The UCLA Stroke Center and Neurovascular Program present:

UCLA BRAIN ATTACK! '10
A State-of-the-Art Symposium on Stroke Management

Featuring:

THE TIME IS NOW:
Saving Brains with Hypothermia after Cardiac Arrest

The Next Great Collaboration for Emergency Medicine and Neurology

Saturday, May 22, 2010  Beverly Hills Hotel  Los Angeles, California

Guest Speaker: Stephan Mayer, MD
Professor of Neurology and Neurological Surgery and Director of Neurological ICU
Columbia University, New York, New York

UCLA Faculty Course Directors:

David Alexander, MD
Director, Neurological Rehabilitation and Research Unit, Department of Neurology

Neil Martin, MD
Chair, Department of Neurosurgery

Jeffrey Saver, MD
Director, Stroke Neurology, Department of Neurology

Sid Starkman, MD
Director, Emergency Neurology, Departments of Emergency Medicine and Neurology

Paul Vespa, MD, FCCM
Director, Neurocritical Care, Departments of Neurosurgery and Neurology

Fernando Viñuela, MD
Director, Division of Interventional Neuroradiology

Sponsored by:

In association with:

American Heart Association
American Stroke Association
National Stroke Association
Saturday, May 22

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:15</td>
<td>Registration and Continental Breakfast</td>
<td></td>
</tr>
<tr>
<td>8:00</td>
<td>Opening remarks</td>
<td>J. Mazziotta, MD, PhD</td>
</tr>
<tr>
<td></td>
<td><strong>STROKE PREVENTION</strong></td>
<td></td>
</tr>
<tr>
<td>8:05</td>
<td>Imaging Brain and Vessels in Stroke and Cardiac Arrest</td>
<td>P. Villablanca, MD</td>
</tr>
<tr>
<td>8:35</td>
<td>Atrial Fibrillation – New Drugs and New Devices</td>
<td>N. Boyle, MD</td>
</tr>
<tr>
<td>9:05</td>
<td>Neurovascular Angioplasty and Stenting: Current Issues</td>
<td>G. Duckwiler, MD</td>
</tr>
<tr>
<td>9:35</td>
<td>Surgical Revascularization of the Human Brain</td>
<td>N. Martin, MD</td>
</tr>
<tr>
<td>10:05</td>
<td><strong>Break</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>ACUTE ISCHEMIC STROKE</strong></td>
<td></td>
</tr>
<tr>
<td>10:30</td>
<td>TIAs: Rapid Evaluation, Rapid Treatment</td>
<td>D. Liebeskind, MD</td>
</tr>
<tr>
<td>11:00</td>
<td>Drug Device Recanalization Therapies for Acute Brain Ischemia</td>
<td>R. Jahan, MD</td>
</tr>
<tr>
<td>11:30</td>
<td>TeleStroke: Emergency Stroke Consultations by Telemedicine</td>
<td>L. Ali, MD</td>
</tr>
<tr>
<td>12:00</td>
<td><strong>Lunch</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>INNOVATIVE TECHNOLOGY</strong></td>
<td></td>
</tr>
<tr>
<td>1:00</td>
<td>Saving the Brain in Cardiac Resuscitation: Hypothermia and the Stroke Community</td>
<td>S. Mayer, MD</td>
</tr>
<tr>
<td>1:45</td>
<td>Moderator</td>
<td>M. Morgan, MD</td>
</tr>
<tr>
<td></td>
<td><strong>ENDOVASCULAR MANAGEMENT</strong></td>
<td></td>
</tr>
<tr>
<td>2:00</td>
<td>Cerebral Aneurysms: Endovascular Management</td>
<td>F. Viñuela, MD</td>
</tr>
<tr>
<td>2:30</td>
<td>Intracerebral Hemorrhage: Minimally Invasive Surgical Therapies</td>
<td>J. Frazee, MD</td>
</tr>
<tr>
<td>3:00</td>
<td><strong>Break</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>NEUROREHABILITATION</strong></td>
<td></td>
</tr>
<tr>
<td>3:30</td>
<td>Recent Clinical Trial Results in Stroke Rehabilitation</td>
<td>B. Dobkin, MD</td>
</tr>
<tr>
<td></td>
<td><strong>STROKE SYSTEMS</strong></td>
<td></td>
</tr>
<tr>
<td>4:00</td>
<td>Stroke Centers and Regionalization of Acute Stroke Care: Early Success and Future Prospects</td>
<td>J. Saver, MD</td>
</tr>
<tr>
<td></td>
<td>Closing</td>
<td></td>
</tr>
</tbody>
</table>
At the conclusion of this program participants should be able to:

