Hellenic Spine Society

Diploma of the Hellenic Spine Society

(equivalent to the Eurospine Diploma)

Module 3: Spinal Deformities

29 April 2023

Athens Medical Group Amphitheater
Kifisia, Athens

ΟΜΙΛΟΣ ΙΑΤΡΙΚΟΥ ΑΘΗΝΩΝ
Πάντα ένα βήμα μπροστά!

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

Course Manager
Ioannis Magras
Professor of Neurosurgery

www.dhss.gr

Scientific Programme

Hellenic Spine Society

Diploma of the Hellenic Spine Society

(equivalent to the Eurospine Diploma)

Module 3: Spinal Deformities

29 April 2023

Course Manager
Ioannis Magras
Professor of Neurosurgery

www.dhss.gr

FACULTY

CHAIRMAN

JC LeHuec
Korovessis Panagiotis

FACULTY

Brodis Alexandros
Hadgaonkar Shailesh
JC LeHuec
Kapinas Arion
Karantanas Apostolos
Karavidas Nikolaos
Karnezis Ioannis
Korovessis Panagiotis
Paidakakos Nikolaos
Palavos Ioannis
Papadopoulos Konstantinos
Paterakis Konstantinos
Samoladas Efthimios
Sekouris Nikolaos
Stavridis Stavros
Tsitsopoulos Parmenion
Zoumpoulis Panagiotis

Hellenic Spine Society

Diploma of the Hellenic Spine Society

(equivalent to the Eurospine Diploma)

Module 3: Spinal Deformities

29 April 2023

Course Manager

Ioannis Magras
Professor of Neurosurgery

www.dhss.gr

LEARNING OUTCOMES: SESSION 1
PRINCIPLES OF SPINAL DEFORMITY

Scoliosis: Aetiology & Prognostic Factors

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

Kyphosis

• Differentiate between the aetiology and prognostic factors associated with regular and angular kyphosis
• Evaluate management options for
o kyphosis
o kyphus

Clinical Assessment

• Differentiate between functional and structural deformities
• Take a structured approach to clinical evaluation
• Asses 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

LEARNING OUTCOMES: SESSION 2
CONSERVATIVE TREATMENT

Casting, Bracing & Role of Rehabilitation

• Justify the role of casting today
• Explain the pros and cons of different types of brace treatment
• Formulate principles of rehabilitation for patients with spine deformity
• Define the role of halo traction as definitive or interim treatment

LEARNING OUTCOMES: SESSION 3
PRINCIPLES OF SURGICAL TREATMENT

Pre-Operative Assessment: how to prepare for a complex case

• Formulate a surgical plan
• Record a comprehensive preoperative assessment
• Consider special issues including pulmonary, cardiac, hematological, nutritional and metabolic

Positioning the Patient

• Position patients safely
• Explain the rationale to other team members
• Compare the purpose of prone, lateral and supine positions

Blood Saving

• Anticipate the factors affecting blood loss
• Recognize trigger points for transfusion
• Minimise the risks of homologous transfusion
• Outline the role of erythropoietin
• Compare the pros and cons of autologous transfusion, haemodilution, hypotensive anaesthesia, anti-fibrinolytic agents, intraoperative blood salvage

Intra-Op 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.

Pedicle Screw Guidance in Deformity

• Assess appropriate placement
• Minimise the risk of misplacement
• Balance the pros and cons of spinal navigation
• Assess the advantages and disadvantages of freehand probing

Bone Fusion

• 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

Hellenic Spine Society

Diploma of the Hellenic Spine Society

(equivalent to the Eurospine Diploma)

Module 3: Spinal Deformities

29 April 2023

Course Manager

Ioannis Magras
Professor of Neurosurgery

www.dhss.gr

LEARNING OUTCOMES: SESSION 4
PRINCIPLES OF SURGICAL TREATMENT

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

Neuromuscular Scoliosis

- Describe the aetiology and prognostic factors associated with neuromuscular scoliosis
- Identify factors indicating progression or risk to neurological structures
- Evaluate management options
- Assess associated pulmonary and cardiac problems

Idiopathic Adult Deformities

- Identify common problems associated with adult deformity
- Outline the progress of scoliosis through life
- Relate appropriate monitoring strategies
- Evaluate operative and non operative options for different age groups
- Relate changes to sagittal /coronal imbalance

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

LEARNING OUTCOMES: SESSION 5
TECHNIQUES & STRATEGY

End Limits of Fusion in Idiopathic Scoliosis

- Use classification to determine the end limits of fusion (Lenke)
- 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

Technique & Strategy: posterior approach

- Formulate principles of surgical correction
- Evaluate strategic surgical options
- Recognise indications for a posterior or combined approach

