic Proteins act osteoinductive
- 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, 3 December 2022

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|---------------|---|
| 08:30 - 09:00 | Course Registration & Welcome Coffee |
| 09:00 - 10:30 | Session 1: Trauma Cervical Spine |
| 09:00 - 09:10 | Introduction Frank Kandziora, Stavros Stavridis |
| 09:10 - 09:30 | Imaging of Cervical Trauma Apostolos Karantanas |
| 09:30 - 10:00 | Trauma of CO-C2: Classification & Management (Case based Presentation) Dimos Bouramas |
| 10:00 - 10:30 | Trauma of Subaxial C-Spine: Classification & Management (Case based Presentation) Alkinoos Athanasiou |
| 10:30 - 11:00 | Coffee Break |
| 11:00 - 13:30 | Session 2: Trauma Thoracolumbar Spine |
| 11:00 - 11:20 | Imaging of Thoracic/Thoracolumbar Trauma Apostolos Karantanas |
| 11:20 - 11:50 | Trauma of TL Spine: Classification and management (Case based Presentation) Konstantinos Paterakis |
| 11:50 - 12:10 | Sacral Fractures: Classification & Management (Case based Presentation) Thomas Apostolou |
| 12:10 - 12:40 | Trauma of Spine with Ankylosing Spondylitis & DISH: Features & Management (Case based Presentation) Frank Kandziora |
| 12:40 - 13:00 | Osteoporotic Fractures: Classification & Management (Case based Presentation) Stavros Stavridis |
| 13:00 - 13:30 | Discussion |
| 13:30 - 14:30 | Lunch Break |

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| 14:30 - 16:00 | Session 3: Paediatric Trauma and SCI Topics |
| 14:30 - 14:50 | Pediatric Spinal Trauma: Features & Management (Case based Presentation) Arion Kapinas |
| 14:50 - 15:10 | Spinal Shock & Incomplete Spinal Cord Injury Syndromes Parmenion Tsitsopoulos |
| 15:10 - 15:30 | Biomaterials in Spine Surgery Alexandros Brotis |
| 15:30 - 16:00 | Participant case presentation |
| 16:00 - 16:30 | Coffee Break |
| <hr/> | |
| 16:30 - 17:35 | Session 4: Post-Traumatic Kyphosis |
| 16:30 - 17:00 | Management of Post-Traumatic Kyphosis (Case based Presentation) Frank Kandziora |
| 17:00 - 17:30 | Case Discussion Frank Kandziora |
| 17:30 - 17:35 | Closing remarks |
| 17:35 | End of course |

ΙΑΤΡΙΚΗ ΠΡΟΟΠΤΙΚΗ

ΧΕΙΡΟΥΡΓΙΚΑ ΕΡΓΑΛΕΙΑ ΠΟΙΟΤΗΤΑΣ

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GENERAL INFORMATION

Module

Module 4: TRAUMA

Registration Fee

Module 4: 300 euros

Module 1 and 4: 500 euros

Date

3 December 2022

Official Language

English

Accreditation

The Panhellenic Medical Association grants 14 credit points of Continuing Medical Education (CME-CPD)

Venue

Centre for Dissemination of Research Results
of Aristotle University of Thessaloniki (KE.D.E.A) A.U.TH.
Thessaloniki, Greece

Organization

Hellenic Spine Society

Course Secretariat



Premium Congress & Social Events Solutions

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2010 - 2021

During a difficult period for our country
Athens Medical Group offered its support
 with a great sense of responsibility



€900 M
 payroll expenses

€245 M
 foreign currency inflow generated from international patients

€350 M
 payments to insurance funds

€630 M
 supplies from Greek companies

€250 M
 payments to the Greek Public Sector

€100 M
 investments

8 M citizens trusted their health to us

8 K fellow citizens have received health services in special rates, or for free

500 K residents of remote areas have used our telemedicine Vodafone services

40 NGO's, institutions and medical adoption of border areas (e.g. Evros) were included in our CSR program

6 K employees and healthcare professionals

20 international accreditations according to the highest standards





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NOTES

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