2017 Annual
Cerebrovascular Disease Symposium:
From Clinical Trial to Clinical Practice

Saturday
October 14, 2017
7:00 am-4:00 pm

USC Health Sciences Campus
Mayer Auditorium
1975 Zonal Avenue
Los Angeles, California 90033

Presented by:
Center for Cerebrovascular Disorders
Departments of Neurosurgery and Neurology
USC Office of Continuing Medical Education

Keck School of Medicine of USC
## PROGRAM

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<tr>
<th>Time</th>
<th>Session</th>
<th>Topic</th>
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<tr>
<td>7:00 am</td>
<td>Registration and</td>
<td>Continental Breakfast</td>
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<tr>
<td>8:00 am</td>
<td>Welcome</td>
<td>Arun Paul Amar, MD</td>
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<tr>
<td>8:05 am</td>
<td>Session I: Controversies in Acute Ischemic</td>
<td>Stroke Revascularization</td>
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<td>Stroke Revascularization</td>
<td>机械性血栓溶解术（Mechanical Thrombectomy）</td>
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<td></td>
<td>After Eight Hours</td>
<td>William J. Mack, MD</td>
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<tr>
<td>8:25 am</td>
<td>General Anesthesia vs</td>
<td>Sedation During Mechanical</td>
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<td>Sedation During Mechanical</td>
<td>William J. Mack, MD</td>
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<tr>
<td>8:45 am</td>
<td>Microsurgical Bypass for Acute</td>
<td>Cerebral Ischemia</td>
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<td>Cerebral Ischemia</td>
<td>Jonathan J. Russin, MD</td>
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<tr>
<td>9:05 am</td>
<td>Defining Training and</td>
<td>Competency Standards in NeuroEndovascular Surgery</td>
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<td>Competency Standards in NeuroEndovascular</td>
<td>Steven L. Giannotta, MD</td>
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<tr>
<td>9:30 am</td>
<td>Expert Panel: Would You</td>
<td>Thrombolyse or Not?</td>
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<td>Thrombolyse or Not?</td>
<td>Nerses Sanossian, MD</td>
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<td>Parampreet Singh, MD</td>
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<td>Gene Sung, MD</td>
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<tr>
<td>10:00 am</td>
<td>Break</td>
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<tr>
<td>10:15 am</td>
<td>Session II: Management of Intracerebral</td>
<td>Hemorrhage (ICH)</td>
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<td>Hemorrhage (ICH)</td>
<td>Correction of Coagulopathy Associated ICH</td>
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<td>Roy Armand Poblete, MD</td>
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<td>10:35 am</td>
<td>When to Resume</td>
<td>Angicoagulation after ICH</td>
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<td>Angicoagulation after ICH</td>
<td>Amytis Towfighi, MD</td>
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<tr>
<td>10:55 am</td>
<td>Expert Panel: When to Operate</td>
<td>ICH</td>
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<td>When to Operate</td>
<td>Arun Paul Amar, MD</td>
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<td>Steven L. Giannotta, MD</td>
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<td>William J. Mack, MD</td>
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<td>Jonathan J. Russin, MD</td>
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<tr>
<td>11:30 am</td>
<td>Panel Discussion</td>
<td>All Morning Faculty</td>
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<td>11:45 am</td>
<td>Lunch</td>
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<td>12:45 pm</td>
<td>Welcome Back</td>
<td>Nerses Sanossian, MD</td>
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<td>12:50 pm</td>
<td>Stroke Care Delivery in</td>
<td>Los Angeles: The View from EMS</td>
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<td>Los Angeles: The View from EMS</td>
<td>Nichole Bosson, MD</td>
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<td>1:20 pm</td>
<td>Expert Panel: How to Develop</td>
<td>a Neuro-ICU</td>
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<td>Expert Panel: How to Develop</td>
<td>Benjamin A. Emanuel, DO</td>
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<td>Expert Panel: How to Develop</td>
<td>John Peter Gruen, MD</td>
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<td>Expert Panel: How to Develop</td>
<td>Roy Armand Poblete, MD</td>
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<tr>
<td>1:55 pm</td>
<td>Tele-ICU</td>
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<td>Tele-ICU</td>
<td>Sebina Bulic, MD</td>
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<td>2:15 pm</td>
<td>Break</td>
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<td>2:30 pm</td>
<td>Update on PFO Closure for Stroke Prevention</td>
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<td>Update on PFO Closure for Stroke Prevention</td>
<td>David Shavell, MD</td>
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<td>2:55 pm</td>
<td>Transformative Science: Highlights from ISC</td>
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<td>Transformative Science:</td>
<td>Nerses Sanossian, MD</td>
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<td>3:45 pm</td>
<td>Panel Discussion</td>
<td>All Afternoon Faculty</td>
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<td>4:00 pm</td>
<td>Adjournment</td>
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FACULTY