- Discuss available and emerging treatment options for cerebrovascular diseases
- State the utility of evolving imaging techniques in the diagnosis, treatment, and management of cerebrovascular diseases
- Describe recent developments in stroke prevention strategies

**TARGET AUDIENCE**

*Neurologists, Neurosurgeons, Interventional Neuroradiologists, Emergency Physicians, Family Practice Physicians, Internists, and other health care professionals who want to enhance their knowledge of the management of patients with cerebrovascular diseases.*

**UCLA FACULTY**

**Latisha Katie Ali, MD**
Assistant Professor
Neurology

**Noel Boyle, MD, PhD**
Professor of Medicine
Director, Cardiac Electrophysiology Lab

**Bruce H. Dobkin, MD, FANA, FRCP**
Professor of Neurology
Director, NeuroRehabilitation & Research Program

**Gary Duckwiler, MD**
Professor
Division of Interventional Neuroradiology

**John Frazee, MD**
Clinical Professor
Department of Neurosurgery
Chief, Neurosurgery Section
West Los Angeles VA Medical Center

**Reza Jahan, MD**
Assistant Professor
Division of Interventional Neuroradiology

**David S. Liebeskind, MD**
Associate Professor
Neurology Director, Stroke Imaging
Director, UCLA Vascular Neurology Residency Program
Associate Neurology Director, UCLA Stroke Center

**Neil Martin, MD**
Professor
Chair, Department of Neurosurgery

**John Mazziotta, MD, PhD**
Chair, Department of Neurology

**Marshall Morgan, MD**
Professor of Medicine
Director, Emergency Medicine Center
Chief of Staff, UCLA Medical Center

**Jeffrey Saver, MD**
Professor of Neurology
Director of Stroke Neurology
Director of UCLA Stroke Unit

**J. Pablo Villablanca, MD**
Professor of Radiology
Chief, Diagnostic Neuroradiology
Medical Director of MRI
Director, Clinical Image Processing Laboratory

**Fernando Viñuela, MD**
Professor
Department of Radiological Sciences
Director, Division of Interventional Neuroradiology
ISCHEMIC STROKE:
Thrombolysis and Emergency Treatment, Prevention and Rehabilitation

The UCLA Stroke Center presents its annual Brain Attack symposium to review the practical, clinical aspects of stroke prevention, diagnosis, and treatment. The course will cover stroke risk factors, diagnostic testing, and medical and interventional therapy.

Intravenous tPA is currently the only approved therapy for treatment of acute ischemic stroke. The results of recent studies suggest that neurointerventional techniques of intra-arterial mechanical and/or pharmacologic thrombolysis can be beneficial up to 8 hours after symptom onset in most patients, and beyond 8 hours in select patients. A highly coordinated team approach is required to provide these treatments safely and effectively.

Neuroimaging techniques are playing an increasingly important role in the evaluation of stroke patients. Faculty will provide an in-depth discussion of innovative MR and CT techniques.

The UCLA Stroke Center

The UCLA Stroke Center has launched a comprehensive treatment and clinical trials program for patients with cerebrovascular disorders. The UCLA Stroke Center, the first Joint Commission certified primary stroke center in Los Angeles County, provides multidisciplinary care for patients with stroke and kindred disorders including prevention, acute brain rescue, interventional neuroradiological and surgical therapy, and multimodal rehabilitation. The UCLA Stroke Center’s treatment approach includes emergency physicians, stroke neurologists, vascular neurosurgeons, vascular surgeons, diagnostic and interventional neuroradiologists, and rehabilitation physicians.

Acute Treatment: For patients with new onset stroke symptoms, a “Brain Attack” rapid care program provides:
- immediate evaluation by emergency physicians and neurologists
- CT / MRI scan within minutes of emergency department arrival
- prompt neurovascular intensive/intermediate level care
- trials of novel therapies for ischemic and hemorrhagic stroke, and acute interventional and surgical therapies.

