Ninth Annual Cerebrovascular Symposium:
Controversies in Stroke and Cerebrovascular Disease

Thursday and Friday
May 14-15, 2015

Swedish Education and Conference Center
Swedish Cherry Hill
500 17th Ave.
Seattle, Washington
Needs Statement

Healthcare providers today are faced with a rapidly growing population of patients with both acute and chronic cerebrovascular disease. Stroke remains a leading cause of death, killing almost 130,000 people in the United States annually. Each year, approximately 795,000 people experience a new or recurrent stroke in the United States. On average, one American dies from stroke every four minutes. Clinicians may not be aware of all of the factors in the development of stroke and the complications of stroke presentation and management. Cerebrovascular disease and stroke management is complex and requires ongoing education for neurologists, neurosurgeons, cardiologists and other sub-specialists who see patients with these conditions. With the rapid advancements in technology and treatment modalities, clinicians and hospitals need to quickly adapt their practices. Successful treatment requires complex strategies and it may be difficult for physicians to choose among the magnitude of options for diagnosis and treatment. Advances in technology occur rapidly, which can leave physicians without up-to-date knowledge of best practices, treatment options and research findings. A multidisciplinary approach to diagnosing and treating patients with stroke and cerebrovascular disease is vital to their outcomes. In order to provide the most informed and evidence-based care for patients, all healthcare providers who may encounter these patients must remain abreast to innovations in cerebrovascular care.

Healthcare providers are faced with a range of options for treating patients with cerebrovascular disease: monitoring, medication, surgery and many technological advances. Cardiologists, neurologists and neurosurgeons must work together in order to decide each patient’s best treatment plan. There has been some debate about the safety and efficacy of novel anticoagulants. There has also been discussion about new technological devices versus surgical intervention for managing this patient population. There are constantly new approaches on the horizon. There is no easy answer; therefore continuing education is essential for all healthcare providers who may encounter patients with cerebrovascular disease.

Course Description

This symposium will provide attendees with updated information about rapid advances in all major areas of clinical interest in stroke and cerebrovascular disease management that they can apply in their practices. Faculty from a multidisciplinary team of neurovascular specialists will provide an update on advances in the field from the perspectives of neurology, neuroradiology, interventional radiology, neurosurgery, cardiology and teleneurology.

On the first day of the symposium, participants will be presented with the latest findings in stroke and cerebrovascular care, including transcranial doppler for acute stroke, novel and time-honored anticoagulants, new technological innovations, endovascular treatments, surgical approaches and imaging. Various treatment options will be explored and debated; and panel discussions focused on challenging cases will be used to help determine which option is best for each patient. Controversies in aneurysm and carotid treatment, stroke treatment and guidelines, neurointensive care options and updates in neuro-interventions. The second day of the symposium will include hands-on demonstrations that will provide learners with the opportunity to view and practice various techniques related to stroke and cerebrovascular disease: carotid endarterectomy, coiling, stenting, cranial surgical techniques, Transcatheter Aortic Valve Replacement (TAVR), Transcranial Doppler (TCD) and the use of a 3-D microscope.

Intended Audience

This symposium is intended for neurologists, neurosurgeons, neuroradiologists, vascular surgeons, cardiologists, emergency physicians, nurse practitioners, physician assistants, nurses and other allied health professionals who are closely involved in the management of patients with cerebrovascular disease and has a specific focus on comprehensive stroke in WA, AK, ID, MT, OR and CA.

Acknowledgments

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For Further Information:
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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.
Thursday, May 14, 2015

7:30-8 a.m. Registration and Continental Breakfast

8-8:55 a.m. Keynote: Transcranial Doppler (TCD) for Acute Stroke
Andrei V. Alexandrov, M.D.

8:55-9:25 a.m. Atrial Fibrillation and Ambulatory Monitoring: Piranha or Red Herring?
Adam H. Zivin, M.D.

9:25-10:00 a.m. Too Many New Anticoagulants! How Do They Work and How Do I Stop Them From Working In My Hemorrhaging Patient?
Lori B. Heller, M.D.

10-10:30 a.m. Pros and Cons: Efficacy/Safety of Novel Oral Anticoagulants vs. Warfarin
R. Jeffrey Westcott, M.D.

10:30-10:45 a.m. Break

10:45-11:15 a.m. Stroke and Atrial Fibrillation: Can Catheter Therapies Reduce Risk?
Darryl S. Wells, M.D., FACC, FHRS

11:15 a.m.-12 p.m. Panel Discussion: Neurology/Cardiology: Straightforward and Challenging Cases
Moderator: Aaron N. Stayman, M.D.; Steven Deem, M.D.; Sheila D. Smith, M.D.; Darryl S. Wells, M.D., FACC, FHRS

12-12:30 p.m. Hypercoagulable Testing in Stroke and Venous Sinus Thrombosis
Jason A. Taylor, M.D., Ph.D.

12:30-1:15 p.m. Lunch

1:15-1:55 p.m. Carotid Disease and Timing of Interventions
Jordan Reichman, M.D.

1:55-2:25 p.m. Update on Bypass Surgery
David W. Newell, M.D.

2:25-3:10 p.m. Carotid Intervention Debate and Challenging Cases
Moderator: David W. Newell, M.D.; Robert M. Bersin, M.D., MPH; Johnny B. Delashaw, M.D.; and Kaj H. Johansen, M.D., Ph.D., FACS

3:10-3:25 p.m. Break

3:25-3:50 p.m. Giant Aneurysms
Johnny B. Delashaw, M.D.

3:50-4:20 p.m. Incidental Aneurysms
Yince Loh, M.D.

