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LEVEL I+II

GALEN FOUNDATION Course

NEURORADIOLOGY

May 23-25, 2019
Lisbon/Portugal

ESOR EUROPEAN SCHOOL
OF RADIOLOGY

ESRF EUROPEAN SOCIETY
OF RADIOLOGY

EDUCATION IN PARTNERSHIP

LEVEL I+II

GALEN FOUNDATION Course

NEURORADIOLOGY

May 23-25, 2019
Lisbon/Portugal

Course information

This course is for radiologists in training, who desire a comprehensive and concise review of neuroradiology. Basic neuroanatomy, imaging features of traumatic, infectious, neoplastic, vascular, congenital, demyelinating diseases of the brain will be covered. Internationally renowned European experts will conduct a series of didactic lectures and dedicated interactive case review discussions. The course encompasses the broad spectrum of neuroradiology practice, including comprehensive reviews, updates in new trends and relevant imaging techniques.

Learning objectives

- to learn the key imaging findings of the most common brain and spinal cord diseases
- to prioritise imaging studies that will guide patient management
- to select the best and most cost-effective imaging protocols



Programme NEURORADIOLOGY

May 23–25, 2019
Lisbon/Portugal

Thursday, May 23, 2019

- 15:00–16:00 Registration
- 16:00–16:15 Welcome and introduction
- 16:15–17:00 **Vascular anatomy and imaging techniques**
J.T. Baptista, Lisbon/PT
- 17:00–17:45 **Ischemic stroke: diagnosis and therapy**
P. Vilela, Lisbon/PT
- 17:45–18:30 **Non-traumatic brain haemorrhage**
T. Nunes, Lisbon/PT

Friday, May 24, 2019

- 09:00–09:30 **Cross-sectional brain anatomy revisited**
T. Yousry, London/UK
- 09:30–10:00 **Brain congenital abnormalities**
M. Argyropoulou, Ioannina/GR
- 10:00–10:30 **Pattern recognition in neuroradiology**
L. Van den Hauwe, Antwerp/BE
- 10:30–10:50 Coffee break
- 10:50–13:00 **Workshops**
(T. Yousry, M. Argyropoulou, L. Van den Hauwe)
- 13:00–14:00 Lunch break
- 14:00–14:30 **Traumatic brain injury: a practical guide**
P. Vilela, Lisbon/PT
- 14:30–15:00 **Brain tumours: what is each technique telling us about the tumour**
M. Thurnher, Vienna/AT
- 15:00–15:30 **Spinal cord lesions: myelitis or tumour?**
J. Van Goethem, Antwerp/BE
- 15:30–15:50 Coffee break
- 15:50–18:00 **Workshops**
(P. Vilela, M. Thurnher, J. Van Goethem)

Saturday, May 25, 2019

- 09:00–09:30 **CNS infections: from image to pathogen**
C. Calli, Izmir/TR
- 09:30–10:00 **White matter diseases**
F. Bonneville, Toulouse/FR
- 10:00–10:30 **Imaging in secondary epilepsy**
A. Krainik, Grenoble/FR
- 10:30–10:50 Coffee break
- 10:50–13:00 **Workshops**
(C. Calli, F. Bonneville, A. Krainik)
- 13:00 Certificate of attendance

Host organiser



P. Vilela
Lisbon/PT

Venue

Tivoli Oriente Lisboa
Av. D. João II, n.º 27
Parque das Nações
1990-083 Lisbon
Portugal

Registration fees

ESR members in training
Early fee EUR 220; Late fee EUR 270

ESR members
Early fee EUR 420; Late fee EUR 470

(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

LEVEL I+II

Learning Objectives

NEURORADIOLOGY

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Vascular anatomy and imaging techniques

J.T. Baptista, Lisbon/PT

- to describe the anatomy of the supra aortic and intracranial arteries
- to describe the anatomy of the intracranial venous system
- to explain the basic principles of CT and MR angiography, and digital subtraction angiography
- to illustrate, using examples, the clinical applications of each imaging modality

