



**Society of Vascular and  
Interventional Neurology**

**9<sup>th</sup> Annual Meeting &  
4<sup>th</sup> Annual Stroke Center Workshop**

**PROGRAM**

*Building Bridges*

**November 16-19, 2016**

**New York Marriott Brooklyn Bridge in Brooklyn, New York**



# SCHEDULE AT A GLANCE

## TUESDAY, NOVEMBER 15

4:00 pm - 8:00 pm	Registration/Help Desk .....	Promenade
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## WEDNESDAY, NOVEMBER 16

6:30 am - 6:00 pm	Registration/Help Desk .....	Promenade
7:45 am - 5:00 pm	SVIN Stroke Center Workshop (6M Conference) .....	Grand Ballroom A-D
7:45 am - 8:00 am	Welcome .....	
8:00 am - 9:15 am	Management of Stroke Centers - Stroke Care Economics and Financials .....	
9:15 am - 10:15 am	Manpower Needs – Workforce Trends for LVO Thrombectomy .....	
10:15 am - 10:30 am	Break .....	Grand Ballroom Foyer
10:30 am - 12:10 pm	Medical Device Industry and Healthcare Systems Symposium .....	Grand Ballroom A-D
12:10 pm - 12:40 pm	Lunch .....	Grand Ballroom Foyer
12:40 pm - 2:30 pm	Mission 2020 – SVIN's goal of 220K LVO Thrombectomies Worldwide by Year 2020 .....	
2:30 pm - 3:30 pm	Minutes – Strategies for Optimizing Time to Perfusion in LVO's .....	
3:30 pm - 3:45 pm	Break .....	Grand Ballroom Foyer
3:45 pm - 5:00 pm	Machines – Mobile Stroke Units and Technologies making Emergency Medical Services (EMS) and Emergency Department (ED) Stroke Triage Feasible .....	
5:00 pm - 8:00 pm	Neuravi Science of Clot Workshops (Registration Required) .....	Dumbo
6:00 pm - 7:00 pm	Opening Reception (All are welcome) .....	Northside Ballroom
7:00 pm - 9:00 pm	Board Meeting .....	Navy Yard

## THURSDAY, NOVEMBER 17

6:30 am - 6:00 pm	Registration/Help Desk .....	Promenade
6:45 am - 8:00 am	Breakfast .....	Grand Ballroom E-F
6:45 am - 5:00 pm	Exhibit Hall .....	Grand Ballroom E-F
7:00 am - 4:00 pm	Medtronic Technology Suite .....	Golden Board Room
8:00 am - 5:00 pm	Annual Meeting General Session .....	Grand Ballroom A-D
8:00 am - 8:05 am	Welcome .....	Grand Ballroom A-D
8:05 am - 9:45 am	Session 1: Aneurysm Management .....	
9:45 am - 10:15 am	Break with Exhibitors .....	Grand Ballroom E-F
10:15 am - 11:50 am	Session 2 - Arteriovenous Malformations .....	
11:50 am - 12:10 pm	Lunch .....	Grand Ballroom Foyer
12:10 pm - 12:50 pm	Medtronic Symposium: Transforming the Standard of Care (Non CME) .....	Grand Ballroom A-D
12:50 pm - 1:30 pm	Penumbra Symposium (Non CME) .....	Grand Ballroom A-D
1:30 pm - 3:30 pm	Session 3: Practice Building .....	
3:30 pm - 4:00 pm	Break with Exhibitors .....	Grand Ballroom E-F
4:00 pm - 5:00 pm	Session 4: Neurointensive Care Management .....	
5:00 pm - 6:00 pm	Platform Session I .....	
6:05 pm - 7:15 pm	Members-in-Training Program and Reception with Support from Penumbra .....	Northside Ballroom
7:15 pm - 8:15 pm	SVIN Cocktail Hour with Support from Penumbra .....	Northside Ballroom
7:00 pm - 8:00 pm	Neuravi Science of Clot Workshop (Registration Required) .....	Dumbo

## FRIDAY, NOVEMBER 18

6:30 am - 6:00 pm	Registration/Help Desk .....	Promenade
6:45 am - 8:00 am	Breakfast .....	Grand Ballroom E-F
6:45 am - 6:30 pm	Exhibit Hall .....	Grand Ballroom E-F
7:00 am - 4:00 pm	Stryker Technology Suite .....	Golden Board Room
8:00 am - 4:25 pm	Annual Meeting General Session .....	Grand Ballroom A-D
8:00 am - 8:30 am	Public Health, Economics, and LVO, Ralph Sacco, MD, MS, FAHA, FAAN .....	Grand Ballroom A-D
8:30 am - 9:00 am	Keynote Address: Donna Shalala, PhD .....	Grand Ballroom A-D
9:00 am - 10:00 am	Session 5: Stroke Care Access For One and For All: National and International .....	
10:00 am - 10:30 am	Presidential Address and Annual Business Meeting .....	Grand Ballroom A-D
10:30 am - 11:00 pm	Break with Exhibitors .....	Grand Ballroom E-F
11:00 am - 12:15 pm	Session 6: Stroke: Systems of Care .....	
12:15 pm - 12:35 pm	Lunch .....	Grand Ballroom Foyer
12:35 pm - 1:15 pm	Stryker Symposium (Non CME) .....	Grand Ballroom A-D
1:15 pm - 1:55 pm	MicroVention Symposium (Non CME) .....	Grand Ballroom A-D
1:55 pm - 3:25 pm	Session 7: Stroke: What's Next? .....	
3:25 pm - 3:45 pm	Break with Exhibitors .....	Grand Ballroom E-F
3:45 pm - 4:25 pm	Session 8: Edited Live Cases .....	
4:30 pm - 6:30 pm	Poster Session and Reception .....	Grand Ballroom E-F

## SATURDAY, NOVEMBER 19

6:30 am - 1:00 pm	Registration/Help Desk .....	Promenade
6:45 am - 8:00 am	Breakfast .....	Grand Ballroom E-F
6:45 am - 11:20 am	Exhibit Hall .....	Grand Ballroom E-F
7:00 am - 8:00 am	International Breakfast Corner .....	Green Point
8:00 am - 12:50 pm	Annual Meeting General Session .....	Grand Ballroom A-D
8:00 am - 9:00 am	Platform Session II .....	Grand Ballroom A-D
9:00 am - 10:50 am	Session 9: Emerging Technologies .....	
10:50 am - 11:20 am	Break with Exhibitors .....	Grand Ballroom E-F
11:20 am - 12:50 pm	Session 10: Clinical Trials Update .....	
12:50 pm	Meeting Adjourns .....	

# Welcome



**Johanna Fifi, MD, FAHA, FSVIN**  
9th Annual Meeting Program  
Chair, SVIN Board of Director,  
SVIN



**Vallabh Janardhan, MD, FSVIN**  
4th Annual Stroke Center  
Workshop Program Chair, SVIN  
Founding Board of Director,  
SVIN



**Raul Nogueira, MD, FSVIN**  
President, SVIN

The Society of Vascular and Interventional Neurology (SVIN) welcomes you to the 9th Annual Meeting at the New York Marriott at Brooklyn Bridge in Brooklyn, New York! SVIN membership continues to broaden in terms of professional backgrounds, levels of training and experience. This year's meeting theme is *Building Bridges*. We are aligning ourselves with international partners and thought leaders to learn from each other's best practices and further collaborate to further improve the outcome of patients. We designed our program to be of value to our vascular neurology participants as well as highlight knowledge from our cerebrovascular neurosurgery and interventional neuroradiology colleagues. This year's annual meeting will reflect the diversity of our membership, the strong ethic of collaboration and our commitment to advancing patient care and research within the fields of vascular and interventional neurology.

We look forward to an exciting meeting, made stronger by your presence, which will provide a forum to come together from across the globe to share innovations, advance our knowledge through didactic sessions and hands-on training opportunities, and provide a forum for open debate and discussion to address issues confronting our field today.

Each year SVIN's highly successful annual meeting has grown in an effort to meet the mission statement of the society. To that regard, the pre-conference day is focused on elevating SVIN's goal of optimizing the stroke infrastructure worldwide to enable rapid access to thrombectomies for stroke patients with Large Vessel Occlusions (LVO's). This year will mark the 4th pre-conference Annual Stroke Center Workshop (aka SVIN **6M** Conference) with 6 sessions addressing various aspects of Stroke Infrastructure needs: **Management** – stroke care economics, **Manpower** – workforce trends for LVO thrombectomy, **Medical device** industry and healthcare systems symposium, **Mission 2020** – international strategies to maximize LVO stroke care worldwide, **Minutes** – optimizing time to perfusion, and **Machines** – mobile stroke units and technologies for LVO triage, and includes an interactive *Medical Device CEO Roundtable*. Vallabh Janardhan, MD, FSVIN and his stellar team of Co-Chairs, Dr. Thomas Devlin, Anita Guthmann, Sharon Eberlein, and Dr. Anne Alexandrov, have put together an outstanding program with speakers, moderators, and panelists that include an array of key opinion leaders from the US, Europe, and internationally. The SVIN 6M Conference is intended to bring together healthcare systems, hospital administrators, physician and nurse stroke champions, emergency medical services leaders and industry leaders (Tele-health, Pharma, and Medical Device) who are interested in learning the requisite components of building and sustaining the stroke infrastructure needed to decrease the stroke burden worldwide. The workshop will also highlight Stroke Economics and the business side of developing Stroke Systems of Care.