Stroke in Children and Young Adults: Experts in pediatric neurology, neurosurgery, interventional and diagnostic neuroradiology and stroke neurology work together at the UCLA Stroke Center to provide comprehensive evaluation and treatment for pediatric and young adult patients with cerebrovascular disorders including moyamoya syndrome, sickle cell anemia, hyper-coagulable states, cardioembolic stroke, arteriovenous malformations and aneurysms.

Prevention: The Stroke Clinic provides comprehensive evaluation and treatment recommendations for individuals at increased risk for ischemic and hemorrhagic stroke, including those with atrial fibrillation, carotid artery stenosis, transient ischemic attacks and newly diagnosed unruptured aneurysms or vascular malformations.

Carotid Endarterectomy: Microneurosurgical endarterectomy, with intraoperative brain monitoring, is available for asymptomatic and symptomatic carotid artery stenosis.

Cerebral and Carotid Angioplasty: UCLA provides angioplasty for selected patients with intracranial and extracranial carotid or vertebrobasilar stenoses. UCLA is a center in the NIH Sammpris trial.

Thrombolysis: For patients eligible to receive intravenous tPA, thrombolysis is rapidly administered. In addition, interventional neuroradiologists are available around the clock to deliver, for selected patients, endovascular or intra-arterial pharmacologic and mechanical thrombolysis.

NIH Studies: The UCLA Stroke Center is an NIH-designated Specialized Program of Translational Research in Acute Stroke (SPOTRIAS), one of only eight such designated Centers in the country. NIH-funded trials for which UCLA is currently recruiting patients include studies of EC-IC bypass in carotid occlusion (COSS), mechanical embolectomy in acute stroke (MR RESCUE), paramedic-initiated magnesium neuroprotection for acute stroke (FAST-MAG), and IV t-PA compared to IVt-PA plus IA therapy (IMS III).

Rehabilitation: The inpatient Neurologic Rehabilitation and Research Unit and complementary outpatient rehabilitation facilities provide state-of-the-art care to maximize recovery for patients with stroke.

UCLA Stroke Hotline for Acute Cases: 1-877-DrStroke (1-877-377-8765)
Stroke Neurology: jsaver@ucla.edu or 310-825-5482
Vascular Neurosurgery: neilmartin@mednet.ucla.edu or 310-267-9449
Inpatient Rehabilitation and Research Unit: 310-794-6556
Neurosurgery Clinic: 310-794-1572 (outpatient)
Emergency Neurology: starkman@ucla.edu or 310-794-0594
UCLA Stroke Center: www.stroke.ucla.edu
UCLA Stroke Protect: www.strokeprotect.mednet.ucla.edu
UCLA Telestroke: www.telestroke.ucla.edu
The UCLA Neurovascular Program

The UCLA Neurovascular Program has developed management protocols for the diagnosis and treatment of cerebrovascular disorders which incorporate recent developments in stroke neurology, microneurosurgery, diagnostic and interventional neuroradiology, stereotactic radiosurgery, neuroanesthesiology, and critical care. The members of the UCLA Neurovascular team have worked cooperatively since 1986 with all of the management components available on-site at UCLA, allowing for efficient coordination of the various techniques.

Neurovascular Disorders Treated at UCLA:

**Intracranial Aneurysms**
Ruptured intracranial aneurysms may be treated either surgically or by endovascular technique. Postoperatively, transcranial Doppler and cerebral blood flow studies are available to assess for the development of vasospasm. Severe, medically refractory vasospasm is treated using balloon dilation angioplasty and/or pharmacologic intra-arterial infusion, performed by the interventional neuroradiology team.

Giant and complex aneurysms often require combined treatment using endovascular techniques in conjunction with extracranial-intracranial arterial bypass, or surgery under hypothermic circulatory arrest.

**Arteriovenous Malformations (AVMs)**
The Neurovascular Program has extensive experience in the management of large AVMs in children and adults, which are generally treated with embolization followed by microneurosurgical resection. Functional brain mapping for surgical planning is a critical component of management of AVMs. Deep and critically located AVMs are treated with stereotactic radiosurgery which is combined with embolization in larger lesions. Dural arteriovenous malformations are usually treated definitively by embolization alone, but in some complex cases, surgery or combined techniques are necessary. Spinal AVMs are treated by microsurgical excision, endovascular therapy, or most commonly, a combination of the two techniques.

