EXCEMED Blended Education
In-depth MRI techniques and analysis in multiple sclerosis
Live intervention in Milan, Italy
27-28 September 2018
In-depth MRI techniques and analysis in multiple sclerosis

Overview
Today the role of MRI in multiple sclerosis (MS) is well established. It is undeniable that MRI is required for establishing the diagnosis, evaluating prognosis and monitoring treatment complications. Although competence and knowledge of qualitative neuroradiological metrics are increasingly growing among neurologists interested in MS, there is still a need to promote a deeper understanding of the applications, limits and possibilities of this tool to improve the quality of the care. Additionally, quantitative MRI (i.e. lesion load and brain volume calculation) approaches, as well as advanced neuroimaging tools, are widely used in research, but are not diffusely applied in clinical settings, which will improve the quantification of prognosis and the individualization of treatment approach.

An EXCEMED Learning Journey
The EXCEMED blended education approach reinforces concepts from different angles, using a multi-format, multi-discipline and multi-profession approach to progressive learning and access to a network of experts. The aim of this learner-centred programme is to increase knowledge and competence in the field of neuroimaging applied to MS. This programme will address the most recent updates in quantitative and qualitative MRI techniques and in advanced neuroimaging. A multistep approach will be used, encompassing web-based and live activities. All activities – in-person and online – will involve the full interactivity of learners.

Learning objectives
By attending this programme, you will be able to:
- Identify the main MRI markers corresponding to specific MS histopathological damage
- Define the main MRI metrics used for estimating prognosis and evaluating treatment response
- Enumerate advantages and limits of the imaging techniques currently under development for investigating MS-related damage

Target audience
This programme is designed for 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
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EXCEM ED adheres to the principles of the Good CME Practice group (gCMEp).
LIVE INTERVENTION
27-28 September 2018

The live component of the Learning Journey is a combination of frontal lectures followed by Q&A slots, interactive case studies, visit to the premises and a practical hands-on session.

LEARNING OBJECTIVES
By attending this live educational course you will be able to:
- Apply the main MRI features suitable for differentiating MS from other neurological conditions
- Define NEDA and other MRI-related prognostic markers
- Identify the main software for imaging, post-processing and the basic principles and limits of quantitative analysis in MRI imaging

Venue
This live educational course will take place at the:
San Raffaele Scientific Institute
San Raffaele congress centre
Via Olgettina, 58
20132 Milan, Italy

Language
The official language of the live intervention will be English.

Continuing medical education
An application has been made to the EACCME® for CME accreditation of the EXCEMED course “In-depth MRI techniques and analysis in multiple sclerosis” to be held on 27-28 September 2018 in Milan, Italy.

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PROGRAMME

Thursday, 27 September 2018

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

9.15  
L1: The clinical work up of patients suspected of having MS  
Speaker to be announced

9.45  
L2: The MRI criteria for diagnosing MS  
M. Filippi (Italy)

10.15  
L3: MRI and differential diagnosis in patients suspected of having MS  
A. Falini (Italy)

10.45  
Coffee break

11.15  
L4: Monitoring treatment response with MRI (from NEDA-3 to NEDA-4)  
N. De Stefano (Italy)

11.45  
L5: Individualised treatment in patients with MS  
G. Comi (Italy)

12.15  
Lunch

13.15  
Case studies on diagnosis/differential diagnosis and treatment decision making  
S. Gerevini (Italy) and M.A. Rocca (Italy)

15.15  
Case studies presented by attendees

16.15  
Visit to the Neuroimaging Research Unit

17.00  
End of the first day

Legend:  
L : Lecture  
: Case study  
: Site visit  
: Practical session
Friday, 28 September 2018

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  
           J. Sastre-Garriga (Spain)

13.00 Lunch

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

16.00 Concluding remarks  
       M. Filippi (Italy)

End of the live educational course
ONLINE IN-DEPTH TUTORIALS
November 2018

Continue your Learning Journey after the live intervention!

Online tutorials following the live intervention will help you delve deeper into content and put the key messages of this Learning Journey into clinical practice.

VIDEO CONTRIBUTION
This in-depth resource will be a video contribution with Prof. M. Filippi and will enable to:
- Illustrate the novelties of the most recently released diagnostic criteria for MS
- Grasp the key MRI features to keep in mind in the differential diagnosis work

VIDEO-LECTURE
The final online tutorial will be a video talk by M. Rocca through the video-scribing technique. This contribution will enable to:
- Illustrate the role of cerebellar impairment in MS symptoms, particularly cognition
- Define how to quantify cerebellar damage in MS
- Provide personal view on why a better estimate of cerebellar damage is clinically relevant

Registration
➢ The registration fee for the whole blended programme is EURO 300,00 and includes:
  - Access to the online tutorials
  - Scientific sessions
  - Coffee breaks and luncheons
  - Educational materials
  - Certificate of attendance
  - Dinners are not included

For registration, accommodation and any logistic inquiry, please contact:
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