In response to society member feedback, we have increased the opportunity for open dialogue through panel discussions, debate-style sessions, edited live cases and social gatherings. As you look through the program agenda you will see our dedication to foster scientific advancement in the area of cerebrovascular diseases as well as deliver educational content on the depth and innovations within the field. Along that note, SVIN is honored to feature Donna Shalala, PhD as the Keynote Lecturer. As former U.S. Secretary of Health and Human Services under President Clinton, she will give her insight into strategies to overcome the challenges we face in the reorganization of our current health care system. She will be joined by Dr. Ralph Sacco who will discuss the Public Health, Economics, and LVO. As an overview of the field, pioneer Dr. Alejandro Berenstein, will lead us through the journey of the past, present and future of neurointervention. Join other experts and lend your insights as we promote advancement in the topics that are at the forefront of our field today.

As a testament to the importance of SVIN and the Annual Meeting, we are pleased to announce that very important new data will be presented during the Clinical Trials Session on Saturday, November 19th, including data from several recently completed and ongoing stroke intervention trials. Plan on staying for the whole meeting to get the latest science and the most out of the annual meeting!

Additionally, we wish to acknowledge the gracious assistance and participation of all our annual meeting supporters and exhibitors. Please be sure to visit the exhibitors and supporters during the exhibit hours and make plans to attend the technology suites. Further information can be found in this brochure.

The Abstract Committee, Chaired by Alicia Castonguay, PhD, met the challenge of choosing the best scientific abstracts from the 100+ excellent submissions. The committee has been working diligently to bring out the best of SVIN science in two platform presentation sessions and a poster reception led by professors, which will take place on Friday. There will be plenty of time to socialize with peers and leaders and visit posters! Also, make a point to join us at the Opening Reception on Wednesday night to celebrate the start of an exciting meeting. I want to personally thank the Annual Meeting Committee, Abstract Committee, Fundraising Committee, Stroke Center Workshop Co-Chairs, SVIN's Executive Board and Board of Directors, as well as everyone else who have generously donated their time and efforts to help put together this outstanding meeting.

I look forward to a wonderful time learning, networking and having fun with all of you in New York!

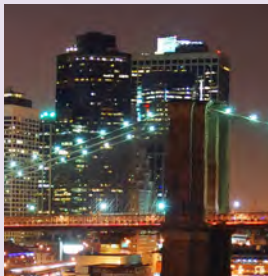


**Johanna Fifi, MD, FAHA, FSVIN**  
Chair, Annual Meeting Program Committee  
Member of the Board of Directors, Society of Vascular  
and Interventional Neurology





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# GENERAL INFORMATION

## LEARNING OBJECTIVES AND TARGET AUDIENCE

### 4th Annual Stroke Center Workshop Program Description

The SVIN Stroke Center Workshop (6M Conference) will kick-start the SVIN Annual Meeting. There is an unmet need for improving the Stroke Infrastructure worldwide to enable rapid access to thrombectomies for stroke patients with Large Vessel Occlusions (LVO's). Healthcare systems, stakeholders involved in the stroke chain of survival, and industry need to join hands in making this a reality. This workshop is intended to bring together healthcare system leadership and administrators, hospital administrators, service line leaders, physician and nurse stroke champions, emergency department (ED) and emergency medical services (EMS) leaders, and industry leaders (Tele-health, Pharmaceutical, and Medical Device) who are interested in learning the requisite components of building and sustaining the Stroke Infrastructure needed to decrease the stroke burden worldwide. The workshop will also highlight Stroke Economics and the business side of developing Stroke Systems of Care.

### Learning Objectives

Upon completion of the educational activity, participants should be able to: 1) Summarize the stroke economics and Review the business side of becoming a stroke center; 2) Evaluate the manpower requirements for developing a stroke interventional lab; 3) Discuss advanced technology utilization and healthcare innovation in stroke care delivery; 4) Identify the building blocks of developing stroke infrastructure needed for LVO stroke care; 5) Recognize the time based metrics needed for optimizing faster times to perfusion in LVO's and 6) Distinguish EMS stroke triage for LVO's and parallels with STEMI and Trauma Systems.

### SVIN 9th Annual Meeting Program Description

The SVIN Annual Meeting has become a premier academic venue with scientific presentations covering the full spectrum of cerebrovascular diseases and stroke. Topics to be addressed include embolectomy, aneurysms and AVMs, subarachnoid and intracranial hemorrhage, endovascular saves and innovative approaches, new device review, international perspectives, and other related topics. Our speakers are leaders in the field. Given the high level of the field-specific presentations, we anticipate continued attendance by a large proportion of interventional neurology and related endovascular practitioners as well as neurologists interested and subspecialized in the care of patients with vascular diseases.

### Learning Objectives

Upon completion of the educational activity, participants should be able to: 1) Describe practical issues in the endovascular management of cerebral vascular malformations and aneurysms; 2) Describe practical issues in the operation of a vascular and interventional neurology clinical practice; 3) Acquire practical knowledge of the neurocritical care of vascular and interventional neurology patients; 4) Discuss public health and economic issues related to the care of patient with large vessel occlusion internationally; 5) Formulate a response to the gap in stroke systems of care and need for emergent treatment of large vessel occlusion patients; 6) Highlight initiatives aimed at improving stroke systems in the emergent care of large vessel occlusion patients; 7) Identify measures aimed at improving the safety and efficacy of reperfusion therapy in the modern area; 8) Apply best practice in patient selection for acute ischemic stroke

endovascular revascularization therapy; 9) Describe measures and best practices aimed at decreasing door to intervention times; 10) Describe the emerging field of minimally invasive treatment of intracranial hemorrhage; 11) Review current ongoing clinical trials in the field of interventional neurology and new knowledge that has been gained; 12) Synthesize knowledge on practical care and neurointervention techniques by moderated review of live videos of cases; 13) Obtain an international perspective on the field of interventional neurology; 14) Describe new techniques and devices for the treatment cerebral aneurysms and 15) Highlight emerging technologies and advances in the fields of vascular neurology and neurointerventions.

### Target Audience:

Neuro-Interventionists, Interventional Neurologists, Interventional Neuro-Radiologists, Endovascular Neurosurgeons, Vascular Neurologists, Neurointensivists, Stroke Neurologists, Critical Care Physicians, Other Related Neurological or Endovascular Practitioners, hospital administration (CEO's, COO's, VP's Business Development, VP's Neuroscience), Nurse leaders (CNO's, VP's Quality), Physician leaders (CMO's, Stroke Medical Directors, Stroke Neurologists, Critical care physicians, Neurosurgeons, & Neuro-Interventionalists), ED leadership (ED Directors, ED Medical Directors), EMS leadership (EMS medical directors, EMS/Fire chiefs), ICU leadership (ICU directors, Neuro ICU medical directors), Interventional Lab Leadership (Radiology directors, Supply Chain Management), Advanced Nurse practitioners, Residents and Fellows.

## EXHIBIT AND REGISTRATION DESK HOURS

Registration/Help Desk Hours | Promenade  
Tuesday, November 15..... 4:00 pm - 8:00 pm  
Wednesday, November 16 ..... 6:30 am - 6:00 pm  
Thursday, November 17 ..... 6:30 am - 6:00 pm  
Friday, November 18 ..... 6:30 am - 6:00 pm  
Saturday, November 19..... 6:30 am - 1:00 pm

Exhibit Hall Hours | Grand Ballroom E-F  
Thursday, November 17 ..... 6:45 am - 5:00 pm  
Friday, November 18 ..... 6:45 am - 6:30 pm  
Saturday, November 19..... 6:45 am - 11:20 am

## HOW TO CLAIM CME FOR THE SVIN 2016 ANNUAL MEETING

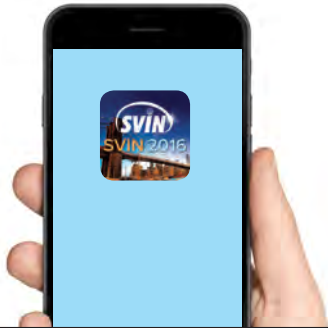
### Claim your CME as easy as 1-2-3:

1. Access the SVIN 2016 Annual Meeting Evaluation by using the following link: [www.akhcme.com/svin](http://www.akhcme.com/svin)
2. Complete the evaluation and sessions attended.
3. After you hit submit, an electronic copy will be emailed to you for your records.
4. **Physician:** 16 **AMA PRA Category 1 Credit(s)**™ for Annual Meeting and a maximum of 7.25 **AMA PRA Category 1 Credit(s)**™ for Stroke Center Workshop.  
**Nursing:** The Annual Meeting is awarded 15.9 Contact Hours and the Stroke Center Workshop is awarded 7 Contact Hours. ABPN Self-Assessment (SACME) credits will also be provided.

Please see page 15 for complete CME/CE information.

## SVIN APP INFORMATION

### DOWNLOADING THE SVIN APP IS EASY!



#### SVIN MOBILE MEETING APP

Navigate the event like a pro with the SVIN 2016 Annual Meeting mobile app, powered by Core-apps.com

With the SVIN 2016 Annual Meeting mobile app, you can:

- Stay organized with up-to-the-minute Speaker, Exhibitor, and Event information
- Sync the app across all of your devices with Multi-Device Sync
- Receive important real-time communications from SVIN
- Build a personalized schedule and bookmark exhibitors
- Take notes and download event handouts and presentations
- Rate the sessions you attend and comment on them, too
- Find attendees and connect with your colleagues through Friends
- Stay in-the-know and join in on social media with #svin2016
- Share your event photos and experiences with the Photo Gallery
- And much, much more!