**Cavernous Angiomas of the Brain, Brain Stem and Spinal Cord**
Cavernous angiomas are generally treated by microsurgical excision when they have caused significant symptoms. Lesions of the brain stem and spinal cord can now be treated successfully using microneurosurgical techniques, usually in combination with intraoperative electrophysiologic monitoring.

**Vein of Galen Malformations**
Transarterial and transvenous endovascular approaches are employed to reduce flow through the fistula, combined in some cases with neurosurgical treatment.

**UCLA Medical Center Facilities:**

**Stroke Unit**
UCLA Medical Center is one of the first dedicated Stroke Treatment Units in the nation that offers intermediate care designed for patients suffering from cerebral infarction, hemorrhage or other cerebrovascular diseases.

**UCLA Neurocritical Care**
The UCLA Neurocritical Care program is an internationally acclaimed center of excellence in patient care, training, and research. The 24-bed Singleton Neuro-ICU features numerous state-of-the-art technologies including continuous EEG monitoring, cerebral microdialysis, brain oximetry, transcranial Doppler, the world’s first ICU Robot (InTouch Health) O, and a comprehensive ICU Supercomputing System.

**Neurologic Rehabilitation and Research Unit**
The NRRU provides acute rehabilitation during the initial time of complex medical and neurological recovery post-stroke with the goal of reducing the impairments and disability associated with stroke and maximizing recovery.

**UCLA Clinical Image Processing Laboratory:**
The laboratory is equipped with a full spectrum of 3D, image fusion, and post processing software for cerebrovascular structural and perfusion study analysis.

**Neurosurgical Operating Rooms**
The neurosurgical operating rooms at UCLA, which accommodate more than 1200 cases annually, include video systems for viewing microsurgical procedures, electrophysiologic equipment for brain monitoring, intraoperative angiography, and a frameless stereotactic imaging workstation (BrainLAB).

**UCLA Cerebral Blood Flow Laboratory (Clinical)**
This facility provides comprehensive transcranial Doppler evaluations and cerebral blood flow testing on inpatients and outpatients.

**Interventional Neuroradiology Suites**
The interventional neuroradiology suites are equipped with the latest digital equipment, including 3-D rotational angiography designated for the performance of endovascular procedures. More than 400 such procedures are performed annually at UCLA.

**Stereotactic Radiosurgery**
The stereotactic radiosurgery section at UCLA utilizes state-of-the-art instrumentation for the treatment of vascular malformations of the brain. This multidisciplinary effort of neurosurgeons, physicists, radiologists, and radiation oncologists is planned on a three-dimensional and multiplanar computerized model using high resolution brain mapping imaging techniques.
Selected Advances in Stroke Care and Research from the UCLA Stroke Center

- **First device therapy for acute ischemic stroke**
  - MERCI Retriever
  - Invented at UCLA

- **Leading device therapies for cerebral aneurysms**
  - Guglielmi detachable coil, Matrix coil
  - Invented at UCLA

- **Leading catheter therapy for intracranial arteriovenous malformations and fistulae**
  - Onyx as liquid embolic agent for intracranial arteriovenous malformations and fistulae
  - Developed at UCLA

- **First MRI demonstration of successful reversal of advanced stroke injury in humans**

- **First validated instrument for paramedic recognition of stroke**
  - Los Angeles Prehospital Stroke Screen (LAPSS)

- **First prehospital neuroprotective treatment of stroke trial**
  - Field Administration of Stroke Therapy - Magnesium (FAST-MAG)

- **First stroke device studied utilizing FDA approved exception from informed consent under emergency circumstances**

- **First clinical cellphone PACS system for remote review of CT and MRI scans in acute stroke**
  - Developed at UCLA

- **First US multicenter trial of endoscopic treatment for acute intracerebral hemorrhage**

- **First routine use of intraoperative digital subtraction ANGIOGRAPHY for evaluation after surgical aneurysm and AVM treatment**

- **First Neuro ICU-adjacent comprehensive stroke imaging center with CT, PET, 3T MRI**

