



NOVEMBER 20-23, 2019
HILTON ATLANTA • ATLANTA, GEORGIA

SVIN 12TH ANNUAL MEETING
PROGRAM



SCHEDULE AT A GLANCE

TIME	SESSION/EVENT	LOCATION
TUESDAY, NOVEMBER 19TH		
6:00 pm – 8:00 pm	Registration	Salon Foyer
WEDNESDAY, NOVEMBER 20TH (Stroke Center Day)		
7:00 am – 5:15 pm	Registration/Help Desk	Salon Foyer
7:00 am – 7:30 am	Grab & Go Breakfast	Salon Foyer
7:30 am – 9:00 am	Pre-Hospital Systems of Care	Salon Ballroom
9:00 am – 10:30 am	Acute Care	Salon Ballroom
10:30 am – 11:00 am	Coffee Break	Salon Foyer
11:00 am – 12:30 pm	Process and Quality Improvement of Stroke Operations	Salon Ballroom
12:00 pm – 5:00 pm	Exhibits	Galleria
12:30 pm – 1:20 pm	Lunch	Galleria
1:20 pm – 1:30 pm	MT2020 Update	Salon Ballroom
1:30 pm – 2:15 pm	Next Generation Industry Roundtable (Non-CME)	Salon Ballroom
2:15 pm – 3:30 pm	Critical Topics in Stroke Center Development	Salon Ballroom
3:30 pm – 5:00 pm	BSES Course (registration required)	Grand Ballroom A
3:30 pm – 5:30 pm	ASES Course (registration required)	Grand Ballroom D
5:30 pm – 6:30 pm	Welcome Reception	Crystal Ballroom
6:30 pm – 7:30 pm	Science of Clot Workshop (advance registration required)	Room 213
6:30 pm – 9:00 pm	Board of Directors Meeting	Room 204 – 205
THURSDAY, NOVEMBER 21ST		
6:30 am – 6:15 pm	Registration / Help Desk	Salon Foyer
6:45 am – 8:00 am	Breakfast with Exhibitors	Galleria
6:45 am – 8:00 am	International Breakfast Corner	Room 204 – 205
6:45 am – 5:50 pm	Exhibits	Galleria
8:00 am – 5:00 pm	Stryker Technology Suite	Room 212
8:00 am – 9:30 am	Welcome/Stroke Debates	Salon Ballroom
9:30 am – 10:00 am	Business Meeting, Presidential Address, and Award Presentations	Salon Ballroom
10:00 am – 10:15 am	Pioneering Award Lecture	Salon Ballroom
10:15 am – 11:00 am	Coffee Break with Exhibitors & E-Poster Presentations	Galleria
11:00 am – 12:00 pm	Platform Session I	Salon Ballroom
12:00 pm – 2:00 pm	Lunch	Salon Foyer / Galleria
12:15 pm – 12:55 pm	Industry Lunch Symposium with MicroVention (Non-CME)	Salon Ballroom
1:00 pm – 1:40 pm	Industry Lunch Symposium with Stryker (Non-CME)	Salon Ballroom
2:00 pm – 2:30 pm	Advanced Practice Providers on the Frontline of Diagnosis & Treatment	Grand Ballroom D
2:00 pm – 3:30 pm	Pediatric Stroke and Neurointerventional	Grand Ballroom A
2:00 pm – 3:30 pm	Vascular Neurology	Salon Ballroom
3:30 pm – 4:00 pm	Coffee Break with Exhibitors & E-Poster Presentations	Galleria
4:00 pm – 5:50 pm	Endovascular + Vascular Neurology Joint Session 1	Salon Ballroom
6:00 pm – 7:15 pm	Women in Vascular and Interventional Neurology (WIN) Reception (with support of Genentech)	Room 203
6:00 pm – 7:15 pm	Members in Training Reception (All Welcome)	Room 204 – 206
7:15 pm – 8:15 pm	Science of Clot Workshop (advance registration required)	Room 213
FRIDAY, NOVEMBER 22ND		
6:30 am – 5:30 pm	Registration / Help Desk	Salon Foyer
6:45 am – 8:00 am	Breakfast with Exhibitors	Galleria
6:45 am – 8:00 am	How to Get Published in a Scientific Journal Workshop (advance registration required)	Room 204 – 205
6:45 am – 5:00 pm	Exhibits	Galleria
7:00 am – 5:00 pm	Penumbra Technology Suite	Room 211
8:00 am – 5:00 pm	Medtronic Technology Suite	Room 214
8:00 am – 9:30 am	Vascular Neurology	Salon Ballroom
8:00 am – 9:30 am	Advanced Practice Provider and Registered Nurse Staffing & Workload in Stroke	Grand Ballroom D
8:00 am – 9:45 am	BAVM/F - Multidisciplinary Management of High-Grade Brain AVMs	Grand Ballroom A
9:45 am – 10:30 am	Keynote Speaker - The Human Brain: Miracle or Mischief Maker	Salon Ballroom
10:30 am – 11:00 am	Coffee Break with Exhibitors	Galleria
11:00 am – 12:00 pm	Platform Session II	Salon Ballroom
12:00 pm – 2:00 pm	Lunch	Salon Foyer / Galleria
12:15 pm – 12:55 pm	Industry Lunch Symposium with Penumbra (Non-CME)	Salon Ballroom
1:00 pm – 1:40 pm	Industry Lunch Symposium with Medtronic (Non-CME)	Salon Ballroom
2:00 pm – 3:30 pm	Brain Aneurysms	Salon Ballroom
3:30 pm – 4:00 pm	Coffee Break with Exhibitors & E-Poster Presentations	Galleria
4:00 pm – 5:00 pm	Neurointerventional Surgery in the Next Century	Salon Ballroom
6:00 pm – 8:00 pm	Networking Reception (All Welcome)	Georgia Aquarium
SATURDAY, NOVEMBER 23RD		
6:30 am – 12:30 pm	Registration / Help Desk	Salon Foyer
6:45 am – 8:00 am	Breakfast with Exhibitors	Galleria
6:45 am – 11:15 am	Exhibits	Galleria
8:00 am – 9:30 am	Clinical Trials Update - Stroke and Neurointerventional	Salon Ballroom
9:30 am – 10:45 am	Endovascular + Vascular Neurology Joint Session 2	Salon Ballroom
10:45 am – 11:15 am	Coffee Break with Exhibitors & E-Poster Presentations	Galleria
11:15 am – 12:40 pm	Radial Angiography Mini Symposium	Salon Ballroom
12:30 pm – 1:00 pm	Lunch for Fellows Course Attendees	Galleria 1
1:00 pm – 5:00 pm	Fellows Course	Galleria 4



Lucas Eljovich, MD, FAHA
Chair, 12th Annual
SVIN Meeting



Italo Linfante, MD, FAHA,
FSVIN
President, SVIN



David Liebeskind, MD, FAHA,
FAAN, FSVIN
President Elect, SVIN



Jawad Kirmani, MD,
FSVIN
Chair, Stroke Center Day
Secretary, SVIN

Welcome

The Society of Vascular and Interventional Neurology (SVIN) welcomes you to the 12th Annual Meeting in Atlanta, Georgia, November 20-23rd, 2019! We have an outstanding program again this year. The theme of this year's meeting – "Taking a Deep Dive on Stroke" continues our focus on multidisciplinary participation from physicians, nurses, administrators, industry partners, and scientists, building on the success of previous Annual Meetings.

We will kick off the meeting on Day 1 with the Stroke Center Workshop (chaired by Jawad Kirmani, MD, FSVIN). These lectures and workshops will bring attendees the perspective of a diverse group of thought leaders on the nuts and bolts of how top stroke centers are developed and maintained from working with EMS, to delivering acute hospital care, and performing cutting edge research. The fellows course, which is generously supported by our industry partners, will occur on Day 4 and provide a unique opportunity for senior faculty to interact and teach trainees.

The Program Committee has assembled a diverse and international faculty with leaders in stroke from multiple continents representing Neurointerventional surgery, vascular neurology, neurosurgery, and radiology. As the meeting continues to grow in size and scope, we continue to expand on the parallel track format with a nursing track chaired by Anne Alexandrov, PhD, RN, AGACNP-BC, CCRN, NVRN-BC, ANVP-BC, FAAN and Jennifer Patterson, MSN, ACNP-BC, CCRN, FHM and also a vascular neurology track co-chaired by Amrou Sarraj, MD and Georgios Tsivgoulis, MD, PhD, MSc. In addition, we have also created joint Vascular and Interventional sessions meant to bring all participants together for robust discussions and interactions that corresponds to the multidisciplinary practice of vascular neurology and neurointervention.

Additional meeting highlights include a new session focused on "Neurovascular Disease in the Next Century" where participants will learn about new therapies and techniques which are poised to reshape the landscape of our field. We are also extremely fortunate this year to have internationally recognized Cross-Cultural Studies lecturer, author, and consultant Sondra Thiederman, PhD, who will give a keynote address on Friday, November 22nd. We continue to offer multiple events throughout the meeting for participants to network with colleagues and relax with family and friends, including our Women in Vascular and Interventional Neurology (WIN) Reception, Members in Training Reception, and new to the Annual Meeting this year, is the closing reception. This marquee event will be held on Friday night at the Georgia Aquarium. The floor to ceiling views of the unfathomably immense 6.3-million-gallon aquarium should provide one of the most unique environments to catch up with friends, old and new, and view the deep underwater world. Please mark your calendars so you do not miss out on this exciting and one-of-a-kind event.