#### DOWNLOADING INSTRUCTIONS:

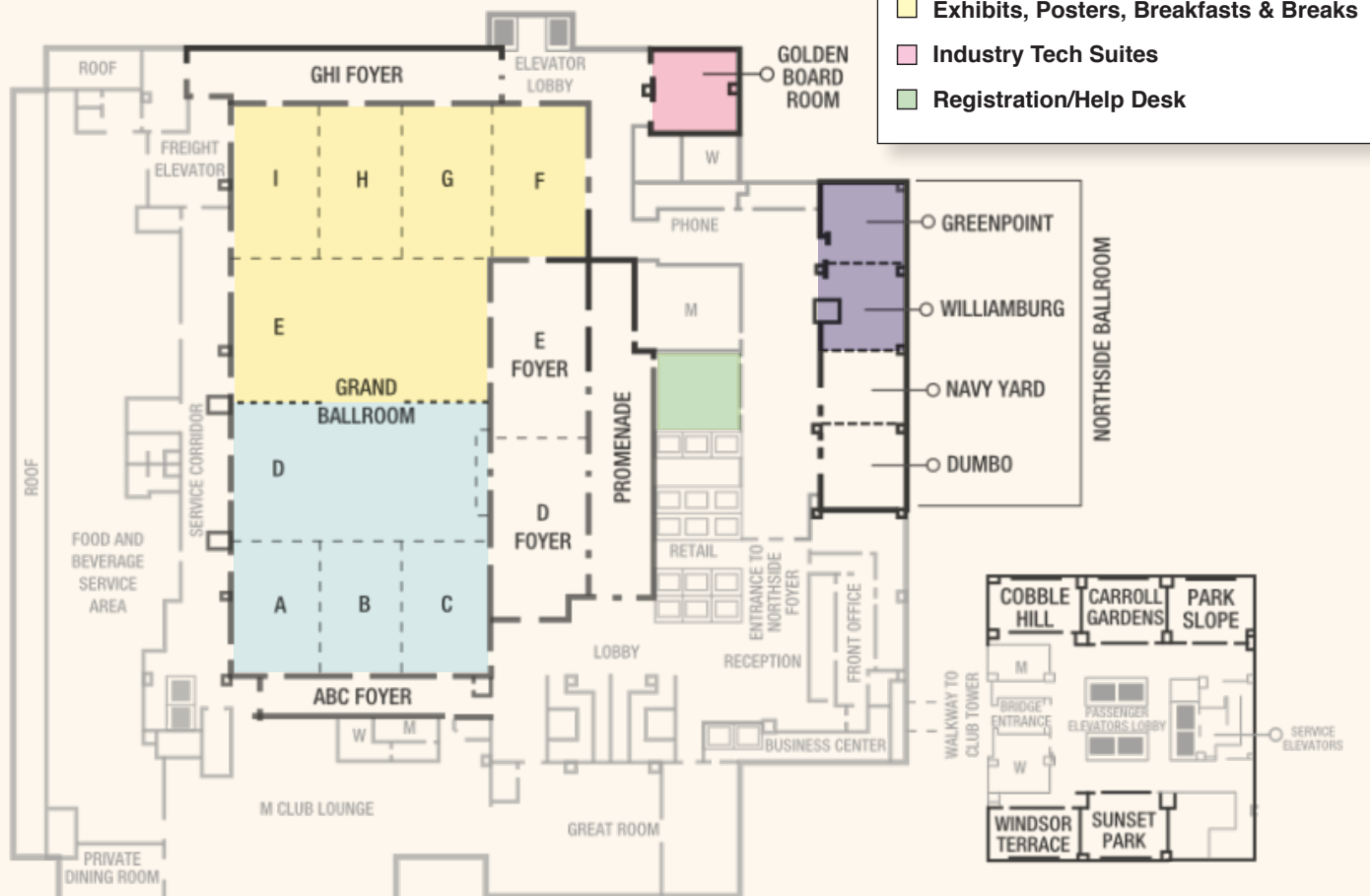
**SEARCH:** The App Store or Google Play for: SVIN, SVIN 2016, SVIN Annual Meeting 2016

#### SCAN:

For all other device types (including BlackBerry, Windows, and all other web browser-enabled devices): While on your smartphone, point your smartphone, point your mobile browser to [m.core-apps.com/svin\\_am16](http://m.core-apps.com/svin_am16) to be directed to the proper download version for your device.



## MAP - SECOND FLOOR





# AWARDS AND RECOGNITIONS

## OFFICERS

### President

Raul Nogueira, MD, FSVIN

### Vice President

Italo Linfante, MD, FAHA, FSVIN

### Treasurer

Robin Novakovic, MD, FSVIN

### Secretary

David Liebeskind, MD, FAHA, FAAN

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Tudor Jovin, MD, FSVIN

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Marc Ribo, MD

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Qaisar Shah, MD

### Ex-Officios

Dileep R. Yavagal, MD, FAHA, FSVIN

Osama Zaidat, MD, MS, FSVIN

### Executive Director

Janel Fick

SVIN would like to extend a special thank you to the following individuals for their contributions to the SVIN 2016 Meeting:

### SVIN 2016 Abstract Committee

Chair: Alicia Castonguay, PhD

Michael G. Abraham, BA, MD

Fawaz AL-Mufti, MD

Steve Cordina, MD

Jawad Kirmani, MD, FSVIN

Osman Kozak, MD

Italo Linfante, MD, FSVIN

Sonal Mehta, MD

Thanh Nguyen, MD, FSVIN

Robin Novakovic, MD, FSVIN

Edgar Samaniego, MD, MS

Fawad Shaheen, MD

Tanzilla Shams, MD

Mohamed Teleb, MD

### SVIN 2016 Annual Meeting Committee

Chair: Johanna Fifi, MD, FSVIN

Alex Abou-Chebl, MD, FSVIN

Lucas Eljovich, MD

Viktor Szeder, MD, PhD

Ameer Hassan, DO, FAHA, FSVIN

Thanh Nguyen, MD, FSVIN

### SVIN 2016 Fundraising Committee

Chair: Italo Linfante, MD, FSVIN

Alicia Castonguay, PhD

Vallabh Janardhan, MD, FSVIN

Thanh Nguyen, MD, FSVIN

Robin Novakovic, MD, FSVIN

Dileep Yavagal, MD, FSVIN



## Congratulations to the following Society Awardees:

### Neurointerventional Pioneering Award

Peter Nelson, MD

In recognition of his outstanding contributions to training and mentoring of Interventional Neurologists.

### Neurologist Pioneering Award

Osama Zaidat, MD, MS, FSVIN

In recognition of his outstanding contributions to the field of Interventional Neurology.

### Innovation Award

Y. Pierre Gobin, MD

In recognition for his innovation in the field of Interventional Neurology.

### Distinguished Service Award

Tudor Jovin, MD, FSVIN

In recognition for his substantial service to the Society of Vascular and Interventional Neurology.

## Congratulations to the following SVIN 2016 Trainee Travel Grant Awardees:

Norman Ajiboye, MD

Fawaz Al-Mufti, MD

Kunakorn Atchaneeayasakul, MD

Mehdi Bouslama, MD

Sudeepa Dandapat, MD

Julian C. Duda, MD

Adrian P. Fawcett, MD, PhD

Nabeel A. Herial, MD, MPH

Taka Higashimori, MD

Osama Jamil, MD

Cynthia Kenmuir, MD, PhD

Priyank Khandelwal, MD

Gurmeen Kaur, MD

Ashish Kulhari, MD

Andrey Lima, MD

Joshua Lukas, MS4

Siddhart K. Mehta, MD

Manuel A. Moquillaza, MD

Ashkan Mowla, MD

Sumeet S. Multani, MD

Varun Naragum, MD

Emad Nourollah-Zadeh, MD

Erika Tatiana Marulanda-Londoño, MD

Kavit Shah, MD

Gregory B. Walker, MD

Wled Wazni, MD

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SVIN gratefully acknowledges the generous support from our sponsors:

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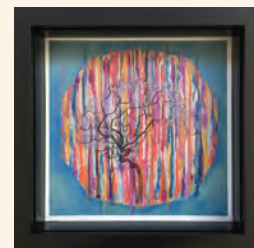
### Endorsements

The following organizations endorse the SVIN 4th Annual Stroke Center Workshop and 9th Annual Meeting:



## SVIN FUNDRAISER 30% OF PROCEEDS GO TO SVIN

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Leah Guzman



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# PROGRAM

## Tuesday, November 15

4:00 pm - 8:00 pm      Registration/Help Desk ..... Promenade

## Wednesday, November 16      Stroke Center Workshop (6M Conference)

6:30 am - 6:00 pm      Registration/Help Desk..... Promenade

7:45 am - 5:00 pm      **Stroke Center Workshop (6M Conference)** ..... Grand Ballroom A-D  
**Chair:** Vallabh Janardhan, MD, FSVIN  
**Co-Chairs:** Anne W. Alexandrov, PhD, RN, CCRN, NVRN-BC, AGACNP-BC, ANVP-BC, FAAN, Thomas Devlin, MD, PhD, Sharon Eberlein, RN, MBA, BSN, NE-BC and Anita Guthmann, RN, BSHM

7:45 am - 8:00 am      **Welcome** ..... Grand Ballroom A-D

8:00 am - 9:15 am      **Management of Stroke Centers - Stroke Care Economics and Financials**  
**Moderators:** Thomas Devlin, MD, PhD and Qaisar A. Shah, MD

8:00 am - 8:10 am      **Overview of Stroke Care Services and Therapies at Comprehensive Stroke Centers,** Traci Jennings, MHA, BSN, RN  
8:10 am - 8:20 am      **Making the Case for Stroke Center Upgrades from a Primary to a Comprehensive Stroke Center,** Thomas Devlin, MD, PhD  
8:20 am - 8:40 am      **Summary Review of Income, Expenses, and Revenue at a Comprehensive Stroke Center,** Thomas Devlin, MD, PhD  
8:40 am - 8:50 am      **The Income Ledger: Importance of Patient Volume and Coding,** Thomas Devlin, MD, PhD  
8:50 am - 9:00 am      **The Expense Ledger: Detailed Analytics Inside and Outside the Stroke Interventional Lab,** Thomas Devlin, MD, PhD  
9:00 am - 9:15 am      **Discussion/Questions**

