Connecting the World to Stroke Science

Education. Inspiration. Illumination.

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Professional Membership Benefits Include:*  
- Up to $500 in savings on International Stroke Conference 2016 registration and up to $300 in savings on State-of-the-Science Stroke Nursing Symposium registration—plus registration savings at AHA’s other scientific conferences.
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- Benefits that extend beyond science so you can contribute to the AHA’s mission of building healthier lives, free of cardiovascular diseases and stroke.
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*Benefits depend on membership tier.  
**Only applies to premium level members  
*** While supplies last.

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For the most current program information, please visit strokeconference.org/programming

Registration Fees: International Stroke Conference 2016

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Registration Fees: ISC Pre-Conference Symposium II: Stroke in the Real World: To Infinity and Beyond: Endovascular Therapy and Systems of Care

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Registration Fees: ISC Pre-Conference Symposium II (Student/Trainee/Early Career): The Nuts and Bolts of Pre-clinical Behavioral Testing in Animals

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Register Online Today! strokeconference.org/registrationandhousing Promo Code DM101

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**International Stroke Conference 2016**

**STATE OF THE ART: ADVANCES IN CEREBROVASCULAR DISEASE**

**PLENARY SESSION I**

- American Heart Association Presidential Address
- Poster Abstracts (Scientific Forum I)

**PLENARY SESSION II**

- Stroke and Its Complications: From Bench to Bedside
- Poster Abstracts (Scientific Forum II)

**PLENARY SESSION III**

- Stroke Prevention: From Bench to Bedside
- Poster Abstracts (Scientific Forum III)

**POSTER TOUR**

- Poster sessions

**LUNCHEON ROUTE**

- Lunch break

**SHORTEST BREAK / SCIENCE AND TECHNOLOGY HALL**

- Short break

**KEYNOTE SESSIONS**

- Keynote speaker

**PROFESSOR-LED POSTER TOUR SESSIONS**

- Poster tour sessions

**PROFESSOR-LED REGULAR POSTER SESSIONS**

- Regular poster sessions

**INTERNATIONAL STROKE CONFERENCE 2016**

**State-of-the-Art: Advances in Cerebrovascular Disease**

**PLENARY SESSION I**

- American Heart Association Presidential Address
- Poster Abstracts (Scientific Forum I)

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- Stroke and Its Complications: From Bench to Bedside
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- Poster tour sessions

**PROFESSOR-LED REGULAR POSTER SESSIONS**

- Regular poster sessions
Tuesday, Feb 16

The American Heart Association/American Stroke Association is grateful to the members of the State-of-the-Science Stroke Nursing Symposium 2016 Program Committee for their dedication and leadership provided throughout the year in planning the program.

For Registration and Housing information, please go to strokeconference.org/registrationandhousing. Please note that there is a separate registration fee to attend the Stroke Nursing Symposium.

Symposium Description

The State-of-the-Science Stroke Nursing Symposium is a can’t miss forum designed to provide cutting-edge information for nursing, rehabilitation and other healthcare professionals who treat patients and families in all phases of stroke treatment from the emergency department through rehabilitation. The symposium will update and inform the audience about nursing issues along the continuum of stroke care (ischemic and hemorrhagic stroke management, rehabilitation and program development.) The goal of the program is to share innovative best clinical practices that have been developed to optimize patient outcomes throughout the stroke continuum of care. An exciting plenary program and stimulating break-out sessions are planned to meet educational needs for nurses, rehabilitation and healthcare professionals at various levels of skill.

Learning Objectives

At the conclusion of the State-of-the-Science Stroke Nursing Symposium, participants should be able to:

• Explain advanced clinical decision making utilizing systems of care
• Describe young stroke and changing the way we view stroke care in America
• Discuss stroke topics among select groups including:
  o Women and stroke: clinical practice implications for nurses
  o Substance abuse prevalence in the aging stroke population
  o Narrowing the gap in awareness, symptom recognition, and response time to stroke among non-English speaking minority population
  o Acculturation, access to care, and risk factors for stroke among Asian Americans
  o Contents and the language on the Web-based information for stroke prevention and care
  o Health disparity and health illiteracy among the first generation immigrants
• Define the essentials of standard and advanced clinical practice including:
  o The basics and beyond of neuroimaging 101
  o The hemorrhagic stroke: current advances and future directions in patient care
  o Interpreting the guidelines for nursing care of the patient with large hemispheric infact
• Discuss rehabilitation and recovery, community integration including:
  o New strategies for dysphagia after stroke – improving health and quality of life
  o Neural priming for stroke rehabilitation
  o Development of an innovative infrastructure for support of stroke care and stroke bridge clinic
  o Post discharge care and navigation through telephone follow-up calls
  o Depression screening and management
• Manage the coordination of care and strategies for quality enhancement including:
  o Nursing care in the endovascular suite
  o Telestroke implementation: evolving stroke system relationships
  o Improving your EMR: a collaboration to best practices for certified stroke centers

Continuing Education Accreditation – Nurses

The American Heart Association is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center’s Commission on Accreditation.

For full CME/CE accreditation information on the State-of-the-Science Stroke Nursing Symposium, please visit strokeconference.org.
Tuesday, Feb 16
8:00 am – 5:00 pm

Plenary Session
Moderators: Karen L Saban, PhD, APRN, CNRN, Maywood, IL
Dawn Aycock, PhD, MSN, BSN, Atlanta, GA

Opening Remarks
Karen L Saban, PhD, APRN, CNRN, Maywood, IL

Program Announcements
Deborah Chyun, PhD, RN, FAHA, FAAN, New York, NY

Advanced Clinical Decision Making Utilizing Systems of Care: Clinical Confusion in Routing Stroke Emergencies
Clairanne P Mathiesen, MSN, BSN, RN, CNRN, Stroudsburg, PA
Advanced Clinical Decision Making Utilizing Systems of Care: Clinical Decision Support for Triage and Treatment
Debbie R Summers, RN, MSN, FAHA, ARNP, Kansas, MO
Advanced Clinical Decision Making Utilizing Systems of Care: Interactions within the Stroke Systems of Care
Lori M Massaro, BSN, MSN, Pittsburgh, PA
Advanced Clinical Decision Making Utilizing Systems of Care: Consequences of Multi-entry Points for Stroke Treatment
Wende Fedder, RN, MBA, DNP, FAHA, Elk Grove Village, IL

9:50 am – 10:05 am
Short Break

Young Stroke: Changing the Way We View Stroke Care in America: Survivorship: Distinguishing Unmet Needs of Young Stroke Survivors
Amy Edmunds, MA, Conway, SC
Young Stroke: Changing the Way We View Stroke Care in America: Maximizing Quality of Care and Patient Safety for the Young Stroke Patient
Mary Morrissette, RN, BSN, Richmond, VA
Young Stroke: Changing the Way We View Stroke Care in America: Personalized Rehabilitation for Post-stroke Relearning
Preethi Rajagahan, MD, New York, NY

11:30 am – 1:00 pm
Lunch

1:00 pm – 5:00 pm

Concurrent A

Stroke Topics among Select Groups
Moderators: Taura L Barr, PhD, RN, Morgantown, WV
Janice L Hinkle, PhD, RN, CNRN, Washington, DC

Women and Stroke: Clinical Practice Implications for Nurses: Identification of Key Stroke Risk Factors in Women
Cheryl Bushnell, MD, MHS, Winston Salem, NC

Women and Stroke: Clinical Practice Implications for Nurses: The Epidemiology of Atrial Fibrillation and Women
Judith H Lichtman, PhD, MPH, New Haven, CT

Women and Stroke: Clinical Practice Implications for Nurses: Pregnancy Risk Factors in Stroke

Women and Stroke: Clinical Practice Implications for Nurses: Nursing Implications for Stroke Prevention in Women
Wende Fedder, RN, MBA, DNP, FAHA, Elk Grove Village, IL

Substance Abuse Prevalence in the Aging Stroke Population: Prevalence of Substance Abuse in the Stroke Population
Karen Yarbrough, MS, CRNP, Baltimore, MD
Marcella A Wozniak, MD, Baltimore, MD

2:45 pm – 3:00 pm
Short Break

Narrowing the Gap in Awareness, Symptom Recognition, and Response Time to Stroke among Non-English Speaking Minority Populations
Kyungha An, PhD, Richmond, VA

Acculturation, Access to Care, Risk Factors for Stroke among Asian Americans
Chia-Nam Shin, PhD, Phoenix, AZ

Contents and the Language on the Web-based Information for Stroke Prevention and Care
Mikyu Lee, PhD, RN, Denton, TX

Health Disparity and Health Illiteracy among the First Generation Immigrants

Oral Abstracts
Discussion

1:00 pm – 5:00 pm

Concurrent B

Essentials of Standard and Advanced Clinical Practice
Moderator: Debbie R Summers, RN, MSN, FAHA, ARNP, Kansas, MO