4:20-4:50 p.m. Intracerebral Hemorrhage: Current and Future Management
Stephen J. Monteith, M.D.

4:50 p.m. Adjourn

Friday, May 15, 2015

7:30-8 a.m. Continental Breakfast

8-8:30 a.m. Vascular Imaging in Acute Stroke: Protocol Options (CTA, MRA, Doppler)
Daniel Susanto, M.D.

8:30-9:10 a.m. Panel Discussion: Challenging Cases
Stephen J. Monteith, M.D.; Daniel Susanto, M.D.; and Alan J. Velander, M.D.

9:10-9:55 a.m. Endovascular Therapy in Acute Stroke: The Implications of Evidence from the MR CLEAN, EXTEND IA, ESCAPE and SWIFT PRIME Trials
Aaron N. Stayman, M.D.

9:55-10:25 a.m. Telestroke Update
Todd J. Czartoski, M.D.

10:25-10:40 a.m. Break: Transition to Hands-on Brain Lab

10:40 a.m.-2:55 p.m. Participants will rotate through 6, 35-minute lab stations from 10:40 a.m. through 2:55 p.m., with a break for lunch from 11:50 a.m.-12:35 p.m.

Lab 1: Carotid Endarterectomy
Peter Bouz, M.D.

Lab 2: Coiling/Stenting Simulator
Stephen J. Monteith, M.D.

Lab 3: 3-D Surgical Microscope
David W. Newell, M.D.

Lab 4: Cranial Surgery to the Circle of Willis
Akshal Patel, M.D.

Lab 5: TCD Ultrasound
Colleen Douville, BS, RVT

Lab 6: Transcatheter Aortic Valve Replacement (TAVR)
Robert M. Bersin, M.D., MPH

3:25 p.m. Adjourn

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 13.75 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
10.0 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.
Course Objectives

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

• Discuss the clinical indications for performing Transcranial Doppler (TCD) in acute stroke, outline results of key clinical trials and review current studies in progress
• Describe currently available types of ambulatory rhythm monitoring, review the data on the value of ambulatory arrhythmia monitoring for atrial fibrillation (AF) in cryptogenic stroke and discuss data regarding implications of incidental finding of AF in patients without prior stroke
• Explain the pharmacologic properties of both the older and newer anticoagulants, describe the basic principles of the clotting cascade and outline at which points clinicians can intervene to manage hemorrhage and identify a reversal plan for various anticoagulants
• Describe the mechanism of action of the novel oral anticoagulants, review the clinical trials of these agents versus warfarin and compare and contrast the various agents
• Explain the role of catheter ablation in stroke prevention and describe the role for left atrial appendage exclusion in stroke prevention
• Outline options for prevention of ischemic stroke in atrial fibrillation, raise awareness of challenges in the use of novel oral anticoagulants and gain insights across specialties for management of complicated patients with atrial fibrillation
• Describe appropriate testing for arterial stroke and venous sinus thrombosis and discuss the timing and pitfalls of hypercoagulable testing
• Review the epidemiology and pathophysiology of carotid atherosclerosis, discuss treatment options and discuss the timing of treatment options in patients with acute stroke and TIA
• Discuss the history and development of bypass surgery, review recent trials of bypass surgery; and list and describe current indications of bypass procedures
• Review cases of carotid stenosis with a panel of experts, question experts on the management of carotid disease and describe current treatment modalities for carotid stenosis; discuss the endovascular and surgical approaches and describe the complications of each approach; describe options for treatment of symptomatic or critical asymptomatic carotid stenosis, discuss decision-making regarding the use of stents during carotid endarterectomy
• Review the surgical anatomy of giant aneurysms and discuss the outcomes of treatment for giant aneurysms
• Describe the workup for intracranial aneurysms and discuss the existing data that help guide treatment decisions
• Review the current surgical treatment of ICH and discuss potential future management of ICH
• Review current protocols of vascular imaging, technical considerations and illustrative clinical cases
• Discuss challenging cases and evaluate treatment options
• Review the results of four recent trials that support the use of mechanical thrombectomy in addition to IV tPA for proximal intracranial occlusions of the anterior circulation, discuss the trial designs, emphasizing differences and similarities in patient selection and contrast them with prior negative endovascular trials, discuss the need for more evidence on optimal patient selection regarding time windows, age and parenchymal imaging; and discuss challenges and potential solutions for providing this highly-specialized, resource-intensive therapy to eligible patients across a large geographic area
• Describe the difference between telestroke and other telemedicine services and review the impact of telestroke on health care delivery
• Review carotid anatomy and practice carotid endarterectomy techniques
• Describe the basics of coiling aneurysms and stent placement
• Review the anatomy of vascular structures and vascular lesions and demonstrate surgical procedures on vascular lesions
• Describe the surgical approach to the skull base and review the anatomy of the parasellar region and sylvian fissure
• Describe the basic principles of Transcranial Doppler (TCD), identify the vessels in Circle of Willis based on depth and angle and demonstrate the physiologic influence of CO2 on blood flow
• Describe what Transcatheter Aortic Valve Replacement (TAVR) is and review how TAVR is implanted
Faculty

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Registration Information:
Pre-registration is required as space is limited. Participants who register by the “Advance Registration” deadline will receive a confirmation postcard after Monday, May 4, 2015. Registrations will only be processed when accompanied by full payment.

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

Cancellation: To receive a refund, notice of cancellation must be received no later than Friday, May 8, 2015.

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.

Registration Fees: The fee for this course includes catering, all instruction materials, online syllabus access and a certificate of AMA PRA Category 1 Credits™.

Save time – register online!
www.swedish.org/cme