9:15 am - 10:15 am      **Manpower Needs - Workforce Trends for LVO Thrombectomy**  
**Moderators:** Anita Guthmann, RN, BSHM and Tibor Becske, MD

9:15 am - 9:25 am      **Addressable Market and Workforce Trends for LVO's: Comparisons with STEMI's,** Tanzila Shams, MD  
9:25 am - 9:35 am      **Center and Operator Requirements for LVO Thrombectomy (EROICAS),** Adam Kobayashi, MD, PhD  
9:35 am - 9:50 am      **European Alliance for Endovascular Stroke Treatment – Survey of Endovascular Stroke Treatment and Stroke Systems of Care,** Istvan Szikora, MD  
9:50 am - 10:00 am      **Physician Staffing Models for Healthcare Systems that have Multiple Stroke Interventional Labs within a Local Geography,** Johanna T. Fifi, MD, FAHA, FSVIN  
10:00 am - 10:10 am      **Nurse and Technologist Staffing Models for a Stroke Interventional Lab: Adequate Staffing to Avoid Burn-Out and Still Remain Financially Viable,** Anita Guthmann, RN, BSHM  
10:10 am - 10:15 am      **Discussions/Questions**

10:15 am - 10:30 am      **Break**..... Grand Ballroom Foyer



10:30 am - 12:10 pm

**Medical Device Industry and Healthcare Systems Symposium**

*Moderators: Vallabh Janardhan, MD, FSVIN, FAAN, FAHA and Ameer Hassan, DO, FAHA, FSVIN*

10:30 am - 10:45 am

**Market Analytics for Healthcare Systems: 10-year Growth Projections for Stroke and Neuroscience Service Line,**  
*Katherine E. Zentner, MS-HSM*

10:45 am - 11:00 am

**Financial Implications for a Healthcare System to Develop a Comprehensive Stroke Center (CSC) Versus a Primary Stroke Center or CSC-Lite Facility that is Stroke Interventional Lab Capable (SILC),**  
*Patricia Cloyd-Santos, RN, BSN, CNRN*

11:00 am - 11:10 am

**Debate: Stroke Interventions for LVO's Should be Performed Only within a Comprehensive Stroke Center,** *Robin Novakovic, MD, FSVIN*

11:10 am - 11:20 am

**Debate: Stroke Interventions for LVO's May be Performed Within Primary Stroke Centers or CSC-Lite Facilities that have a Stroke Interventional Lab,** *Joey English, MD, PhD*

11:20 am - 11:30 am

**Discussion/Questions**

11:30 am - 12:10 pm

**Medical Device Industry CEO Roundtable, Panel Discussion**

*Panel Moderator: Vallabh Janardhan, MD, FSVIN, FAAN, FAHA*

*Participants: Codman, Medtronic, MicroVention, Penumbra, and Stryker*

12:10 pm - 12:40 pm

**Lunch .....Grand Ballroom Foyer**

12:40 pm - 2:30 pm

**Mission 2020: Stroke Infrastructure Needs and Strategies to Maximize LVO Stroke Care Worldwide**

*Moderators: Dileep R. Yavagal, MD, MBBS, FSVIN, FAHA, FAAN and Vallabh Janardhan, MD, FSVIN, FAAN, FAHA*

12:40 pm - 12:50 pm

**Mission 2020 - SVIN's Stroke Disability Reduction Campaign Worldwide by Year 2020,** *Dileep R. Yavagal, MD, MBBS, FSVIN, FAHA, FAAN*

**Case Study - India:**

*Moderators: Dileep R. Yavagal, MD, MBBS, FSVIN, FAHA, FAAN and Ramesh Madhavan, MD, DM*

12:50 pm - 1:00 pm

**Strategies to Maximize LVO Thrombectomy: India,** *Vikram Huded, MD, DM*

1:00 pm - 1:10 pm

**Developing a 911-like EMS System in New Delhi, India,**

*Vasanthakumar Namasivayam, IAS, MBBS, MD, MPP*

1:10 pm - 1:20 pm

**Advocacy with Government for a Time-Sensitive Disease: What it Takes to Make it a Reality - Lessons Learned from Passing a Successful Trauma Legislation,** *Piyush Tewari, CEO*

1:20 pm - 1:25 pm

**Discussion/Questions**

**Case Study - Europe:**

*Moderators: Italo Linfante, MD, FAHA, FSVIN and Santiago Ortega Gutierrez, MD, MSc*

1:25 pm - 1:40 pm

**Current Challenges and Strategies to Maximize LVO Thrombectomy, Panel Discussion**

*Panel Moderators: Tibor Beckse, MD and Viktor Szeder, MD, PhD, MSc*

*Participants: Juan F. Arenillas, MD, Istvan Szikora, MD, Adam Kobayashi, MD, PhD and Michel Poitin, MD, PhD*

1:40 pm - 1:55 pm

**Standardizing Stroke Centers in Europe - European Stroke Organization (ESO) Stroke Center Certification,** *Juan F. Arenillas, MD*

1:55 pm - 2:10 pm

**Organization of Stroke Interventional Care in Europe (EROICAS),** *Adam Kobayashi, MD, PhD*

2:10 pm - 2:15 pm

**Discussion/Questions**

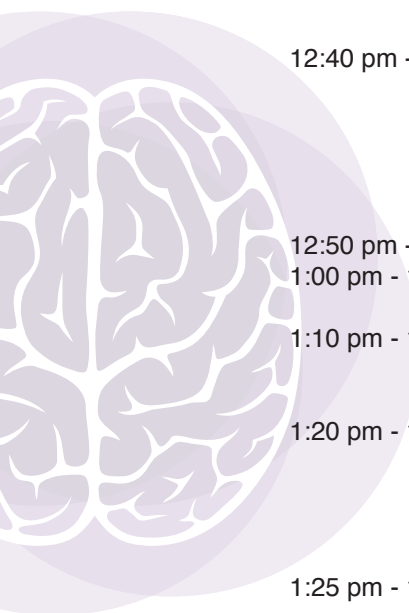
**Case Study - South America:**

*Moderators: Alberto Maud, MD and Raul Nogueira, MD, FSVIN*

2:15 pm - 2:25 pm

**Current Challenges and Strategies to Maximize LVO Thrombectomy, Panel Discussion**

*Panelists: Francisco Jose Mont'Alverne, MD, PhD and Manuel Moquillaza, MD*



# PROGRAM

2:25 pm - 2:30 pm	Discussion/Questions
2:30 pm - 3:30 pm	<b>Minutes - Strategies for Optimizing Time to Perfusion in LVO's</b> <i>Moderators: Sharon Eberlein, RN, MBA, BSN, NE-BC and Karthikeyan M. Arcot, MD, MBBS</i>
2:30 pm - 2:40 pm	<b>Pre-Hospital EMS Protocols and Diversion to the Right Hospital Can Save Time in LVO Stroke Care, Mahesh V. Jayaraman, MD</b>
2:40 pm - 2:50 pm	<b>Pre-Hospital EMS Lab Draws in Suspected Stroke Patients En-route to a Hospital to Save Time: What Color Tubes and How Many?</b> <i>Alexander Venizelos, MD</i>
2:50 pm - 3:00 pm	<b>Inter-Facility Transfer Times: Importance of Achieving Rapid Door-In Door-Out (DiDo) Times and Inter-Facility Transfer (D1-D2) Times for Patients with LVO's, Paul A. Hansen, MD</b>
3:00 pm - 3:10 pm	<b>Wide Variations in Workflow Practices Before Mechanical Thrombectomy, Akash P. Kansagra, MD, MS</b>
3:10 pm - 3:20 pm	<b>Mothership: Utilizing a Door to Perfusion (D2P) Taskforce to Optimize Time to Treatment at a Comprehensive Stroke Center,</b> <i>Sharon Eberlein, RN, MBA, BSN, NE-BC</i>
3:20 pm - 3:30 pm	<b>Developing a Multi-Center Registry for Time Based Metrics for Patients with LVO's, Ashutosh Jadhav, MD, PhD</b>
3:30 pm - 3:45 pm	Break .....Grand Ballroom Foyer
3:45 pm - 5:00 pm	<b>Machines - Mobile Stroke Units and Technologies Making Emergency Medical Services (EMS) and Emergency Department (ED) Stroke Triage Feasible</b> <i>Moderator: Anne W. Alexandrov, PhD, RN, CCRN, NVRN-BC, AGACNP-BC, ANVP-BC, FAAN and Lucas Elijovich, MD</i>
3:45 pm - 4:00 pm	<b>Stroke Ambulances: What's Out There? Different Mobile Stroke Unit Models, Andrei V. Alexandrov, MD</b>
4:00 pm - 4:15 pm	<b>Born to Run: Staffing the Mobile Stroke Unit, Anne W. Alexandrov, PhD, RN, CCRN, NVRN-BC, AGACNP-BC, ANVP-BC, FAAN</b>
4:15 pm - 4:25 pm	<b>Mobile App for Stroke Severity Assessment in the Ambulance to Assist with EMS Stroke Triage for LVO's, Raul Nogueira, MD, FSVIN</b>
4:25 pm - 4:35 pm	<b>Doppler Ultrasound in the Ambulance to Assist with EMS Stroke Triage for LVO's, Andrei V. Alexandrov, MD</b>
4:35 pm - 4:45 pm	<b>Telestroke in the Ambulance to Assist with EMS Stroke Triage for LVO's, Jeffrey Wagner, MD</b>
4:45 pm - 4:55 pm	Discussion/Questions
4:55 pm - 5:00 pm	Closing Remarks
<b>Science of Clot Workshops Sponsored by Neuravi (Registration Required) ..... Dumbo</b>	
Workshop 1: 5:00 pm - 6:00 pm	
Workshop 2: 6:00 pm - 7:00 pm	
Workshop 3: 7:00 pm - 8:00 pm	
*Please note that all Science of Clot Workshops offered throughout the program are the same and attendees can only attend one session.	
<p>These are interactive workshops 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. The workshop will be presented by the 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.</p>	
6:00 pm - 7:30 pm	Opening Reception (All are Welcome) ..... Northside Ballroom
7:00 pm - 9:00 pm	Board Meeting ..... Navy Yard

