

# Neuroimaging in Multiple Sclerosis

Presented by the International Organization of MS Nurses (IOMSN)

Release Date: February 1, 2011 Credit Expiration: February 1, 2013



## Registration Information

In order to successfully complete this continuing education (CE) activity, the participant must register online at [www.iomsn.org](http://www.iomsn.org), view this one-hour DVD, and complete the activity post-test and evaluation online.

## The one-hour program includes:

Part I: Program information and instructions for credit

Part II: Neuroimaging in MS: Key Concepts

Part III: Neuroimaging in MS: MRI and the Clinical Team

Part IV: Review "Consortium of MS Centers MRI Protocol for the Diagnosis and Follow-up of MS; 2009 Revised Guidelines" online at [www.mscares.org](http://www.mscares.org).

Upon completion of the course requirements and online registration, IOMSN members will receive a Certificate of Completion. This will enable you to register your credit with the appropriate licensing board.

## Program Information

Description: Two important elements are essential in the diagnosis and ongoing care of patients with multiple sclerosis (MS). These two elements are (1) the use of a standardized MRI protocol for diagnosis and follow-up of patients, and (2) a multidisciplinary team approach to provide comprehensive care of patients with MS. All members of the team and the patients need to understand the importance of neuroimaging, what MRI can tell us

about the patient's disease and symptoms, how an MRI works and what patients undergoing an MRI can expect. With regard to the team approach, the varied disciplines involved in patient care, including neurologists, nurses, rehabilitation professionals, other physicians, social workers, and psychologists need to be sure to maintain open lines of communication to enable the team to provide the patient with optimal levels of care.

Please note: Part II: Neuroimaging in MS: Key Concepts was initially released in January, 2009. The content was reviewed in 2010 and determined to be accurate & evidence-based.

### **Target Audience**

Nurse Practitioners and Nurses, rehabilitation professionals, social workers, psychologists and other healthcare providers who treat patients with multiple sclerosis.

### **Learning Objectives**

Upon completion of this program, attendees will:

- Explain the standardized MRI (magnetic resonance imaging) protocol used as part of an initial evaluation and follow-up of patients with suspected and/or established multiple sclerosis
- Describe conventional MRI images including T2 imaging, FLAIR, T1 imaging and T1 with gadolinium
- Identify effective tools when communicating with and educating patients about undergoing an MRI and how information is used in diagnosis and disease management
- Describe the multidisciplinary team approach that enhances communication among health care professionals on the MS professional team

## Faculty

### **Kathleen Costello, MS, ANP-BC, MSCN**

Research Associate/Nurse Practitioner  
Johns Hopkins MS Center  
Department of Neurology  
Baltimore, MD, US

Kathleen M. Costello has disclosed that she has served as a consultant to Acorda Therapeutics, Biogen Idec, EMD Serono, Novartis, and Teva Neuroscience.

### **Colleen Harris, MN, NP, MSCN**

Nurse Practitioner  
Coordinator, Multiple Sclerosis Clinic  
University of Calgary MS Clinic  
Foothills Medical Centre  
Calgary, Alberta, Canada

Colleen Harris has disclosed that she has served as a consultant to Biogen Idec, Bayer HealthCare Pharmaceuticals, EMD Serono, Novartis, and Teva Neuroscience.

### **Stephen S. Kamin, MD**

Associate Professor  
Department of Neurology & Neurosciences  
New Jersey Medical School  
Newark, NJ, US

Stephen S. Kamin, MD, has disclosed that he has conducted contracted research for Biogen Idec and EMD Serono.

### **Carrie Lyn Sammarco, DrNP, FNP-C, MSCN**

Nurse Practitioner  
Multiple Sclerosis Care Center  
NYU Langone Medical Center  
New York, NY, US

Carrie Lyn Sammarco has disclosed that she has served as a consultant to Biogen Idec, EMD Serono, Novartis, and Teva Neuroscience.

**Christine Smith, OTR/L**

Oradell Healthcare Center  
Oradell, NJ, US

Christine Smith has disclosed that she has served on the advisory board for Acorda Therapeutics.

All faculty have indicated that their presentations will *not* include discussion of unlabeled use of a product or an investigational use of a product not yet approved by the FDA.

The potential conflicts of interest of faculty members have been resolved through the following mechanisms:

- Faculty's use of best available evidence to support conclusions
- Faculty will refrain from making treatment recommendations

**Program Planning**

**June Halper, APN-C, MSCN, FAAN**

Executive Director  
Consortium of Multiple Sclerosis Centers (CMSC)  
International Organization of Multiple Sclerosis Nurses (IOMSN)  
Hackensack, NJ, US

June Halper has disclosed that she has served as a consultant to Acorda Therapeutics, Biogen Idec, and Novartis.

**Lori Saslow, MS**

Medical Writer/ Program Producer  
LS Science & Medical Communications, LLC  
Great Neck, NY, US

Lori Saslow, Medical Writer/Program Producer, has disclosed no significant financial relationships.

**Laurie Scudder, DNP, NP**

Curriculum Coordinator  
NP Alternatives  
Ellicott City, MD, US

Laurie Scudder, DNP, NP served as nurse planner for this activity. She has disclosed no significant financial relationships.

**Accreditation and CE for Nurses**

This Educational Activity is co-provided by the International Organization of Multiple Sclerosis Nurses (IOMSN) and Nurse Practitioner (NP) Alternatives.

NP Alternatives is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center's (ANCC) Commission on Accreditation.

Awarded 1.0 contact hour(s) of continuing nursing education for RNs and APNs (none of these credits are in the area of pharmacology).

Accreditation of this program does not imply endorsement by IOMSN, NP Alternatives, or ANCC.

## Program Support

This program is supported by educational grants from EMD Serono, Inc., and Teva Neuroscience, Inc.

## Instructions for Credit

Participants must view all parts of the activity in order to earn credit. To use the website links listed below, please log on to the IOMSN website.

Please read and review Part I: Program information and instructions for credit including target audience, objectives, faculty disclosures, accreditation statements and commercial supporter information.

Please view [Part II: Neuroimaging in MS: Key Concepts](#) (running time: 26:00)

Please view [Part III: Neuroimaging in MS: MRI and the Clinical Team](#) (running time: 19:00)

After viewing Part I, II and III of the program, please review the "[Consortium of MS Centers MRI Protocol for the Diagnosis and Follow-up of MS; 2009 Revised Guidelines](#)" online at <http://mscare.org/cmssc/images/pdf/mriprotocol2009.pdf>.

To obtain credit, complete the [registration information, evaluation, and post-test](#) available online at [www.iomsn.org](http://www.iomsn.org). Follow all instructions on the website. You must answer all evaluation questions to receive a certificate. After completion of registration and evaluation, you will receive a certificate of completion within 30 days.

Thank you for your participation!