Neuroimaging 101: The Basics and Beyond: CT Anatomy & Basics
Elizabeth Kim, MSN, APN, CNS, Stanford, CA

Neuroimaging 101: The Basics and Beyond: Stroke Pathology
Franklin A Marden, MD, Elk Grove Village, IL

Neuroimaging 101: The Basics and Beyond: Quiz Time – Putting It All Together
Susan Ashcroft, MSN, Concord, NC

The Hemorrhagic Stroke: Current Advances and Future Directions in Patient Care: Subarachnoid Hemorrhage and Cerebral Aneurysms: How Are We Helping the Patient?
Chiraq D Gandhi, MD, Newark, NJ

The Hemorrhagic Stroke: Current Advances and Future Directions in Patient Care: Intracerebral Hemorrhage: To Operate or Not To Operate?
Kevin Cockroft, MD, MSc, FACS, Hershey, PA

The Hemorrhagic Stroke: Current Advances and Future Directions in Patient Care: The Grand Imitator of the Cerebrovascular System: The Dural Arteriovenous Fistula

The Hemorrhagic Stroke: Current Advances and Future Directions in Patient Care: Arteriovenous Malformations of the Brain: The Role for Treatment
Kevin Cockroft, MD, MSc, FACS, Hershey, PA

Interpreting the Guidelines for Nursing Care of the Patient with Large Hemispheric Infarct
Dewali Olson, PhD, RN, CCRN, Dallas, TX

Oral Abstracts
Discussion
Nursing Symposium Program

1:00 pm – 5:00 pm
Concurrent C
Rehabilitation and Recovery: An Ongoing Process: Community Integration
Moderators: Michelle Camicia, MSN, CRNP, Vallejo, CA
Clairne T. Miller, PhD, RN, CRNN, FAHA, FAAN, Cincinnati, OH
New Strategies for Dysphagia after Stroke: Improving Health and Quality of Life: Developing Scientifically Based and Appealing Beverages – Improving Adherence and Health Outcomes Jacqueline A Hind, Madison, WI
New Strategies for Dysphagia after Stroke: Improving Health and Quality of Life: Impact of Dysphagia on Social Participation and Quality of Life Dorothy F Edwards, PhD, Madison, WI
Neural Priming for Stroke Rehabilitation: Transcranial Direct Current Stimulation to Optimize Walking Outcomes Post-stroke: Are We There Yet?
Neural Priming for Stroke Rehabilitation: Take Your Brain for a Walk: Clinically Prescribed Exercise – Is It useful for Stroke Rehabilitation?
Neural Priming for Stroke Rehabilitation: Movement and Sensory Priming for Individuals with Severe Upper Limb Impairment Mary E Stoykov, PhD, OTR/L, Chicago, IL
Neural Priming for Stroke Rehabilitation: rTMS for Motor Rehabilitation: What We’ve Learned; What We’re Learning; and What We Need to Know

2:45 pm – 3:00 pm
Short Break
Stroke Continuum of Care: Development of an Innovative Infrastructure for Support of Stroke Care and Stroke Bridge Clinic
Hillary Crumlett, BS, RN, MS, Winfield, IL
Post Discharge Care and Navigation through Telephone Follow-up Calls
Ryan Keller, BSN, Winfield, IL
Depression Screening and Management
Konstantinos Kostas, PhD, Elk Grove Village, IL
Oral Abstracts
Discussion
1:00 pm – 5:00 pm
Concurrent D
Coordination of Care and Strategies for Quality Enhancement
Moderators: Lori M Massaro, MSN, CRNP, Pittsburgh, PA
Jennifer Cohn, MSN, CNRN, FAHA, Indianapolis, IN
Nursing Care in the Endovascular Suite: The 4 Ws: WHY: Optimizing Nursing Care in the Neuroendovascular Suite Therese Dawson, Pittsburgh, PA
Nursing Care in the Endovascular Suite: The 4 Ws: WHERE: Neuro IR Suite vs Cardiac Cath Lab Melanie Smith-Fortney, Pittsburgh, PA
Nursing Care in the Endovascular Suite: The 4 Ws: WHO: The NICU Nurse in the IR Suite Benjamin Morrow, Pittsburgh, PA
Nursing Care in the Endovascular Suite: The 4 Ws: WHAT: Data Collection – Optimizing Outcomes in IR Cherie Adams, Pittsburgh, PA
Telestroke Implementation: Evolving Stroke System Relationships: Telestroke – Overview and Getting Started Claranne P Mathiesen, MSN, BSN, RN, CNRN, Stroudsburg, PA
Telestroke Implementation: Evolving Stroke System Relationships: HUB Responsibilities
Telestroke Implementation: Evolving Stroke System Relationships: Spoke Responsibilities
2:45 pm – 3:00 pm
Short Break
Improving Your EMR: A Collaboration to Best Practices for Certified Stroke Centers
Sharon Hammond-Heaton, MA, BSN, RN, EMT-P, Columbus, OH
Improving Your EMR: A Collaboration to Best Practices for Certified Stroke Centers Jenevra Foley, Ann Arbor, MI
Improving Your EMR: A Collaboration to Best Practices for Certified Stroke Centers Stephanie Casual, Stanford, CA
Oral Abstracts
Discussion
For the most current program information and speakers, please go to strokeconference.org/nursingsymposium.

Science and Technology Hall (Exhibits)
Wednesday and Thursday, Feb 17–18, 10:00 am–4:00 pm
For additional information on the Science and Technology Hall, please go to strokeconference.org/exhibits.
ISC Pre-Conference Symposium I: Stroke in the Real World: To Infinity and Beyond: Endovascular Therapy and Systems of Care

Tuesday, Feb 16

This Pre-Conference Symposium of the International Stroke Conference is designed to provide cutting edge information for healthcare professionals caring for patients with, or at risk for stroke. This one-day symposium highlights scientific advances in cerebrovascular disease while emphasizing their application in the real world. The symposium informs the audience about issues along the full continuum of stroke care and covers varied topics of interest to healthcare providers working in the emergency department, hospitalist settings, primary care, general neurology, pharmacies, and other stroke care arenas. This year’s symposium will focus on stroke systems of care including: pre-hospital screening and logistics; transporting to the closest center or the comprehensive stroke center; mobile stroke units and their role in the endovascular world; integrating community hospitals for advanced stroke treatment; imaging techniques (advanced penumbral or collateral imaging vs CTA/MRA and ASPECTS); an interventionalist’s perspective on maximizing work flow; and international strategies to maximize thrombectomy. There will also be a series of challenging breakout sessions. Participants will also have the opportunity to have an informal lunch with the faculty where questions or challenging stroke cases may be discussed.

Learning Objectives
After participating in this activity, participants will be able to:
• Assess pre-hospital screening and logistics
• Identify whether it is better to transport to the closest center or the comprehensive stroke center
• Describe mobile stroke units and their role in the endovascular world
• Summarize integrating community hospitals for advanced stroke treatment.
• Discuss imaging techniques: advanced penumbral or collateral imaging vs CTA/MRA and ASPECTS
• Explain an interventionalist’s perspective on maximizing work flow and how we can make their jobs easier
• Apply international strategies to maximize thrombectomy
• Discuss:
  • Acute stroke imaging
  • Reimbursement issues for comprehensive and community hospitals
  • The role of nursing in community and comprehensive centers
  • Challenges in post-thrombectomy management

The American Heart Association/American Stroke Association is grateful to the members of the ISC Pre-Conference Symposium 2016 Program Committee for their dedication and leadership provided throughout the year in planning the program.

Program Committee
Ted Wein, MD, FRCP, FAHA, Chair
Nina Gentile, MD
Joshua Goldstein, MD, PhD, FAHA
Susan L Hickenbottom, MD, MS, FAHA
Michael D Hill, MD, MSc, FRCP
Sue B Pugh, MSN, RN, CNRN, CRRN, CNS-BC, CBIS, FAHA
Jeffrey L Saver, MD, FAHA, FAAN
Phillip Scott, MD, FAHA
Kyra Becker, MD, FAHA (ISC Program Committee, Chair)
Bruce Ovbiagele, MD, MSc, FAHA (ISC Program Committee, Vice Chair)

Continuing Medical Education Accreditation – Physicians
The American Heart Association is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Continuing Medical Education Accreditation – Physician Assistants
AAPA accepts Category 1 credit from AOACCME, Prescribed credit from AAFP, and AMA PRA Category 1 Credit™ from organizations accredited by ACCME.

For full CME/CE accreditation information on the ISC Pre-Conference Symposium, please visit strokeconference.org.

Please note that there is a separate registration fee to attend the ISC Pre-Conference Symposium I.