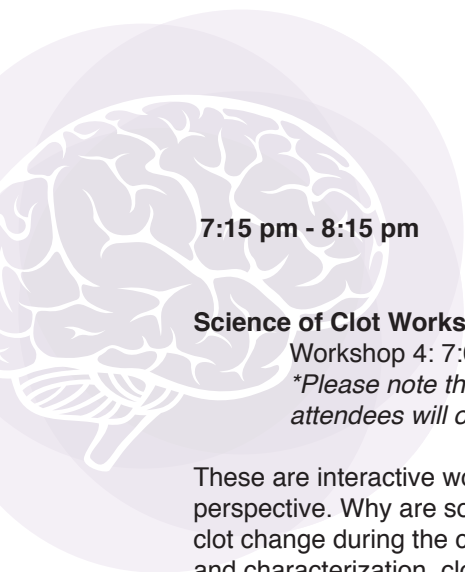


## Thursday, November 17 Annual Meeting

6:30 am - 6:00 pm	Registration/Help Desk..... Promenade
6:45 am - 8:00 am	Breakfast.....Grand Ballroom E-F
6:45 am - 5:00 pm	Exhibit Hall .....Grand Ballroom E-F
7:00 am - 4:00 pm	Medtronic Technology Suite ..... Golden Board Room Preview our latest neurovascular innovations. Your expertise. Our innovation. Raising the standard of care. Join us in transforming stroke treatment.
8:00 am - 6:00 pm	General Session..... Grand Ballroom A-D
8:00 am - 8:05 am	Welcome, Johanna T. Fifi, MD, FAHA, FSVIN
8:05 am - 9:45 am	Session 1: Aneurysm Management <i>Moderators: Thanh Nguyen, MD, FSVIN and Michael Chen, MD</i> 8:05 am - 8:20 am <b>New Extra-Saccular Adjunctive Devices for Aneurysms, Gabor Toth, MD</b> 8:20 am - 8:35 am <b>Flow Diverters in the Posterior Circulation, Tibor Becske, MD</b> 8:35 am - 8:50 am <b>When I Use Bypass in the Age of Flow Diverters, David Langer, MD</b> 8:50 am - 9:10 am <b>Tips and Tricks of Flow Diverter Use, Peter K. Nelson, MD</b> 9:10 am - 9:35 am <b>Complex Aneurysm Cases for Panel Discussion</b> <i>Panelists: Joshua Bederson, MD, Tibor Becske, MD, David Langer, MD, Peter K. Nelson, MD and Gabor Toth, MD</i> 9:35 am - 9:45 am <b>Discussion/Questions</b>
9:45 am - 10:15 am	Break with Exhibitors .....Grand Ballroom E-F
10:15 am - 11:50 am	Session 2: Arteriovenous Malformations <i>Moderators: Viktor Szeder, MD, PhD, MSc and Santiago Ortega Gutierrez, MD, MSc</i> 10:15 am - 10:30 am <b>Pediatric Arteriovenous Malformations: What's New?, Lucas Eljovich, MD</b> 10:30 am - 10:45 am <b>Treatment of Dural Arteriovenous Shunts, Philip Meyers, MD</b> 10:45 am - 11:00 am <b>New Liquid Embolics: PHIL, Edgar Samaniego, MD, MS</b> 11:00 am - 11:20 am <b>Debate</b> 11:00 - 11:10 am <b>Arteriovenous Malformations Can Be Cured By Embolization Alone, Italo Linfante, MD, FAHA, FSVIN</b> 11:10 - 11:20 am <b>Arteriovenous Malformations Require Surgical Resection for Cure, E. Sander Connolly, MD</b> 11:20 am - 11:40 am <b>AVM Complex/Edited Live Cases for Panel Discussion</b> <i>Panelists: E. Sander Connolly, MD, Lucas Eljovich, MD, Italo Linfante, MD, FAHA, FSVIN, Philip Meyers, MD and Edgar Samaniego, MD, MS</i> 11:40 am - 11:50 am <b>Discussion/Questions</b>
11:50 am - 12:10 pm	Lunch .....Grand Ballroom Foyer
12:10 pm - 12:50 pm	Medtronic Symposium: Transforming The Standard Of Care (Non-CME) ..... Grand Ballroom A-D <b>Early Experience with the Solitaire™ Platinum Device, Lucas Eljovich, MD</b> <b>Stratis Registry: Improving Upon the Stroke Systems of Care, Nils H. Mueller-Kronast, MD</b>
12:50 pm - 1:30 pm	Penumbra Symposium: Non-CME..... Grand Ballroom A-D <b>Clinical Experience with the Latest Stroke Thrombectomy Technology: ACE68 Reperfusion Catheter, Qaisar Shah, MD</b> <b>Recent Experience with Penumbra SMART Coil: Does Variability of Softness Really Matter?, Ameer E. Hassan, DO, FAHA, FSVIN</b>

<b>1:30 pm - 3:30 pm</b>	<b>Session 3: Practice Building ..... Grand Ballroom A-D</b> <i>Moderators: Wolfgang Leesch, MD and Ameer E. Hassan, DO, FAHA, FSVIN</i>
1:30 pm - 1:40 pm	<b>Starting a Private Neurointerventional Program,</b> <i>Ameer E. Hassan, DO, FAHA, FSVIN</i>
1:40 pm - 1:50 pm	<b>Starting an Academic Neurointerventional Program,</b> <i>Santiago Ortega Gutierrez, MD, MSc</i>
1:50 pm - 2:00 pm	<b>Certification Requirements for Neuro and Stroke Intervention:</b> <b>CAST Update,</b> <i>Italo Linfante, MD, FAHA, FSVIN</i>
2:00 pm - 2:10 pm	<b>The Use of Physician Extenders to Meet the New Demands of</b> <b>Practice,</b> <i>Claire Schwegel, FNP-BC, MS</i>
2:10 pm - 2:20 pm	<b>Discussion/Questions</b>
2:20 pm - 2:50 pm	<b>Luminary Lecture:</b> <b>Neurointervention-Past, Present, and Future,</b> <i>Alejandro Berenstein, MD</i>
2:50 pm - 3:10 pm	<b>Advanced Anatomy Mini Course:</b> <b>Spinal Cord Vascular Anatomy Through Cases,</b> <i>Maksim Shapiro, MD</i>
3:10 pm - 3:30 pm	<b>Dangerous EC IC Anastomoses,</b> <i>Alejandro Berenstein, MD</i>
<b>3:30 pm - 4:00 pm</b>	<b>Break with Exhibitors .....Grand Ballroom E-F</b>
<b>4:00 pm - 5:00 pm</b>	<b>Session 4: Neurointensive Care Management</b> <i>Moderators: Lucas Elijevich, MD and Robin Novakovic, MD, FSVIN</i>
4:00 pm - 4:15 pm	<b>Update on Critical Care Management of Subarachnoid Hemorrhage,</b> <i>Jan Claassen, MD, PhD, FNCS</i>
4:15 pm - 4:30 pm	<b>Reversal of Warfarin and NOACs,</b> <i>G. Morgan Jones, PharmD, BCPS, BCCCP</i>
4:30 pm - 4:45 pm	<b>Newer Anti-Platelet Medications,</b> <i>Lucie Thibault, PharmD</i>
4:45 pm - 5:00 pm	<b>Critical Care of the Reperfused Brain,</b> <i>Stephan Mayer, MD</i>
<b>5:00 pm - 6:00 pm</b>	<b>Platform Session I..... Grand Ballroom A-D</b> <i>Moderators: Thanh Nguyen, MD, FSVIN and Tanzila Shams, MD</i>
5:00 pm - 5:10 pm	<b>Outcomes with Transfer Directly to the Angiosuite for Acute Stroke</b> <b>Thrombectomy to Reduce Reperfusion Delay,</b> <i>Cynthia L. Kenmuir, MD, PhD</i>
5:10 pm - 5:20 pm	<b>Eloquence-Weighted Imaging Improves Clinical Outcomes Prediction</b> <b>in Endovascular Stroke Therapy,</b> <i>Sunil A. Sheth, MD</i>
5:20 pm - 5:30 pm	<b>Endovascular Treatment in Acute Stroke Patients with Large Core/</b> <b>Large Mismatch Imaging Profile,</b> <i>Mehdi Bouslama, MD</i>
5:30 pm - 5:40 pm	<b>Too Good to Intervene? Thrombectomy for Large Vessel Occlusion</b> <b>Strokes with Minimal Symptoms,</b> <i>Diogo C. Haussen, MD</i>
5:40 pm - 5:50 pm	<b>Carotid-T is NOT Carotid-T in Ischemic Stroke: Outcome After</b> <b>Mechanical Thrombectomy Differs Inbetween Occlusion Types,</b> <i>Ossama Y. Mansour, MD, PhD</i>
5:50 pm - 6:00 pm	<b>Blood Pressure Levels Post Mechanical Thrombectomy and Outcomes</b> <b>in Large Vessel Occlusion Strokes,</b> <i>Abhi Pandhi, MD</i>
<b>6:05 pm - 7:15 pm</b>	<b>Members-in-Training Program and Reception..... Northside Ballroom</b> <b>with Support from Penumbra</b>
6:05 pm - 6:10 pm	<b>Introductions:</b> <i>Santiago Ortega Gutierrez, MD, MSc</i>
6:10 pm - 6:25 pm	<b>Panel Discussion: Personal Experience in Academic Practice,</b> <i>Tudor Jovin, MD, FSVIN and Santiago Ortega Gutierrez, MD, MSc</i>
6:25 pm - 6:40 pm	<b>Panel Discussion: Personal Experience in Private Practice,</b> <i>Ameer E. Hassan, DO, FAHA, FSVIN</i>
6:40 pm - 7:15 pm	<b>Small Group Table Discussions</b> <b>Table 1: Board Certification In Interventional Neurology And CAST</b> <b>Certification,</b> <i>Tudor Jovin, MD, FSVIN</i> <b>Table 2: Future Research Topics And Importance Of Funding:</b> <i>Ashutosh Jadhav, MD, PhD and Raul Nogueira, MD, FSVIN</i>