The Abstract Committee, under the leadership of Alicia Castonguay, PhD, FSVIN, continues working to choose the best scientific abstracts from an ever increasing number of submissions. The most outstanding scientific content of the meeting will be highlighted in two platform presentations in the Salon Ballroom. Another new element to the meeting this year will be e-Poster presentations. The top posters will be selected for e-presentation and each e-poster presenter will be paired with a senior faculty who will moderate the discussion with meeting attendees.

I would like to thank our Annual Meeting Committee, Stroke Center Workshop Chair, Nursing and Vascular Track Chairs, Abstract Committee, Fundraising Committee, SVIN's Executive Committee and Board of Directors, as well as everyone who has generously donated their time, effort, and knowledge to putting together the best possible agenda for this year's meeting.

We wish to acknowledge and thank our gracious meeting exhibitors and sponsors for their continued participation in the SVIN Annual Meeting and the society. Be sure to visit the exhibitor area and Top Supporter suites.

I look forward to a fantastic meeting as we dive deep on stroke in Atlanta!

Lucas Eljovich, MD, FAHA
Chair, 12th Annual SVIN Meeting

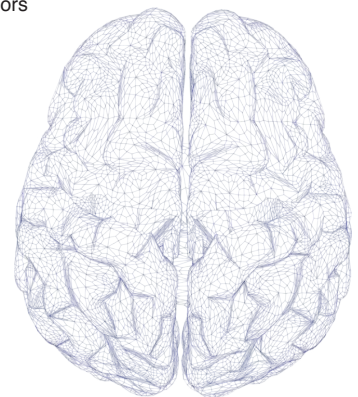




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GENERAL INFORMATION

SVIN 12TH ANNUAL MEETING PROGRAM DESCRIPTION

This year's Annual Meeting continues to reflect the diversity, innovation, and creativity of our rapidly growing membership and our international partners. We look forward to an exciting meeting, which aims to address some of the most controversial issues confronting our field today. We have an excellent program this year with a new format that builds on the previous success of the Annual Meeting and Stroke Center Workshop.

On our first day, Dr. Jawad Kirmani will chair our Stroke Center Day focusing on stroke systems of care and hospital infrastructure. National leaders in the field of stroke will share essential lessons learned on a broad range of topics that drive quality stroke center operations. Topics will include new protocols and technologies for organizing pre-hospital care, successful practices for optimizing your ED and interventional suite, stroke center certification insights from the pros, harnessing the power of your EMR, optimizing stroke center finances, emerging artificial intelligence-based technologies, clinical research infrastructure, and many more. This programming is intended to bring together hospital administrators, EMS providers, physicians, nurses, coordinators, technologists, and other stroke champions from primary and comprehensive stroke centers. Ample time for discussions and questions will assure a robust exchange of information about world-class stroke practice.

The remainder of the meeting includes new tracks geared towards Advanced Practice Providers and Vascular Neurologists and Neurohospitalists (Day 2-3), as well as a half day Fellows Course (Day 4). The new format allows us to capture the latest insights and developments from both U.S. and international thought leaders in the Interventional, Nursing, and Vascular Neurology fields.

LEARNING OBJECTIVES

Upon completion of this educational activity, participants should be able to:

- Implement strategies to best grow your stroke referral network
- Review prehospital best-practice protocols and communication technologies to facilitate patient triage and treatment
- Streamline operations in the endovascular suite and optimize billing for the interventionalist
- Review benefits of recent FDA-approved artificial intelligence-based technologies for your center
- Determine how you can use your EMR to automate the process of stroke data collection
- Upgrade ED clinical pathways to improve accuracy of stroke diagnosis and time to treatment
- Review strategies to maximize hospital throughput
- Describe how to make a multifaceted finance reporting tool for your stroke center
- Improve documentation and coding procedures to drive hospital DRG payments, STAR ratings and HCAHPS scores
- Identify key drivers to successful stroke accreditation
- Implement best-practices guidelines for a robust clinical research program
- Integrate learning on stroke systems of care, pre-hospital care, and hospital infrastructure

- Improve processes on stroke operations from the ED to angiography suite
- Strengthen the ability to build a comprehensive stroke program
- Optimize technical performance of stroke, aneurysm, AVM and ICAD neurointerventions
- Relate the future of Interventional Neurology and the International barriers to Stroke Treatment
- Discuss key elements of a workup to determine pathogenic mechanism for patients with acute stroke
- Describe evidence-based treatment approaches for structural hemorrhages, intraparenchymal hemorrhage and acute ischemic stroke
- Identify expanded roles and scholarship opportunities to increase advanced practice provider influence

TARGET AUDIENCE

This meeting is intended for hospital administrators, critical care physicians, industry leaders, EMS leaders, ICU leaders, critical care physicians, interventional lab leaders, neurointerventionists, interventional neurologists, interventional neuroradiologists, endovascular neurosurgeons, vascular neurologists, neurointensivists, neurosurgeons, nurses, physician assistants, and other related neurological or endovascular practitioners.

HOW TO CLAIM CREDIT FOR THE SVIN 2019 ANNUAL MEETING

Claim your credit as easy as 1-2-3:

1. Access the SVIN 2019 Annual Meeting Evaluation by using the following link: <https://akhcme.com/akhcme/pages/svin>
2. Complete the evaluation for sessions attended.
3. After you hit submit, an electronic copy will be emailed to you for your records.

Earn up to 21.75 hours of CME/CE credit. ABPN Self-Assessment (SACME) credits will also be provided.

Please see page 6 for complete CME/CE information.

EXHIBIT AND REGISTRATION DESK HOURS

Registration/Help Desk Hours | Foyer

Tuesday, November 19 6:00 pm – 8:00 pm
Wednesday, November 20 7:00 am – 5:15 pm
Thursday, November 21 6:30 am – 6:15 pm
Friday, November 22 6:30 am – 5:30 pm
Saturday, November 23 6:30 am – 12:30 pm

Exhibit Hall Hours | Galleria

Wednesday, November 20 12:00 pm – 5:00 pm
Thursday, November 21 6:45 am – 5:50 pm
Friday, November 22 6:45 am – 5:00 pm
Saturday, November 23 6:45 am – 11:15 am

GENERAL INFORMATION

WIFI/APP INFORMATION

WIFI INSTRUCTIONS

1. Check for any available wireless signals.
2. Connect to SSID **@HILTON-MEETING**
3. Launch a web browser.
4. When prompted, enter the password **SVIN2019**



The conference welcome page or hotel main page will display and you can now browse the internet.

If you are roaming throughout the hotel, your computer will sometimes disconnect and you will need to re-associate with another wireless access point. VPN's are not meant to stay connected all the time for security reasons and you may be required to re-establish your VPN connectivity when your current session expires. If you encounter any technical difficulties, please call 404-221-6371.

MOBILE MEETING APP INSTRUCTIONS WITH QR CODE (USE THIS TO PARTICIPATE WITH THE AUDIENCE RESPONSE SYSTEM)

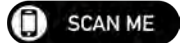
Navigate the event like a pro with the **SVIN 2019 Annual Meeting** mobile app, powered by **Core-apps.com**

With the SVIN 2019 Annual Meeting mobile app, you can:

- Stay organized with up-to-the-minute Speaker, Exhibitor, and Event information
- View e-Posters
- Receive important real-time communications from SVIN
- Build a personalized schedule and bookmark exhibitors
- Take notes and download event handouts and presentations
- Find attendees and connect with your colleagues through Friends
- Stay in-the-know and join in on social media with #SVIN2019
- Share your event photos and experiences with the Photo Gallery
- And much, much more!

DOWNLOADING THE APP IS EASY!

SEARCH: The App Store or Google Play for SVIN Meetings



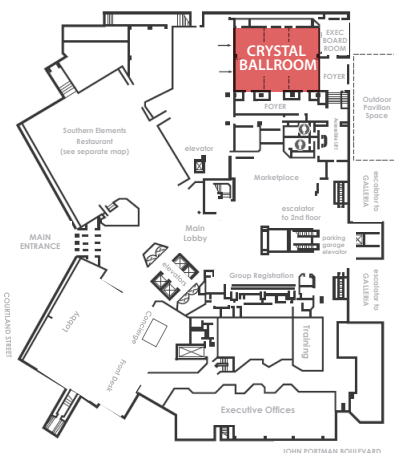
SVIN 12TH ANNUAL MEETING ONSITE MAPS



FIRST FLOOR

SECOND FLOOR

GALLERIA EXHIBIT HALL



■ Welcome Reception
 ■ General Sessions
 ■ Concurrent Sessions
 ■ Exhibits / e-Posters
 ■ Posters / Meals

CME/CE INFORMATION

Criteria for Success

Statements of credit will be awarded based on the participant's attendance and submission of the activity evaluation form. A statement of credit will be available upon completion of an online evaluation/claimed credit form at <https://akhcme.com/akhcme/pages/svin>. You must participate in the entire activity to receive credit. If you have questions about this CME/CE activity, please contact AKH Inc. at tbgrignoni@akhcme.com.



CME/CE Credit provided by AKH Inc., Advancing Knowledge in Healthcare

Physicians

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of AKH Inc., Advancing Knowledge in Healthcare and The Society of Vascular and Interventional Neurology (SVIN). AKH Inc., Advancing Knowledge in Healthcare is accredited by the ACCME to provide continuing medical education for physicians.