Tuesday, Feb 16
9:00 am – 5:05 pm

9:00 am – 12 Noon
Moderators: Theodore Wein, MD, FRCP, FAHA, Montreal, QC, Canada
Nina T Gentile, MD, Philadelphia, PA

9:00 “Go ahead; make my day”: Welcoming Remarks
Kyra Becker, MD, FAHA, Seattle, WA

9:05 “I feel the need... The need for speed!”: Pre-hospital Screening and Logistics
Sophia Dyer, MD, FACEP, Boston, MA

9:35 Q&A

Register Today – strokeconference.org/registrationandhousing
ISC Pre-Conference Symposium I: Stroke in the Real World: To Infinity and Beyond: Endovascular Therapy and Systems of Care

9:45 Debate: “Frankly my dear – I don’t give a damn”: Is It Better to Transport to the Closest Center or the Comprehensive Stroke Center (Closest)
Michael D Hill, MD, MSc, FRCPC, Calgary, AB, Canada

10:00 Debate: “Frankly my dear – I don’t give a damn”: Is It Better to Transport to the Closest Center or the Comprehensive Stroke Center (Comprehensive)
Edward C Jauch, MD, MS, FAHA, FACEP, Charleston, SC

10:15 Q&A

10:25 “If you’re going to build a time machine in a car – why not do it with some style?”: Mobile Stroke Units: Role in the Endovascular World
James C Grotta, MD, FAHA, Houston, TX

10:40 Q&A

10:50 “I love it when a plan comes together”: Integrating Community Hospitals for Advanced Stroke Treatment
Mai N Nguyen-Huy, MD, Oakland, CA

11:10 Q&A

Gregory W Albers, MD, Palo Alto, CA

11:35 Debate: “Elementary my dear Watson”: Imaging Techniques: Advanced Penumbral or Collateral Imaging vs CTA/MRA and ASPECTS (CTA/MRA and ASPECTS) Andrew M Demchuk, MD, FRCP, Calgary, AB, Canada

11:50 Q&A

12 Noon – 1:00 pm

“Made it, Ma! Top of the world!”: Lunch with Investigators of: Mr Clean, Escape, Swift Prime, Extend IA, etc...
All Faculty (A boxed lunch will be provided.)

1:00 pm – 1:40 pm

Moderators: Joshua Goldstein, MD, PhD, FAHA, Boston, MA
Susan L Hickenbottom, MD, MS, FAHA, Ypsilanti, MI

1:00 “Come with me if you want to live”: An Interventionalist Perspective on Maximizing Work Flow: How We Can Make Their Jobs Easier
Mayank Goyal, MBBS, MD, FRCPC, Calgary, AB, Canada

1:30 Q&A

1:40 pm – 2:30 pm

Concurrent IA: “May the Force be with you”: Acute Stroke Imaging Workshop
Jens Fiehler, MD, Hamburg, Germany

Concurrent IB: “Houston – we have a problem”: Reimbursement Issues for Comprehensive and Community Hospitals
Sue B Pugh, MSN, RN, CNRN, CRNN, CNS-BC, CBIS, FAHA, Baltimore, MD

3:50 pm – 5:05 pm

3:50 “…the stuff that dreams are made of”: International Strategies to Maximize Thrombectomy – Australia
Bruce Campbell, MBBS, Parkville, Australia

4:00 “…the stuff that dreams are made of”: International Strategies to Maximize Thrombectomy – Canada
Michael D Hill, MD, MSc, FRCP, Calgary, AB, Canada

4:10 “…the stuff that dreams are made of”: International Strategies to Maximize Thrombectomy – Europe
Diederik W Dippel, MD, Rotterdam, Netherlands

4:20 “…the stuff that dreams are made of”: International Strategies to Maximize Thrombectomy – Israel
Natan M Bornstein, MD, Tel-Aviv, Israel

4:30 “…the stuff that dreams are made of”: International Strategies to Maximize Thrombectomy – Korea
Oh Young Bang, MD, Seoul, Korea, Republic of

4:40 “…the stuff that dreams are made of”: International Strategies to Maximize Thrombectomy – USA
Jeffrey L Saver, MD, FAHA, FAAN, Los Angeles, CA

5:00 Q&A

5:00 “Hasta la vista baby”: Closing Remarks
Bruce Ovbiagele, MD, FAHA, Charleston, SC

For the most current program information and speakers, please go to strokeconference.org/preconferencesymposium.
ISC Pre-Conference Symposium II
(Student/Trainee/Early Career): The Nuts and Bolts of Pre-clinical Behavioral Testing in Animals

Tuesday, Feb 16
This new Pre-Conference Symposium of the International Stroke Conference is designed for students, trainees and early career professionals. This pre-conference event was designed to discuss the newest methods for assessing behavioral deficits and functional recovery in animals, the first step in assessing the potential translation of therapeutics into human populations. This half-day symposium highlights several new methods to assess cognitive impairment in rodents, the use of large animals including primates, and the use of behavioral testing to examine outcomes in models of intracerebral hemorrhage and vascular cognitive impairment. We will begin with an introduction to the basics of behavioral testing, including discussion on the “fundamentals” that will increase reliability and reproducibility in animal experiments. The importance of blinding, randomization, and consistency of the testing environment to reduce variability will be highlighted. We will then discuss how to appropriately design and interpret behavioral studies, including the proper use of parametric and non-parametric tests, interactions, and power analysis. We will complete the session with a demonstration of newly developed cognitive tests for use in mice and rats.

Learning Objectives
After participating in this activity, participants will be able to:
• Describe statistical interpretation including the use of appropriate statistical tests
• Design and “power” your studies
• Provide an introduction to the fundamental of behavioral testing in rodents
• Discuss non-rodent models: large animals
• Demonstrate cognitive testing in animal models
• Illustrate new tests for hypoxia and touchscreens with a focus on ICH or VCI

The American Heart Association/American Stroke Association is grateful to the members of the ISC Student/Trainee/Early Career Pre-Conference Symposium 2016 Program Committee for their dedication and leadership provided throughout the year in planning the program.

Program Committee
Louise D McCullough, MD, PhD, FAHA, Chair
Kyra J Becker, MD, FAHA (ISC Program Committee, Chair)
Bruce Ovbiagele, MD, MSc, FAHA (ISC Program Committee, Vice Chair)

Continuing Medical Education Accreditation – Physicians
The American Heart Association is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

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For full CME/CE accreditation information on the ISC Pre-Conference Symposium II, please visit strokeconference.org.

Please note that there is a separate registration fee to attend the ISC Pre-Conference Symposium II.

Tuesday, Feb 16
1:00 pm – 5:00 pm
Moderators: Louise D McCullough, MD, PhD, FAHA, Houston, TX
Gregory Bix, MD, PhD, Lexington, KY
1:00 Overview
Theresa A Jones, PhD, Austin, TX
1:30 Statistical Interpretation including the APPROPRIATE Statistical Tests
1:55 Discussion
2:05 Introduction to Behavioral Testing in Rodents
Courtney A Devries, PhD, FAHA, Columbus, OH
2:30 Discussion
2:40 Non-rodent Models: Large Animals
Randolph J Nudo, PhD, FAHA, Kansas City, KS
3:05 Discussion
3:15 Cognitive Testing
Marion S Buckwalter, MD, PhD, Stanford, CA
3:40 Discussion
3:50 Translational Session with Focus on ICH or VCI and New Tests for Hypoxia and Touchscreens
Julie Deguil, Lille, France
4:15 Discussion
4:25 General Discussion

For the most current program information and speakers, please go to strokeconference.org/preconferencesymposium.
The International Stroke Conference is the world’s largest meeting dedicated to the science and treatment of cerebrovascular disease. This 2½-day conference features more than 1,500 compelling presentations that emphasize basic, clinical and translational sciences as they evolve toward a more complete understanding of stroke pathophysiology with the overall goal of developing more effective prevention and treatment. Join us and network with more than 4,300 leaders and colleagues in the stroke field from around the world with wide-ranging research and clinical expertise. Sessions in clinical categories will center on community risk factors; emergency care; acute neuroimaging; acute endovascular and acute nonendovascular treatment; diagnosis of stroke etiology; cerebral large artery disease; in-hospital treatment; clinical rehabilitation and recovery; and health services, quality improvement, and patient-centered outcomes. Sessions in basic science categories focus on vascular biology in health and disease; basic and preclinical neuroscience of stroke recovery; and experimental mechanisms and models. Further specialized topics include pediatric stroke; intracerebral hemorrhage; nursing; preventive strategies; vascular cognitive impairment; aneurysms; subarachnoid hemorrhage; neurocritical care; vascular malformations; and interventional radiologists; physiatrists; emergency medicine specialists; primary care physicians; hospitalists; nurses and nurse practitioners; rehabilitation specialists; physical, occupational, and speech therapists; pharmacists; and basic researchers spanning the fields of cerebrovascular function and disease.

