In-depth MRI techniques and analysis in multiple sclerosis
13-14 October 2016 - Milan, Italy
Overview

Basic knowledge of MRI imaging is an undeniable skill for all neurologists involved in multiple sclerosis (MS) management. Brain and spinal MRI are required to diagnose MS and to monitor efficacy and safety of all MS drugs. Nevertheless, neurologists willing to understand the disease’s mechanisms and functional consequences of MS cannot miss information coming from advanced MRI techniques, which will be provided during the course. While numerical quantification of white and grey matter structural damage are part of everyday clinical practice when understanding MS impact at the individual level, it is essential to grasp post-processing of imaging, and volumetric estimates. Therefore, participants will benefit from hands-on training at the Neuroimaging and Neuroimmunology Research Unit and they will have the opportunity to challenge themselves with analysis of imaging after processing. Applications of conventional and unconventional MRI techniques will be comprehensively illustrated during the course by world-renowned MRI experts.

What’s new

This year the course features a new practical training session on lesion and atrophy quantification in MRI. Attendees will be supplied with a laptop containing software to aid their practical understanding and exploration of quantitative MRI analysis. The software works as an analytical videogame where users submit MRI scans from which they can extract important numerical data concerning lesions, white matter and more.

Learning objectives

By attending this live educational course, participants will be able to:

• Describe the present MRI diagnostic criteria for MS
• Summarize the novel functional and structural markers of disease severity obtained by advanced MRI techniques
• Illustrate the main findings of functional MRI techniques
• Describe the main software for imaging post-processing and basic principles of quantitative analysis of MRI imaging
Target audience
Young clinicians and scientists currently involved in MS management as well as radiologists interested in MS.

Chair

**Massimo Filippi**
Neuroimaging Research Unit
Institute of Experimental Neurology
Division of Neuroscience
San Raffaele Scientific Institute
Vita-Salute San Raffaele University
Milan, Italy

EXCEMED designed this programme in partnership with the Scientific Institute and University Vita-Salute San Raffaele.
CME Provider

EXCEMED is a non profit foundation dedicated, since the last four decades, to the development of high-quality medical education programme all over the world.

EXCEMED adheres to the guidelines and standards of the European Accreditation Council for Continuing Medical Education (EACCME®) which states that continuing medical education must be balanced, independent, objective, and scientifically rigorous.

Continuing medical education

An application will be made to the EACCME® for CME accreditation of the EXCEMED course “In-depth MRI techniques and analysis in multiple sclerosis” to be held on 13-14 October 2016 in Milan, Italy.

EXCEMED adheres to the principles of the Good CME Practice group (gCMEp).
Faculty

Declan Chard
Institute of Neurology
Faculty of Brain Sciences
University College of London
London, UK

Giancarlo Comi
Department of Neurology
Institute of Experimental Neurology
Vita-Salute San Raffaele University
Milan, Italy

Nicola De Stefano
Neurology and Neurometabolic Unit
Department of Neurological and Behavioral Sciences
University of Siena
Siena, Italy

Andrea Falini
Department of Neuroradiology
San Raffaele Scientific Institute
Vita-Salute San Raffaele University
Milan, Italy

Massimo Filippi
Neuroimaging Research Unit
Institute of Experimental Neurology
Division of Neuroscience
San Raffaele Scientific Institute
Vita-Salute San Raffaele University
Milan, Italy

Simonetta Gerevini
Department of Neuroradiology
San Raffaele Scientific Institute
Vita-Salute San Raffaele University
Milan, Italy
Mark A. Horsfield
Xinapse Systems Ltd
West Bergholt, UK

Ludwig Kappos
Department of Biomedicine
University Hospital Basel
Basel, Switzerland

Elisabetta Pagani
Neuroimaging Research Unit
Institute of Experimental Neurology
Division of Neuroscience
San Raffaele Scientific Institute
Vita-Salute San Raffaele University
Milan, Italy

