

(equivalent to the Eurospine Diploma)

# **MODULE 1: BASIC COMPREHENSIVE COURSE**

# 2 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**

**loannis Magras** Professor of Neurosurgery

**SCIENTIFIC PROGRAMME** 



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#### **Course Manager**

**Ioannis Magras** 

Professor of Neurosurgery

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# **FACULTY**

**CHAIRMAN** Tsitsopoulos Parmenion

**FACULTY** Athanasiou Alkinoos

Balogiannis Ioannis Barkas Konstantinos

Bouramas Dimosthenis

**Brotis Alexandros** 

Kapinas Arion

Karantanas Apostolos Palaiologos Theofilos Paterakis Konstantinos Starantzis Konstantinos

Stavridis Stavros

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## **LEARNING OUTCOMES**

#### MODULE 1

- 1. Explain the impact of spinal disorders on the individual and society
- 2. Evaluate a spinal patient with a spine problem
- 3. Recognise serious and urgent spinal disorders
- 4. Formulate a plan for the safe early management of emergency and serious spine disorders, based on sound principles of treatment.
- 5. Demonstrate sound clinical judgment in planning patient management around selected cases

# DETAILED LEARNING OUTCOMES: SESSION 1 - GENERAL FEATURES

# Epidemiology of spine diseases

- Quantify the problem of back pain in the society
- Propose a strategy to reduce spine problems
- Explain research definitions of back pain and study methodology

#### **Evidence Based Medicine**

- · Rank levels of evidence
- Define the needs of individual patients in the context of Evidence Based Medicine
- · Explain the risk of bias
- Justify the role of Evidence Based Medicine, guidelines and registries

#### Surgical Anatomy of the Spine

- Understand the most important anatomical features in spine care
- Identity the main anatomical points during surgical spinal approaches

#### **Radiology Standards**

- Explain risks of exposure to radiation and minimize risks for patients and staff
- Justify the role of the team in evaluating radiological requests and investigations
- Select the most appropriate investigations in spinal Disorders

#### Spine Journals and literature

- · Become familiar with the main spine journals
- Acquire ability to perform focused search on spine topics
- · Understand and interpret the spine literature

#### **SESSION 2 - THE FUNCTIONAL SPINE**

#### **Biomechanics**

- Outline loads in different positions of the spine
- Explain how loading changes with age and pathology
- Describe the basic principles of biomaterials and biocompatibility

## The Young Spine

- · Describe spine growth and growth velocity
- Define specific trauma related factors in the child

#### The Old Spine

- Identify common disorders in elderly patients
- Explain the natural history and treatment of fragility fractures of the spine
- Describe the impact of age and co-morbidity on risk assessment and patient safety



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# SESSION 3 - CLINICAL EVALUATION & MEDICAL ETHICS

## Hints and tips during clinical examination

- Identify actual and potential communication problems within practice
- Assess own strengths and weaknesses in communicating with patients, their families and other team members
- Select appropriate clinical tests for a clinical situation
- · Perform a safe and effective clinical examination

#### Warnings during clinical decision making

- · Recognise Serious Red Flags during spine care
- Use clinical information to formulate a diagnosis and treatment plan

#### **Ethics & Medicolegal Issues**

- · Apply an ethical framework to critical thinking
- · Formulate principles of informed consent
- Identify the main medicolegal issues and how to avoid them in spine practice
- Evaluate organizational and personal factors involved in patient safety

## **SESSION 4 - SPINAL EMERGENCIES**

# Evaluation & management principles of spine trauma

- · Recognise and document details of a spinal cord injury
- Plan transport, investigation and treatment of a patient with a spinal cord injury
- Anticipate potential complications and how to avoid them
- Plan a simple rehabilitation strategy for a patient with spinal cord injury

## Incomplete spinal cord injury

- Recognise and investigate an incomplete spinal cord injury
- Formulate a plan for the presurgical management of incomplete spinal cord injury and compression
- Outline the common causes and treatment options of acute spinal cord compression