COURSE DIRECTORS
Keck School of Medicine of USC
Los Angeles, CA

Arun Paul Amar, MD
Associate Professor of Neurological Surgery
Director of Endovascular Neurosurgery
Stroke Director
Associate Chief of Neurosurgery
LAC+USC Medical Center
Department of Neurological Surgery

Nerses Sanossian, MD
Associate Professor of Neurology
Chief, Division of Neurocritical Care and Stroke
Director, Roxanna Todd Hodges Comprehensive Stroke Clinic
Co-Director, LAC+USC Stroke Program
Department of Neurology

KECK SCHOOL OF MEDICINE OF USC FACULTY
Los Angeles, CA

Sebina Bulic, MD, RVT
Assistant Professor
Stroke Fellowship Program Director
Department of Neurology

Benjamin A. Emanuel, DO
Assistant Professor of Neurology
Department of Neurology
Co-Director of Neurocritical Care and Stroke Services
Keck Medical Center of USC
Neurocritical Care Fellowship Program Director

Steven L. Giannotta, MD
Professor and Chairman
Department of Neurological Surgery

John Peter Gruen, MD
Co-Director, LAC+USC Neuroscience ICU
Director of Critical Care
LAC+USC Medical Center
Department of Neurological Surgery

KECK SCHOOL OF MEDICINE OF USC FACULTY
Los Angeles, CA

William J. Mack, MD, MS
Associate Professor
Department of Neurological Surgery Zilkha Neurogenetic Institute

Roy Armand Poblete, MD
Assistant Professor of Clinical Neurology
Department of Neurology

Jonathan J. Russin, MD
Assistant Professor
Department of Neurological Surgery

David Shavelle, MD, FACC, FSCAI
Associate Professor of Clinical Medicine
Program Director, Cardiovascular Medicine Fellowship
Division of Cardiovascular Medicine

Parampreet Singh, MD
Clinical Instructor of Neurological Surgery (Fellow)
Department of Neurological Surgery

Gene Sung, MD, MPH
Assistant Professor of Neurology
Department of Neurology

Matthew Tenser, ScM, MD
Assistant Professor
Department of Neurological Surgery

Amytis Towfighi, MD
Associate Professor of Neurology (Clinical Scholar)
Department of Neurology
Director, Neurological Services, Innovation and Quality LA County Department of Health Services
Associate Chief Medical Officer and Chair, Department of Neurology
Rancho Los Amigos National Rehabilitation Center

GUEST FACULTY

Nichole Bosson, MD, MPH, FAEMS
Assistant Medical Director, Los Angeles County EMS Agency
EMS Fellowship Director and Adjunct Faculty
Harbor-UCLA DEM
Assistant Professor of Clinical Medicine
David Geffen School of Medicine at UCLA
COURSE DESCRIPTION
This course presents an annual update of major advances in the treatment of cerebrovascular disease. The highlights for 2017 include reviews of clinical and basic science research about controversies in revascularization for acute ischemic stroke, such as mechanical thrombectomy beyond eight hours since last known well time, the use of general anesthesia during mechanical thrombectomy, microsurgical bypass for acute cerebral ischemia and defining training standards and competencies for neuroendovascular surgery. Additional presentations focus on topics in intracerebral hemorrhage management, such as how to reverse anticoagulation and when to reinstitute it. The afternoon session focuses on regionalization of stroke care delivery, with a keynote speech from the Los Angeles Emergency Medical Services agency. Multiple other topics are discussed, including the benefit of patent foramen ovale closure for stroke prevention. The program concludes with highlights of the most transformative and impactful studies recently presented at the International Stroke Conference and the European Stroke Organization Conference. The program is structured to be highly interactive with case presentations, panel discussion and question and answer sessions. Audience participation is encouraged.

