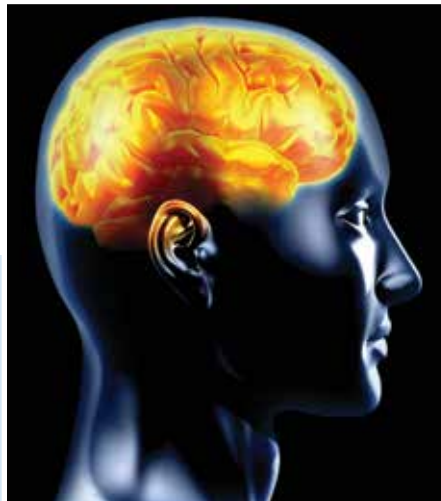


# Fourth Annual Intensive Update in **Neurology**



**Thursday and Friday,  
September 11-12, 2014**

Swedish Education and Conference Center  
Swedish Medical Center/Cherry Hill  
500 17th Avenue  
Seattle, Washington

## Needs Statement

Neurologic illness affects millions of people in the United States. Because neurology is a rapidly changing field, there is a need for ongoing education of health-care professionals who see patients with disorders of the nervous system. Because there is a shortage of neurologists with practices outside of large metropolitan areas, patients who live in rural or small town communities often rely on primary-care providers, family practice physicians and other allied health professionals for diagnoses and treatment. These providers need to have access to practical and new information regarding diagnosing, treating and managing patients with neurologic conditions.

For many neurologic conditions, early diagnosis and urgent treatment are vital for the patient's quality-of-life and safety. There are many facets to consider when working with patients with neurologic symptoms. Symptoms of many neurologic illnesses overlap, and changing symptoms as the ailment progresses further complicates matters. Some neurologic conditions are correlated, which adds to the complexity of diagnosing and treatment strategies. Ongoing research continues to lead to better understanding of neurologic conditions and improved treatment options. Updates in diagnostic criteria and treatment options are vital to the care of patients with neurologic conditions. Attendees will leave with new techniques for better managing this diverse population.

## Course Description

This symposium will provide attendees with practical information on the management of patients with a variety of neurological diseases. Attendees will be equipped to provide high-quality care to their patients with dementia, stroke, epilepsy, multiple sclerosis, Parkinson's disease, hyperkinetic movement disorders, migraine, episodic vertigo, intracranial hypertension and hypotension, brain tumor, hearing loss, neuro-infectious diseases, spine pain, and depression. These topics may be encountered by primary-care physicians and allied health providers at any time, and updates in diagnostic criteria and treatment options are vital to the care of their patients. Attendees will leave with new techniques for better managing this diverse population.

## Intended Audience

The Fourth Annual Intensive Update in Neurology symposium is intended for general neurologists, neurology residents and fellows, primary-care and family practice physicians, advanced practice clinicians, psychiatrists, psychologists, allied health providers and neurosurgeons in the Pacific Northwest.

## Accreditation with Commendation

Swedish Medical Center is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

## AMA PRA Category 1 Credits™

Swedish Medical Center designates this live activity for a maximum of *AMA PRA Category 14.0 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## Nursing CE Contact Hours

14.0 nursing contact hours will be provided by Swedish Medical Center Clinical Education and Practice, an approved provider of continuing nursing education by the Washington State Nurses Association Continuing Education Approval & Recognition Program (CEARP), an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.

## Acknowledgments

This symposium is financially supported in part by educational grants in accordance with ACCME's Standards for Commercial Support. At the time of this printing, a complete listing of commercial supporters was not available. Appropriate acknowledgment will be given to all supporters at the time of the symposium.

## Planning Committee

Eric P. Gierke, M.D., *Course Chair*  
Lisa M. Caylor, M.D.  
Michael J. Doherty, M.D.  
Laura E. Jacob, MEd, *Education Program Administrator*  
Eugene F. May, M.D.  
Jennifer L. More, R.N., *Nursing Education*  
Pavle Repovic, M.D., Ph.D.  
Ednea A. Simon, M.D.  
Jennifer L. Witt, M.D.  
Anna Wong, M.D.

# Agenda

## September 11, 2014

- 7:30 a.m. **Registration and Continental Breakfast**
- 7:50 a.m. **Welcome and Introductions**  
Eric P. Gierke, M.D.
- 8 a.m. **New Molecular Approaches to Diagnosing and Treating Dementia**  
Bruce L. Miller, M.D.
- 9 a.m. **Update on Acute Stroke Management and Secondary Prevention**  
Aaron N. Stayman, M.D.
- 9:40 a.m. **Break**
- 9:55 a.m. **Pregnancy Issues in Women with Epilepsy**  
Lisa M. Caylor, M.D.
- 10:35 a.m. **Epileptic Syndromes in Infancy and Childhood**  
Ednea A. Simon, M.D.
- 11:15 a.m. **20 Years, 10 Therapies: Benefits and Risks of Multiple Sclerosis (MS) Treatments**  
James D. Bowen, M.D.
- 11:55 a.m. **Lunch**
- 12:40 p.m. **Management of Parkinson's Disease and Cognitive/Psychiatric Complications**  
Cyrus Zabetian, M.D., MS
- 1:20 p.m. **Hyperkinetic Movement Disorders**  
Susie I. Ro, M.D.
- 2 p.m. **Migraine Therapy**  
Anna Wong, M.D.
- 2:40 p.m. **Break**
- 2:55 p.m. **Diagnosis and Management of Episodic Vertigo**  
Eugene F. May, M.D.
- 3:35 p.m. **What's New in the Treatment of Idiopathic Intracranial Hypertension?**  
Steven R. Hamilton, M.D.
- 4:15 p.m. **Intracranial Hypotension**  
Sarah J. Fouke, M.D.
- 4:55 p.m. **Adjourn**