Paolo Preziosa
Neuroimaging Research Unit
Institute of Experimental Neurology
San Raffaele Scientific Institute
Vita-Salute San Raffaele University
Milan, Italy

Maria Assunta Rocca
Neuroimaging Research Unit
Institute of Experimental Neurology
Division of Neuroscience
San Raffaele Scientific Institute
Vita-Salute San Raffaele University
Milan, Italy

Menno M. Schoonheim
Department of Anatomy & Neurosciences
Section of Clinical Neuroscience
VU University Medical Center
Amsterdam, The Netherlands
Gioacchino Tedeschi
Second University of Naples
Naples, Italy

Paola Valsasina
Neuroimaging Research Unit
Institute of Experimental Neurology
Division of Neuroscience
San Raffaele Scientific Institute
Vita-Salute San Raffaele University
Milan, Italy
Programme
Thursday, 13 October 2016

9.00  Opening and introduction
      G. Comi (Italy) and M. Filippi (Italy)

9.15  Real-time survey

9.30  L1: The clinical work up of patients suspected of having MS
      L. Kappos (Switzerland)

10.00 L2: The MRI criteria for diagnosing MS
        M. Filippi (Italy)

10.30 L3: MRI and differential diagnosis in patients suspected of having MS
        A. Falini (Italy)

11.00 Coffee break

11.30 L4 Monitoring treatment response with MRI (from NEDA-3 to NEDA-4)
      N. De Stefano (Italy)

12.00 L5: Individualised treatment in patients with MS
        G. Comi (Italy)

12.30 Revisiting real-time survey

12.45 Lunch

13.45 Case studies on diagnosis/differential diagnosis and treatment decision making
      S. Gerevini (Italy) and M.A. Rocca (Italy)

16.15 Guided visit to the Neuroimaging Research Unit and Neuroimmunology Unit

17.00 End of the first day

Legend: L: Lecture  Real-time survey  Clinical cases
Site visit  Practical session
Friday, 14 October 2016

8.45   Real-time survey

9.00   L6: Advanced imaging techniques: basic principles  
       E. Pagani (Italy)

9.30   L7: Understanding MS evolution using structural MR techniques  
       M. Schoonheim (The Netherlands)

10.00  L8: Understanding MS evolution using functional MR techniques  
       M.A. Rocca (Italy)

10.30  L9: MRI and cognition  
       P. Preziosa (Italy)

11.00  Coffee break

11.30  L10: Optic nerve MRI  
       D. Chard (UK)

12.00  L11: Spinal cord MRI  
       P. Valsasina (Italy)

12.30  L12: Atrophy: from clinical trials to single patient  
       G. Tedeschi (Italy)

13.00  Revisiting real time survey

13.10  Lunch

14.10  Practical session: training on lesion and atrophy quantification  
       M.A. Horsfield (UK), E. Pagani (Italy), P. Preziosa (Italy), M.A. Rocca (Italy)

16.10  Concluding remarks  
       M. Filippi (Italy)

16.20  End of the live educational course
General information

Venue
This practice teaching course will take place at the:

San Raffaele Scientific Institute
Via Olgettina, 58
20132 Milan, Italy

Language
The official language of this course will be English.

CME Provider
EXCEMED - Excellence in Medical Education
Senior Programme Manager: Alessia Addessi
T +39 06 420413 591 - F +39 06 420413 677
alessia.addessi@excemed.org
Medical Advisor: Doriana Landi
doriana.landil@gmail.com
Registration

➢ The registration fee is €450,00 and includes:
  • Scientific sessions
  • Coffee breaks and luncheons
  • Dinner on 13 October 2016
  • Educational materials
  • Certificate of attendance

For registration and accommodation please contact:
Meridiano Congress International
Congress Coordinator: David H. Slangen
T +39 06 88 595 250 - F +39 06 88595 234
david.slangen@meridiano.it

Limited places are available, registrations will be collected on a first come first served basis.

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Better outcomes for patients start here.

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