- **First ICU and ED robot for remote monitoring of stroke patients**

- **First cerebral blood flow laboratory to use bedside xenon CBF studies and TCD for stroke critical care and research**

- **First clinical information system with acute stroke management dashboard**

- **First to deploy write-once, write-everywhere stroke note for clinical documentation and automated quality and research database completion**

- **First systematic secondary prevention program for cerebral atherosclerosis**
  - Preventing Recurrence of Thrombo-embolic Events through Co-ordinated Treatment (Stroke PROTECT Program)

- **First accredited undergraduate program for Student Stroke Research**
  - UCLA Student Stroke Team

- **First accredited undergraduate program for Stroke Community Education and Research**
  - UCLA Stroke Force

- **First confirmation that stroke diagnosis in the field by paramedics and neurologists by cell phone is highly accurate**
  - Field Administration of Stroke Therapy - Magnesium (FAST-MAG)
**ENROLLMENT** - *Extremely Limited.*

**EARLY ENROLLMENT IS ADVISED**

We accept MasterCard, Visa, or Discover.

**By Phone:** Call (310) 794-2620.

**TUITION**

Includes course registration, syllabus, continental breakfast, break refreshments, and lunch.

- **$150** Early Enrollment
- **$175** (After May 5th)
- **$110** UC Faculty/Staff
- **Free** Los Angeles County FAST-MAG Physician Investigators (Tuition is covered by FAST-MAG Grant.)

**LOCATION**

**Beverly Hills Hotel**

9641 Sunset Boulevard
Beverly Hills, CA 90210

(see next page for map and directions)

**PARKING**

*Valet Parking is $12 for the event.*

**ACCOMMODATIONS**

Reservations at the Beverly Hills Hotel are subject to availability. Early reservations are suggested.

Mention the **UCLA Brain Attack! ‘10 Symposium** to inquire about the availability of a special conference rate.

For reservations, please call the Beverly Hills Hotel directly: 310-276-2251.

**ACCREDITATION**

The Office of Continuing Medical Education, David Geffen School of Medicine at UCLA is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Office of Continuing Medical Education, David Geffen School of Medicine at UCLA designates this educational activity for a maximum of **6.5 AMA PRA Category 1 Credits™**. Physicians should only claim credit commensurate with the extent of their participation in the activity.

**Disclosure**

The FDA has issued a concept paper which classifies commercial support of scientific and educational programs as promotional unless it can be affirmed that the program is "truly independent" and free of commercial influence. In addition to independence, the FDA requires that non-promotional, commercially supported education be objective, balanced, and scientifically rigorous. The policy further states that all potential conflicts of interest of the CME staff and faculty be fully disclosed to the program’s participants. In addition, Accreditation Council for Continuing Medical Education policy now mandates that the provider adequately manages all identified potential conflicts of interest prior to the program. We, at UCLA fully endorse the letter and spirit of these concepts.

**Refunds**

Cancellations must be received in writing by May 5, 2010, and will be subject to a $50 processing fee. No refunds will be given after that date. If, for any reason, the course must be canceled, discontinued, or rescheduled by the Office of Continuing Medical Education, a full refund will be provided. You may fax your refund request to 310-794-2624.

**FOR ADDITIONAL INFORMATION**

Contact the Office of Continuing Medical Education, David Geffen School of Medicine at UCLA, Brain Attack! ‘10, 10920 Wilshire Boulevard, Suite 1060, Los Angeles, CA 90024-6512 Telephone: 310-794-2620 E-Mail: eayala@mednet.ucla.edu.
**Beverly Hills Hotel**  
9641 Sunset Boulevard  
Beverly Hills, CA 90210  
*(310) 276-2251*

Located on world-famous Sunset Boulevard, on 12 acres in the center of Beverly Hills, The Beverly Hills Hotel is surrounded by lush tropical gardens, exotic flowers, and private walkways, which offer privacy and tranquillity in a true residential setting.

**DIRECTIONS**

*From Los Angeles International (LAX)*

- Travel east on Century Boulevard to the 405 N  
- Take the 405 North to Sunset Boulevard  
- Exit at Sunset Boulevard  
- Turn right, traveling east for four miles  
- The Beverly Hills Hotel is on the left  
- Turn left at Crescent Drive into the driveway

**PARKING**

Valet Parking is $12 for the event.