AKH Inc., Advancing Knowledge in Healthcare designates this live activity for a maximum of 21.75 *AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Physician Assistants

NCCPA accepts *AMA PRA Category 1 Credit*[™] from organizations accredited by ACCME.

Nursing

AKH, Inc., Advancing Knowledge in Healthcare is accredited as a provider of nursing continuing professional development by the American Nurses Credentialing Center's Commission on Accreditation.

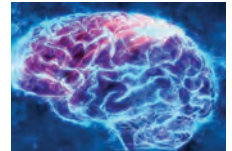
This activity is awarded 21.75 Contact Hours.

Activity is jointly-provided by AKH Inc., Advancing Knowledge in Healthcare and The Society of Vascular and Interventional Neurology (SVIN).

Commercial Support

This activity is supported by educational grants from Cerenovus, part of Johnson and Johnson, Penumbra, and Medtronic.

The American Board of Psychiatry and Neurology has reviewed the 12th Annual Meeting and has approved the program as part of a comprehensive self-assessment program, which is mandated by the ABMS as a necessary component of maintenance of certification.



Faculty and Planner Disclosures All faculty and planners have disclosed no financial relationships except for the following:

FACULTY DISCLOSURE		
NAME	RELATIONSHIP	COMPANY
Greg Albers	Consultant, Equity/Cofounder	iSchemaView, Inc.
	Consultant	Genentech
Mark Alberts	Honorarium/Speaker	Genentech
Andrei Alexandrov	Honorarium/Speaker	Genentech
Adam Arthur	Consultant	Balt, Johnson & Johnson, Penumbra, Scientia, Siemens
	Consultant/Education	Medtronic, MicroVention, Stryker
	Shareholder	Bendit, Cerebrotech, Endostream, Magneto, Marblehead, Neurogami, Serenity, Synchro, Triad Medical, Vascular Simulations
Thomas Devlin	Consulting/Stock Ownership/Research Grants/ Speaker/Independent Contractor	Viz.ai, Neural Analytics
	Research support/Independent Contractor	Genentech
	Consultant/Independent Contractor	Medtronic
Lucas Eliovich	Consultant	Penumbra, Medtronic, Cerenovus, Balt, MicroVention, Scientia Vascular
Johanna Fifi	Consultant/Principal Investigator	Stryker
	Instructor	MicroVention
	Principal Investigator (COMPLETE Registry)	Penumbra
David Fiorella	Research Support	Penumbra
	Consultant/Research Support	Sequent Medical, MicroVention, Medtronic
	Stock	Marblehead, Neurogami Medical
	Royalties	Codman
	Ownership	Vascular Simulations
	Consultant	Neurogami Medical, Balt USA, Codman, Marblehead Medical, Stryker
Michael Frankel	Co-Investigator	Nico Corporation
Kenneth Gaines	Principal Investigator	Genentech, Stroke Link
Dan Gombos	Consultant	3T Ophthalmics, Abbvie
	Committee Member, Co-Principal Investigator	Children's Oncology Group (COG) NCI
	Research Support	Wilkinson Foundation
Matthew Gounis	Consultant	Cerenovus, Imperative Care, Medtronic, Stryker, Neurogami, Mivi, Phenox, Route 92 Medical
	Research Support	Research support, paid to institution, for: the National Institutes of Health (NIH), the United States – Israel Binational Science Foundation, Anaconda, Cerenovus, Ceretrieve, Cook Medical, Gentuity, Imperative Care, InNeuroCo, Inera Therapeutics, Magneto, Microvention, Medtronic Neurovascular, MIVI Neurosciences, Neuravi, Neurogami, Philips Healthcare, Rapid Medical, Route 92 Medical, Stryker Neurovascular, Syntheon, and the Wyss Institute.
Carmelo Graffagnino	Grant Support	Medtronic Foundation, Daiichi Sankyo, Cheisi, Portola
James Grotta	Consulting	Frazer Ltd
	Research	Genentech
Diogo Haussen	Consultant	Stryker, Vesalio
	Stock	Viz.ai

Disclosure of Unlabeled Use and Investigational Product

This educational activity may include discussion of uses of agents that are investigational and/or unapproved by the FDA. Please refer to the official prescribing information for each product for discussion of approved indications, contraindications, and warnings.

Disclaimer

This course is designed solely to provide the healthcare professional with information to assist in his/her practice and professional development and is not to be considered a diagnostic tool to replace professional advice or treatment. The course serves as a general guide to the healthcare professional, and therefore, cannot be considered as giving legal, nursing, medical, or other professional advice in specific cases. The Society of Vascular and Interventional Neurology (SVIN) and AKH, Inc., Advancing Knowledge in Healthcare specifically disclaim responsibility for any adverse consequences resulting directly or indirectly from information in the course, for undetected error, or through participant's misunderstanding of the content.

FACULTY DISCLOSURE CONTINUED		
NAME	RELATIONSHIP	COMPANY
Jeremy Heit	Consultant	Medtronic, MicroVention
	Advisory Board	Ischema View
Daniel Hoit	Consultant	Cerenovus, Medtronic
	Speaker	Penumbra
	Stock	Cerebrotech, Silver Bullet
	Research	Siemens
Shazam Hussain	Consultant	Cerenovus
Hooman Kamel	Consultant	Boehringer-Ingelheim
May Kim-Tenser	Speaker's Bureau	Chiesi
Maarten Lansberg	Consultant	Nektar Therapeutics, Genentech
	Advisor	Biogen, NuvOx Pharma LLC
David Liebeskind	Consultant	Stryker, Medtronic, Genentech
Italo Linfante	Consultant	Stryker, Medtronic, Cerenovus, Prolong Pharmaceuticals
	CEO	Icarus Partners
	Ownership/Stock	InNeuroCo, Three Rivers
Chris Mansi	Founder/CEO	Viz.ai
Charles Matouk	Consultant	Silk Road Medical
Rafael Ortiz	Education	Penumbra, Stryker
Ansaar Rai	Consultant	MicroVention, Stryker
Amrou Sarraj	Grant Support	Stryker Neurovascular
	Advisory Board and Speaker Bureau	Stryker Neurovascular
Jeffrey Saver	Consultant – Clinical Trial Steering Committee	Abbott/St. Jude Medical, Medtronic, BrainsGate, Stryke, Boehringer-Ingelheim (Prevention Only), Cerenovus/Neuravi, Phagenesis
	Stock	Rapid Medical
David Thaler	Consulting	Abbott
Aquila Turk	Chief Medical Officer	Corindus Robotics
	Chief medical Officer/Consultant	Imperative Care
	Consultant	Siemens, Medtronic
Dileep Yavagal	Speaker/Consultant/Steering Committee	Rapid Medical
	Consultant	Cerenovus, Deck Therapeutics, GLG Consulting, Guidepoint Consulting, Mosaic Consulting, Neuralanalytics
	Steering Committee	Medtronic, Vascular Dynamics, Poseydon Medical, LLC
REVIEWER DISCLOSURES		
AKH & SVIN Staff/ Reviewers	N/A	Nothing to disclose

Disclosure Declaration

It is the policy of The Society of Vascular and Interventional Neurology (SVIN) and AKH, Inc., Advancing Knowledge in Healthcare to ensure independence, balance, objectivity, scientific rigor, and integrity in all of its continuing education activities. The faculty must disclose to the participants any significant relationships with commercial interests whose products or devices may be mentioned in the activity or with the commercial supporter of this continuing education activity. Identified conflicts of interest are resolved by The Society of Vascular and Interventional Neurology (SVIN) and AKH, Inc., Advancing Knowledge in Healthcare prior to accreditation of the activity and may include any of or combination of the following: attestation to non-commercial content, notification of independent and certified CME/CE expectations, referral to National Faculty Initiative training, restriction of topic area or content, restriction to discussion of science only, amendment of content to eliminate discussion of device or technique, use of other faculty for discussion of recommendations, independent review against criteria ensuring evidence support recommendation, moderator review, and peer review. AKH, Inc., Advancing Knowledge in Healthcare planners and reviewers have no relevant financial relationships to disclose.