**Table 3: Fellowship Positions For Neurologist:** *Randall C. Edgell, MD, FSVIN and Viktor Szeder, MD, PhD, MSc*

**Table 4: How To Negotiate A Contract:** *Diogo C. Haussen, MD and Tanzila Shams, MD*

**Table 5: How To Grow A Practice:** *Edgar Samaniego, MD, MS and Guillermo Linares, MD*

**7:15 pm - 8:15 pm**

**SVIN Cocktail Hour with Support from Penumbra ..... Northside Ballroom**  
*All meeting attendees are encouraged to attend!*

**Science of Clot Workshops Sponsored by Neuravi (*Registration Required*)..... Dumbo**

Workshop 4: 7:00 pm - 8:00 pm

*\*Please note that all Science of Clot Workshops offered throughout the program are the same and attendees will only be allowed to attend one.*

These are interactive workshops 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. The workshop will be presented by the 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 18 Annual Meeting

**6:30 am - 5:30 pm**

**Registration/Help Desk..... Promenade**

**6:45 am - 8:00 am**

**Breakfast.....Grand Ballroom E-F**

**6:45 am - 6:30 pm**

**Exhibit Hall .....Grand Ballroom E-F**

**7:00 am - 4:00 pm**

**Stryker Technology Suite.....Golden Board Room**

Experience INNOVATION IN ACTION: Stryker invites you to visit our 1-day tech suite. Meet with Research & Development staff and get hands-on demonstrations of our advanced hemorrhagic and AIS products. We look forward to seeing you there!

**8:00 am - 4:25 pm**

**General Session..... Grand Ballroom A-D**

**8:00 am - 12:15 pm**

**Session 5: Stroke Systems of Care**

**8:00 am - 8:30 am**

**Introduction to Invited Speaker, *Dileep Yavagal, MD, MBBS, FSVIN, FAHA, FAAN***  
**Public Health, Economics, and LVO, *Ralph Sacco, MD, MS, FAHA, FAAN***

**8:30 am - 8:35 am**

**Introduction to Keynote Speaker, *Johanna T. Fifi, MD, FAHA, FSVIN***

**8:35 am - 9:05 am**

**Keynote Address, *Donna Shalala, PhD***

**9:05 am - 9:45 am**

**Panel Discussion on Stroke Care Access For One and For All: National and International Prospectives**

*Moderator: Stephan Mayer, MD*

*Panelists: Tudor Jovin, MD, FSVIN, Michel Piotin, MD, PhD, Ralph Sacco, MD, MS, FAHA, FAAN and Donna Shalala, PhD*

**9:45 am - 10:00 am**

**Discussion with Audience Participation**

**10:00 am - 10:30 am**

**Presidential Address and Annual Business Meeting .. Grand Ballroom A-D**

**10:30 am - 11:00 am**

**Break with Exhibitors .....Grand Ballroom E-F**

**11:00 am - 12:15 pm**

**Session 6: Stroke Systems of Care Continued**

*Moderators: Ameer E. Hassan, DO, FAHA, FSVIN and Karthikeyan M. Arcot, MD, MBBS*

# PROGRAM

11:00 am - 11:10 am	<b>EMS Screening Tools for Triage: VAN, FAST-ED, RACE, LAMS, etc.,</b> <i>Raul Nogueira, MD, FSVIN</i>
11:10 am - 11:20 am	<b>Stroke Ambulance, M. Shazam Hussain, MD, FRCP(C), FAHA</b>
11:20 am - 11:30 am	<b>Disparities in Availability of Embolectomy in the US,</b> <i>Dileep R. Yavagal, MD, MBBS, FSVIN, FAHA, FAAN</i>
11:30 am - 11:40 am	<b>Single Center Experience of Endovascular Stroke Treatment in India,</b> <i>Vikram Huded, MD, DM</i>
11:40 am - 12:00 pm	<b>Debate</b>
11:40 am - 11:50 am	<b>Stroke Patients Should All be Taken to the Closest PSC,</b> <i>Ji Chong, MD</i>
11:50 am - 12:00 pm	<b>LVO Patients Should Bypass PSC for CSC,</b> <i>Andrei V. Alexandrov, MD</i>
12:00 pm - 12:15 pm	<b>Discussion and Rebuttals</b>
<b>12:15 pm - 12:35 pm</b>	<b>Lunch .....Grand Ballroom Foyer</b>
<b>12:35 pm - 1:15 pm</b>	<b>Stryker Symposium: Non-CME..... Grand Ballroom A-D</b> <b>Access Redefined: Clinical Experience with AXS Infinity LS™ Long Sheath, AXS Catalyst® 5 Distal Access Catheter and AXS Catalyst 6 Distal Access Catheter, Alexander Coon, MD</b> <b>Real-Life Experience Treating Stroke Utilizing Proximal Balloon Guide Catheters and Stent Retrievers, Mohamed Teleb, MD</b>
<b>1:15 pm - 1:55 pm</b>	<b>MicroVention Symposium: Non-CME..... Grand Ballroom A-D</b> <b>Adjunctive Technologies for Aneurysm and AVM/AVF Embolization, Lucas Eljovich, MD</b> <b>Stroke Triage and How to Reduce Times, Ameer E. Hassan, DO, FAHA, FSVIN</b>
<b>1:55 pm - 3:25 pm</b>	<b>Session 7: Stroke: What's Next? ..... Grand Ballroom A-D</b> <i>Moderators: Dorothea Altschul, MD and Ashutosh Jadhav, MD, PhD</i> <b>Selecting the Right Patient for Intervention, Ashutosh Jadhav, MD, PhD</b> <b>Acute Stroke Edited Live Case 1, Raul Nogueira, MD, FSVIN</b> <b>Stroke Neurointerventional Suite of the Future, Lucas Eljovich, MD</b> <b>Stroke Devices: What's New? Osama Zaidat, MD, MS, FSVIN</b> <b>Debate:</b> <b>Advanced Neuroimaging Should Be Used For Patient Selection, Seena Dehkharghani, MD</b> <b>CT With ASPECTS Score is All You Need for Patient Selection, Dorothea Altschul, MD</b> <b>Discussion and Rebuttals</b>
1:55 pm - 2:10 pm	
2:10 pm - 2:25 pm	
2:25 pm - 2:40 pm	
2:40 pm - 2:55 pm	
2:55 pm - 3:15 pm	
2:55 pm - 3:05 pm	
3:05 pm - 3:15 pm	
3:15 pm - 3:25 pm	
<b>3:25 pm - 3:45 pm</b>	<b>Break with Exhibitors .....Grand Ballroom E-F</b>
<b>3:45 pm - 4:25 pm</b>	<b>Session 8: Edited Live Cases ..... Grand Ballroom A-D</b> <i>Moderator: Randall Edgell, MD, FSVIN</i> <b>Acute Stroke Edited Live Case 2, Tudor Jovin, MD, FSVIN</b> <b>Acute Stroke Edited Live Case 3, Raul Nogueira, MD, FSVIN</b>
3:45 pm - 4:05 pm	
4:05 pm - 4:25 pm	
<b>4:30 pm - 6:30 pm</b>	<b>Poster Session and Reception .....Grand Ballroom E-F</b>

Join experts in the field and "Walk Around with the Professor" during this year's poster session. View the complete abstracts electronically on the attendee portal and via the mobile app. Guests are welcome. Event is complimentary for attendees but guests must purchase tickets. Tickets are available for purchase for \$75 per person.

4:30 pm - 5:00 pm	Reception
5:00 pm - 5:45 pm	Odd-Numbered Posters
5:45 pm - 6:30 pm	Even-Numbered Posters

## Saturday, November 19 Annual Meeting

6:30 am - 1:00 pm	Registration/Help Desk.....	Promenade
6:45 am - 8:00 am	Breakfast.....	Grand Ballroom E-F
6:45 am - 11:20 am	Exhibit Hall .....	Grand Ballroom E-F

### 7:00 am - 8:00 am International Breakfast Corner ..... Green Point

All International attendees are invited to attend this breakfast. Join international colleagues and members of SVIN leadership to discuss further collaboration on international initiatives, research projects, membership, mentorship, and utilizing best practices in the field. SVIN is also working to develop an International Outreach Partner Program and we welcome input!