Learning Objectives
At the conclusion of the International Stroke Conference, participants should be able to:

• Identify recent advances in basic models of stroke and their translation to clinical research.
• Evaluate recent advances in the diagnosis, treatment, prevention and rehabilitation of cerebrovascular disease.
• Analyze new and ongoing advances in clinical research through late-breaking science and ongoing clinical trials sessions.
• Discuss new research, treatments and interventions with scientists and investigators working in all areas of cerebrovascular disease.
• Interpret the rapidly changing areas within the stroke spectrum such as emerging options for the diagnosis and treatment of acute stroke, mechanisms of stroke recovery, and the impact of vascular cognitive impairment.
• Appraise the diverse challenges presented by cerebrovascular disease to specific populations, including ethnic and racial minorities, women, children, and developing communities.

CME/CE Disclosure
All persons who develop and/or control educational content in CME/CE activities sponsored by the American Heart Association will disclose to the audience all financial relationships with any commercial supporters of this activity as well other commercial interests whose lines of business are related to the CME/CE-certified content of this activity. In addition, presenters will disclose unabbreviated/unnamed uses of drugs or devices discussed in their presentations. Such disclosures will be made in writing in course presentation materials.

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For full CME/CE accreditation information on the International Stroke Conference, please visit strokeconference.org.

Legal Disclaimer
The International Stroke Conference is a scientific and educational meeting for the purpose of exchanging research results and scientific developments in the field of cerebrovascular disease. Accordingly, the American Heart Association/American Stroke Association cannot and does not offer any assurance or warranty of the accuracy, truthfulness or originality of the information presented at the conference.

For the most current program information, please visit strokeconference.org/programming
ISC Preliminary Program

Please note that sessions are subject to change. For the most current program information, go to strokeconference.org/programming.

Wednesday, Feb 17

7:00 am – 8:30 am
Designing the Next Generation of Rehabilitation Clinical Trials (Clinical Rehabilitation and Recovery)

Moderators: Richard L Harvey, MD, Chicago, IL; Alexander Dromerick, MD, Washington, DC

Overview of Clinical Trial Results: What Do We Know about Rehabilitation?
Gert Kwakkel, PT, PhD, Amsterdam, Netherlands

Learning from Cancer: Small Sample Clinical Trial Designs
Ming Tan, Washington, DC

Incorporating Imaging Markers into Rehab Clinical Trial
Cathy Stinear, MD, PhD, Auckland, New Zealand

Biomarker Discovery in Rehabilitation Trials
Matthew Edwardson, MD, Washington, DC

Discussion

New Insights and Therapeutic Targeting of the Blood Brain Barrier in Ischemic Stroke (Basic and Preclinical Neuroscience of Stroke Recovery)

Moderators: Jill Roberts, PhD, Lexington, KY; Louise McCullough, MD, PhD, FAHA, Houston, TX

Integrins as Novel Regulators of Barrier Function in Ischemic Stroke: A Potential New Therapeutic Target
Gregory J Bix, MD, PhD, Lexington, KY

BBB Ion Transporters and Channels in Ischemic Stroke: Effects of Diabetes
Martha O’Donnell, PhD, Davis, CA

Stroke Effects on BBB Claudins: Imaging the BBB Tight Junctions
Dritan Agalliu, PhD, New York, NY

BBB Drug Transporters in Ischemic Stroke
Patrick Ronaldson, PhD, Tucson, AZ

Discussion

Oral Abstract Sessions

8:30 am – 8:45 am
Short Break

8:45 am – 10:15 am
One, Two, Three Steps toward Cell Therapy for Stroke, and in the Future (Debate) (Basic and Preclinical Neuroscience of Stroke Recovery)

Moderators: David Hess, MD, Augusta, GA; Cesar Borlongan, MA, PhD, Tampa, FL

Clinical Trials for Cell Therapy against Stroke
New Guidelines for Cell Therapy against Stroke in Japan

Clinical Studies: How to Take STEPS Forward, Not Backwards
Sean I Savitz, MD, FAHA, Houston, TX

Next STEPS: Further Basic Science Required for Successful Clinical Trials
Paul George, MD, PhD, Stanford, CA

All Stem Cell Therapies Are Not the Same: Stem Cells 0.5 to Stem Cells 2.0
S Thomas Carmichael, MD, PhD, Los Angeles, CA

Discussion

Perioperative Stroke (In-hospital Treatment)

Moderator: Karen C Johnston, MD, MSc, FAHA, Charlottesville, VA

Preoperative Assessment for Stroke Risk
Michael T Mullen, MD, Philadelphia, PA

Incidence of Stroke Complicating Surgery
Steven R Messe, MD, Philadelphia, PA

Acute Stroke Interventions Following Surgery
David Blacker, MB, BS, FRACP, Nedlands, Australia

Discussion

Selecting Ischemic Stroke Patients for Acute Endovascular Therapy: The State of the Evidence (Acute Endovascular Treatment)

Moderator: William J Powers, MD, FAHA, Chapel Hill, NC

Stroke Severity: How Low Should We Go?
Pooja Khatri, MD, FAHA, Cincinnati, OH

Age: How High Can We Climb?
Imaging: How Much Do We Need to See?

Prescribing an APP for Stroke: Patient-provider Interface in the New Age
Diagnosing Stroke via Point-of-care Testing: Using miRNA to Develop the Stroke Tricorder?
Frank Sharp, MD, FAHA, FAAN, Sacramento, CA

“They Tried to Make Me Go to Rehab”: Design and Early Lessons Learned Implementing a Telerehabilitation Trial in the StrokeNet
Steven C Cramer, MD, MMSc, Irvine, CA

Discussion

Register Today – strokeconference.org/registrationandhousing
ISC Preliminary Program

Time: When Is It Getting Too Late?
Tudor G Jovin, MD, Pittsburgh, PA

Occlusion Site: Which One Should We Treat?

Discussion

Oral Abstract Sessions

10:15 am – 10:30 am
Short Break/Science and Technology Hall

10:30 am – 12:00 Noon
Plenary Session I
Moderators: Kyra J Becker, MD, FAHA, Seattle, WA
Bruce Ovbiagele, MD, MSc, FAHA, Charleston, SC

Welcome
Nancy Brown, Dallas, TX

AHA Presidential Address
Mark A Creager, MD, FAHA, Lebanon, NH

ISC Program Chair Welcome
Kyra J Becker, MD, FAHA, Seattle, WA

William M Feinberg Award Presentation

Late-Breaking Science Oral Abstracts

Closing Remarks
Kyra J Becker, MD, FAHA, Seattle, WA

12:00 Noon – 1:30 pm
Science and Technology Hall

Fellow and Early Career Luncheon
(ticket required; seating is limited)

Nursing and Rehabilitation Professionals Luncheon
(ticket required; seating is limited)

1:30 pm – 3:00 pm
Vascular Cognitive Impairment

Mini-Symposium: Clinical Dilemmas in Vascular Cognitive Impairment
(Vascular Cognitive Impairment)

Moderators: Leonardo Pantoni, MD, PhD, Florence, Italy
Eric E Smith, MD, Calgary, AB, Canada

Thrombolysis in Dementia Patients with Acute Stroke: Is It Justified?

