



Hellenic
Spine
Society

Diploma of the Hellenic Spine Society

(equivalent to the Eurospine Diploma)

MODULE 3: SPINAL DEFORMITIES

29 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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Associate Professor of Neurosurgery

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COURSE MANAGER Ioannis Magras

COURSE CHAIRS Athanasios Tsirikos, Stavros Stavridis

FACULTY

Karantanas Apostolos

Karavidas Nikolaos

Mazarakis Nektarios

Pidakakos Nikolaos

Palavos Ioannis

Papadopoulos Konstantinos

Sekouris Nikolaos

Stavridis Stavros

Tsirikos Athanasios

Tsitsopoulos Parmenion

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LEARNING OUTCOMES - MODULE 3

1. Understand the aetiology and natural history of spinal deformities
2. Examine and assess the needs of a patient with spinal deformity
3. Select & interpret appropriate x-ray, CT and MRI in spinal deformity
4. Compare surgical and conservative treatment methods and evaluate their indications and limits.
5. Plan treatment of a patient with spinal deformity

DETAILED LEARNING OUTCOMES:

Session 1: Principles of spinal deformity

Aetiology & prognostic factors

- Describe the aetiology and prognostic factors associated with
 - o idiopathic scoliosis
 - o infantile idiopathic scoliosis
 - o secondary scoliosis

Clinical examination in children/adolescents with spinal deformity

- Differentiate between functional and structural deformities
- Take a structured approach to clinical evaluation
- Assess skeletal maturity
- Identify prognostic factors of progression
- Identify rotational deformity
- Perform a neurological assessment
- Explain treatment strategy to patients and their families

Imaging of Deformities

- Define the role of standard coronal and sagittal x-ray to evaluate deformity
- Define the role of bending and traction x-rays
- Differentiate between imaging in children and adults
- Minimise radiation dose to patients
- Recognise red flags, including tumours, neural tube abnormalities, connective tissue and muscular disease and their association with spinal deformity

Session 2: Conservative treatment

The role of casting and bracing

- Justify the role of casting today
- Explain the pros and cons of different types of brace treatment

The role of rehabilitation

- Formulate principles of rehabilitation in patients with spine deformity

Session 3: Principles of Surgical treatment Coronal & Sagittal Balance

- Describe the concept of sagittal balance
- Differentiate between various parameters
- Evaluate its importance in deformity treatment planning

The role of Intraoperative monitoring

- Select appropriate types of monitoring
- Differentiate between SEP and MEP
- Perform a safe and reliable wake up test
- Recognise when a wake up test is required
- Respond appropriately when monitoring indicates intervention required
- Triggered EMG pedicle screw stimulation

Bone Fusion in Spinal Deformity

- Identify factors influencing spinal fusions
- Define the roles of osteoconduction and osteoinduction factors
- Explain the physiology of bone grafting
- Outline the risk factors associated with non-union
- Categorise bone fusion and diagnose non union

The natural history of adult degenerative spinal deformity and patient selection for surgical treatment

- Describe the natural course of adult degenerative spinal deformity
- Recognize the different patient characteristics
- Understand the importance of patient selection
- Evaluate the indications of operative treatment

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Session 4: Special conditions

Congenital Spinal Cord Anomalies

- Differentiate between types of congenital spine deformity
- Link prognostic factors with appropriate type and timing of intervention
- Evaluate non operative, early and late operative treatment options

Congenital Spinal Deformities

- Relate the stages of development to deformities of the spinal cord
- Select appropriate investigations
- Evaluate treatment options

Spondylolysis/spondylolisthesis in children and adolescents

- Describe the aetiology and natural history of spondylolysis and spondylolisthesis
- Indicate the role of conservative treatment
- Select the appropriate operative treatment option

Degenerative Deformities

- Use spino-pelvic parameters to assess degenerative deformities
- Differentiate between idiopathic and degenerative (de novo) deformity
- Perform clinical evaluation of sagittal balance and stenosis
- Select appropriate investigations
- Evaluate operative and non operative options
- Consider comorbidities associated with age
- Assess patient expectation

Session 5: Techniques and strategy

Indications and limits of selective fusion in the treatment of adolescent idiopathic scoliosis

- Use classification to determine the end limits of fusion
- Define the lower and upper limit of instrumentation Coronal & Sagittal Balance
- Plan preoperative spine assessment of coronal and sagittal balance
- Explain primary factors and compensatory mechanisms
- Evaluate surgical options
- Formulate an appropriate preoperative and surgical plan

Role & Technique of Spinal Osteotomies in Deformity Treatment

- Justify the aim of osteotomy
- Differentiate between the different types of osteotomy
- Relate osteotomy type to appropriate degree of correction
- Select appropriate level

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SCIENTIFIC PROGRAMME

Module 3: Spinal Deformities

Friday, 29 May 2026

08:30 - 09:00	Course Registration & Welcome Coffee
09:00 - 10:30	Session 1: Principles of spinal deformity
09:00 - 09:20	Aetiology & prognostic factors S. Stavridis
09:20 - 09:40	Clinical examination in children/adolescents with spinal deformity A. Tsirikos
09:40 - 10:00	Imaging of Deformities A. Karantanas
10:00 - 10:30	Session 2: Conservative treatment
10:00 - 10:15	The role of casting and bracing N. Sekouris
10:15 - 10:30	The role of rehabilitation N. Karavidas
10:30 - 11:00	Coffee Break
11:10 - 13:00	Session 3: Principles of Surgical treatment
11:00 - 11:20	Coronal & Sagittal Balance I. Palavos
11:20 - 11:40	The role of Intraoperative monitoring K. Papadopoulos
11:40 - 12:00	Bone Fusion in Spinal Deformity N. Mazarakis
12:00 - 12:20	The natural history of adult degenerative spinal deformity and patient selection for surgical treatment A. Tsirikos
12:20 - 12:50	Case Discussion Faculty
12:50 - 13:30	Lunch Break

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13:30 - 15:10 Session 4: Special conditions

13:30 - 13:50 Congenital Spinal Cord Anomalies
P. Tsitsopoulos

13:50 - 14:10 Congenital Spinal Deformities
N. Sekouris

14:10 - 14:30 Spondylolysis/spondylolisthesis in children and adolescents
A. Tsirikos

14:30 - 14:50 Degenerative Deformities
N. Paidakakos

14:50 - 15:10 Case Discussion
Faculty

15:10 - 15:40 Coffee Break

15:40 - 17:00 Session 5: Techniques and strategy

15:40 - 16:00 Indications and limits of selective fusion in the treatment of adolescent idiopathic scoliosis
A. Tsirikos

16:00 - 16:20 Role & Technique of Spinal Osteotomies in Deformity Treatment
N. Paidakakos

16:20 - 16:50 Case Discussion:
Faculty

16:50 - 17:00 Closing remarks
A. Tsirikos, S. Stavridis

17:00 End of course

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GENERAL INFORMATION

Module

Module 3: Spinal Deformities

Registration Fee

Module 3: 400 euros

Module 3 and 4: 700 euros

Course Date

Friday, 29 May 2026

Course Language

English

Accreditation

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

Course venue

Athens Medical Group Amphitheater
Kefalari Square, Athens, Greece

Organization

Hellenic Spine Society

Course Secretariat



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NOTES

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