Ischemic stroke: diagnosis and therapy

P. Vilela, Lisbon/PT

- to become familiar with the most common aetiologies pathophysiologic mechanisms, and imaging findings of stroke in the adult population and to review the vascular anatomy
- to manage the imaging evaluation of acute ischemic stroke, recognising the signs of infarct on CT and MRI
- to recognise the imaging signs of the most common stroke mimics
- to become familiar with the interventional (endovascular) techniques used for the treatment of acute ischemic stroke

Non-traumatic brain haemorrhage

T. Nunes, Lisbon/PT

- to review the imaging recommendations for the work-up of the patient with non-traumatic brain haemorrhage
- to learn how to customise the most adequate imaging protocol and define the appropriate timing for the evaluation of non-traumatic brain haemorrhage
- to recognise the imaging features of brain haemorrhage on CT and MRI over time, to identify clues to the presence of an underlying lesion and to report key findings that are relevant for patient management
- to become familiar with the imaging patterns of the most common aetiologies of non-traumatic brain haemorrhage

Cross-sectional brain anatomy revisited

T. Yousry, London/UK

- to understand the basic concepts of cortical subdivision
- to be able to identify critical cortical structures
- to learn to localise primary functional areas

Brain congenital abnormalities

M. Argyropoulou, Ioannina/GR

- to be able to identify the most common congenital malformations of the brain
- to become familiar with the diagnostic imaging approach
- to learn about the added value of diffusion tensor imaging

Learning Objectives

NEURORADIOLOGY

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Pattern recognition in neuroradiology

L. Van den Hauwe, Antwerp/BE

- to learn how to use anatomic location in CNS lesion characterisation (intra- vs. extra-axial, supra- vs. infratentorial)
- to learn how to correlate signal intensity changes with biochemical and pathological findings
- to learn how to integrate these findings in a pattern analysis approach to establish the (differential) diagnosis

Traumatic brain injury: a practical guide

P. Vilela, Lisbon/PT

- to review the imaging approach of acute head trauma
- to have an overview on the different types of acute brain injury
- to be familiar with the chronic effects of brain injury
- to be aware of the potential vascular lesions associated with head trauma
- to recognise the most common extra axial/ intracranial traumatic injuries
- to identify the different types of skull and extracranial traumatic lesions

Brain tumours: what is each technique telling us about the tumour

M. Thurnher, Vienna/AT

- to learn about the brain tumour imaging objectives
- to understand the value of different MR techniques in evaluating and grading brain tumours
- to review most common brain tumour characteristics which need to be described

Spinal cord lesions: myelitis or tumour?

J. Van Goethem, Antwerp/BE

- to optimise the imaging protocol in intrinsic spinal cord pathology
- to learn to differentiate the most common intrinsic spinal cord pathologies
- to recognise patterns in order to make a concise differential diagnosis in spinal cord pathology

CNS infections: from image to pathogen

C. Calli, Izmir/TR

- to be familiar with common CNS infections
- to understand imaging findings of CNS infections
- to emphasise specific imaging patterns of characteristic CNS infections
- to be able to make the differential diagnosis from other mimicking lesions

White matter diseases

F. Bonneville, Toulouse/FR

- to identify T2 white matter hyperintensities related to cerebrovascular disorders and explain their clinical importance on stroke, cognitive decline and death
- to recognise T2 white matter hyperintensities in the setting of demyelinating disorders
- to describe T2 white matter hyperintensities in other inflammatory diseases

Imaging in secondary epilepsy

A. Krainik, Grenoble/FR

- to know pathophysiological definitions
- to know brain imaging goals
- to know imaging protocols
- to recognise main aetiologies of epilepsy

EDUCATION IN PARTNERSHIP

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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.

The GALEN Courses are implemented with the support of our valued partner Bracco.



LIFE FROM INSIDE