Seventh Annual Cerebrovascular Symposium:
Practical Aspects of Stroke and Cerebrovascular Care

Thursday and Friday,
May 9-10, 2013

Swedish Education and Conference Center
Swedish Medical Center/Cherry Hill
500 17th Avenue
Seattle, Washington
Course Description
This course will provide up-to-date and practical clinical information on the diagnosis, treatment and management of stroke and cerebrovascular disease. Faculty from a multidisciplinary team of neurovascular specialists will provide an update on technological advances in the field from the perspectives of stroke neurology, neuroradiology, interventional radiology, neurosurgery, cardiology, neuropsychology and telenurology. Attendees will participate in hands-on demonstrations of a carotid endarterectomy, aneurysm clipping and endovascular procedures using a simulation system.

Needs Statement
Health-care providers today are faced with a rapidly growing population of patients with both acute and chronic cerebrovascular disease. Stroke is the fourth leading cause of death in the United States. Each year, approximately 795,000 people experience a new or recurrent stroke in the United States. On average, every 40 seconds, someone has a stroke in the United States. Clinicians may not be aware of all of the factors in the development of stroke and the complications of stroke presentation and management.

With the rapid advancements in the management of cerebrovascular disease, clinicians and hospitals need to quickly adapt their practices. This meeting provides information that will give providers updated data to apply in their practices. Participants will be presented with the latest findings in stroke care, including endovascular treatments, trends in neurocritical care, analysis of complex case studies and cognitive deficits resulting from stroke. Various treatment options will be explored and case discussions will be used to help determine which option is best for each case.

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

- Discuss recently completed and ongoing clinical trials in acute stroke and review experimental ways to amplify thrombolysis
- Review presentations and etiologies of stroke in young patients
- Differentiate how and why stroke differs in women and review how to manage stroke in women
- Describe the role of the telepresenter, review how telestroke and teleneurology work with regard to reimbursements and discuss the differences between telestroke consultations and comprehensive telenurology consultations
- Outline clinical and radiographic indications for acute stroke intervention, outline technical approaches for clot retrieval and describe complications of acute intervention and their treatment
- Discuss the TPA protocol in the setting of acute ischemic stroke in the ICU and decide if it is ever reasonable to deviate from this protocol, review the management of malignant cerebral edema in the setting of acute ischemic stroke in the ICU and discuss who is appropriate for decompressive craniectomy
- Review medical complications of patients with subarachnoid hemorrhage and discuss updates in current management of vasospasm after subarachnoid hemorrhage
- Recognize the increasing burden of intracranial hemorrhage, review the causes of intracranial hemorrhage and describe methods for secondary and primary prevention of intracranial hemorrhage
- Compare current medical and surgical management of intracerebral hemorrhage, discuss current and ongoing clinical trials in the surgical management of intracerebral hemorrhage and investigate potential future interventions for intracerebral hemorrhage
- Describe neuroimaging models of identifying tissue at risk in acute stroke, review clinical applications of CT/MR perfusion in acute stroke patient selection and review ongoing clinical trials and research models using neuroimaging in acute stroke treatment patient selection
- Identify current antithrombotic strategies for carotid dissections, discuss how management of intracranial and extra cranial carotid dissections may differ and review current indications for medical management versus endovascular interventions of carotid dissections
- Outline multi-modality evaluation of acute stroke, explain differential diagnostic algorithms and review case-based problem solving
- Discuss the purpose of flow diversion and describe the design and purpose of stent-triever technology
- Review the frequency and underlying causes of familial aneurysms, outline the latest information regarding genetic causes of aneurysms and review management of familial aneurysms
- Describe techniques for carotid endarterectomy dissection and explain potential outcomes
- Discuss stent placement and how stroke devices work, describe the purpose of the guiding catheter and review the balance between material stiffness and compliance when stenting
- Review the basic surgical principals involved in aneurysm clipping and which patients may be suitable for surgery and list the risks and benefits of surgical clipping versus endovascular treatment of aneurysms
- Outline the underlying basis of atherosclerosis, discuss the clinical tools for detection of early and advanced atherosclerosis disease and review strategies to prevent progression of atherosclerosis disease
- Discuss what algorithms work and review adherence to regimen
- List typical neurocognitive deficits in cerebrovascular disease, discuss the scientific basis, process and outcomes of neuropsychological evaluation and review how the evaluation of neurocognitive deficits guides diagnosis and treatment
- Describe the classification and prognosis of different types of aphasia; describe the often non-obvious, but potentially serious, safety issues in non-dominant parietal stroke and review the role and changeable nature of the rehabilitation team in stroke recovery
- Explain how to generate 3D ultrasound images of the carotid arteries, analyze carotid plaques in 3D and evaluate the progression and regression of carotid atherosclerosis
- Outline multi-modality evaluation of acute stroke and review case-based problem solving
Thursday, May 9, 2013