Tuesday, November 19th

6:00 pm – 8:00 pm Registration Salon Foyer

Wednesday, November 20th Stroke Center Day

7:00 am – 5:15 pm Registration/Help Desk..... Salon Foyer

7:00 am – 7:30 am Grab & Go Breakfast..... Salon Foyer

7:30 am – 9:00 am Pre-Hospital Systems of Care..... Salon Ballroom
Moderator: Martin Gizzi, MD, PhD

7:30 am – 7:40 am **Welcome**, *Jawad Kirmani, MD, FSVIN*
7:40 am – 8:00 am **Prehospital Severity Scales and Bypass Algorithms for Mechanical Thrombectomy**, *Mohamed Teleb, MD*
8:00 am – 8:20 am **Prehospital Technology for Bypass**, *Thomas Devlin, MD, PhD, FSVIN*
8:20 am – 8:40 am **Direct to Angio**, *Marc Ribó, MD*
8:40 am – 9:00 am **Q&A**

9:00 am – 10:30 am **Acute Care**..... Salon Ballroom
Moderators: Andrei Alexandrov, MD, NVS and Siddhart Mehta, MD

9:00 am – 9:20 am **Why Don't We Use Tenecteplase Currently?** *Mark Alberts, MD*
9:20 am – 9:25 am Break
9:25 am – 9:35 am **RAPID: Role in LVO Selection and Clinical Trials (Non-CME)**, *Tudor Jovin, MD, FSVIN*
9:35 am – 9:45 am **VizAI: Role in LVO Detection and Stroke Performance Metrics (Non-CME)**, *Raul Nogueira, MD, FSVIN*
9:45 am – 9:50 am Break
9:50 am – 10:00 am **Artificial Intelligence: Future Workflows for Diagnostic Neuroradiology**, *Waleed Brinjikji, MD*
10:00 am – 10:15 am **The Integrated Comprehensive Stroke Center**, *Carmelo Graffagnino, MD*
10:15 am – 10:30 am **Q&A**

10:30 am – 11:00 am Coffee Break..... Salon Foyer

11:00 am – 12:30 pm **Process and Quality Improvement of Stroke Operations** Salon Ballroom
Moderators: Pankajavalli Ramakrishnan, MD, PhD and Tudor Jovin, MD, FSVIN

11:00 am – 11:20 am **Diagnostic Pathways for ESUS/PFO**, *Sara Strauss, DO*
11:20 am – 11:40 am **Supercharging Your Codes Stroke Pathways**, *Jawad Kirmani, MD, FSVIN*
11:40 am – 12:00 pm **The Future of Data: Quality, Outcomes, and Research Registries**, *David Liebeskind, MD, FAHA, FAAN, FSVIN*
12:00 pm – 12:10 pm **Smart Data Collection: From the Field to the Door**, *Mark Bober, MHA, NRP, FACPE*
12:10 pm – 12:20 pm **Data Flow: From LVO Activation to Vessel Opening**, *Brijesh Mehta, MD*
12:20 pm – 12:30 pm **Q&A**

12:00 pm – 5:00 pm Exhibits Galleria

12:30 pm – 1:20 pm Lunch Galleria

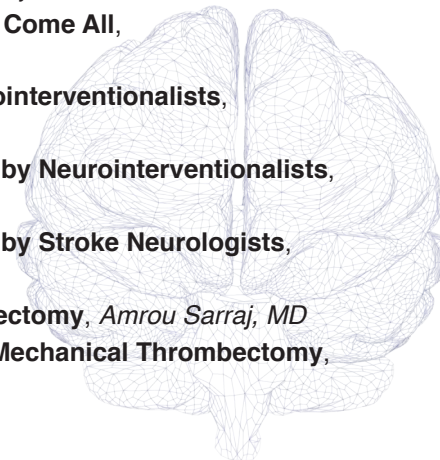
1:20 pm – 1:30 pm	MT2020 Update , <i>Dileep Yavagal, MD, FSVIN, FAHA</i> Salon Ballroom
1:30 pm – 2:15 pm	Next Generation Industry Roundtable (Non-CME) Salon Ballroom <i>Moderators: Thanh Nguyen, MD, FSVIN and Jawad Kirmani, MD, FSVIN</i>
2:15 pm – 3:30 pm	Critical Topics in Stroke Center Development Salon Ballroom <i>Moderators: Gustavo Jose Rodriguez, MD, PhD, FANA, Leonard Dimitri DaSilva, MD, MBA, and David Liebeskind, MD, FAHA, FAAN, FSVIN</i>
2:15 pm – 2:25 pm	Clinical Research - Leveraging Your Telestroke Network , <i>Kiva Schindler, RN, CCRC</i>
2:25 pm – 2:35 pm	Clinical Research - Successfully Navigating Regulatory Agencies , <i>Amanda Nolte, CCRP</i>
2:35 pm – 2:55 pm	Stroke Center Certification Alphabet Soup: JCAHO, DNV, ABC , <i>Martin Gizzi, MD, PhD</i>
2:55 pm – 3:15 pm	Teleneurology - Remote IV TPA Care and TeleRounding Services , <i>Tzu-Ching (Teddy) Wu, MD</i>
3:15 pm – 3:30 pm	Q&A
3:30 pm – 5:00 pm	BSES Course (registration required) Grand Ballroom A This live course covers basic anatomy, statistics, types of strokes, risk factors, signs and symptoms, detection scales, treatment options, and methods for improving stroke outcomes. This course is appropriate for physicians, nurses, emergency medical professionals, first responders, healthcare workers, hospital personnel and the general public. Upon completion of the course, you will receive 1.5 CME credits.
3:30 pm – 5:30 pm	ASES Course (registration required) Grand Ballroom D This live course covers types of strokes, prehospital triage, stroke detection scales, warning signs and symptoms, treatment options, stroke severity scales, and bypass and transfer protocols. This course is appropriate for EMS, first responders, nurses, paramedics, police officers, fire fighters, and physicians. Upon completion of the course, you will receive 2.5 CME credits.
5:30 pm – 6:30 pm	Welcome Reception Crystal Ballroom
6:30 pm – 7:30 pm	Science of Clot Workshop (advance registration required) Room 213 Science of Clot Workshop – an interactive workshop analyzing the clots that cause large vessel occlusions from an engineering perspective. Why are some clots easier to remove? What happens to an occlusion over time? Does the nature of clot change during the course of endovascular therapy? Topics and hands-on exhibits will include clot composition and characterization, clot properties and behavior, occlusion dynamics, and clot-device interactions. Content builds upon what was covered in last year's workshops. The workshop will be presented by the CERENOVUS Neuravi Thromboembolic Initiative (NTI) based on its research as well as findings from collaborative research projects with clinical and scientific institutions with the goal of advancing stroke therapy
6:30 pm – 9:00 pm	Board of Directors Meeting Room 204 – 205

Thursday, November 21st

6:30 am – 6:15 pm	Registration / Help Desk Salon Foyer
6:45 am – 8:00 am	Breakfast with Exhibitors Galleria
6:45 am – 8:00 am	International Breakfast Corner Room 204-205

PROGRAM

6:45 am – 5:50 pm	Exhibits..... Galleria
8:00 am – 5:00 pm	Stryker Technology Suite..... Room 212
8:00 am – 9:30 am	Welcome/Stroke Debates..... Salon Ballroom <i>Moderators: Jeffrey Saver, MD and Sandra Narayanan, MD, FAHA, FANA, FSVIN</i>
8:00 am – 8:15 am	Welcome / Introduction to the Meeting App, Lucas Eljovich, MD, FAHA
8:16 am – 8:24 am	Who Should Perform Thrombectomy? - Come One Come All, Nick Hopkins, MD, FACS
8:25 am – 8:34 am	Who Should Perform Thrombectomy? - Only Neurointerventionalists, Tudor Jovin, MD, FSVIN
8:35 am – 8:44 am	Who Should Triage LVO? - LVO Should Be Triaged by Neurointerventionalists, Mahesh Jayaraman, MD, FACR
8:45 am – 8:54 am	Who Should Triage LVO? - LVO Should Be Triaged by Stroke Neurologists, Andrei Alexandrov, MD, NVS
8:55 am – 9:04 am	Large Core Infarct - Treat with Mechanical Thrombectomy, Amrou Sarraj, MD
9:05 am – 9:14 am	Large Core Infarct - Do No Harm: Don't Treat with Mechanical Thrombectomy, Shazam Hussain, MD, FRCP(C)
9:15 am – 9:30 am	Q&A
9:30 am – 10:00 am	Business Meeting, Presidential Address and Award Presentations, Italo Linfante, MD, FAHA, FSVIN..... Salon Ballroom
10:00 am – 10:15 am	Future of the Interventionalism Era of Neurology, a Hair Between Surrealism and Magical Realism, Call for Code of Ethics; Developing World Overview, Ossama Mansour, MD, PhD, FINR, FSVIN, FESO Salon Ballroom
10:15 am – 11:00 am	Coffee Break with Exhibitors & E-Poster Presentations..... Galleria <i>Moderators: Italo Linfante, MD, FAHA, FSVIN, Amer Malik, MD, MBA, FAHA, FSVIN, Rakesh Khatri, MD, FSVIN, and Diogo C. Haussen, MD, FSVIN</i>
11:00 am – 12:00 pm	Platform Session I (full abstract and authors listing available in the mobile app)..... Grand Salon <i>Moderator: Amrou Sarraj, MD</i>
11:00 am – 11:08 am	Mobile Stroke Unit CTA and Direct Notification of Interventional Team Shortens Door-to-Puncture-Time by One Hour, Alexandra L Czap, MD
11:09 am – 11:16 am	Stroke and LVO Detection Using AI from Facial Analysis: A Cross-Center Study, Marc Ribó, MD, PhD
11:17 am – 11:24 am	Machine Learning Identification of Large Vessel Occlusion (LVO) on Non-contrast Computed Tomography (NCCT), Marc Ribó, MD, PhD
11:25 am – 11:32 am	Impact of Time and ASPECTS on Clinical Core Mismatch in Large Vessel Occlusion Strokes, Shashvat M Desai, MD
11:33 am – 11:40 am	Patient Selection for Thrombectomy with CT Versus CT Perfusion in the Early Time-Window: A Meta-analysis, Ashutosh Jadhav, MD, PhD, FSVIN, FAHA
11:41 am – 11:48 am	First Pass Effect in the Anterior and Posterior Circulation: Insights from the TREVO Registry, Ashutosh Jadhav, MD, PhD, FSVIN, FAHA
11:49 am – 12:00 pm	Q&A
12:00 pm – 2:00 pm	LunchSalon Foyer / Galleria