Acetylcholinesterase Inhibitors for Post-stroke Dementia: Do They Help?
Sandr...
Revisiting Reperfusion: Consequences of Successful Endovascular Treatment in Stroke (Experimental Mechanisms and Models)
Moderators: Gary A Rosenberg, MD, Albuquerque, NM
Tavareker N Nagaraja, PhD, Detroit, MI
Tight Junctions in Ischemia
Philip A Barber, MBCh, MD, Calgary, AB, Canada
Effects of Short Term Reperfusion and Microglial Activation in the Absence of Infarction
Jean-Claude Baron, MD, FRCP, FMedSci, Cambridge, United Kingdom
Vascular Protection in Stroke: Have We Ignored the 800 Pound Gorilla in the Room?
Susan C Fagan, PharmD, FAHA, Augusta, GA
Brain Vasculature in Altered Physiological Conditions
Marilyn Cipolla, PhD, MS, FAHA, Burlington, VT
Discussion
Surgical Interventions in Intracerebral Hemorrhage (Intracerebral Hemorrhage)
Moderators: Daniel F Hanley, MD, FAHA, Baltimore, MD
David Mendelow, MBBCh, PhD, FRCS, Newcastle, United Kingdom
Surgery for ICH: Latest Evidence and Devices
Andrew Carlson, MD, Albuquerque, NM
Minimally Invasive Surgical Techniques: Patient and Technique Selection
Neil A Martin, MD, Los Angeles, CA
White Matter Preservation and ICH Surgery
Paul Vespa, MD, Los Angeles, CA
Evacuation of Intraventricular Hemorrhage by External Ventriculostomy Drainage
Issam A Awad, MD, MSc, FACNS, MA (hon), Chicago, IL
Discussion
The Nuts and Bolts of Organizing a Telestroke Network (Emergency Care/Systems)
Moderators: Jennifer Juhl Majersik, MD, MS, Salt Lake City, UT
Jeffrey Switzer, DO, MCTS, Augusta, GA
Organizing Hubs and Spokes
Karin Nystrom, MSN, APRN, New Haven, CT
Quality and Outcomes Reporting in Telestroke Networks
Lawrence R Wechsler, MD, Pittsburgh, PA
The Economics of Telestroke
Chris Fanale, MD, BS, Englewood, CO
Legal, Licensing and Credentialing Considerations
Bart M Demaerschalk, MD, FAHA, FRCPC, Phoenix, AZ
Discussion
Junior Investigator Session
Oral Abstract Sessions
5:15 pm – 6:15 pm
Professor-Led Poster Tours by Category: Moderated Presentation and Q&A with Poster Presenters
6:15 pm – 6:45 pm
Poster Session with Poster Presenters
Thursday, Feb 18
7:00 am – 8:30 am
Advances in Cerebrovascular Biology (Vascular Biology in Health and Disease)
Moderator: Jialing Liu, PhD, San Francisco, CA
Cerebral Hemodynamics, Collaterals and Stroke Evolution
David S Liebeskind, MD, FAHA, FAAN, Los Angeles, CA
Insufficiency of the Collateral Circulation: Genetics and Environment
James E Faber, PhD, Chapel Hill, NC
In Vivo Imaging of Cerebral Blood Flow and Metabolism
Sava Sakadzic, PhD, Charlestown, MA
Angiogenesis and Neuroplasticity in Stroke Recovery
Christoph Harms, MD, Berlin, Germany
Discussion
Nutrition to Prevent Further Brain Injury after Stroke
Moderators: Claudia Moy, PhD, Bethesda, MD
Ayesha Sherzai, MD, Los Angeles, CA
Should Obese Stroke Patients be Advised to Lose Weight?
Sodium, Potassium, and Health after Stroke
Jennifer L Dearborn, MD, New Haven, CT
Foods That Are Good for the Brain
J David Spence, MD, London, ON, Canada
Mediterranean Diet for Secondary Stroke Prevention
George Howard, DPH, FAHA, Birmingham, AL
A Neurologist's Approach to Facilitating Behavior Change after Stroke
Amytis Towfighi, MD, Los Angeles, CA

Discussion
State-of-the-Art: Advances in Acute Stroke Management
(Acute Nonendovascular Treatment)
Moderators: Brian Silver, MD, Providence, RI
Sheila Martins, MD, Porto Alegre, Brazil

Advances in Medical Management: Glucose, Hypothermia, Hypertension
Charlotte Cordonnier, MD, Lille, France

Advances in Neuroimaging: How to Effectively Identify the Best Candidates?
Peter D Schellinger, MD, PhD, FESO, FAHA, Minden, Germany

Thrombolysis beyond the 3-hour Window: What, How, and Whom? (A Patient-centered Approach)
Edward C Jauch, MD, MS, FAHA, FACEP, Charleston, SC

Decision-making in Acute Stroke Care: Lessons Learned from Neuroeconomics and Poker Players
Gustavo Sapounis, MD, MSc, FAHA, FRCP, Toronto, ON, Canada

Discussion
Oral Abstract Sessions
8:30 am – 8:45 am
Short Break
8:45 am – 10:15 am

KOL Neuroimaging Session (an American Heart/American Stroke Association and European Stroke Organisation Joint Session) (Acute Neuroimaging)
Moderators: Tudor G Jovin, MD, Pittsburgh, PA
Peter D Schellinger, MD, PhD, FESO, FAHA, Minden, Germany

Introduction
Peter D Schellinger, MD, PhD, FESO, FAHA, Minden, Germany

MRI for Imaging Salvageable Tissue: SIMPLY THE BEST
Gregory W Albers, MD, Palo Alto, CA

CTP Core and Penumbra: WAY TO GO!
Bruce Campbell, MBBS, Parkville, Australia

CTA Occlusion, Collaterals and Speed Count: FAST and DIRTY!
Michael D Hill, MD, MSc, FRCPC, Calgary, AB, Canada

At the End, the One Third MCA Rule Rules: FASTER and DIRTIER!
Joseph Broderick, MD, FAHA, Cincinnati, OH

Does IV rt-PA Lose against Time or Control? IT’S BOTH LACK OF EFFECT AND CONTROLS!
Kennedy R Lees, MD, Glasgow, United Kingdom

Tissue Imaging in the Angio Suite: BACK TO THE FUTURE
Colin Derdeyn, MD, FAHA, Iowa City, IA

Perspective and Treatment Effects and Trade-offs: WHAT IS THE BEST DEAL?
Werner Hacke, MD, PhD, FAHA, Heidelberg, Germany

Discussion
Regional Pre-hospital Triage and Treatment of Stroke Patients in the New Era of Endovascular Therapy (Emergency Care/Systems)
Moderators: Claus Z Simonsen, MD, PhD, Aarhus, Denmark
Philip Scott, MD, FAHA, Ann Arbor, MI

Learning from Other Diseases: Triage Models of Trauma and Acute MI
Jason T McMullan, MD, Cincinnati, OH

CT and Telemedicine Technology in the Pre-hospital Setting: Promise and Challenges
Heinrich J Audebert, MD, Berlin, Germany

Clinical Recognition and Triage of Severe Stroke by EMS Personnel: Measurement Scales and Potential Approaches
Brian S Katz, MD, Cincinnati, OH

Models of Regional Pre-hospital and Between-hospital Triage of Stroke Patients

Discussion
Surrogates of Rupture for Intracranial Aneurysms (Aneurysm)
Moderator: William Mack, MD, FAANS, FAHA, Los Angeles, CA

Natural History of Unruptured Intracranial Aneurysms: What We Know
Sudheer Ambekar, MBBS, MCH, Mumbai, India

Anatomical Surrogates to Determine Aneurysm Rupture Risk
Nima Etminan, MD, Mannheim, Germany

Hemodynamic Surrogates to Determine Aneurysm Rupture Risk
Brian Hoh, MD, FAHA, FAANS, FACS, Gainesville, FL

Current Consensus on Management of Unruptured Intracranial Aneurysms
Robert Loch MacDonald, MD, PhD, FRCS(C), FAANS, FACS, Toronto, ON, Canada

Discussion
Oral Abstract Sessions
10:15 am – 10:30 am
Short Break/Science and Technology Hall
10:30 am – 12:00 Noon

Plenary Session II
Moderators: Kyra J Becker, MD, FAHA, Seattle, WA
Bruce Ovbiagele, MD, MSc, FAHA, Charleston, SC
David G Sherman Lecture Presentation
Late-Breaking Science Oral Abstracts
## ISC Preliminary Program

### 12:00 Noon – 1:30 pm

**Science and Technology Hall**

- **Fellow and Early Career/Stroke Leader Roundtable Luncheon** *(ticket required; seating is limited)*
- **Advance Practice Providers’ Luncheon** *(ticket required; seating is limited)*

**1:30 pm – 3:00 pm**

**Beyond Atrial Fibrillation: Atrial Cardiopathies as a Cause of Unexplained Stroke** *(Diagnosis of Stroke Etiology)*

**Moderators:**
- Elsayed Soliman, MD, MSc, MS, FAHA, FACC, Winston Salem, NC
- David Tirschwell, MD, MS, Seattle, WA

- **Cardiac Monitoring for the Detection of Atrial Fibrillation in Patients with Unexplained Stroke**
  - Richard Bernstein, MD, PhD, Chicago, IL
- **Serum and Structural Biomarkers of Atrial Dysfunction and Stroke Risk**
  - Mira Katan, MD, Zurich, Switzerland
- **Electrophysiologic Measures of Atrial Dysfunction and Stroke Risk**
  - Hooman Kamel, MD, New York, NY

**Therapeutic Implications of the Concept of Atrial Cardiopathy**

**Discussion**

**Issues in the Neurocritical Care Management of Aneurysmal Subarachnoid Hemorrhage (SAH and Other Neurocritical Management)**