7:15 a.m.  Registration and Continental Breakfast
7:45 a.m.  Welcome and Introductions  David W. Newell, M.D.
8 a.m.    Keynote: Acute Stroke Trials  Andrei V. Alexandrov, M.D.
9 a.m.    Stroke in the Young  Thomas A. Deuel, M.D., Ph.D.
9:30 a.m.  Stroke in Women: It’s Different  William H. Likosky, M.D.
10 a.m.   Teleneurology/Telestroke  Todd J. Czartoski, M.D.; William H. Likosky, M.D.
10:30 a.m. Break
10:45 a.m. Acute Stroke Intervention  Ruth Thiex, M.D., Ph.D.
11:15 a.m. Neurointensive Care: Scenarios  Sheila D. Smith, M.D.
11:45 a.m. Cerebral Autoregulation Testing: Is there a Role in Clinical Management?  Arthur M. Lam, M.D., FRCPC
12:15 p.m. Lunch
1:15 p.m.  Intracranial Hemorrhage: Epidemiology and Natural History  Joseph P. Broderick, M.D.
2:15 p.m.  Current and Future Management of Intracerebral Hemorrhage  Stephen J. Monteith, M.D.
2:45 p.m.  Perfusion Imaging to Guide Acute Stroke Therapy: Does the Emperor Have Clothes?  Ted J. Lowenkopf, M.D.
3:15 p.m.  Break
3:25 p.m.  Carotid Artery Dissection Management  Madeleine C. Geraghty, M.D.
3:55 p.m.  Acute Stroke and Ultrasound Case Examples  Andrei V. Alexandrov, M.D.
4:20 p.m.  The Future: What’s New in Endovascular?  Yince Loh, M.D.
4:50 p.m.  Break

Featured Address
The Merrill P. Spencer, M.D. Endowed Lecture
5 p.m.  Reception in Honor of Joseph P. Broderick, M.D., Merrill P. Spencer, M.D., Lecturer James Tower
5:55 p.m. Welcome and Introductions  David W. Newell, M.D.
6 p.m.  Familial Aneurysms  Joseph P. Broderick, M.D.
7 p.m.  Adjourn

Friday, May 10, 2013

7:30 a.m.  Continental Breakfast
7:45 a.m.  Welcome and Announcements  William H. Likosky, M.D.

The Hands-on Brain Lab and Didactic Session will be repeated in the morning and afternoon, so that all attendees will have the opportunity to attend both activities.

8 a.m.  Move to Breakout Sessions
Hands-on Brain Lab – Seattle Science Foundation
Didactic – Education & Conference Center

Morning Hands-on Brain Lab
*Nursing CE Hours are not awarded for the Hands-on Brain Lab
8:15 a.m.  Brain Lab Station 1: Carotid Endarterectomy  David W. Newell, M.D.
8:15 a.m.  Brain Lab Station 2: Pipeline Stenting and Solitaire Simulation  Joseph M. Eskridge, M.D.
8:15 a.m.  Brain Lab Station 3: Aneurysm Clipping  Stephen J. Monteith, M.D.

Morning Didactic Session
8:15 a.m.  Atherosclerosis Discussion  Gary Oppenheim, M.D.
8:45 a.m.  Panel Discussion: Secondary Prevention of Stroke  Madeleine C. Geraghty, M.D.; William H. Likosky, M.D.; Ted J. Lowenkopf, M.D.; Gary Oppenheim, M.D.
9:15 a.m.  Cognitive Deficits in Stroke  Karen M. Sanders, Ph.D.
9:45 a.m.  Break
10 a.m.  Rehabilitation and Recovery after Stroke  Jeffrey B. Moo, M.D.; Karen M. Sanders, Ph.D.
10:30 a.m.  3-D Ultrasound of the Carotid Arteries  Aaron Fenster, Ph.D., FCCPM
11 a.m.  Case Presentations of Stroke – Imaging  Andrei V. Alexandrov, M.D.; Bart P. Keogh, M.D., Ph.D.
11:30 a.m.  Lunch

Afternoon Hands-on Brain Lab
*Nursing CE Hours are not awarded for the Hands-on Brain Lab
12:15 p.m.  Brain Station 1: Carotid Endarterectomy  David W. Newell, M.D.
12:15 p.m.  Brain Station 2: Simulation: Pipeline Stenting and Solitaire  Joseph M. Eskridge, M.D.
12:15 p.m.  Brain Station 3: Aneurysm Clipping  Stephen J. Monteith, M.D.