12:15 pm – 12:55 pm **Industry Lunch Symposium with MicroVention (Non-CME) Salon Ballroom**

Best practices with the WEB® Aneurysm Embolization System, *Bharathi Jagadeesan, MD, Associate Professor, Department of Radiology, Neurology and Neurosurgery; Co-director, Earl Grande Stem Cell Laboratory; Medical Director, Center for Magnetic Resonance Research, University of Minnesota*

SOFIA Flow Plus Aspiration Catheter First-Line Thrombectomy Approach, *Gabor Toth, MD, FAHA, Associate Professor, CCLCM; Director, Neurointerventional Fellowship program; Lead, Endovascular Operations, Cerebrovascular Center, Cleveland Clinic*

1:00 pm – 1:40 pm **Industry Lunch Symposium with Stryker (Non-CME) Salon Ballroom**
Defining & Achieving Clinical Success: An Evolution of Thrombectomy, *Raul Nogueira, MD, FSVIN and David Liebeskind, MD, FAHA, FAAN, FSVIN*

2:00 pm – 2:30 pm **Advanced Practice Providers on the Frontline of Diagnosis & Treatment: Telemedicine, Emergency Department, Mobile Stroke Unit, Stroke & Neurosurgery Clinic.....Grand Ballroom D**
Wendy Dusenbury, DNP, FNP-BC, AGACNP-BC, ANVP-BC, Jennifer Patterson, MSN, ACNP-BC, CCRN, FHM, and Natalie Hall, MSN, FNP-C, ANVP-BC

2:00 pm – 3:30 pm **Vascular Neurology Salon Ballroom**
Moderators: Katherine Nearing, MD, Nirav Bhatt, MD, and Ji Chong, MD

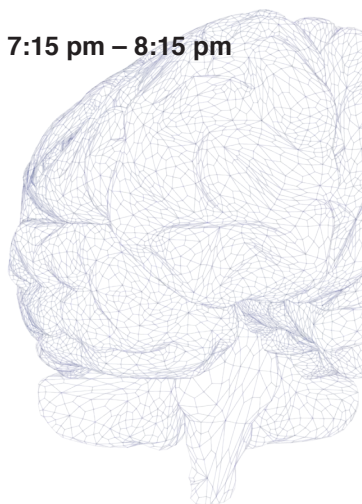
2:00 pm – 2:12 pm	ESUS: Current Evidence and Future Research , <i>Hooman Kamel, MD</i>
2:13 pm – 2:25 pm	PFO Closure: Current Evidence and Future Research , <i>David Thaler, MD, PhD</i>
2:26 pm – 2:38 pm	All PFOs Are Not Created Equal: Anatomic and Structural Considerations , <i>Benjamin Waller, MD</i>
2:39 pm – 2:51 pm	LAA Closure After Stroke: WATCHMEN , <i>Jeffrey Saver, MD</i>
2:52 pm – 3:04 pm	Restarting Anticoagulation After Stroke: Timing , <i>Steven Warach, MD, PhD</i>
3:05 pm – 3:17 pm	IV Glyburide for Brain Swelling in Large Hemispheric Infarcts , <i>Maarten Lansberg, MD, PhD</i>
3:18 pm – 3:30 pm	Q&A

2:00 pm – 3:30 pm **Pediatric Stroke and Neurointerventional Grand Ballroom A**
Moderators: Santiago Ortega-Gutierrez, MD, MSc, FAHA, FSVIN and Lee Birnbaum, MD, MS

2:00 pm – 2:09 pm	The Perspective of a Pediatric Stroke Neurologist , <i>Christine Fox, MD, MAS</i>
2:10 pm – 2:19 pm	The Perspective of a Neurointerventional Surgeon: Technical Aspects and More , <i>Ashutosh Jadhav, MD, PhD, FSVIN, FAHA</i>
2:20 pm – 2:29 pm	Sickle Cell Disease, Stroke Risk, and Novel Preventative Strategies , <i>Michael DeBaun, MD, MPH</i>
2:30 pm – 2:39 pm	Moya Moya Disease: Pretherapeutic Evaluation and Surgical Decision Making , <i>Paul Klimo Jr, MD, MPH</i>
2:40 pm – 2:49 pm	Indications for Intra-Arterial Chemotherapy for Retinoblastoma - When to Do It , <i>Dan Gombos, MD, FACS</i>
2:50 pm – 2:59 pm	Intra-Arterial Chemotherapy for Retinoblastoma - How to Do It , <i>Athos Patsalides, MD, MPH</i>
3:00 pm – 3:09 pm	Sclerotherapy of Venous and Lymphatic Malformations , <i>Neeraj Chaudhary, MD, MRCS, FRCS, FAHA, FEBNI</i>
3:10 pm – 3:19 pm	Live Case - Sclerotherapy of Orbital Macrocystic LM in a Child , <i>Rafael Ortiz, MD</i>
3:20 pm – 3:30 pm	Q&A

PROGRAM

3:30 pm – 4:00 pm	Coffee Break with Exhibitors & E-Poster Presentations..... Galleria <i>Moderators: Dileep Yavagal, MD, FSVIN, FAHA, Ameer E. Hassan, DO, FAHA, FSVIN, Ashutosh Jadhav, MD, PHD, FSVIN, FAHA, and Ossama Mansour, MD, PhD, FINR, FSVIN, FESO</i>
4:00 pm – 5:50 pm	Endovascular + Vascular Neurology Joint Session 1 Salon Ballroom (Controversies in Cervical Atherosclerotic Disease) <i>Moderators: Raul Nogueira, MD, FSVIN and Violiza Inoa, MD</i>
4:00 pm – 4:07 pm	Trans Carotid Artery Revascularization - What is the Evidence? <i>Charles Matouk, MD</i>
4:08 pm – 4:15 pm	Right of First Refusal: CAS Over CEA, Brian Jankowitz, MD
4:16 pm – 4:23 pm	Vertebral Origin Disease - How and When to Treat, Randall Edgell, MD
4:24 pm – 4:30 pm	Q&A
	(Acute Ischemic Stroke Beyond the Guidelines) <i>Moderators: Thanh Nguyen, MD, FSVIN, Gary Spiegel, MDCM, and Thomas Wolfe, MD</i>
4:31 pm – 4:38 pm	The Best Way to Image Core Infarct: CT and CTP, Jeremy Heit, MD
4:39 pm – 4:46 pm	The Best Way to Image Core Infarct: MRI, Maarten Lansberg, MD, PhD
4:47 pm – 4:54 pm	Distal Occlusion Thrombectomy: When and How I do It, <i>Thabele (Bay) Leslie-Mazwi, MD</i>
4:55 pm – 5:02 pm	Why Not to Treat Low NIHSS LVO, Matthew Tenser, MD, ScM
	(Post Thrombectomy Management Roundtable & Live Cases) <i>Moderators: Thanh Nguyen, MD, FSVIN, Gary Spiegel, MDCM, and Thomas Wolfe, MD</i>
5:03 pm – 5:09 pm	Current Evidence on Blood Pressure Management Post MT, Eva Mistry, MBBS
5:10 pm – 5:20 pm	Cases and Debate, Johanna Fifi, MD, FSVIN, Anne Alexandrov, PhD, AGACNP-BC, ANVP-BC, FAAN, and Thomas Kent, MD
5:21 pm – 5:26 pm	Q&A
5:27 pm – 5:33 pm	Distal Thrombectomy Case, Diogo C. Haussen, MD, FSVIN
5:34 pm – 5:41 pm	Complex Carotid Stenting/Tandem Occlusion, Ansaar Rai, MD
5:42 pm – 5:50 pm	Q&A
6:00 pm – 7:15 pm	Women in Vascular and Interventional Neurology (WIN) Reception (with support of Genentech) Room 203
6:00 pm – 7:15 pm	Members in Training Reception (All Welcome)..... Room 204-206
7:15 pm – 8:15 pm	Science of Clot Workshop (advance registration required) Room 213 Science of Clot Workshop – an interactive workshop analyzing the clots that cause large vessel occlusions from an engineering perspective. Why are some clots easier to remove? What happens to an occlusion over time? Does the nature of clot change during the course of endovascular therapy? Topics and hands-on exhibits will include clot composition and characterization, clot properties and behavior, occlusion dynamics, and clot-device interactions. Content builds upon what was covered in last year's workshops. The workshop will be presented by the CERENOVUS Neuravi Thromboembolic Initiative (NTI) based on its research as well as findings from collaborative research projects with clinical and scientific institutions with the goal of advancing stroke therapy.