**Moderators:**
- Paul Vespa, MD, Los Angeles, CA
- Neeraj Naval, MD, Jacksonville, FL

**Coagulopathic States after Aneurysmal SAH**
- Mervyn Vergouwen, MD, PhD, Utrecht, Netherlands

**Novel Drug Therapies for Cerebral Vasospasm**
- Hiroyuki Kinouchi, MD, PhD, Yamanashi, Japan

**Cardiovascular Complications of Aneurysmal SAH**
- Stamatios Lerakis, Atlanta, GA

**Deep Vein Thrombosis after Aneurysmal SAH**
- Conrad Liang, MD, PhD, Los Angeles, CA

**Discussion**

**The Interface between Infection and Cerebrovascular Disease** *(Vascular Biology in Health and Disease)*

**Moderators:**
- Michael R Frankel, MD, Decatur, GA
- Ali Malek, MD, West Palm Beach, FL

**Cerebrovascular Disease in HIV/AIDS**
- Jason Sico, MD, New Haven, CT

**Systemic Inflammatory Response Syndrome in Stroke**

**Post-stroke Infections**
- Mitchell Elkind, MD, MS, FAAN, New York, NY

**Discussion**

**Oral Abstract Sessions**

**Late-Breaking Science Oral Abstract Session**

### 3:00 pm – 3:30 pm

**Break/Science and Technology Hall/Case Studies Theater**

### 3:30 pm – 5:00 pm

**Management of Stroke in the Young: Controversies in Anticoagulation (Pediatric Stroke)**

**Moderators:**
- Ryan Fellow, MD, PhD, Baltimore, MD
- Bryan Philbrook, MD, Atlanta, GA

- **The New Anticoagulants: Moving beyond Heparin, Warfarin, and Aspirin**
  - Marcela Torres, MD, Fort Worth, TX
- **Thrombophilia in Pediatric and Young Adult Stroke: How Much Does It Matter?**
  - Leonardo Brandao, MD, MSc, Toronto, ON, Canada

**ECMO and VAD: Strategies to Decrease the Risk of Stroke**
- Paul Monagle, MBBS, MD, MSc, FRACP, FRCPA, FCCP, Melbourne, Australia

**The Role of Anticoagulation in Focal Cerebral Arteriopathy and CNS Vasculitis**
- Mahendranath Mohanar, MD, MSc, FRACP, Toronto, ON, Canada

**The Effects of Early Rehabilitation on the Reorganization of Cortical Maps**

**Early Recovery of Motor Control after Stroke: Human Perspective**
- Tomoko Kitago, MD, New York, NY

**Stroke Recovery: Timing, Training, and Biological Determinants: A Rodent Perspective**
- Steven R. Zeiler, MD, PhD, Baltimore, MD

**A Limited Time Window of Heightened Plasticity after Stroke and the Need for Novel Intervention in Patients**
- John W Krakauer, MD, Baltimore, MD

**Discussion**

**Stroke, Dementia and the Sustainable Development Goals (an American Heart/American Stroke Association and World Stroke Organization Joint Session)**

**Moderators:**
- Stephen M Davis, MD, FRCP, Edin FRACP, FAHA, Melbourne, Australia
- Colin Derdeyn, MD, FAHA, Iowa City, IA

**Vascular Disease and Dementia: The Underlying Mechanisms**
- Costantino Iadecola, MD, FAHA, New York, NY

**Preventing Cognitive Decline and Dementia: What Is the Evidence?**
- Michael Brainin, MD, Krems, Austria

**What Do the Post-2015 Sustainable Development Goals Mean for Stroke and Dementia?**
- Bo Norrving, MD, PhD, FESC, Lund, Sweden
The New Stroke Proclamation: A Roadmap to Prevent Stroke and Dementia
Vladimir Hachinski, MD, FRCPC, DSc, London, ON, Canada

Discussion
Stroke Performance Measures and Addressing Disparities in Stroke Care (Health Services, Quality Improvement, and Patient-Centered Outcomes)
Moderator: Dana Leifer, MD, New York, NY

The Long and Winding Road: What Are Performance Measures; What Are Their Intended and Unintended Consequences; and How Do They Affect Reimbursement and Quality of Care?
Current State of Comprehensive Stroke Centers in the US
Jeffrey L Saver, MD, FAHA, FAAN, Los Angeles, CA
EMS in Non-urban Environments: Reaching the Rural Hospital and Stroke Ready Center
Reza Vaezaziz, MD, San Bernardino, CA
Unraveling Non-endovascular Treatment of Stroke in Emerging Economies
Conrado J Estol, MD, PhD, Buenos Aires, Argentina

Discussion
Treatment of Dural Arteriovenous Fistulas (Vascular Malformations)
Moderator: Jeffrey L Saver, MD, Los Angeles, CA
Classification and Clinical Course: Grading of Cranial Dural Arteriovenous Fistulas
Gregory J Zipfel, MD, Saint Louis, MO
Treatment of Dural Arteriovenous Fistulas: The Surgical Perspective
Raphael Guzman, MD, Basel, Switzerland
Treatment of Dural Arteriovenous Fistulas: The Endovascular Perspective
Felipe Albuquerque, MD, Phoenix, AZ
Multimodality and Combined Approaches to Dural Arteriovenous Fistulas: Endovascular, Surgical and Radiosurgical Approaches
Babu Welch, MD, FAANS, Dallas, TX

Discussion
Vertebrobasilar Disease: Update on Evaluation and Treatment Options (Cerebral Large Artery Disease)
Moderators: Louis R Caplan, MD, FAHA, Boston, MA
Adnan Siddiqui, MD, PhD, Buffalo, NY

Hemodynamic Evaluation in Vertebrobasilar Disease: The VERITAS Study
Sepideh Amin-Hanjani, MD, FAANS, FACS, FAHA, Chicago, IL

BASics and the BASics Trial
Wouter J Schonewille, MD, Utrecht, Netherlands
Vertebral Artery Ischemia Stenting Trial (VIST) and Vertebral Artery Stenting Trial (VAST) Updates
Hugh Markus, BA, BM Bch, DM, FRCP, London, United Kingdom
Surgical Revascularization for Vertebrobasilar Disease
Fady T Charbel, MD, Chicago, IL

Discussion
Stroke Guidelines Session
5:15 pm – 6:15 pm
Professor-Led Poster Tours by Category: Moderated Presentation and Q&A with Poster Presenters
6:15 pm – 6:45 pm
Poster Session with Poster Presenters

Friday, February 19
7:00 am – 8:30 am
Moderators: Michael Rivkin, MD, Boston, MA
Catherine Arnie-Lefond, MD, Seattle, WA
Younger Children Should Be Treated Within a Shorter Time Window, and Imaging Should Show Evidence of Collaterals and DWI/PWI Mismatch Prior to Neurointervention
Paola Pergami, MD, PhD, Morgantown, WV
Age Should Have No Impact on the Time Window or Imaging Requirements
Elisa Ciceri, MD, Milan, Italy
Children Should Be Treated at Comprehensive Stroke Centers Where There Is Extensive Expertise in Neurointervention
Todd Abruzzo, MD, Cincinnati, OH
Children Should Be Treated Within Pediatric Stroke Programs Affiliated with Well-developed Children’s Hospitals
Darren Orbach, MD, Boston, MA

Discussion
Clinical and Basic Perspectives on the Role of Physical and Cognitive Activity and Neural Progenitors in Stroke Recovery – the ASA-Bugher Collaborative Studies (Basic and Preclinical Neuroscience of Stroke Recovery)
Moderators: S Thomas Carmichael, MD, PhD, Los Angeles, CA
Richard J Traystman, PhD, FAHA, Aurora, CO
Remote Ischemic Preconditioning: A Novel Therapy for Ischemic Stroke
Latisha Ali, MD, Los Angeles, CA
Plasticity in the Developing Brain: Translation from Humans to Mice and Back Again
Timothy J Bernard, MD, Denver, CO
Cognitive Interventions Post-stroke from Bench to Bedside
Clinton B Wright, MD, MS, Miami, FL
What and the Why in White Matter Stroke, Activity, and Neural Repair
Kwan L Ng, Los Angeles, CA
Exercise and Cognitive Recovery Following Focal Cerebral Ischemia in Rodents
Mehdil Youbi, MD, Miami, FL
Plasticity Potential of the Pediatric Brain Following Ischemic Stroke
Krista Rodgers, PhD, Aurora, CO