## September 12, 2014

- 7:30 a.m. **Continental Breakfast**
- 8 a.m. **Neuro-Oncology Update**  
Tara L. Benkers, M.D.
- 8:40 a.m. **DAT Scan/Amyloid PET Scan: Sensitivity, Specificity and Uses**  
Vivek Manchanda, M.D.
- 9:20 a.m. **Technology in the Treatment of Hearing Loss**  
Douglas D. Backous, M.D.
- 10 a.m. **Break**
- 10:15 a.m. **The Spectrum of Immune-Mediated Neuropathies: Presentation, Pathogenesis and Treatment**  
Michael D. Weiss, M.D., FAAN, FANA
- 10:55 a.m. **Neuro-infectious Diseases with an Update on Lyme Disease of the Nervous System**  
Emily L. Ho, M.D., Ph.D.
- 11:35 a.m. **Neurotoxin Applications for Neurogenic Bladder Patients**  
Mia Swartz, M.D.
- 12:15 p.m. **Lunch**
- 1 p.m. **Spinal pain: A Practical, Evidence-Based Approach to a Multifactorial Problem**  
Gordon A. Irving, M.D.
- 1:40 p.m. **Management of Treatment Resistant Depression Plus Agitation**  
Lina Fine, M.D., MPhil
- 2:20 p.m. **Break**
- 2:35 p.m. **Approach to Pituitary Patients**  
Frances Broyles, M.D.
- 3:15 p.m. **Update in Rehabilitation Techniques**  
Angeli Mayadev, M.D.
- 3:55 p.m. **Adjourn**

## Location

Swedish Medical Center/Cherry Hill is located at 500 17th Avenue in Seattle, Washington. The conference will be held in the Swedish Education and Conference Center on the first floor of the James Tower. Parking is available in the garage on 16th Avenue between Cherry and Jefferson at a maximum fee of \$16.50 per day. From I-5 (northbound and southbound), take the James Street exit. Travel east on James Street. James will become Cherry Street. Turn right (south) on 16th Avenue. Turn right into the main garage entrance.



# Course Objectives

***At the conclusion of this symposium, the participant will provide better patient care through an increased ability to:***

- Explain how degeneration of specific neuroanatomical systems gives rise to specific behavioral dysfunctions, describe the neuropathology and genetics of neuro-degenerative diseases leading to dementia and identify current and potential directions for the development of treatments
- Describe current evidence-based approaches to acute stroke management, review new evidence in secondary stroke prevention and discuss what's new in stroke rehabilitation
- Outline the known major teratogenic risks of anti-convulsants, review management of anticonvulsants during pregnancy and in the postpartum period, and review obstetric risks in women with epilepsy
- Recognize different epileptic syndromes in infancy and childhood, review EEG findings and seizure semiology in epileptic syndromes in infancy and childhood and outline treatment and prognosis in epileptic syndromes in infancy and childhood
- Discuss the efficacy of approved treatments for Multiple Sclerosis (MS), as established in their pivotal trials, list the known risks and side effects of each treatment class and provide tools for individual risk/benefit assessment, including the risk of inadequate disease control
- Describe the relationship between treatments for Parkinson's Disease and cognitive/psychiatric complications, recognize when further medical work-up is needed to evaluate for a second process and discuss the data for pharmacotherapy to treat cognitive and psychiatric non-motor symptoms
- Review phenomenology, diagnosis and management of common hyperkinetic movement disorders and describe several video case studies
- Outline current and upcoming migraine treatments
- Generate a differential diagnosis of episodic vertigo, differentiate peripheral vs. central etiology of vertigo and review treatment options for various types of episodic vertigo
- Describe the first year results of the Idiopathic Intracranial Hypertension Treatment Trial, review current grading system of papilledema and outline the medical and surgical treatment options for intracranial hypertension
- Recognize intracranial hypotension, describe the diagnosis and identification of causes of intracranial hypotension and manage intracranial hypotension
- Review therapeutic management for patients with glioblastoma and discuss clinical trial therapeutics on the horizon for glioblastoma
- Discuss amyloid PET scan and DAT scan and their sensitivity and specific uses
- Outline the role of electrophysiology in hearing loss assessment; list the indications for cochlear implants and brainstem implants.
- Recognize classic and atypical presentations of inflammatory neuropathies, identify autoantibodies associated with these disorders that aid in their diagnosis and management, and formulate appropriate algorithms for treating these forms of peripheral neuropathy
- Describe clinical presentation, appropriate diagnostic studies, management and treatment of neuro-infectious diseases, including neuroborreliosis — Lyme disease of the nervous system
- Review history of neurotoxins and their mechanism of action, explain initial evaluation of neurogenic bladder patient and how to identify neurotoxin treatment candidates and describe three neurotoxin applications for treatment of neurogenic bladder issues and outcomes
- Discuss some of the pathophysiology that may perpetuate spinal pain, develop a logical approach to treatment of spinal pain and decide when certain investigations and procedures are indicated and when they are not
- Explain the correct use of psychotropic medications in patients with neurological conditions, explain how to switch antidepressant and use adjunctive therapies in the specific neurological population; and manage agitation in the outpatient setting pharmacologically and through behavioral recommendations to the patients and caretakers
- Describe how to approach pituitary function, discuss treatment of pituitary hormone dysfunction and review common presentations of pituitary patients
- Review new technologies in rehabilitation medicine and discuss robotic devices for rehabilitation

