WHO SHOULD ATTEND
Neurosurgeons, nurses, residents and other healthcare providers with an interest in the application of best practices in the evaluation and appropriate treatment of patients with aneurysms, Moyamoya disease and other causes of stroke.

SYMPOSIUM GOAL
After participating in this symposium participants will be able to:
Discuss the role of extracranial-intracranial bypass techniques as well as their relevance in the treatment of occlusive cerebrovascular disease.

- Describe the benefits of stem cell transplants and treatment in neurodegenerative diseases.
- Cite the newest surgical treatments for complex epilepsy.
- Evaluate the use of different strategies for the endovascular treatment of stroke.

ACCREDITATION
St. Joseph’s Hospital and Medical Center is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. St. Joseph’s Hospital and Medical Center designates this live activity for a maximum of 20 AMA PRA Category 1 Credits™. Physicians should claim only credit commensurate with the extent of their participation in the activity.
“Surgical Treatment of Complex Epilepsy” MEG Guided Epilepsy Surgery
“A Breakthrough for Non-Lesional, Non-Temporal Epilepsy”
Brain Mapping for Epilepsy
Sources of Stem Cells for Transplantation and Cell-Based Therapies
Stem Cell Treatment in Neurodegeneration
Kris A. Smith, MD
David Treiman, MD
Robert Bowser, PhD
Jeremy Shefner, MD, PhD

10:00 AM Refreshment Break

10:30 AM - 12:00 PM
Lessons from the Idiopathic Intracranial Hypertension Treatment Trial
Stenting for Pseudotumor Cerebri: Is It Time for a Randomized Trial?
Current State of Endovascular Intervention in Stroke
Emerging Stroke Therapies
Discussion
Deborah Friedman, MD, MPH, FAAN
Felipe C. Albuquerque, MD
Cameron McDougall, MD
Yazan J. Alderazi, MD

12:00 PM Lunch

1:00 - 3:00 PM
What Do We Get From Functional Recording During DBS?
DBS for Alzheimer’s: Current Evidence
Epilepsy in Children
Spinal Biomechanics for the Clinician
Cortical Screws: A Higher Level of Thinking
Modern Neurosurgery Education: The CNS Nexus Initiative
Holly Shill, MD
Francisco Ponce, MD
P. David Adelson, MD
Brian Kelly, PhD
Taro Kaibara, MD
Peter Nakaji, MD

3:00 PM Refreshment Break

3:30 - 5:00 PM Neurosurgery Program
Agony & Ecstasy: Rare and Challenging Intracranial Tumors
Revisiting the Transpalperbral Approach: A Cosmetic Alternative for the Modified OZ Crani
Best Practices for Acoustic Neuromas
High-Grade Spondylolisthesis: When to Reduce It
Discussion
Matthew O. Hebb, MD, PhD
Jonathan Russin, MD
Randall W. Porter, MD
U. Kumar Kakarla, MD

3:30 - 5:00 PM Neurology Program
Use of Ultrasound in Peripheral Nerve & Muscle Disease
New Imaging Modalities for Neuro Degenerative Diseases
Erik Ortega, MD
TBD

5:00 PM Adjournment

6:30 PM Alumni and Attendee Dinner at the Home of Dr. and Mrs. Spetzler

41st ANNUAL BARROW NEUROSCIENCE SYMPOSIUM - Concurrent Programs | Friday | May 15, 2015

7:00 AM Neurosurgery Program Registration and Continental Breakfast

7:15 - 9:30 AM
Resident Case Presentations
3-D Case Presentations
Robert F. Spetzler, MD

9:30 AM Refreshment Break

10:00 AM - 12:00 PM
Agony & Ecstasy
Peripheral Nerve Surgery
Sagittal Spinal Balance – A French Conspiracy?
The Sagittal Balance Does Not Influence the One-Year Clinical Outcome of Patients with Lumbar Spinal Stenosis After Microsurgical Decompression
Current and Past C1-C2 Fixation
Advances in the Treatment of Acute Spinal Cord Injury
Multicenter Perspective RCT to Evaluate the Effectiveness of a Percutaneous Interspinous Device
Complete Spondylectomy for Resection of Spinal Tumors
Andrew F. Ducruet, MD
Mark Mahan, MD
Prof. Dr. Claudius Thomé
Peter Vajkoczy, MD
Volker K.H. Sonntag, MD
Nicholas Theodore, MD
Bernhard Meyer, MD
Curtis A. Dickman, MD

