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LEVEL II+III

ASKLEPIOS
Course

ADVANCES IN MR IMAGING

May 9-10, 2019
Bucharest/Romania

ESOR EUROPEAN SCHOOL OF RADIOLOGY
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EDUCATION IN PARTNERSHIP

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Course information

The course is aimed at senior residents, board-certified radiologists and fellows interested in MR imaging and will focus on the most successful technical consideration to acquire high-quality images in brain, cardiac and musculoskeletal exams. It will further focus on the evaluation of updated diagnostic findings, stratifying criteria and grading principles as well as treatment effects assessment. The clinical impact of MR imaging in glioblastoma, stroke, neurodegenerative diseases, myocardial, valvular and pericardial abnormalities, synovium, cartilage and bone changes will be presented. A special focus will be devoted to the applications of the latest technical advances and newer guidelines for these situations. Internationally renowned experts will ensure a high-quality teaching programme combining plenary lectures and workshops allowing for interactive case discussion.

Learning objectives

- to present an update on the current MR imaging protocols used in patients with brain, cardiac and musculoskeletal diseases for the detection and characterisation of abnormalities and entities
- to learn about key imaging features relevant to clinical decision-making process in these patients
- to discuss the clinical relevance of early disease detection and the necessity of accurate grading and classifying disorders
- to evaluate appropriate therapy-planning and the role of imaging in therapy monitoring and evaluation of treatment

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Programme
ADVANCES IN MR IMAGING

May 9–10, 2019
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Thursday, May 9, 2019

13:00–13:45	Registration
13:45–14:00	Welcome and introduction
14:00–14:30	**Glioblastoma management: MR diffusion and perfusion strategies** F. Aparici, Valencia/ES
14:30–15:00	**Stroke management: MR diffusion and perfusion strategies** Y. Berthezène, Lyon/FR
15:00–15:30	**Neurodegenerative diseases: MR evaluation of tissue damage** S. Haller, Geneva/CH
15:30–15:50	Coffee break
15:50–18:00	**Workshops** (F. Aparici, Y. Berthezène, S. Haller)

Friday, May 10, 2019

09:00–09:30	**Myocardial hypertrophies: MR evaluation of tissue properties** A. Kallifatidis, Thessaloniki/GR
09:30–10:00	**Myocardial ischemia and fibrosis MR imaging of prognostic markers** C. Loewe, Vienna/AT
10:00–10:30	**Pericardial and valvular abnormalities: MR in clinical pathways** A. Redheuil, Paris/FR
10:30–10:50	Coffee break
10:50–13:00	**Workshops** (A. Kallifatidis, C. Loewe, A. Redheuil)
13:00–14:00	Lunch break
14:00–14:30	**MR of the synovial: from thickness to aggressiveness evaluation** A. Cotten, Lille/FR
14:30–15:00	**MR of cartilage: from appearance to properties** S. Ghiea, Bucharest/RO
15:00–15:30	**MR of bone: from cortical to trabecular changes** K. Verstraete, Ghent/BE
15:30–15:50	Coffee break
15:50–18:00	**Workshops** (A. Cotten, S. Ghiea, K. Verstraete)
18:00	Certificate of attendance

Host organiser

I. Lupescu
Bucharest/RO

Venue

Capital Plaza Hotel
54 Iancu de Hunedoara Bd
011745 Bucharest
Romania

Registration fees

ESR members in training
Early fee EUR 200; Late fee EUR 250

ESR members
Early fee EUR 400; Late fee EUR 450

(Early fee until eight weeks prior to the course)
(Late fee after eight weeks prior to the course)

For further information on the programme and registration please visit esor.org

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Learning Objectives
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Glioblastoma management: MR diffusion and perfusion strategies

F. Aparici, Valencia/ES

- to learn multiparametric imaging of brain lesions
- to analyse biomarker in degenerative diseases (dementia, lateral amyotrophic sclerosis)
- to recognise habitats in brain tumours
- to become familiar with prognostic biomarkers after stroke

Stroke management: MR diffusion and perfusion strategies

Y. Berthezène, Lyon/FR

- to describe the role of combined multimodal parenchymal, perfusion, and vascular imaging with MRI in stroke management
- to become familiar with the role of diffusion and perfusion in acute stroke
- to learn about penumbra quantification

Neurodegenerative diseases: MR evaluation of tissue damage

S. Haller, Geneva/CH

- to understand potentials and limitations of hippocampal volumetry for diagnosis of dementia
- to understand how imaging of the nigrosome 1/ swallow tail sign might contribute to the diagnosis of Parkinson Disease and Dementia with Lewy bodies
- to understand how arterial spin labelling might contribute to early diagnosis and differential diagnosis of dementia

Myocardial hypertrophies: MR evaluation of tissue properties

A. Kallifatidis, Thessaloniki/GR

- to learn the definition of myocardial hypertrophy
- to analyse different pathologies that cause hypertrophy and correlate with phenotypes and imaging characteristics
- to review sequences and dedicated protocols in order to get the right diagnosis or make the differential diagnosis
- to mention the role of newer MR techniques (mapping, strain)

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Myocardial ischemia and fibrosis MR imaging of prognostic markers

C. Loewe, Vienna/AT

- to become familiar with MR derived imaging biomarkers in ischemic heart diseases
- to recognise the prognostic implication of myocardial fibrosis
- to learn about techniques to assess and quantify myocardial fibrosis
- to discuss possibilities of clinical implementation of these techniques

MR of the synovial: from thickness to aggressiveness evaluation

A. Cotten, Lille/FR

- to learn the MR features allowing recognition of the main synovial disorders
- to recognise the MR features of aggressive synovitis
- to know what adjacent structures should be analysed in the presence of nonspecific synovitis

MR of cartilage: from appearance to properties

S. Ghiea, Bucharest/RO

- to know what adjacent structures should be analysed in the presence of nonspecific synovitis
- to learn about imaging techniques of the cartilage
- to learn the proper use of MRI protocols (strengths, limitations and artefacts)
- to understand some of the future directions in cartilage imaging

MR of bone: from cortical to trabecular changes

K. Verstraete, Ghent/BE

- to understand and describe the typical MR imaging features of bone marrow diseases and common bone tumours and tumour-like lesions, and to determine the matrix of a bone tumour
- to plan an MR examination of a patient with a bone tumour or bone marrow disease, and to adapt it to the individual situation for diagnosis and staging
- to perform dynamic contrast-enhanced MRI and diffusion MRI for diagnosis, staging and follow-up of bone tumours and bone marrow diseases

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Please note that programmes are marked with a logo to indicate their classification according to the European Training Curriculum.

LEVEL I	First three years of training
LEVEL II	Fourth and fifth year of training (general radiologist standard)
LEVEL III	Subspecialty training standard

ESOR stands for education in partnership.

This ASKLEPIOS Course is implemented with the support of our valued partner GE Healthcare.

GE Healthcare