Afternoon Didactic Session
12:15 p.m.  Atherosclerosis Discussion  Gary Oppenheim, M.D.
12:45 p.m.  Panel Discussion: Secondary Prevention of Stroke  William H. Likosky, M.D.; Ted J. Lowenkopf, M.D.; Gary Oppenheim, M.D.
1:15 p.m.  Cognitive Deficits in Stroke  Karen M. Sanders, Ph.D.
1:45 p.m.  Break
2 p.m.  Rehabilitation and Recovery after Stroke  Jeffrey B. Moo, M.D.; Karen M. Sanders, Ph.D.
2:30 p.m.  3-D Ultrasound of the Brain  Aaron Fenster, Ph.D., FCCPM
3 p.m.  Case Presentations of Stroke – Imaging  Andrei V. Alexandrov, M.D.; Bart P. Keogh, M.D., Ph.D.
3:30 p.m.  Adjourn

5 p.m.  Reception in Honor of Joseph P. Broderick, M.D., Lecturer James Tower
5:55 p.m. Welcome and Introductions  David W. Newell, M.D.
6 p.m.  Familial Aneurysms  Joseph P. Broderick, M.D.
7 p.m.  Adjourn
Intended Audience
This conference is targeted towards neurologists, neurosurgeons, neuroradiologists, vascular surgeons, emergency physicians, nurse practitioners, physician assistants, nurses and allied health professionals who are closely involved in the management of patients with cerebrovascular disease and has a specific focus on comprehensive stroke.

About The Merrill P. Spencer, M.D. Endowed Lectureship
The Merrill P. Spencer, M.D. Endowed Lectureship was established in 2006 to honor the memory of Dr. Spencer who enjoyed a long and distinguished career as a physician, professor, researcher and innovator. Dr. Spencer earned an international reputation for his groundbreaking work with Doppler ultrasound technology and was a pioneer in stroke prevention. This lectureship, established by an initial gift from The Institute of Applied Physiology and Medicine, founded by Dr. Spencer in 1972, honors his belief in the importance of always searching for new answers and sharing those answers with others through continuing programs of medical education.

The Merrill P. Spencer, M.D. Endowed Lectureship is presented annually at the Cerebrovascular Symposium. This year, we are pleased to welcome Joseph Broderick, M.D., an internationally recognized expert on the acute treatment of stroke, the epidemiology of stroke, and causes and management of hemorrhagic stroke. He has led the largest study of familial aneurysms in the world (the FIA study). He is co-founder of the Greater Cincinnati/Northern Kentucky Stroke Team and Director of the Cerebrovascular Research Program at the University of Cincinnati.

Dr. Broderick has 732 publications and has received numerous awards including the 2003 William M. Feinberg Award for Excellence in Clinical Stroke from the Stroke Council of the American Stroke Association, the 2010 Daniel Drake Medal which is the highest honor offered by the University of Cincinnati College of Medicine for his major significant contributions to medical research, and the American Heart Association Clinical Research Prize in recognition of outstanding contributions to advancement of cardiovascular science and accomplishments as a clinical scientist. He also has been named as one of the Best Heart & Stroke Physicians in the United States by Good Housekeeping and continuously one of the Best Doctors in America (National Surveys – Woodward-White and Best Doctors, Inc.).

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 14.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nursing CE Contact Hours
11.0 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.

*Nursing CE Hours are not awarded for the Hands-on Brain Lab

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
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Arthur M. Lam, M.D., FRCPC
Theodore J. Lowenkopf, M.D.
Jessica Martinson, MS, CME Manager
Jennifer More, R.N., MN, CNRN, Clinical Education

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. 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.
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Faculty

Andrei V. Alexandrov, M.D.
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Birmingham, Alabama

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Registration Information:
Preregistration is required as space is limited. Participants who register by the “Advance Registration” deadline will receive a confirmation postcard after Monday, Monday, April 29, 2013. 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, May 3, 2013.

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

Registration Fees: Please check one of the following:

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<th>Specialty</th>
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<td>M.D. or D.O.</td>
<td>$590</td>
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