For the most current program information, please visit strokeconference.org/programming
Discussion
Global Burden & Challenges: Stroke Care in Developing Countries (an American Heart/ American Stroke Association and Chinese Stroke Association Joint Session) (Community/Risk Factors)
Moderator: Liping Liu, Beijing, China
Global Epidemiology of Risk Factors for Cerebrovascular Disease
Dennis Xavier, MD, PhD, Bangalore, India
Developing Strategies for Early Rehabilitation of Stroke Patients
Bo Norrving, MD, PhD, FESC, Lund, Sweden
Organizing National Stroke Center Network
Anding Xu, MD, Guangzhou, China
Quality Control and Improvement of Stroke Care: From CNSR
Yilong Wang, Beijing, China
Prevention of Stroke in Low and Middle Income Countries
Discussion
Neuroprotection and Intervention: From Bench to Angio Room and Back (Acute Endovascular Treatment)
Moderators: Antoni Davalos, MD, PhD, Barcelona, Spain
David S Liebeskind, MD, FAHA, Los Angeles, CA
Molecular and Genetic Targets for Neuroprotection Relevant to Reperfusion
Eng Lo, PhD, FAHA, Boston, MA
Neuroprotection/Reperfusion Approaches: Current State and Future Developments
Michael Tymianski, MD, PhD, FRCSC, Toronto, ON, Canada
Who May Benefit? Timing, Clinical and Imaging Characteristics
Andrew Ducruet, MD, Pittsburgh, PA
Application of Neuroprotection/Reperfusion Combination in Clinical Practice: The Road Ahead
Rishi Gupta, MD, Marietta, GA
Discussion
Oral Abstract Sessions
8:30 am – 8:45 am
Short Break
8:45 am – 10:15 am
Addressing Unmet Palliative Care Needs of Stroke Patients and Their Family Caregivers (Nursing)
Moderator: Barbara J Lutz, PhD, RN, CRRN, FAHA, Wilmington, NC
Palliative Care Consultation Triggers Following Severe Stroke
Claire Creutzfeldt, MD, Seattle, WA
Determining Goals of Care for Intracerebral Hemorrhage Patients: Factors Considered by Surrogate Decision Makers
David Y Hwang, MD, New Haven, CT
Addressing Palliative Care Needs of Stroke Survivors
Theresa Green, PhD, RN, Brisbane, Australia
Recognizing Unmet Palliative Care Needs of Stroke Family Caregivers
Palliative Care in Stroke: It’s about Time
Claire Creutzfeldt, MD, Seattle, WA
Discussion
Clinical Trials of Cell Therapy for Stroke: Where Are We Now? (Clinical Rehabilitation and Recovery)
Moderators: S Thomas Carmichael, MD, PhD, Los Angeles, CA
Johannes Bolte, MD, PhD, Lübeck, Germany
Lessons from Phase 1/2a Clinical Trial of SB623 Cell Therapy in Patients with Chronic Stroke Disability
Gary Steinberg, MD, PhD, FAHA, Stanford, CA
RECOVER-Stroke: Implications of 1-year Final Results of Intra-arterial Delivery of ALDHbr Cells in Subacute Ischemic Stroke
Dileep Yavagal, MD, MBBS, Miami, FL
Safety and Efficacy of IV Stem Cell Therapy in Acute Stroke: What Is the Current Evidence?
David Hess, MD, Augusta, GA
Design and Implementation of the Next Generation of Stem Cell Trials in Stroke
Keith Muir, MD, Glasgow, United Kingdom
Discussion
Stroke Controversies – Debate (a Stroke journal Session)
Moderators: Marc Fisher, MD, FAHA, Boston, MA
Lawrence Wong, MD, Shatin, Hong Kong
Presentation of Stroke Progress and Innovation Awards
Marc Fisher, MD, FAHA, Boston, MA
Suspected Large Vessel Occlusion: Should EMT Bypass Primary Stroke Centers? (PRO)
Karen C Johnston, MD, FAHA, Charlottsville, VA
Suspected Large Vessel Occlusion: Should EMT Bypass Primary Stroke Centers? (CON)
Mayank Goyal, MBBS, MD, FRCPC, Calgary, AB, Canada
Suspected Large Vessel Occlusion: Should EMT Bypass Primary Stroke Centers? (REBUTTAL 1)
Karen C Johnston, MD, FAHA, Charlottsville, VA
Suspected Large Vessel Occlusion: Should EMT Bypass Primary Stroke Centers? (REBUTTAL 2)
Mayank Goyal, MBBS, MD, FRCPC, Calgary, AB, Canada
Suspected Large Vessel Occlusion: Should EMT Bypass Primary Stroke Centers? (SUMMARY)
Carlos A Molina, MD, Barcelona, Spain
Embolic Stroke, Atrial Fibrillation, and Microbleeds: Is There a Role for Anticoagulation? (PRO)
Hans-Christoph Diener, MD, PhD, FAHA, Essen, Germany
Embolic Stroke, Atrial Fibrillation, and Microbleeds: Is There a Role for Anticoagulation? (CON)
Steven M Greenberg, MD, PhD, FAHA, Boston, MA
Embolic Stroke, Atrial Fibrillation, and Microbleeds: Is There a Role for Anticoagulation? (REBUTTAL 1)
Hans-Christoph Diener, MD, PhD, FAHA, FAAN, Essen, Germany

Embolic Stroke, Atrial Fibrillation, and Microbleeds: Is There a Role for Anticoagulation? (REBUTTAL 2)
Steven M Greenberg, MD, PhD, FAHA, Boston, MA

Embolic Stroke, Atrial Fibrillation, and Microbleeds: Is There a Role for Anticoagulation? (SUMMARY)
Magdy Selim, MD, PhD, FAHA, Boston, MA

Early vs. Late Assessment of Stroke Outcome (PRO)
Kennedy R Lees, MD, Glasgow, United Kingdom

Early vs. Late Assessment of Stroke Outcome (CON)
Joseph Broderick, MD, FAHA, Cincinnati, OH

Early vs. Late Assessment of Stroke Outcome (REBUTTAL 1)
Kennedy R Lees, MD, Glasgow, United Kingdom

Early vs. Late Assessment of Stroke Outcome (REBUTTAL 2)
Joseph Broderick, MD, FAHA, Cincinnati, OH

Early vs. Late Assessment of Stroke Outcome (SUMMARY)
Magdy Selim, MD, PhD, FAHA, Boston, MA

Discussion

Oral Abstract Sessions
10:15 am – 10:30 am
Short Break
10:30 am – 12:30 pm

Plenary Session III
Moderators: Kyra J Becker, MD, FAHA, Seattle, WA
Bruce Ovbiagele, MD, MSc, FAHA, Charleston, SC

The Next Big Thing in Stroke (at Lightning Speed)

Thomas Willis Award Presentation

Late-Breaking Science Oral Abstracts

Closing Remarks
Bruce Ovbiagele, MD, MSc, FAHA, Charleston, SC

Poster Session Information
To provide additional hours for poster viewing, the Poster Hall will be open during these hours:
Wednesday, Feb 17 8:00 am – 6:45 pm
Thursday, Feb 18 8:00 am – 6:45 pm

Moderated Poster Tours
Professor-Led Poster Tours by Category:
Moderated Q&A with Poster Presenters
Leaders in the stroke field will take groups of attendees around speaker-attended posters for a brief presentation by and a Q&A with the poster presenters. Poster tours will be arranged by category. Professor-led poster tours are scheduled as follows:
Wednesday, Feb 17 5:15 pm – 6:15 pm
Thursday, Feb 18 5:15 pm – 6:15 pm

Posters Sessions with Poster Presenters:
One-on-one time with the Poster Presenters
These posters are different from the posters presented in the Professor-Led Poster Tours above.
Wednesday, Feb 17 6:15 pm – 6:45 pm
Thursday, Feb 18 6:15 pm – 6:45 pm

Please go to strokeconference.org/programming for additional information about the Poster Sessions.

E-Posters
E-posters will be viewable in the Poster Hall from 8:00 am – 6:45 pm. Registered ISC attendees can also view the E-posters online at strokeconference.org.
Registration and Housing

Registration and Housing for ISC, the Nursing Symposium, and both ISC Pre-Conference Symposia will open as follows:

- **FAHA Members**: Oct 7
- **AHA/ASA Members***: Oct 14
- **Nonmembers**: Oct 21

*Must become a Member on or before Sept 23, 2015 to qualify for priority registration and housing.

Join AHA/ASA Professional Membership Today and Save on Registration!**

Stroke Professionals, save up to $500 on ISC registration. Nurses, save up to $300 on the Stroke Nursing Symposium registration and up to $520 on ISC registration.

** * Must become a Member on or before Dec 16, 2015 to qualify for Early Registration Rates.
** Must be a Member on or before Jan 13, 2016 to receive Member Registration Rates.

Registration savings dependent on registration level and membership tier

Join online today at my.americanheart.org (Promo Code AFJ185ZZ)

** How to Register

** Web: Register online and book your hotel at strokeconference.org/registrationandhousing. Promo Code DM101

** Phone, Fax or Mail: For registration instructions and downloadable forms, go to: strokeconference.org/registrationandhousing. A one-time $20 service charge will be assessed if you choose one of these options.

** Onsite Registration: Onsite registrants must have a photo ID. For security reasons, you cannot register another attendee or pick up another attendee’s registration materials.