EDUCATIONAL OBJECTIVES
By the end of the course, participants will be able to:
• Explain the impact of clinical trials for mechanical thrombectomy performed more than eight hours after symptom onset, general anesthesia during mechanical thrombectomy, patent foramen ovale closure to prevent stroke, resuming anticoagulation after intracerebral hemorrhage, routing of stroke patients to designated centers, and other topics.
• Describe the critiques and limitations of these studies.
• Compare medical versus surgical management of acute ischemic stroke, intracerebral hemorrhage and other cerebral disorders.
• Formulate evidence-based treatment algorithms for the management of patients with these conditions.

TARGET AUDIENCE
This course is intended for neurosurgeons, neurologists, emergency department physicians, primary care providers, nurses and other allied healthcare professionals.

ACCREDITATION STATEMENT
The Keck School of Medicine of the University of Southern California is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

CREDIT DESIGNATION
The Keck School of Medicine of the University of Southern California designates this live activity for a maximum of 6.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.
REGISTRATION

2017 Annual Cerebrovascular Disease Symposium: October 14, 2017

Tuition: Early bird registration closes October 9, 2017, noon, PDT
  Tuition includes continental breakfast and lunch.
  □ $100 MD, DO  □ $50 Nurses, Allied Health Professionals
  After October 9, 2017, noon, PDT register on site.
  $125 MD, DO  $75 Nurses, Allied Health Professionals
  Discounted tuition available to fellows, residents and students. For details please email Aruni Amar, MD at amar@usc.edu or Leslie Tarlow at ltarlow@usc.edu.

Cancellation: Registration cancellations must be received by the USC Office of CME (fax or email) by October 9, 2017, 4:00 pm, PDT for a tuition refund to be issued. A $25 cancellation fee will be applied. In the event of course cancellation by conference organizers, all registration fees will be fully refunded. USC will not refund any travel costs incurred.

Location: Mayer Auditorium, 1st floor of the Keith Administration Building on the USC Health Sciences Campus: 1975 Zonal Avenue, Los Angeles, CA 90033.

Parking: Biggy Parking Structure (P8), 1354 Biggy Street at Zonal Avenue, Los Angeles, CA, 90033 on the USC Health Sciences Campus. $12.

Register: Mail: 1540 Alcazar Street, CHP 223, Los Angeles, CA 90033
  Online: www.usc.edu/cme, go to “Quick Links,” click on conference calendar.
  Phone: (323) 442-2555  Fax: 1 (888) 665-8650
  Email: usccme@usc.edu
  On site: October 14, Foyer of Mayer Auditorium: 1975 Zonal Avenue, LA, 90033

NAME__________________________________________ DEGREE______________

MEDICAL LICENSE# __________________________________________

TELEPHONE ________________________________ FAX ____________________

ADDRESS____________________________________________________

CITY ________________________________ STATE ______ ZIP CODE _________

SPECIALTY ________________________________

EMAIL ADDRESS* ____________________________________________

INSTITUTIONAL AFFILIATION ____________________________________

SPECIAL DIETARY OR PHYSICAL NEEDS __________________________

* Registration confirmation and event reminder will be emailed.

METHOD OF PAYMENT:
  □ Check (Payable to USC)  □ Credit Card (Visa, Mastercard or American Express)
  No cash payment accepted.

Credit Card # ________________________________

Expiration Date ____________________________ Three digit security code on back of card __________

Authorized Signature ____________________ Amount $ __________
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