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
(KE.D.E.A) A.U.TH.
Thessaloniki, Greece

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Course Manager
Ioannis Magras
Associate Professor of Neurosurgery
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
  - the rheumatoid spine
  - 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:
  - vertebroplasty,
  - kyphoplasty
  - 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. Tsiatsopoulus
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. Toulios

15.15–15.45  Case Discussion

15.45-16.15  Coffee Break

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