#### Conus Medullaris & Cauda Equina Syndrome

- Justify the difficulties in proper diagnosis and treatment of conus medullaris and cauda equina syndrome
- Explain the impact of cauda equina syndrome on patient's life



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# **SCIENTIFIC PROGRAMME**

MODULE 1: BASIC COMPREHENSIVE COURSE FRIDAY, 2 DECEMBER 2022

## COURSE ATTENDANCE IS MANDATORY

08:30 - 09:00	Course Registration & Welcome Coffee
09:00 - 10:20	Session 1: General Features
09:00 - 09:15	Epidemiology of spine diseases  A. Brotis
09:15 - 09:30	Evidence Based principles  A. Brotis
09:30 - 09:50	Surgical anatomy of the spine  K. Starantzis
09:50 - 10:10	Radiological standards and methods <b>A. Karantanas</b>
10:10 - 10:20	Spine-oriented journals and search of spine literature  P. Tsitsopoulos
10.20 - 10.50	Coffee break
10:50 - 12:10	Session 2: The Functional Spine
10:50 - 11:05	Biomechanical principles P. Tsitsopoulos
11:05 - 11:20	Biomechanics of spine constructs <b>D. Bouramas</b>
11:20 - 11:35	Peculiarities and specific features of the young spine  A. Kapinas
11:20 - 11:35 11:35 - 11:50	,
	A. Kapinas  Peculiarities and specific features of the aged spine



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13:10 - 14:20	Session 3: Clinical Evaluation & Medical Ethics
13:10 - 13.25	Hints and tips during clinical examination  K. Barkas
13:25 - 13:40	Warnings and dilemmas during decision making  K. Paterakis
13:40 - 13:55	Ethics & Medicolegal issues  S. Stavridis
13:55 - 14:20	Cases Discussion Faculty
14:20 - 14:50	Coffee Break
14:50 - 16:00	Session 4: Spine Emergencies
14:50 - 15:05	Evaluation & management principles of spine trauma  A. Athanasiou
15:05 - 15:20	Incomplete spinal cord injury  T. Palaiologos
15:20 - 15:35	Conus medullaris & Cauda Equina Syndrome  I. Balogiannis
15:35 - 16:00	Cases Discussion Faculty

# ІАТРІКН ПРООПТІКН

ΧΕΙΡΟΥΡΓΙΚΑ ΕΡΓΑΛΕΙΑ ΠΟΙΟΤΗΤΑΣ







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## 2 December 2022

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# **GENERAL INFORMATION**

# **Module**

Module 1: BASIC COMPREHENSIVE COURSE

# **Registration Fee**

Module 1: 300 euros

Module 1 and 4: 500 euros

# **Date**

2 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 rensposibility



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20 international accreditations according to the highest standards



















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# **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

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# SCIENTIFIC PROGRAMME



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Module 4: Trauma
3 December 2022

**Course Manager loannis Magras** 

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# **FACULTY**

**CHAIRMEN** Kandziora Frank

Stavridis Stavros

**FACULTY** Apostolou Thomas

Athanasiou Alkinoos

**Bouramas Dimosthenis** 

**Brotis Alexandros** 

Kandziora Frank

Kapinas Arion

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Module 4: Trauma

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# **LEARNING OUTCOMES**

#### **MODULE 4**

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

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) <b>Dimos Bouramas</b>
10:00 - 10:30	Trauma of Subaxial C-Spine: Classification & Management (Case based Presentation) <b>Alkinoos Athanasiou</b>
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) <b>Thomas Apostolou</b>
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) <b>Arion Kapinas</b>
14:50 - 15:10	Spinal Shock & Incomplete Spinal Cord Injury Syndromes  Parmenion Tsitsopoulos
15:10 - 15:30	Biomaterials in Spine Surgery <b>Alexandros Brotis</b>
15:30 - 16:00	Participant case presentation
16:00 - 16:30	Coffee Break
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

# ІАТРІКН ПРООПТІКН

# ΧΕΙΡΟΥΡΓΙΚΑ ΕΡΓΑΛΕΙΑ ΠΟΙΟΤΗΤΑΣ





546 46 Θεσσαλονίκη



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# **GENERAL INFORMATION**

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