### 8:00 am - 12:30 pm General Session..... Grand Ballroom A-D

### 8:00 am - 9:00 am Platform Session II..... Grand Ballroom A-D

*Moderators: Michael G. Abraham, MD and Robin Novakovic, MD, FSVIN*

8:00 am - 8:10 am	<b>Development of a Canine Endovascular Reversible Middle Cerebral Artery Occlusion Stroke Model-Anterior Circulation Approach,</b> <i>Luis Guada, MD</i>
8:10 am - 8:20 am	<b>Simplified NIH Stroke Scale Without Loss of Predictive Accuracy:</b> <b>A Factor Analysis Approach,</b> <i>Syed Ali Raza, MD</i>
8:20 am - 8:30 am	<b>Did SAMMPRIS Change How Symptomatic Intracranial Atherosclerotic Disease is Managed?,</b> <i>Kavit Shah, MD</i>
8:30 am - 8:40 am	<b>Utility of Real-time Angiographic Perfusion Imaging in Endovascular Treatment of Cerebral Vasospasm,</b> <i>Christopher S. Donaldson, BMBS</i>
8:40 am - 8:50 am	<b>Comparative Study of the Clinical Outcome Following Carotid Stenting With or Without Embolic Protection Device,</b> <i>Moustafa T. Aly, MD</i>
8:50 am - 9:00 am	<b>Stent-Assisted Coiling of Dural Sinus Diverticulæ: A Case Series,</b> <i>Sanjeev R. Keshary, MD</i>

### 9:00 am - 10:50 am Session 9: Emerging Technologies ..... Grand Ballroom A-D

*Moderators: Lee Birnbaum, MD, MS and Reade De Leacy, MD, MBBS*

9:00 am - 9:15 am	<b>New Intracocular Devices-WEB, LUNA, Medina,</b> <i>Nirav Vora, MD</i>
9:15 am - 9:30 am	<b>Intra-Arterial Chemotherapy for Retinoblastoma,</b> <i>Y. Pierre Gobin, MD</i>
9:30 am - 9:45 am	<b>Tissue Engineering for Aneurysms,</b> <i>Ram Kadirvel, PhD</i>
9:45 am - 9:55 am	<b>Intra-Arterial Chemotherapy for Glioma,</b> <i>Rafael Ortiz, MD</i>
9:55 am - 10:05 am	<b>Stentrode Technology for Brain Machine Interfaces,</b> <i>Thomas Oxley, MD, PhD</i>
10:05 am - 10:50 am	<b>ICH Mini Symposium</b>
10:05 am - 10:20 am	<b>Acute Critical Care Management of ICH,</b> <i>Neha S. Dangayach, MD</i>
10:20 am - 10:35 am	<b>Update on Intra-Cranial Hemorrhage Trials,</b> <i>Christopher Kellner, MD</i>
10:35 am - 10:50 am	<b>Non Invasive Clot Evacuation in the Angio Suite,</b> <i>David Fiorella, MD, PhD</i>

### 10:50 am - 11:20 am Break with Exhibitors .....Grand Ballroom E-F

### 11:20 am - 12:50 pm Session 10: Clinical Trials Update..... Grand Ballroom A-D

*Moderators: Johanna T. Fifi, MD, FAHA, FSVIN and Paul Singh, MD, MPH*

11:20 am - 11:35 am	<b>The Journey of a Clot: An Engineering Analysis of LVO Thrombus and the Implications for Revascularization,</b> <i>David Vale, CTO, Neuravi</i>
11:35 am - 11:50 am	<b>Penumbra 3D Separator RCT Results,</b> <i>Raul Nogueira, MD, FSVIN</i>
11:50 am - 12:00 pm	<b>STRATIS Registry Results,</b> <i>Nils Mueller-Kronast, MD</i>
12:00 pm - 12:10 pm	<b>Trevo Registry Results,</b> <i>Joey English, MD, PhD</i>
12:10 pm - 12:15 pm	<b>DAWN RCT Update,</b> <i>Tudor Jovin, MD, FSVIN</i>
12:15 pm - 12:20 pm	<b>DEFUSE-III RCT Update,</b> <i>Santiago Ortega Gutierrez, MD, MSc</i>
12:20 pm - 12:25 pm	<b>COMPASS RCT Update,</b> <i>J Mocco, MD, MS</i>
12:25 pm - 12:30 pm	<b>ARISE-II RCT Update,</b> <i>Osama Zaidat, MD, MS, FSVIN</i>
12:30 pm - 12:40 pm	<b>ASTER TRIAL RESULTS,</b> <i>Michel Piotin, MD, PhD</i>
12:40 pm - 12:50 pm	<b>WEB-IT Update,</b> <i>Johanna T. Fifi, MD, FAHA, FSVIN</i>



**Michael G. Abraham, MD**  
University of Kansas  
Kansas City, MO

**Andrei V. Alexandrov, MD**  
Tennessee University  
Memphis, TN

**Anne W. Alexandrov, PhD, RN, CCRN, NVRN-BC, AGACNP-BC, ANVP-BC, FAAN**  
University of Tennessee Health Science Center at Memphis  
Memphis, TN

**Dorothea Altschul, MD**  
Neurosurgeons of NJ/Columbia Network  
Ridgewood, NJ

**Moustafa T. Aly, MD**  
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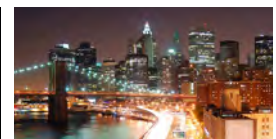
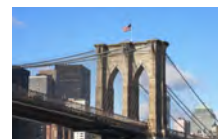
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## PLATFORM SESSION I THURSDAY, NOVEMBER 17 5:00 – 6:00 pm

**5:00 – 5:10 pm**

**Outcomes with Transfer Directly to the Angiosuite for Acute Stroke Thrombectomy to Reduce Reperfusion Delay**

Cynthia Kenmuir, Tudor Jovin, Brian Jankowitz, Andrew Ducruet, Bradley Gross, Amin Aghaebrahim, Alhamza Al-Bayati, Hazem Shoirah, Ashutosh Jadhav

**5:10 – 5:20 pm**

**Eloquence-Weighted Imaging Improves Clinical Outcomes Prediction in Endovascular Stroke Therapy**

Sunil Sheth, David Liebeskind, Conrad Liang, Albert Yoo, Reza Jahan, Raul Nogueira, Vitor Pereira, Jan Gralla, Greg Albers, Mayank Goyal, Saver, Jeffrey Saver

**5:20 – 5:30 pm**

**Endovascular Treatment in Acute Stroke Patients with Large Core/ Large Mismatch Imaging Profile**

Mehdi Bouslama, Leticia Rebello, Diogo Haussen, Seena Dehkharghani, Jonathan Grossberg, Samir Belagaje, Michael Frankel, Raul Nogueira

**5:30 – 5:40 pm**

**Too Good to Intervene? Thrombectomy for Large Vessel Occlusion Strokes with Minimal Symptoms**

Diogo Haussen, Mehdi Bouslama, Jonathan Grossberg, Aaron Anderson, Samir Belagaje, Michael Frankel, Nicolas Bianchi, Leticia Rebello, Raul Nogueira

**5:40 – 5:50 pm**

**Carotid-T Is Not Carotid-T In Ischemic Stroke: Outcome After Mechanical Thrombectomy Differs Inbetween Occlusion Types**

Ossama Mansour

**5:50 – 6:00 pm**

**Blood Pressure Levels Post Mechanical Thrombectomy and Outcomes in Large Vessel Occlusion Strokes**

Abhi Pandhi, Nitin Goyal, Georgios Tsivgoulis, Kira Dillard, Katherine Nearing, Daniel Hoit, Adam Arthur, Lucas Elijevich, Andrei Alexandrov

## PLATFORM SESSION II SATURDAY, NOVEMBER 19 8:00 – 9:00 am

**8:00 – 8:10 am**

**Development of a Canine Endovascular Reversible Middle Cerebral Artery Occlusion Stroke Model-Anterior Circulation Approach**

Luis Guada, Kunakorn Atchaneeyasakul, Mitsuyoshi Watanabe, Kevin Ramdas, Dileep Yavaga

**8:10 – 8:20 am**

**Simplified NIH Stroke Scale Without Loss of Predictive Accuracy: A Factor Analysis Approach**

Syed Ali Raza, Michael Frankel, Srikant Rangaraju

**8:20 – 8:30 am**

**Did SAMMPRIS Change How Symptomatic Intracranial Atherosclerotic Disease is Managed?**

Kavit Shah, Sumul Modi, Tarun Girotra, Horia Marin, Panayiotis Mitsias

**8:30 – 8:40 am**

**Utility of Real-time Angiographic Perfusion Imaging in Endovascular Treatment of Cerebral Vasospasm**

Christopher Donaldson, Leon Lai, Leanne Slater, Winston Chong, Ronil Chandra

**8:40 – 8:50 am**

**Comparative Study of the Clinical Outcome Following Carotid Stenting With or Without Embolic Protection Device**

Moustafa Aly

**8:50 – 9:00 am**

**Stent-Assisted Coiling of Dural Sinus Diverticulæ: A Case Series**

Sanjeev Keshary, Travis Everett, Anthony Alvarado, Michael Abraham





## POSTER SESSION AND RECEPTION

**FRIDAY, NOVEMBER 18**  
**4:30 - 6:30 PM**  
**GRAND BALLROOM E-F**

**Reception:**  
**4:30 - 5:00 pm**

**Odd Poster Presentation Time:**  
**5:00 - 5:45 pm**

**Even Poster Presentation Time:**  
**5:45 - 6:30 pm**

Join experts in the field and “Walk Around with the Professor” during this year’s poster session. Below is a list of the Professors and the schedule. Poster numbers, titles and authors are included in the program. View the complete abstracts electronically on the attendee portal and via the mobile app!

PROFESSOR NAME	POSTER GROUP	POSTER GROUP
Lucas Eljovich, MD	Odd Posters 1-19	
Steve M. Cordina, MD		Even Posters 2-20
Ameer E. Hassan, DO, FAHA, FSVIN	Odd Posters 21-39	
Dileep Yavagal, MD, MBBS, FSVIN, FAHA, FAAN		Even Posters 22-40
Italo Linfante, MD, FAHA, FSVIN	Odd Posters 41-59	
Tanzila Shams, MD		Even Posters 42-60
Edgar Samaniego, MD, MS	Odd Posters 61-81	
Fawaz Al-Mufti, MD		Even Posters 62-80

**New This Year - Don't miss the late breaking abstracts!**

Complete late breaking abstract information is available in the mobile meeting app and start with poster #82 and up.