Friday, November 22nd

6:30 am – 5:30 pm	Registration / Help Desk.....	Salon Foyer
6:45 am – 8:00 am	Breakfast with Exhibitors.....	Galleria
6:45 am – 8:00 am	Breakfast Workshop – How to Get Published in a Scientific Journal (advance registration required).....	Room 204-205
6:45 am – 5:00 pm	Exhibits	Galleria
7:00 am – 5:00 pm	Penumbra Technology Suite.....	Room 211
8:00 am – 5:00 pm	Medtronic Technology Suite	Room 214

8:00 am – 9:30 am	Vascular Neurology	Salon Ballroom
	<i>Moderators: May Kim-Tenser, MD, FAHA, David Liebeskind, MD, FAHA, FAAN, FSVIN, and Michael Frankel, MD</i>	
8:00 am – 8:12 am	Adjunctive Thrombolytics to IV tPA , Bruce Campbell, MBBS, PhD	
8:13 am – 8:25 am	IV Thrombolytics for Patients on Newer Anticoagulants – DOACs , Georgios Tsivgoulis, MD, PhD, MSc	
8:26 am – 8:38 am	Perfusion Imaging-Based Thrombolysis in Extended Time Window , Greg Albers, MD	
8:39 am – 8:51 am	Choice of Antiplatelet for Secondary Stroke Prevention , Haris Kamal, MD	
8:52 am – 9:04 am	Surgical Management of ICH - Results of MISTIE III and CLEAR Trials , Wendy Ziai, MD, MPH	
9:05 am – 9:17 am	Non-Surgical Treatment of Acute ICH , Magdy Selim, MD, PhD	
9:18 am – 9:30 am	Q&A	

8:00 am – 9:30 am	Advanced Practice Provider and Registered Nurse Staffing & Workload in Stroke	Grand Ballroom D
8:00 am – 8:20 am	Staffing & Workload in the NICU , Liz Fox, MSN, ACNS, AG-ACNP, AVNP, FAHA	
8:21 am – 8:40 am	Staffing & Workload on the Acute Inpatient Stroke Service , Karen Seagraves, PhD, MPH, NEA-BC, APRN, FAHA	
8:41 am – 9:00 am	Staffing & Workload in the Interventional Suite , Audrey Arango, RN, BSN, NVRN-BC	
9:01 am – 9:30 am	Q&A	

8:00 am – 9:45 am	BAVM/F - Multidisciplinary Management of High-Grade Brain AVMs	Grand Ballroom A
	<i>Moderators: Johanna Fifi, MD, FSVIN and Ossama Mansour, MD, PhD, FINR, FSVIN, FESO</i>	
8:00 am – 8:19 am	Endovascular Embolization of High Spetzler Martin Grade AVMs – When and How? Michel Piotin, MD, PhD	
8:20 am – 8:39 am	Surgical Treatment of High Grade Spetzler Martin AVMs , David Langer, MD	
8:40 am – 8:59 am	Radiosurgery as a Stand-Alone Treatment for High Spetzler Martin Grade AVMs , Edward A. Monaco III, MD, PhD	
9:00 am – 9:19 am	A Look into the Future: Somatic Activating KRAS Mutations in Brain AVMs , Ivan Radovanovic, MD, PhD	
9:20 am – 9:27 am	AVM Live Case 1: Ruptured Basal Ganglia AVM with Deep Venous Drainage , Rafael Ortiz, MD	
9:28 am – 9:35 am	AVM Live Case 2: AVM Curative Embo , Raul Nogueira, MD, FSVIN	
9:36 am – 9:45 am	Q&A	

PROGRAM

9:45 am – 10:30 am	Keynote Speaker..... Salon Ballroom
9:45 am – 9:50 am	Introduction, Robin Novakovic-White, MD, FSVIN
9:51 am – 10:25 am	The Human Brain: Miracle or Mischief Maker, Sondra Thiederman, PhD
10:26 am – 10:30 am	Q&A
10:30 am – 11:00 am	Coffee Break with Exhibitors Galleria
11:00 am – 12:00 pm	Platform Session II (full abstract and authors listing available in the mobile app)..... Salon Ballroom <i>Moderator: Diogo C. Haussen, MD, FSVIN</i>
11:00 am – 11:08 am	Acute Subdural Hematomas Secondary to Aneurysmal Subarachnoid Hemorrhage Confer Poor Prognosis - a National Perspective, Gurmeen Kaur, MD
11:09 am – 11:16 am	Surpass™ Flow Diverter Trial Treating Large OR Giant Wide Neck Aneurysms: Posterior Communicating Artery Aneurysm, Peter Kan, MD, MPH, FRCSC, FAANS
11:17 am – 11:24 am	Cyclical Aspiration has an Improved Safety Profile Compared to Continuous Uniform Aspiration: In-Vivo Randomized Study, Ram Kadirvel, PhD
11:25 am – 11:32 am	The Clinical Impact of Eloquent Cortex-Tissue Reperfusion Beyond the Traditional TICI Scoring After Thrombectomy, Radoslav Raychev, MD
11:33 am – 11:40 am	E-ASPECTS CT Ischemic Volume Performs Similarly to CTP in the Prediction of Post-Reperfusion Infarct Volume, Mehdi Bouslama, MD
11:41 am – 11:48 am	Mechanical Thrombectomy With Penumbra 3D Revascularization Device for Acute Stroke: Interim Analysis of COMPLETE Registry, Johanna Fifi, MD, FSVIN
11:49 am – 12:00 pm	Q&A
12:00 pm – 2:00 pm	Lunch Grand Salon Foyer / Galleria
12:15 pm – 12:55 pm	Industry Lunch Symposium with Penumbra (Non-CME) Salon Ballroom LVO and Beyond with Large Bore Catheters, Nabeel Herial MHD, Jefferson University Hospital, PA Treatment of Acute Intracranial Aneurysms with Next Generation Coil Technology, Ashish Nanda, SSM St. Clare Hospital, MO
1:00 pm – 1:40 pm	Industry Lunch Symposium with Medtronic (Non-CME) Salon Ballroom Beating Stroke from Every Angle: Triage, Time, and Procedural Efficiency, Ameer E. Hassan, DO, FAHA, FSVIN and Marc Ribó, MD
2:00 pm – 2:29 pm	Brain Aneurysms (Basic science, Training, and Diagnostic Modalities)..... Salon Ballroom <i>Moderators: Maxim Mokin, MD, PhD and Wolfgang Leesch, MD</i>
2:00 pm – 2:07 pm	High Resolution Vessel Wall Imaging for Aneurysm Rupture Prediction, Edgar Samaniego, MD, MS
2:08 pm – 2:15 pm	Optimizing Flow Diversion Using Basic Science Research, Matthew Gounis, PhD
2:16 pm – 2:23 pm	Virtual and 3D Model Training – Lessons from the WEB-IT Trial, Daniel Hoit, MD, MPH, FAANS
2:24 pm – 2:29 pm	Q&A
2:30 pm – 3:30 pm	Brain Aneurysms Continued (Treatment)..... Salon Ballroom <i>Moderators: Maxim Mokin, MD, PhD and Wolfgang Leesch, MD</i>

2:30 pm – 2:37 pm	Unruptured Aneurysms – Patient Selection, Indications for Treatment and Primum Non Nocere , <i>Justin F. Fraser, MD</i>
2:38 pm – 2:46 pm	“T, Y, X, ...&#^\$ - stenting?” Complex Balloon and Stent-Assisted Coiling Techniques. Where, When and How? <i>Jeremy Fields, MD</i>
2:47 pm – 2:55 pm	Wide Neck Aneurysms – Current Challenges, Limitations, and Experience with Intracranial Devices , <i>Lucas Elijovich, MD, FAHA</i>
2:56 pm – 3:03 pm	Beyond Stents: Novel Neck Bridging Devices for Wide Neck Aneurysms , <i>Radoslav Raychev, MD</i>
3:04 pm – 3:11 pm	Flow Diversion in Ruptured Aneurysms and Distal Aneurysms: When and How I do It , <i>Mario Martinez-Galdamez, MD</i>
3:12 pm – 3:18 pm	Live Case 1 - WEB WNBA Embolization , <i>Ansaar Rai, MD</i>
3:19 pm – 3:25 pm	Live Case 2 - Dual Micro Catheter Aneurysm Coiling , <i>Rafael Ortiz, MD</i>
3:26 pm – 3:30 pm	Q&A

3:30 pm – 4:00 pm **Coffee Break with Exhibitors & E-Poster Presentations**..... **Galleria**
Moderators: Raul Nogueira, MD, FSVIN, David Liebeskind, MD, FAHA, FAAN, FSVIN, Johanna Fifi, MD, FSVIN, and Dorothea Altschul, MD, FAHA

4:00 pm – 5:00 pm **Neurointerventional Surgery in the Next Century** **Salon Ballroom**
Moderators: Dileep Yavagal, MD, FSVIN, FAHA, Peter Kan, MD, and Ameer E. Hassan, DO, FAHA, FSVIN

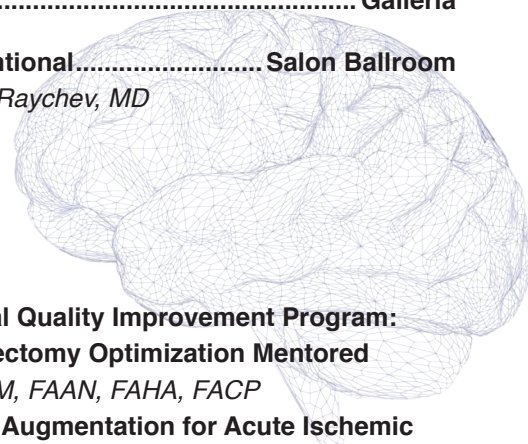
4:00 pm – 4:09 pm	Robotics in Neurointervention , <i>Aquilla Turk, DO</i>
4:10 pm – 4:19 pm	MMA Embolization for Subdural Hematoma , <i>Adam Arthur, MD, MPH, FAANS, FACS</i>
4:20 pm – 4:29 pm	Artificial Intelligence in Neurovascular Medicine - The Rise of the Machines , <i>Chris Mansi, MD, MPH</i>
4:30 pm – 4:55 pm	History of Neurointerventional Surgery and Looking Forward to the Next 100 years , <i>Alejandro Berenstein, MD</i>
4:56 pm – 5:00 pm	Q&A