# Fourth Annual Intensive Update in Neurology

## Faculty

**Douglas D. Backous, M.D.**

Medical Director, Center for Hearing and  
Skull Base Surgery  
Swedish Neuroscience Institute  
Seattle, Washington

**Tara L. Benkers, M.D.**

Neuro-Oncologist  
The Ben and Catherine Ivy Center  
Swedish Neuroscience Institute  
Seattle, Washington

**James D. Bowen, M.D.**

Medical Director, Multiple Sclerosis Center  
Swedish Neuroscience Institute  
Seattle, Washington

**Frances Broyles, M.D.**

Director of Neuroendocrinology and Diabetes  
Swedish Medical Center  
Associate Clinical Professor, Endocrinology  
and Metabolism  
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Seattle, Washington

**Lisa M. Caylor, M.D.**

Epileptologist  
Swedish Medical Center  
Seattle, Washington

**Lina Fine, M.D., MPhil**

Attending Physician, Sleep Medicine  
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Neurosurgeon  
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Seattle, Washington

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Clinical Professor of Neurology  
and Ophthalmology  
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Seattle, Washington

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Seattle, Washington

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Swedish Medical Center  
Clinical Associate Professor  
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**Vivek Manchanda, M.D.**

Section Chief, Nuclear Radiology  
Radia, Inc.  
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**Eugene F. May, M.D.**

Neuro-Ophthalmologist  
Swedish Neuroscience Institute  
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Seattle, Washington

**Angeli Mayadev, M.D.**

Staff Physician, Multiple Sclerosis Center  
Swedish Neuroscience Institute  
Seattle, Washington

**Bruce L. Miller, M.D.**

Professor in Residence  
A. W. and Mary Margaret Clausen  
Distinguished Professor in Neurology  
University of California  
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**Susie I. Ro, M.D.**

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Swedish Neuroscience Institute  
Seattle, Washington

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Adjunct Professor of Rehabilitation  
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**Anna Wong, M.D.**

Neurologist  
Swedish Neuroscience Institute  
Seattle, Washington

**Cyrus Zabetian, M.D., MS**

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University of Washington School  
of Medicine  
Seattle, Washington

**Registration Information:**

Preregistration is required as space is limited. Participants who register by the "Advance Registration" deadline will receive a confirmation postcard after Tuesday, September 2, 2014. Registrations will only be processed when accompanied by full payment.

**Cancellation:**

To receive a refund, notice of cancellation must be received no later than **Friday, September 5, 2014**.

**If using the registration form, please mail or fax it to:**

Continuing Medical Education  
Swedish Medical Center  
747 Broadway  
Seattle, WA 98122  
Fax: 206-320-7462

Please note: No registrations are accepted by phone or e-mail.

If you have special needs, please contact the CME office at 206-386-2755.



Save time —  
register online!

[www.swedish.org/cme](http://www.swedish.org/cme)

# Fourth Annual Intensive Update in Neurology

Thursday and Friday, September 11-12, 2014

*Please print or type information*

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PHONE FAX

E-MAIL

EMERGENCY CONTACT NAME AND PHONE NUMBER

SPECIALTY

**Registration Fees: Please check one of the following:**

|                            | <b>Advance<br/>Registration</b> | <b>After<br/>Sept. 2</b>       |
|----------------------------|---------------------------------|--------------------------------|
| M.D. or D.O.               | <input type="checkbox"/> \$490  | <input type="checkbox"/> \$520 |
| Allied Health Professional | <input type="checkbox"/> \$245  | <input type="checkbox"/> \$275 |
| Medical Student            | <input type="checkbox"/> \$25   | <input type="checkbox"/> \$55  |
| Resident or Fellow         | <input type="checkbox"/> \$25   | <input type="checkbox"/> \$55  |

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