### Poster 1

**Off-Label Use of the 6/7F Mynx Closure Device for 8F Sheath Closures: A Single-Center Experience**  
Breehan Chancellor, Eytan Raz, Maksim Shapiro, Peter Nelson, Keith DeSousa

### Poster 2

**Case Reports: Use of Low Dose of Alteplase in High Risk of Bleeding Patients**  
Manuel Moquillaza, Miguel Quiñones, Max Molina, Marla Gallo, Cynthia Zevallos

### Poster 3

**Endovascular Treatment of a Torcular Dural Arteriovenous Fistula, from Ascending Pharyngeal Artery: a Technical Report**  
Tanzila Shams, Albert Yoo, Parita Bhuvu

### Poster 4

**May-Thurner Syndrome as a Cause of Embolic Stroke of Undetermined Source in a Young Patient**  
Andres DeLeon-Benedetti, Erika Marulanda-Londono, Amer Malik

### Poster 5

**Successful Endovascular Approach for Anterior inferior Cerebellar Artery Aneurysm with Concomitant Arteriovenous Malformation: A Case Report**  
Hassan Khayat, Ruediger Stendel, Fawaz Alshareef, Loai Alghifees, Abdulrahman Alshami, Esam Alhejaili, Abdulrahman Algain

### Poster 6

**Hyperacute Carotid Stenting for Acute Ischemic Stroke After Systemic Thrombolysis with IV rt-PA**  
Erika Marulanda-Londoño, Andres De Leon-Benedetti, Gustavo Ortiz

### Poster 7

**Success of Intravenous Infusion of Verapamil for Refractory Vasospasm in Aneurysmal Subarachnoid Hemorrhage**  
Siddhart Mehta, Ashish Kulhari, Audrey Arango, Laura Suhan, Briana DeCarvalho, Aashish Patel, Jawad Kirmani

### Poster 8

**Provocative Testing Prior To Anterior Cerebral Artery Fusiform Aneurysm Embolization**  
Pouria Moshayedi, Dan-Victor Giurgiutiu, Andrew Ducruet, Brian Jankowitz, Ashutosh Jadhav

### Poster 9

**Complex Dural Arteriovenous Fistula Masquerading as Pseudotumor Cerebri**  
Lesley Kaye, Swetha Renati, Brian Corliss, William Stetler, Adam Polifka, Michael Waters

### Poster 10

**Complete Resolution Of Quadriplegia Following Cervical Dural Arteriovenous Fistula (DAVF) Embolization Using n -Butyl Cyanoacrylate**  
Nareesh Mullaguri, Nagarajan Elanagan, Ashish Nanda

### Poster 11

**Stent-assisted Coiling of a Complex 18 mm Basilar Apex Aneurysm Using Bilateral Transcirculation Approaches.**  
Adrian Fawcett, Grégory Jacquin, Brian Van Adel

### Poster 12

**Cross-circulation Thrombectomy With Use of a Stent-Retriever Device**  
Gregory Rozansky, Ali Sultan-Qurraie, John Cox, Marc Lazzaro

### Poster 13

**Retrieval of Migrated Coils Using Stent Retrievers: A Case Report and Literature Review**  
Mohamed Shehabeldin, Mst Jannatul Ferdous, Yazan Alderazi

### Poster 14

**Varicella Zoster Vasculopathy Presenting With Multifocal Fusiform Aneurysms**  
Moayd Alkhalifah, Amer Malik, Dileep Yavagal, Priyank Khandelwal

## Poster 15

### Multiple Acute Ischemic Strokes Due to Cerebral AVM Vascular Steal Phenomenon

Nirav Bhatt, Iahn Cajigas, Amer Malik, Sebastian Koch

## Poster 16

### Successful Mechanical Thrombectomy in a 96 Year Old Female with Large Vessel Occlusion

Jay Dolia, Shashank Shekhar, Rebecca Sugg

## Poster 17

### Utility of Pressure Measurements Using Pressure-Guide Wires In Evaluation And Management Of Cerebral Venous Diseases

Kiruba Dharaneeswaran, Ashutosh Jadhav, Brian Jankowitz

## Poster 18

### Mechanical Reperfusion in Extensive Cerebral Venous Thrombosis

Swetha Renati, Brian Corliss, Matthew McAdams, Brian Hoh, Christina Wilson

## Poster 19

### Smoking; The Most Frequent Controllable Risk Factor Of Restenosis in Internal carotid Stenting

Faezeh Nalchi, Masoud mehrpoor, Sajjad Effatnejad, Farzaneh Haghighi

## Poster 20

### Safety Outcome of Carotid Artery Stenting in Lesions >10mm with Proximal Versus Distal Embolic-Protection Devices

Vasu Saini, Kunakorn Atchaneeyasakul, Sudheer Ambekar, Kevin Ramdas, Luis Guada, Dileep Yavagal

## Poster 21

### Addressing Post-Angioplasty Recoil for Interventional Management of Tandem Occlusions: Balloon-Assisted Guide Catheterization, Technical Report

Suman Nalluri, Benny Kim, Ryan Gianatasio, Parita Bhuva, Vallabh Janardhan, Albert Yoo

## Poster 22

### Initial Experience of Carotid Revascularization Without Embolic Protection Device in Pakistan

Qasim Bashir, Ammad Baig

## Poster 23

### Carotid Revascularization and Medical Management for Asymptomatic Carotid Stenosis:CREST-2 Update

Thomas Brott, Brajesh Lal, George Howard, Gary Roubin, Robert Brown, Jr., Kevin Barrett, Seemant Chaturvedi, Marc Chimowitz, James Meschia, Virginia Howardhuston, John Huston, Ronald Lazar, Wesley Moore, Claudia Moy, Tanya Turan, Jenifer Voeks

## Poster 24

### Intra-arterial ALD401 Cell Therapy is Associated with Reduction in Stroke Volume at 90 Days:RECOVER-Stroke Trial

Kunakorn Atchaneeyasakul, Sushrut Dharmadhikari, Charif Sidani, Kevin Ramdas, Luis Guada, Ryan Pafford, David Huang, Jim Hinson, Sean Savitz, Dileep Yavagal

## Poster 25

### Stent Deployment Protocol for Optimized Real-Time Visualization During Endovascular Intervention

Priyank Khandelwal, Alfred See, Michael Silva, Aziz Sultan

## Poster 26

### Safety of Using Self-expanding Stent (SES) For Treating Posterior Circulation Stroke In The Stentriever Era.

Jawad Kirmani, Siddhart Mehta, Ashish Kulhari, Audrey Arango, Laura Suhan, Briana DeCarvalho, Aashish Patel, Sphozmy Panezai

## Poster 28

### Impact of Detecting Symptomatic Extracranial Carotid Artery Disease Using Noninvasive Imaging Compared to Cerebral Angiography

Alhamza Al-Bayati, Ashutosh Jadhav, Amin Aghaebrahim, Brian Jankowitz, Justin Tay, Tudor Jovin

## Poster 29

### Utilizing NCCT with MIP Bypassing CTA Improves Time to Groin Puncture in Stroke Thrombectomy

Kunakorn Atchaneeyasakul, Anita Tipirneni, Priyank Khandelwal, Vasu Saini, Richard Ronca, Steven Lord, Brian Snelling, Samir Sur, Luis Guada, Kevin RamdasPeterson, Eric Peterson, Dileep Yavagal

## Poster 30

### Thin-sliced reformatted CT used to Assess Clot Size and Vessel Diameter in Large Vessel Occlusions.

Ashish Kulhari, Siddhart Mehta, Audrey Arango, Laura Suhan, Spozhmy Panezai, Jawad Kirmani

## Poster 31

### MCA sphenoidal segment (M1):Incidence of Bifurcation within Horizontal Segment And Relevance in Mechanical Thrombectomy

Mohtashim Qureshi, Rakesh Khatri, Alberto Maud, Gustavo Rodriguez

## Poster 32

### Mechanical Thrombectomy in Large Vessel Occlusion Stroke Patients with Low CT ASPECT Score

Nirav Bhatt, Kunakorn Atchaneeyasakul, Erika Marulanda-Londono, Keith DeSousa, Varun Chaubal, Diego Condes, Luis Guada, Kevin Ramdas, Seemant Chaturvedi, Dileep YavagalMalik, Amer Malik

## Poster 33

### Active Extravasation Seen During CT Perfusion Scanning For A Stroke Patient-A Novel Imaging Finding

Osama Jamil, Booth Allred, Aleks Tkach, Edward Quigley

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Yahia Lodi, Nishant Ranawat, Varun Reddy, Tony Wang

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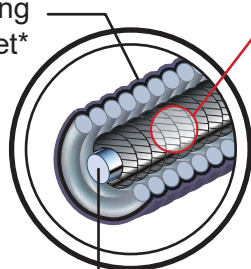


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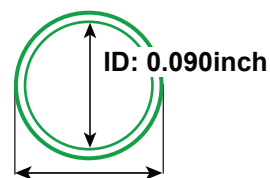
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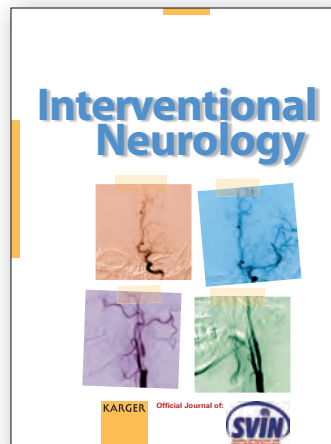
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