6:00 pm – 8:00 pm **Networking Reception (included with meeting registration)**..... **Georgia Aquarium**

Saturday, November 23rd

6:30 am – 12:30 pm	Registration / Help Desk Salon Foyer
6:45 am – 8:00 am	Breakfast with Exhibitors Galleria
6:45 am – 11:15 am	Exhibits Galleria
8:00 am – 9:30 am	Clinical Trials Update - Stroke and Neurointerventional Salon Ballroom <i>Moderators: Viktor Szeder, MD, PhD and Radoslav Raychev, MD</i>

8:00 am – 8:07 am	c3Fit , <i>Kenneth Gaines, MD, MBA</i>
8:08 am – 8:15 am	BEST MSU , <i>James Grotta, MD</i>
8:16 am – 8:23 am	TRUST , <i>Andrei Alexandrov, MD, NVS</i>
8:24 am – 8:31 am	Fastest , <i>Joseph Broderick, MD</i>
8:32 am – 8:39 am	How to Lead Your Own Successful Hospital Quality Improvement Program: Lessons Learned from the Stroke Thrombectomy Optimization Mentored Program (STOMP) , <i>David Likosky, MD, SFHM, FAAN, FAHA, FACP</i>
8:40 am – 8:47 am	Impact 24 - Collateral Cerebral Blood Flow Augmentation for Acute Ischemic Stroke , <i>Jeffrey Saver, MD</i>
8:48 am – 8:55 am	Resilient , <i>Raul Nogueira, MD, FSVIN and Francisco José Mont’Alverne, MD, PhD</i>



PROGRAM

8:56 am – 9:03 am	Select 2, Amrou Sarraj, MD
9:04 am – 9:11 am	Compass Final Results & Economic Analysis, Aquilla Turk, DO
9:12 am – 9:19 am	RACECAT Update, Marc Ribó, MD
9:20 am – 9:30 am	Q&A
9:30 am – 10:45 am	Endovascular + Vascular Neurology Joint Session 2 Salon Ballroom (Intracranial Atherosclerotic Disease) <i>Moderators: Guy Raphaeli, MD, Robin Novakovic-White, MD, FSVIN, and Nima Aghaebrahim, MD</i>
9:30 am – 9:39 am	What I Learned from the Samprass Trial & How I Practice Today, David Fiorella, MD, PhD
9:40 am – 9:49 am	Modern Medical Management of ICAD and Interventional Treatment for Secondary Prevention, Jin Soo Lee, MD, PhD
9:50 am – 9:59 am	Microsurgical Bypass in 2019, Erez Nossek, MD
10:00 am – 10:09 am	Hyperacute ICAD - Endovascular Treatment Strategies: Scrape, Vacuum, Balloon or Stent? Marc Ribó, MD
10:10 am – 10:20 am	ICAD Live Case 1 - Label Case PTA / Stent Case, Rafael Ortiz, MD
10:21 am – 10:31 am	ICAD Live Case 2- Multiple Tia Angioplasty, Raul Nogueira, MD, FSVIN
10:32 am – 10:45 am	Q&A
10:45 am – 11:15 am	Coffee Break with Exhibitors & E-Poster Presentations..... Galleria <i>Moderators: Tudor Jovin, MD, FSVIN, Andrei Alexandrov, MD, NVS, Thanh Nguyen, MD, FSVIN, and Sandra Narayanan, MD, FAHA, FANA, FSVIN</i>
11:15 am – 12:40 pm	Radial Angiography Mini Symposium Salon Ballroom <i>Moderators: Alberto Maud, MD and Lucas Eljovich, MD, FAHA</i>
11:15 am – 11:30 am	Why Radial Approach? Lessons Learned from Cardiology and Current Evidence in Neurointerventional Surgery, Dileep Yavagal, MD, FSVIN, FAHA
11:31 am – 11:46 am	Anatomy, Equipment, and Tips and Tricks for Diagnostic Radial Cerebral Angiography, Rakesh Khatri, MD, FSVIN
11:47 am – 12:07 pm	Complex Neuro-Embolization Using Radial the Radial Artery: Is it Ready for Primetime? Priyank Khandelwal, MD
12:08 pm – 12:28 pm	Complications and Bail out Strategies for Transradial Neurointervention, Eytan Raz, MD, PhD
12:29 pm – 12:40 pm	Q&A
12:30 pm – 1:00 pm	Lunch for Fellows Course Attendees Galleria 1
1:00 pm – 5:00 pm	Fellows Course Galleria 4



FACULTY

Nima Aghaebrahim, MD
Baptist Hospital Jacksonville

Greg Albers, MD
Stanford University Medical Center

Mark Alberts, MD
Hartford HealthCare

Andrei V. Alexandrov, MD, NVS
University of Tennessee Health Science Center

Anne Alexandrov, PhD, AGACNP-BC, ANVP-BC, FAAN
University of Tennessee Health Science Center at Memphis

Dorothea Altschul, MD, FAHA
Neurosurgical Associates of NJ

Audrey Arango, RN, BSN, NVRN-BC
CarePoint Health

Adam Arthur, MD, MPH, FAANS, FACS
Semmes-Murphey/UTHSC

Alejandro Berenstein, MD
Mount Sinai Health System

Nirav Bhatt, MD
Emory University School of Medicine

Lee Birnbaum, MD, MS
University of Texas Health San Antonio

Mark Bober, MHA, NRP, FACP
Hackensack Meridian Health JFK EMS

Waleed Brinjikji, MD
Mayo Clinic

Joseph Broderick, MD
Department of Neurology and Rehabilitation Medicine, University of Cincinnati Gardner Neuroscience Institute

Bruce Campbell, MBBS, PhD
Department of Medicine and Neurology, Melbourne Brain Centre at the Royal Melbourne Hospital, University of Melbourne, Australia

Neeraj Chaudhary, MD, MRCS, FRCR, FAHA, FEBNI
Michigan Medicine - Radiology Neurology Neurosurgery & Otorhinolaryngology

Ji Chong, MD
Weill Cornell Medical College

Leonard Dimitri DaSilva, MD, MBA
Patronus Neurology

Michael DeBaun, MD, MPH
Vanderbilt University School of Medicine

Thomas Devlin, MD, PhD, FSVIN
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Saint Louis University

Lucas Elijovich, MD, FAHA
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Mount Sinai Health System

David Fiorella, MD, PhD
Stony Brook University Medical Center

Christine Fox, MD, MAS
University of California San Francisco

Liz Fox, MSN, ACNS, AG-ACNP, AVNP, FAHA
Stanford Health Care

Michael Frankel, MD
Emory University School of Medicine and Grady Hospital

Justin F. Fraser, MD
University of Kentucky

Kenneth Gaines, MD, MBA
Vanderbilt University Medical Center

Martin Gizzi, MD, PhD
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In recognition of his outstanding contributions to training and mentoring of Interventional Neurologists

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Best Abstract

Radoslav Raychev, MD
"The clinical impact of eloquent cortex-tissue reperfusion beyond the traditional TICI scoring after thrombectomy"

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Shashvat Desai, MD
"Impact of Time and ASPECTS on Clinical Core Mismatch in Large Vessel Occlusion Strokes"

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Exhibit Hall Hours | Galleria

Wednesday, November 20 12:00 pm – 5:00 pm
Thursday, November 21 6:45 am – 5:50 pm
Friday, November 22 6:45 am – 5:00 pm
Saturday, November 23 6:45 am – 11:15 am

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Balt USA LLC was established in 2017 as the US-based division of Balt Incorporated and is based in Irvine, California. Balt USA's focus is on the commercialization of Balt products in the United States as well as continuing a tradition of physician inspired innovation through novel research and development.

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MicroVention provides a complete 360-degree approach to developing neuroendovascular technologies with four main product groups: Aneurysm Therapy Solutions, Ischemic Stroke and Carotid Artery Disease Solutions, Neurovascular Malformation Solutions, and Access Products. Additionally, our extensive product lines in each category allow our customers to uniquely address the needs of their patients.

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Since its founding in 2005, Phenox has been dedicated to developing innovative, breakthrough and clinically proven technologies and solutions for the treatment of neurovascular diseases. Phenox's products are used by endovascular specialists to treat ischemic and hemorrhagic stroke. More information about the company and its products can be found at www.phenox.com.