12:00 PM Lunch

7:00 AM Neurology Program Registration and Continental Breakfast

8:00 - 10:15 AM
Spinal Muscular Atrophy: A Treatable Disease?
MS: New and Emerging Therapies in 2015
A Review of Neurootology
Jeremy M. Shefner, MD, PhD
Jonathan L. Carter, MD
Terry Fife, MD

10:15 AM Refreshment Break

10:30 AM - 12:00 PM
Vaccines and Other Therapies for Alzheimer’s Disease
Markers and Treatments for Inflammatory Neuropathies
William J. Burke, MD
Suraj Muley, MD

12:00 PM Lunch and Adjournment
### Registration Form

**41st Annual Barrow Neuroscience Symposium | May 12-15, 2015**

Register Early! Take advantage of discounted registration fees. For more information: www.thebarrow.org

<table>
<thead>
<tr>
<th>Event</th>
<th>Early Bird Registration</th>
<th>Pre and Onsite Registration</th>
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</thead>
<tbody>
<tr>
<td><em>Pre-Symposium Extracranial and Intracranial Workshop</em> <em>(Limited to 20 participants)</em></td>
<td><strong>Physician</strong> $600</td>
<td><strong>Physician</strong> $350</td>
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<td></td>
<td><strong>Resident / Fellow</strong> $200</td>
<td><strong>Resident / Fellow</strong> $125</td>
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<tr>
<td><strong>Barrow Neuroscience Symposium</strong></td>
<td><strong>Physician</strong> $350</td>
<td><strong>Physician</strong> $350</td>
</tr>
<tr>
<td>*Wednesday - Friday</td>
<td>May 13-15, 2015*</td>
<td><strong>Resident / Fellow</strong> $125</td>
</tr>
<tr>
<td></td>
<td><strong>NP / PA / CNRN</strong> $250</td>
<td><strong>NP / PA / CNRN</strong> $325</td>
</tr>
<tr>
<td><strong>BNI Alumni and Attendee Dinner</strong></td>
<td><strong>Alumni / Attendee</strong> $50</td>
<td><strong>Alumni / Attendee</strong> $50</td>
</tr>
</tbody>
</table>

**Mail or Fax your registration form and payment to:**

Lindsey Possehl | Conference Planning Office
Barrow Neurological Institute | 350 West Thomas Road | Phoenix, Arizona 85013 USA | Fax: 602.294.5028

Prefix (Dr., Mr., Ms.) Name__________________________  Degree__________________________
Professional Title (Director, Neurosurgeon, etc.)__________________________
Company / Institution____________________________________________________________________________________________
Address____________________________________________________   City___________________  State______   Zip_____________
Telephone_________________________________________________   Fax__________________________________________________
Email Address____________________________________________________________________________________________________

- [ ] Check or money order payable to: St. Joseph’s Hospital and Medical Center (in US funds drawn on a US bank ONLY) A $20 charge applies to checks returned for insufficient funds.
- [ ] Visa  [ ] MasterCard  [ ] American Express
Card Number__________________________________________  Expiration Date_______________________
Cardholder’s Name (if corporate card, give company name)__________________________  Cardholder’s Signature and Billing Zip Code

**Refund Policy:** A refund, less $75.00 processing fee, will be made for cancellations submitted prior to April 2, 2015. No refunds will be made thereafter. Barrow reserves the right to cancel or change any program for due causes. Cancellation of a program by Barrow will result in a full refund of tuition. Barrow and SJHMC are not responsible for the refund of travel or hotel expenses under any circumstance.

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**Shopping**

There are many venues to shop in Phoenix, including the Biltmore Fashion Park, Kierland Commons, Desert Ridge Marketplace, Scottsdale Fashion Square, Chandler Fashion Center, The Borgata of Scottsdale and endless smaller boutiques throughout the state.

**Dining**

Phoenix is home to some of the world’s finest chefs and the best restaurants offering your taste buds the opportunity to try everything from Thai to Mexican to traditional American cuisine. To learn more about the dining options you will have during your stay in Phoenix, visit www.azcentral.com/ent/dining.

**Visiting Arizona**

Dress for all sessions is business casual. Temperatures in Phoenix in May average from 92 degrees during the day to 60 degrees at night. Please keep in mind that meeting room temperatures vary, so wear layered clothing to ensure your comfort.