



Hellenic
Spine
Society

Diploma of the Hellenic Spine Society

(equivalent to the Eurospine Diploma)

MODULE 5 : TUMOURS AND INFLAMMATORY DISEASES OF THE SPINE

Tuesday 13 NOVEMBER 2018

CENTRE FOR DISSEMINATION OF
RESEARCH RESULTS OF
ARISTOTLE UNIVERSITY OF THESSALONIKI
(K.E.D.E.A) A.U.TH.
Thessaloniki, Greece

www.dhss.gr

Course Manager

Ioannis Magras
Associate Professor of Neurosurgery

SCIENTIFIC
PROGRAMME

LEARNING OUTCOMES: SESSION 1 - VERTEBRAL OSTEOMYELITIS

Etiology, Pathogenesis, Routes of Spread

- Explain the aetiology of vertebral osteomyelitis including: bacterial, tuberculous, and fungal
- Describe the pathogenesis including venous route, arterial inoculation and iatrogenic direct extension
- Anticipate the routes of spread: vertebral body & intervertebral disc

Symptoms & Diagnosis

- Recognise the signs and symptoms of vertebral osteomyelitis
- Identify the risk factors (immunodeficiency etc)
- Select appropriate investigations
- Distinguish on MRI and x-ray the key features that define and contrast both pyogenic and tuberculous spinal lesions

Conservative Management & Indications for Surgical Treatment

- Evaluate options for conservative treatment
- Compare absolute and relative indications for conservative treatment

Surgical Management of Spinal Infections

- Formulate a plan for infection specific treatment
- Anticipate complications
- Plan appropriate management
- Appraise current evidence concerned with spondylitis outcome and prognosis

Case Discussion

LEARNING OUTCOMES: SESSION 2 - RHEUMATOID DISEASE

Etiology, Pathogenesis, Symptoms, Diagnosis

- Explain the aetiology of rheumatoid disease
- Describe the pathogenesis relating rheumatoid disease and joint changes
- Recognise the signs and symptoms
- Select and interpret appropriate investigations and imaging
- Recognise signs of
 - o the rheumatoid spine
 - o ankylosing spondylitis

Stabilizing & Corrective Surgery of the Spine

- Describe indications for corrective surgery for

ankylosing spondylitis

- Diagnose occipito-atlantoaxial complex and subaxial cervical spine
- Differentiate between horizontal and vertical atlantoaxial instability

Diagnosis & Treatment of the Occipito-Atlantoaxial Complex

- Identify the commonly used radiographic lines and measurements for the C0 to C2 complex.
- Plan appropriate treatment for C0 to C2 and subaxial rheumatic neck problems.
- Appraise current evidence regarding outcome and prognosis

Case Discussion

LEARNING OUTCOMES: SESSION 3 - METABOLIC BONE DISEASES

Bone Disorders

- Paget's disease
- Rickets
- DISH (Forestier's disease)
- Metabolic bone disease

Osteoporosis

- Outline the etiology of osteoporosis
- Diagnose osteoporosis using appropriate investigations

Surgical Considerations In Disorders of the Bone

- Evaluate treatment options
- Compare minimally invasive techniques including;
 - o vertebroplasty,
 - o kyphoplasty
 - o vertebral body stenting

Case Discussion

LEARNING OUTCOMES: SESSION 4 - TUMOURS OF THE AXIAL SKELETON

Primary benign tumours and tumour like lesions; diagnosis and management

- Explain the aetiology of tumours and tumour like lesions
- Describe the pathogenesis relating to tumours and tumour like lesions

- Differentiate between primary benign tumours and tumour like lesions
- Select appropriate investigations, interpret results and stage tumour like lesions
- Evaluate treatment options
- Anticipate outcomes
- Formulate a plan for long term monitoring

Secondary malignant tumours; diagnosis and management

- Justify the relative importance of combined tumour therapy including surgery, radiotherapy and chemotherapy.
- Evaluate surgical options and results
- Formulate a multidisciplinary management plan
- Justify the risks, benefits and impact of radiotherapy and chemotherapy.
- Evaluate surgical options
- Anticipate complications

Case Discussion

**SCIENTIFIC PROGRAMME,
MODULE 5: TUMORS (INCLUDING INTRAMEDULLARY AND INTRADURAL EXTRA
MEDULLARY TUMORS) & INFLAMMATORY DISEASE OF THE SPINE
TUESDAY, 13 NOVEMBER 2018
COURSE ATTENDANCE IS MANDATORY**

CHAIRMAN VOULGARIS SPYROS

8.30-9.00 Course Registration & Welcome Coffee

9.00-10.30 / SESSION 1: VERTEBRAL OSTEOMYELITIS

9.00-9.15 **Etiology, Pathogenesis, Routes of Spread**
S.Stavridis

9.15-9.30 **Symptoms & Diagnosis**
S.Stavridis

9.30-9.45 **Conservative Treatment & Indications for Surgical Treatment**
P. Tsitsopoulos

09.45-10.00 **Surgical Management of Spinal Infections**
A.Spiliotopoulos

10.00-10.30 **Case Discussion**

10.30-11.00 Coffee Break

11.00-12.45 / SESSION 2: RHEUMATOID DISEASE

11.30-11.45 **Etiology, Pathogenesis, Symptoms, Diagnosis**
Th. Dimitroulas

11:45-12:00 **Stabilizing & Corrective Surgery of the TL Spine (Especially Ankylosing Spondylitis)**
K. Paterakis

12.00-12.15 **Diagnosis & Treatment of the Occipito - Atlantoaxial Complex**
D. Bouramas

12.15-12.45 **Analysis and discussion of a surgical procedure (Video)**
D. Bouramas

12.45-13.15 Lunch Break

13.15-14.30 / SESSION 3: METABOLIC BONE DISEASES

13.15-13.30 **Bone Disorders**
K. Kotsa

13.30-13.45 **Osteoporosis (Etiology, Diagnosis, Drug Therapy)**
K. Kotsa

13.45-14.00 **Surgical Considerations in Disorders of the Bone**
S. Polyzoidis

14.00-14.30 **Case Discussion**

14.30-15.45 / SESSION 4: PRINCIPLES OF SURGICAL TREATMENT

- 14.30-14.45** **Benign Tumours and Tumour Like Lesions: diagnosis and management**
Th. Apostolou
- 14.45-15.00** **Primary Malignant Tumours: diagnosis and management**
A. Spiliotopoulos
- 15.00-15.15** **Secondary Malignant Tumours: diagnosis and management**
P. Toullos
- 15.15-15.45** **Case Discussion**
- 15.45-16.15 Coffee Break
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16.15-17.15 / SESSION 5: TUMORS OF THE SPINAL CORD

- 16.15-16.30** **Intradural extra medullary Tumours**
S. Voulgaris
- 16.30-16.45** **Intramedullary Tumours**
I.Patsalas
- 16.45-17.15** **Analysis and discussion of a surgical procedure (Video)**
I.Patsalas



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NOTES

A series of horizontal dotted lines for taking notes.

