Neuro/Musculoskeletal Radiology
Lublin/PL, June 27–29, 2008

Friday, June 27
16:00 – 16:45 Neuroradiology in dementia: From structural to molecular imaging
J. Walecki, Warszaw/PL
16:45 – 17:30 Imaging of degenerative diseases of spine
M. Sasiadek, Wrocław/PL
17:30 – 18:15 Endovascular management of brain AVM
M. Szajner, Lublin/PL

Saturday, June 28
08:30 – 09:10 Stroke
M. Thurnher, Vienna/AT
09:10 – 09:50 CNS injuries
I. Björkman-Burtscher, Lund/SE
09:50 – 10:20 Coffee break
10:20 – 11:00 CNS inflammatory diseases
J. Ruscalleda, Barcelona/ES
11:00 – 13:00 Workshops (3 times 30 minutes)
13:00 – 14:00 Lunch break
14:00 – 14:40 CNS malignancies
E. Papadaki, Iraklion/GR
14:40 – 15:20 Inflammatory and infectious diseases of the musculoskeletal system
A. Cotten, Paris/FR
15:20 – 15:40 Coffee break
15:40 – 16:20 Non-neoplastic bone marrow disorders
A. Karantanas, Iraklion/GR
16:20 – 18:20 Workshops (3 times 30 minutes)

Sunday, June 29
08:30 – 09:10 Imaging of articular cartilage: why, when and how?
K. Wörtler, Munich/DE
09:10 – 09:50 Arthrography: why, when and how?
J. Hodler, Zurich/CH
09:50 – 10:05 Coffee break
10:05 – 10:45 Imaging of sports injuries: what the clinician needs to know
M. Maas, Amsterdam/NL
10:45 – 12:45 Workshops (3 times 30 minutes)
12:45 – 13:15 Self-assessment test
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Learning objectives

Neuroradiology in dementia: from structural to molecular imaging
• to learn pathological and clinical classifications of dementia
• to be able to choose diagnostic strategies for efficient imaging of dementia
• to become aware of the newest modalities in dementia’s diagnosis

Imaging of degenerative diseases of spine
• to learn diagnostic algorithms in degenerative disease of the spine
• to discuss MRI technique in degenerative diseases of the spine, including new sequences
• to review symptomatology and classification of the degenerative changes of particular structures of the spine

Endovascular management of brain AVM
• to become familiar with etiology and natural history of AVM
• to understand angioarchitecture of a nidus
• to be able to choose appropriate treatment options and strategy of endovascular embolisation

Stroke
• to understand the pathophysiology of ischemic stroke
• to be familiar with early CT signs of acute cerebral ischemia and imaging findings on conventional MR sequences
• to comprehend the concept of the ischemic penumbra
• to be knowledgeable about the usefulness of CT perfusion, CTA, diffusion-weighted MR imaging (DWI), and MR perfusion
• to understand the relationship between the ischemic penumbra, stroke therapy and patient outcome

CNS injuries
• to identify and discuss imaging characteristics of common intracranial pathologies
• to understand imaging strategies considering cost-effectiveness
• to reflect on the impact of advanced imaging techniques in neuroradiological routine examinations

CNS inflammatory diseases
• to review the classification of brain infections
• to learn the imaging features of leptomeningitis, meningoencephalitis and pachymeningitis
• to understand pathology and imaging patterns of brain abscesses
• to know the typical patterns of herpetic encephalitis and their differential diagnoses.
• to discuss the imaging classification of granulomatous inflammatory CNS diseases and parasitic infections
• to review the AIDS imaging patterns as modulated by actual therapy
CNS malignancies
• to understand the traditional criteria for the detection and characterisation of intra-axial brain neoplasms
• to learn about the application of non-conventional MR techniques (DWI, PWI, MRS) for better delineation and characterisation of brain tumours
• to understand the role of advanced neuroimaging for the differentiation of brain tumours from other non-neoplastic brain lesions

Imaging of articular cartilage: why, when and how?
• to become familiar with the clinical indications for cartilage imaging
• to discuss the most important MR and CT techniques to image articular cartilage
• to learn about typical imaging features of cartilage degradation, traumatic cartilage lesions, and osteochondral defects
• to become familiar with morphologic findings following cartilage repair procedures

Inflammatory and infectious diseases of the musculoskeletal system
• to discuss the strengths and weaknesses of various imaging modalities for the accurate diagnosis of inflammatory and infectious diseases of the musculoskeletal system
• to demonstrate the salient imaging features that differentiate inflammatory and infectious diseases from trauma and tumours
• to highlight the specific features of inflammatory disease of the musculoskeletal system
• to know the differentiating features of pyogenic and granulomatous infectious disease of the musculoskeletal system

Arthrography: why, when and how?
• to know why and when to use CT arthrography or MR arthrography
• to familiarise with the most common pathologic conditions on MR arthograms of the shoulder, wrist, and hip
• to know tips and tricks for intra-articular administration of contrast material into peripheral joints

Non-neoplastic bone marrow disorders
• to become familiar with the MR sequences for imaging normal bone marrow
• to understand the contribution of the specific pattern of bone marrow signal abnormalities to the final diagnosis
• to learn how to differentiate common disorders such as infection, transient osteoporosis, migratory osteoporosis and osteonecrosis
• to understand the clinical significance of post-traumatic, sports-related and overuse bone marrow disorders

Imaging of sports injuries: what the clinician needs to know
• to illustrate the role of radiology in assessing common sports-related overuse injuries
• to focus on the value of a multimodality approach in radiological evaluation of an injured athlete
• to illustrate the value of understanding biomechanics of various sports in order to assess injury patterns
• to stress the multidisciplinary aspects of coping with the injured athlete
• the illustrate the clinicians problems in an injured athlete and to understand how radiology can help