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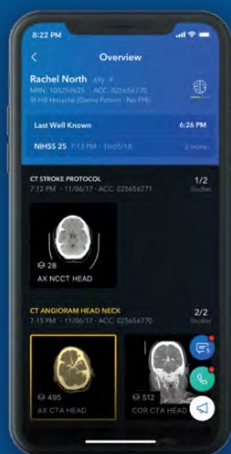
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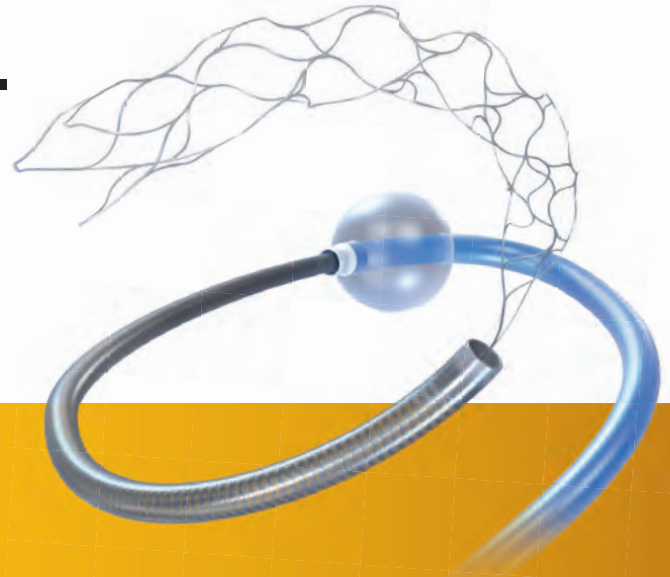
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Phenom™ Catheters are intended for the introduction of interventional devices and infusion of diagnostic or therapeutic agents into the neuro, peripheral, and coronary vasculatures. The React™ 68 Catheter and React™ 71 Catheter are indicated for the introduction of interventional devices into the peripheral and neuro vasculature. The Riptide™ Aspiration System is intended for use in the revascularization of patients with acute ischemic stroke secondary to intracranial large vessel occlusive disease (within the internal carotid, middle cerebral M1 and M2 segments, basilar, and vertebral arteries) within 8 hours of symptom onset. Patients who are ineligible for intravenous tissue plasminogen activator (IV t-PA) or who fail IV t-PA therapy are candidates for treatment.

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Device description when use as a revascularization device

The AXS Universal Aspiration System is composed of the following components:

- AXS Catalyst Distal Access Catheter
- AXS Universal Aspiration Tubing
- Medela Dominant Flex Pump
- AXS Universal Liner Set

The AXS Universal Aspiration System is designed to remove thrombus from the neurovasculature using continuous aspiration.

The AXS Catalyst Distal Access Catheter delivers aspiration from the Medela Dominant Flex Pump directly to the site of the occlusion to remove the clot. The AXS Catalyst Distal Access Catheter is a sterile, single lumen, variable stiffness catheter. The catheter shaft has a hydrophilic coating to reduce friction during use, includes a radiopaque marker on the distal end for angiographic visualization, and includes a luer hub on the proximal end allowing attachments for flushing and aspiration. It is packaged with a Rotating Hemostasis Valve (RHV), Tuohy Borst Valve with Sideport, and Peel Away Introducer.

The Rotating Hemostasis Valve and Tuohy Borst valve with sideport are used for flushing, insertion of catheters, and aspiration. The peel away introducer sheaths are designed to protect the distal tip of the catheter during insertion into the RHV or Tuohy Borst. The AXS Catalyst Distal Access Catheter is the only component of the AXS Universal Aspiration System that is used intravascularly.

AXS Universal Aspiration System
The AXS Universal Aspiration Tubing serves as a conduit to supply vacuum from the Medela Dominant Flex Pump to the distal tip of the AXS Catalyst Distal Access Catheter. The AXS Universal Aspiration Tubing provides a connection between the sterile and non-sterile environments. The proximal end of the AXS Universal Aspiration Tubing is connected to the AXS Universal Liner Set (outside of the sterile environment) while the distal end of the AXS Universal Aspiration Tubing is connected to the AXS Catalyst Distal Access Catheter (inside the sterile environment). The AXS Universal Liner Set is connected to the Medela Dominant Flex Pump (also outside of the sterile environment).

The Medela Dominant Flex Pump is designed to generate vacuum for the AXS Universal Aspiration System. When used as part of the AXS Universal Aspiration System, the AXS Catalyst Distal Access Catheter requires a minimum vacuum pressure of -68 kPa [-20.08 in Hg] from the Medela Dominant Flex Pump. The Medela Dominant Flex Pump is reusable, non-sterile, and intended to be utilized outside of the sterile environment.

The AXS Universal Liner Set is provided non-sterile and consists of an individually packaged canister liner and a ClotFinder specimen cup. The AXS Universal Liner Set is offered with and without a desiccant. The AXS Universal Liner Set is single-use and the repository for aspirated material.

Contraindications

None known.

Adverse events

Potential adverse events associated with the use of catheters or with the endovascular procedures include, but are not limited to:

- Access site complications
- Allergic reaction
- Aneurysm perforation
- Aneurysm rupture

- Death
- Embolism (air, foreign body, plaque, thrombus)
- Hematoma
- Hemorrhage
- Infection
- Ischemia
- Neurological deficits
- Pseudoaneurysm
- Stroke
- Transient Ischemic Attack
- Vasospasm
- Vessel dissection
- Vessel occlusion
- Vessel perforation
- Vessel rupture
- Vessel thrombosis

Use of device requires fluoroscopy which presents potential risks to physicians and patients associated with x-ray exposure. Possible risks include, but are not limited to, the following:

- Alopecia
- Burns ranging in severity from skin reddening to ulcers
- Cataracts
- Delayed neoplasia

Warnings for both indications

Contents supplied STERILE using an ethylene oxide (EO) process. Do not use if sterile barrier is damaged. If damage is found, call your Stryker Neurovascular representative.

For single use only. Do not reuse, reprocess or resterilize. Reuse, reprocessing or resterilization may compromise the structural integrity of the device and/or lead to device failure which, in turn, may result in patient injury, illness or death. Reuse, reprocessing or resterilization may also create a risk of contamination of the device and/or cause patient infection or cross-infection, including, but not limited to, the transmission of infectious disease(s) from one patient to another. Contamination of the device may lead to injury, illness or death of the patient.

After use, dispose of product and packaging in accordance with hospital, administrative and/or local government policy.

- Limited testing has been performed with solutions such as contrast media, and saline. The use of these catheters for delivery of solutions other than the types that have been tested for compatibility is not recommended.
- Not intended for use with power injectors.
- If flow through catheter becomes restricted, do not attempt to clear catheter lumen by infusion. Doing so may cause catheter damage or patient injury. Remove and replace catheter.
- Never advance or withdraw an intravascular device against resistance until the cause of the resistance is determined by fluoroscopy. Movement of the device against resistance could dislodge a clot, perforate a vessel wall, or damage the device.

Additional warning for revascularization indication only

- Excessive aspiration may cause patient complications.

Precautions

- Carefully inspect all devices prior to use. Verify size, length, and condition are suitable for the specific procedure. Ensure the catheter's labeled outer diameter is smaller than the treatment vessel diameter. Do not use a device that has been damaged in any way. Damaged device may cause complications.
- To control the proper introduction, movement, positioning and removal of the catheter within the vascular system, users should employ standard clinical angiographic and fluoroscopic practices and techniques throughout the interventional procedure.
- Use the product prior to the "Use By" date printed on the label.
- To prevent thrombus formation and contrast media crystal formation, maintain a constant infusion of appropriate flush solution through catheter lumen.
- Torquing the catheter may cause damage which could result in kinking or separation of the catheter shaft.

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- Basic Anatomy, Statistics, & Types of Strokes
- Risk Factors, Signs & Symptoms
- BE FAST, EMS, & Detection Scales
- Treatment Options & Methods for Improving Stroke Outcomes

To help expand the stroke treatment network, this course is geared towards:

- Physicians
- Nurses
- Emergency Medical Technicians
- First Responders
- Healthcare Workers
- Hospital Personnel
- General Public

Course Details

Price: \$35 for SVIN members
\$50 for non-members

Time: Self-paced, online course, approx. 1.5-2 hours

Accreditation: 1.5 ACCME, ANCC, CAPCE

If you have questions,
please contact Delaney
Hogan-Bakke at
education@svin.org





ADVANCED **STROKE**

EMERGENCY SUPPORT

EMERGENCY MEDICAL SERVICES

EMS is the first line of care for stroke patients.



Current stroke education and the understanding of stroke scales and regional protocols is paramount for the improved outcomes of stroke patients.

Grow your stroke skills for use in the field!

This course will expand your knowledge on:

- Types of Stroke & Risk Factors
- Prehospital Triage
- Stroke Detection Scales
- Warning Signs & Symptom
- Stroke Severity Scales
- Treatment Options
- Bypass & Transfer Protocols

To help increase the stroke treatment network, this course is appropriate for:

- First Responders
- Emergency Medical Technicians
- Fire Fighters
- Police Officers
- Paramedics
- Nurses
- Physicians



Course Details

Price: \$50 for SVIN members
\$75 for non-members

Time: Self-paced course, approximately 2.5 hours

Certification: 2-year ASES certification of completion

Accreditation: 2.5 ACCME, ANCC, CAPCE

Access online course at svin.org

For questions, please contact Delaney Hogan-Bakke at education@svin.org





ADVANCED STROKE EMERGENCY SUPPORT

Emergency Department



*Expand your knowledge to
improve outcomes*

Current stroke education and the understanding of stroke scales and regional protocols is paramount for the improved outcomes of stroke patients.

Grow your stroke skills for use in the emergency department!

This online course includes:

- Risk & Benefits of IV Alteplase
- Transfer Algorithms
- Data on TPA
- Stroke Mechanisms

***To help increase stroke network,
this course is appropriate for:***

- Physicians
- Nurses
- Emergency Department personnel

Access online course and learn more at svin.org



Course Details:

Price: \$50 for SVIN members
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Accreditation: 2.5 ACCME, ANCC, CAPCE

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