Technique & Strategy: anterior approach

- Differentiate between anterior release, anterior fusion and anterior instrumentation
- Select appropriate approach for procedure
- Recognise indications for
  - o anterior approach
  - o anterior instrumentation

LEARNING OUTCOMES: SESSION 6
OSTEOTOMIES

Role & Technique of Spinal Osteotomies

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

Hellenic Spine Society

Diploma of the Hellenic Spine Society

(equivalent to the Eurospine Diploma)

Module 3: Spinal Deformities

29 April 2023

Course Manager

Ioannis Magras
Professor of Neurosurgery

www.dhss.gr

SCIENTIFIC PROGRAMME

Module 3: Spinal Deformities

Saturday, 29 April 2023

08:30 - 09:00	Course Registration & Welcome Coffee
09:00 - 10:30	**Session 1: Principles of spinal deformity**
09:00 - 09:15	Scoliosis: Aetiology & prognostic factors I. Palavos
09:15 - 09:30	Kyphosis N. Paidakakos
09:30 - 09:45	Clinical Assessment A. Kapinas
09:45 - 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 - 11:15	Coronal & Sagittal Balance. What's new? Is it really "The French Conspiracy"? JC LeHuec
11:15 - 11:30	The role of Intra-Op Monitoring K. Papadopoulos
11:30 - 11:45	The role of navigation and robotics in Spinal Deformityty I. Karnezis
11:45 - 12:00	The Challenge of Bone Fusion in Spinal Deformity A. Brodis
12:00 - 12:15	Decision making in deformity treatment. How to prepare for the complex case. E. Samoladas
12:15 - 12:30	Case Discussion E. Samoladas

Hellenic Spine Society

Diploma of the Hellenic Spine Society

(equivalent to the Eurospine Diploma)

Module 3: Spinal Deformities

29 April 2023

Course Manager

Ioannis Magras
Professor of Neurosurgery

www.dhss.gr

12:30 - 13:30	Lunch Break
13:00 - 15:00	Session 4: Principles of Surgical treatment
13:00 - 13:45	Congenital Spinal Cord Anomalies P. Tsitsopoulos
13:45 - 14:00	Congenital Spinal Deformities S. Hadgaonkar
14:00 - 14:15	Neuromuscular Scoliosis P. Korovessis
14:15 - 14:30	Idiopathic Adult Deformities P. Zoumpoulis
14:30 - 14:45	Degenerative Deformities K. Paterakis
14:45 - 15:00	Case Discussion
15:00 - 15:30	Coffee Break
15:30 - 16:15	Session 5: Technique and strategy
15:30 - 15:45	End Limits of Fusion in Idiopathic Scoliosis S. Stavridis
15:45 - 16:00	Techniques & Strategies: Posterior Approach A. Kapinas
16:00 - 16:15	Techniques & Strategies: Anterior Approach S. Stavridis
16:15 - 17:00	Session 6: Osteotomies
16:15 - 16:30	Role & Technique of Spinal Osteotomies in Deformity Treatment JC LeHuec
16:30 - 17:00	Case Discussion: JC LeHuec
17:00 - 17:05	Closing remarks P. Korovessis JC LeHuec
17:05	End of course

Hellenic Spine Society

Diploma of the Hellenic Spine Society

(equivalent to the Eurospine Diploma)

Module 3: Spinal Deformities

29 April 2023

Course Manager

Ioannis Magras
Professor of Neurosurgery

www.dhss.gr

GENERAL INFORMATION

Module
Module 3: Spinal Deformities

Registration Fee
Module 3: 350 euros
Module 2 and 3: 600 euros

Course Date
Saturday, 29 April 2023

Course Language
English

Accreditation
The Panhellenic Medical Association grants 12 credit points of Continuing Medical Education (CME-CPD)

Course venue
Athens Medical Group Amphitheater
Kefalari Square, Athens, Greece

Organization
Hellenic Spine Society

Course Secretariat
Premium Congress & Social Events Solutions
THESSALONIKI: 47, V. Irakliou St. P.C. 54623
Tel: +30 2310 226250, +30 2310 219407, Fax: +30 2316 009072
ATHENS: Zalokokosta 44 & L. Kifisias, Halandri, P.C. 152 53
Tel.: +30 211 10 69 340, fax: +30 210 68 38 221
E-mail: conference1@premium-events.gr, www.premium-events.gr

Hellenic Spine Society

Diploma of the Hellenic Spine Society

(equivalent to the Eurospine Diploma)

Module 3: Spinal Deformities

29 April 2023

Course Manager
Ioannis Magras
Professor of Neurosurgery

www.dhss.gr

NOTES

Organised by

Hellenic Spine Society

Endorsed by

EUROSPINE