Remyelination and Repair in Multiple Sclerosis

Program Director  Eric Klawiter, MD, Boston, MA

Program Description
Multiple sclerosis pathology is highlighted by demyelination, inflammation, and axonal damage. Remyelination occurs but is variable and hindered. Promoting remyelination, either through exogenous means or by promoting endogenous differentiation of oligodendrocyte precursor cells into mature oligodendrocytes, is an area of intense interest in multiple sclerosis therapeutics. Faculty will discuss the biology of demyelination and remyelination, how remyelination can be evaluated using advanced imaging (MRI and PET) techniques, and how compounds with remyelinating potential can be screened and selected for further study. The current status of remyelinating therapies in clinical trials will be reviewed. Interactive case discussions will be included.

Learning Objectives
Participants should become familiar with the process of remyelination and repair in the central nervous system. Participants should become familiar with emerging remyelinating therapeutics for multiple sclerosis. They should be equipped to improve their management of patients with multiple sclerosis.

Recommended Audience
Trainee; General Neurologist; Specialist Neurologist; Non-neurologist; Advanced Practice Provider

Core Competencies
Medical Knowledge; Patient Care

Schedule

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<tr>
<th>Time</th>
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| 1:15 p.m.–1:30 p.m. | Introduction  
Eric Klawiter, MD, Boston, MA |
| 1:30 p.m.–2:15 p.m. | The Biology of Demyelination and Remyelination in MS  
Jack P. Antel, MD, FAAN, Montreal, QC, Canada |
| 2:15 p.m.–3:00 p.m. | Use of Imaging to Evaluate Remyelinating Therapies  
Eric Klawiter, MD, Boston, MA |
| 3:00 p.m.–3:15 p.m. | Break |
| 3:15 p.m.–4:00 p.m. | Rapid Screening of Compounds and Therapies in Clinical Trials  
Ari Green, MD, San Francisco, CA |
| 4:00 p.m.–4:15 p.m. | Recap and Questions  
Faculty |

RECOMMENDED COMPANION COURSE — PAGE 13
Diagnosing MS, Mimics, and Myelopathies: Clinical Pearls and Pitfalls