MRI Evidence for Neuroprotection in Multiple Sclerosis: Can Imaging Techniques Measure Remyelination and Regeneration?

**COURSE OVERVIEW**

Conventional MRI can improve the accuracy of MS diagnosis and monitoring, detect therapy effectiveness and refine clinical assessments. However, non-conventional MRI—by capturing a broader range of tissue alterations due to inflammation, demyelination, neurodegeneration and axonal loss—can clarify mechanisms of the underlying pathophysiology as well as the natural history of MS. Detailed discussion of the effects of disease-modifying treatments on these MRI measures will provide the attendees with current, advanced data on which to base their clinical decisions and enhance patient care.

**COURSE OBJECTIVES**

- Describe the role of conventional and non-conventional MRI techniques in monitoring disease progression in MS
- Evaluate cross-sectional and longitudinal outcome studies which used Gd-enhancing, T2-hyperintense and T1-hypointense lesions, brain atrophy, magnetization transfer and spectroscopy metrics
- Assess the effect of disease-modifying treatments on these MRI measures
- Discuss immunological-MRI correlations
- Discuss short- and long-term clinical studies and their relation to conventional MRI techniques
- Discuss emerging MRI techniques to better monitor demyelination, remyelination and regeneration, including optic and regional imaging outcomes
- Discuss the role of quantified imaging in routine clinical practice

**AGENDA**

- **7:30** Registration / Continental Breakfast
- **8:30** Welcome and Introduction
  - Robert Zivadinov, MD PhD
- **8:45** Inflammation and Neurodegeneration in MS as Evidenced by MRI: Current Knowledge and Future Perspectives
  - Robert Zivadinov, MD PhD
- **9:30** Role of New MRI Techniques in Monitoring Inflammation and Neurodegeneration in MS: Implications for New Trial Designs and Better Understanding of MS Pathogenesis
  - Daniel Pelletier, MD
- **10:15** Discussion on MRI Measures
- **10:30** Break
- **10:45** Immunology and MRI: Implications for Better Interpretation of Clinical Trials in MS
  - Peter A. Calabresi, MD
- **11:15** Clinical Status and MRI: Natural History Studies and LongTerm Data from Clinical Trials
  - Mark J. Tullman, MD
- **11:45** Cognitive Status & MRI: Current Knowledge & Future Directions
  - Ralph Benedict, PhD, ABPP-CN
- **12:15** Discussion on Immunological Clinical Topics
- **1:00** Luncheon

**REGISTRATION INFORMATION**

- **Early Registration Deadline:** May 7, 2007
- **Registration Fee:**
  - Prior to Deadline: $35.00
  - On or After Deadline: $45.00
- **Included in Registration Fee:**
  - syllabus
  - program binder
  - meals/refreshments
- **Registrations cancelled prior to May 7, 2007 will be refunded, less a $10.00 processing fee. No refunds issued after May 7, 2007.**

**TARGET AUDIENCE**

Neurologists, multiple sclerosis specialists, neuroradiologists, physicians, residents, medical students, research scholars and pharmaceutical industry representatives.

**ACCREDITATION**

The State University of New York at Buffalo (UB) School of Medicine and Biomedical Sciences is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The UB School of Medicine & Biomedical Sciences designates this educational activity for a maximum of 4.0 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

**AFFILIATIONS**

State University of New York (SUNY) at Buffalo, School of Biomedical Sciences, Continuing Medical Education Office

The Jacobs Neurological Institute, Department of Neurology, SUNY at Buffalo, School of Biomedical Sciences

Event Planning/Organization by Meeting Excellence, Inc.

Support for this program provided by Teva Neuroscience

**PROGRAM DIRECTOR**

Robert Zivadinov, MD, PhD
Associate Professor
Department of Neurology
State University of NY at Buffalo
School of Biomedical Sciences
Director
Buffalo Neuroimaging Analysis Center
The Jacobs Neurological Institute

**FACULTY**

**Daniel Pelletier, MD**
Assistant Professor of Neurology
University of California, San Francisco

**Peter A. Calabresi, MD**
Associate Professor of Neurology
Director, MS Center
Johns Hopkins Hospital, Baltimore

**Mark J. Tullman, MD**
Director, MS Clinical Care Center
Columbia University Medical Center, New York

**Ralph Benedict, PhD, ABPP-CN**
Jacobs Neurological Institute
Associate Professor of Neurology & Psychology
State University of NY at Buffalo
MRI Evidence for Neuroprotection in Multiple Sclerosis: Can Imaging Techniques Measure Remyelination and Regeneration?

May 12, 2007
Marriott Waterfront Hotel
Baltimore, MD

REGISTRATION FORM

ROOM RATE, 5/11 ONLY: $229

Credit Card for Room Reservation

☐ AmEx ☐ Mastercard ☐ VISA

Card No. ___________________________________________ Exp ______

Name ________________________________________________

Title ___________________________________________________________________

Address _________________________________________________________________

City __________________________ State _______ Zip ________

Phone ______________________ Fax ______________________

Email ________________________________

Specialty _________________________________________ MD? Yes ___ No _____

REGISTRATION FEE: Prior to May 7: $35. On/After May 7: $45.

AMOUNT ENCLOSED: __________________

Please make check payable to Meeting Excellence, Inc.

Please mail Registration Form with payment to:

Meeting Excellence, Inc.
ATTN: Ben Carrick
7300 W. 110th St., Suite 700
Overland Park, KS  66210

To register by phone:  (877) 521-2923 (toll-free)
To register by fax:  (913)-317-1505

_____ Please check if dietary restrictions/limitations apply.
_____ Please check if ADA accommodation/access is required.

Please direct any questions or concerns regarding registration or the MRI seminar to Ben Carrick at Meeting Excellence at the above phone number.