Please visit strokeconference.org/registrationandhousing for the following information:

- Registration Reminders/Deadlines
- Membership Information
- Registration Refund/Cancellation Policy
- Hotel Information including Cancellation Policy
- Conference Hotels and the Hotel Map
- Onsite Registration Information and Registration Hours
- Registration Rates
Members are where it happens
Whether you are an early career member looking to learn and grow in your specialty, or a FAHA looking to broaden leadership opportunities, there are unique benefits tailored to you.

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Professional Membership Benefits Include:* 
- Up to $500 in savings on International Stroke Conference 2016 registration and up to $300* in savings on State-of-the-Science Stroke Nursing Symposium registration — plus registration savings at AHA’s other scientific conferences.
- Complimentary access to Stroke OnDemand**.
- Benefits that extend beyond science so you can contribute to the AHA’s mission of building healthier lives, free of cardiovascular diseases and stroke.
- Unprecedented access to research and clinical information across multiple specialties.
- Be a part of our AHA Professional Online Network — connect with peers and leaders in your specialty.

*Benefits depend on membership tier.
**Only applies to premium level members.
***While supplies last.

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### Contents

**Registration**
- Telephone: 800-748-3583 and 508-743-8517 (International)
- Hours: M-F 8:00 am – 4:00 pm CT
- Fax: 508-743-9611
- Mail: Stroke Conference Registrations c/o Convention Data Services
  101 Waterhouse Road
  Bourne, MA 02532
- Email: internationalstroke@xpressreg.net

- Membership Services
  - Telephone: 800-787-8094 (inside the US)
  - Fax: 301-223-2535 (outside the US)
  - Email: ahaonline@LWW.com

**Meeting and Membership Information**
- Telephone: 888-242-2453 (inside the US)
- Fax: 212-779-6128
- Mail: c/o Convention Data Services
  107 Waterhouse Road
  Bourne, MA 02532
- Email: internationalstroke@xpressreg.net

**Telephone:**
- 808-242-2453 (inside the US)
- 212-532-1660 (outside the US)

**Fax:**
- 212-779-6128
- 508-743-8517 (International)

**Email:**
- strokeconference@heart.org
- isc@onpeak.com
- internationalstroke@xpressreg.net

**Address:**
- New York, NY 10016
- Bourne, MA 02532
- c/o onPeak LLC
- 107 Waterhouse Road
- c/o Convention Data Services
- 508-743-8517 (International)

**Web site:** strokeconference.org

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**Key Dates**

| Oct. 7 | FAHA Registration and Housing opens |
| Oct. 14 | Member Registration and Housing opens |
| Oct. 21 | Late-Breaking Science and Ongoing Clinical Trials Abstract Submission openings |
| Oct. 21 | Nonmember Registration and Housing opens |
| Oct. 21 | Exhibitor/Group Registration and Housing opens |

| Nov. 4 | Late-Breaking Science and Ongoing Clinical Trials Abstract Submission closings |
| Dec. 16 | Deadline to become an AHA/ASA Member to receive Early Registration rates |
| Dec. 20 | Deadline for Early Registration Rates |
| Dec. 21 | Advance Registration Rates Apply |
| Jan. 13 | Deadline to become an AHA/ASA Member to receive Member Registration rates |
| Jan. 27 | Deadline for Advance Registration |
| Jan. 28 | Standard Registration Rates apply/Housing remains open based on availability |

*Go to strokeconference.org/submitscience.

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### Registration/Hotel Information

**ISC Pre-Conference Symposium I:**
- State-of-the-Science Stroke Nursing Symposium
- Behavioral Testing in Animals
- The Nuts and Bolts of Pre-clinical and Beyond: Endovascular Therapy Symposium

**ISC Pre-Conference Symposium II:**
- Student/Trainee/Early Career:
  - State-of-the-Science Stroke Nursing Symposium
  - Behavioral Testing in Animals
  - The Nuts and Bolts of Pre-clinical and Beyond: Endovascular Therapy Symposium

**Behavioral Testing in Animals:**
- Symposium on the Role of Physical and Cognitive Rehabilitation Clinical Trials: New Insights and Therapeutic Targets
- Symposium on the Role of Physical and Cognitive Rehabilitation Clinical Trials: The Interface between Infection and Stroke

**AHA’s CEO Welcome**
- Plenary Session I

**ISC Program Chair’s Oral Abstracts**
- Oral Abstracts

**State-of-the-Art: Advances in Cerebrovascular Disease:**
- Symposium on the Role of Physical and Cognitive Rehabilitation Clinical Trials: New Insights and Therapeutic Targets
- Symposium on the Role of Physical and Cognitive Rehabilitation Clinical Trials: The Interface between Infection and Stroke

**Clinical and Basic Perspectives on the Role of Physical and Cognitive Rehabilitation Clinical Trials:**
- Symposium on the Role of Physical and Cognitive Rehabilitation Clinical Trials: New Insights and Therapeutic Targets
- Symposium on the Role of Physical and Cognitive Rehabilitation Clinical Trials: The Interface between Infection and Stroke

**American Stroke Association/World Stroke Organization Joint Session**
- Symposium on the Role of Physical and Cognitive Rehabilitation Clinical Trials: New Insights and Therapeutic Targets
- Symposium on the Role of Physical and Cognitive Rehabilitation Clinical Trials: The Interface between Infection and Stroke

**American Stroke Association, American Heart Association and Stroke Society of Australasia Joint Session**
- Symposium on the Role of Physical and Cognitive Rehabilitation Clinical Trials: New Insights and Therapeutic Targets
- Symposium on the Role of Physical and Cognitive Rehabilitation Clinical Trials: The Interface between Infection and Stroke

**Presentations and Discussions on International Collaboration:**
- Symposium on the Role of Physical and Cognitive Rehabilitation Clinical Trials: New Insights and Therapeutic Targets
- Symposium on the Role of Physical and Cognitive Rehabilitation Clinical Trials: The Interface between Infection and Stroke

**Close-up of research and treatment:**
- Symposium on the Role of Physical and Cognitive Rehabilitation Clinical Trials: New Insights and Therapeutic Targets
- Symposium on the Role of Physical and Cognitive Rehabilitation Clinical Trials: The Interface between Infection and Stroke

**Clinical Dilemmas in Vascular Biology**
- Symposium on the Role of Physical and Cognitive Rehabilitation Clinical Trials: New Insights and Therapeutic Targets
- Symposium on the Role of Physical and Cognitive Rehabilitation Clinical Trials: The Interface between Infection and Stroke

**Future (Debate)**
- Symposium on the Role of Physical and Cognitive Rehabilitation Clinical Trials: New Insights and Therapeutic Targets
- Symposium on the Role of Physical and Cognitive Rehabilitation Clinical Trials: The Interface between Infection and Stroke

**Conference Address:**
- Los Angeles, California
- Discover Los Angeles. Beaches, mountains, ocean and desert to explore. Theme parks, nightlife and parks to play in. An incredible mix of cultures and neighborhoods to discover. Exotic ethnic restaurants, uniquely California cuisine and world-class dining to savor. Shopping, museums, sports, live music and more.

**Conference Location:**
- Beaches, mountains, ocean and desert to explore. Theme parks, nightlife and parks to play in. An incredibly diverse mix of cultures and neighborhoods to discover. Exotic ethnic restaurants, uniquely California cuisine and world-class dining to savor. Shopping, museums, sports, live music and more.

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**Los Angeles, California**

Photo courtesy of Discover Los Angeles

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### State-of-the-art Stroke Nursing Symposium

**Pre-Conference Symposium I:**
- Stroke in the Real World: To Infinity and Beyond: Endovascular Therapy and Systems of Care

**Pre-Conference Symposium II:**
- Student/Trainee/Early Career: The Nuts and Bolts of Pre-clinical Behavioral Testing in Animals

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### International Stroke Conference 2016

**Fellow and Early Career / Stroke Leader Luncheon:**
- Late-Breaking Science Oral Abstracts

**Fellow and Early Career Roundtable Luncheon:**
- Late-Breaking Science Oral Abstracts

**Conference Address:**
- Los Angeles, California
- Discover Los Angeles. Beaches, mountains, ocean and desert to explore. Theme parks, nightlife and parks to play in. An incredible mix of cultures and neighborhoods to discover. Exotic ethnic restaurants, uniquely California cuisine and world-class dining to savor. Shopping, museums, sports, live music and more.

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Connecting the World to Stroke Science

Members are where it happens
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PROFESSIONAL MEMBERSHIP

my.americanheart.org

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Registration and Housing

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<tr>
<th>Registration Categories</th>
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Registration Fees: ISC Pre-Conference Symposium I: Stroke in the Real World: To Infinity and Beyond: Endovascular Therapy and Systems of Care

Member and Nonmember | $100 | $125 | $225 |

Registration Fees: ISC Pre-Conference Symposium II: Pre-clinical Behavioral Testing in Animals

Member and Nonmember | $25 | $25 | $25 |

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