

39TH ANNUAL

BARROW NEUROLOGICAL INSTITUTE NEUROSURGERY SYMPOSIUM

BARROW
Neurological Institute®

St. Joseph's Hospital and Medical Center

2013

TUESDAY - FRIDAY
MAY 14-17

REGISTRATION &
AGENDA INSIDE!

SYMPOSIUM LOCATION:

**Barrow
Neurological
Institute**

**Leonard Goldman
Auditorium**

350 West Thomas Road
Phoenix, Arizona



BARROW UPDATE WINTER 2012

U.S. NEWS & WORLD REPORT NAMES BARROW ONE OF THE NATION'S BEST

Barrow Neurological Institute at St. Joseph's Hospital and Medical Center is known throughout the world for providing cutting-edge treatment for people with brain and spine diseases, disorders and injuries; medical education and innovative research. This year, Barrow was again named one of the best in the nation by *U.S. News & World Report*. Barrow was ranked 13th nationally.

U.S. News & World Report ranks hospitals in 16 specialties and only approximately 150 U.S. hospitals scored high enough to make this year's nationally-ranked list. The magazine selects hospitals based on a variety of criteria including reputation, mortality rates, patient volumes, and key technologies.

BARROW NAMES DIRECTOR OF NEUROLOGY RESEARCH

Robert Bowser, PhD, has been named as the Director of Neurology Research and the Neurodegenerative Disorders Center at Barrow.

Dr. Bowser is a graduate of Carnegie Mellon University, obtained his PhD in Cell Biology at Yale University, and did postdoctoral training at Albert Einstein College of Medicine. He was on the faculty at the University of Pittsburgh before joining Barrow in 2011, where he has served as Director of the Barrow Amyotrophic Lateral Sclerosis (ALS) Research Center.

In his new role, he will oversee laboratory research programs currently centered in Barrow's Division of Neurology.

IMMUNE SYSTEM AND MALIGNANT BRAIN TUMORS BREAKTHROUGH

In what could be a breakthrough in the treatment of deadly brain tumors, a team of researchers from Barrow Neurological Institute and Arizona State University has discovered that the immune system reacts differently to different types of brain tissue, shedding light on why cancerous brain tumors are so difficult to treat.

The large, two-part study, led by Barrow research fellow Sergiy Kushchayev, MD under the guidance of Mark Preul, MD, Director of Neurosurgery Research, was published in *Cancer Management and Research*. The study explores the effects of immunotherapy on malignant gliomas, cancerous brain tumors that typically have a poor prognosis.

ROCK STAR DEDICATES ROOM AT BARROW

Bret Michaels, rock star and former patient at Barrow, recently opened the Bret Michael's Hospitality and Music Room inside the hospital. The room, which has been under construction for nearly a year, is located near patient rooms and features relaxation areas for patients and their families.

In 2010, Michaels was rushed to Barrow after suffering from a subarachnoid hemorrhage. The hemorrhage left the musician in critical condition and he remained hospitalized for the duration of his treatment.

AQUATIC CENTER OPENS TO OFFER REHABILITATION SERVICES

A new aquatic center has opened at Barrow, providing aquatic therapy and rounding out Barrow's comprehensive rehabilitation program. The Ashlyn Dyer Aquatic Center is a licensed hospital-based outpatient clinic that has the ability to serve a variety of patients. In the water, patients can return to normalized activity to build strength and work on resistance training. The Dyer family led the fundraising effort and provided the lead gift to name the center after their daughter, Ashlyn Dyer, who passed away from a traumatic brain injury in 2006.

39TH ANNUAL BARROW NEUROSURGERY SYMPOSIUM

SYMPOSIUM GOAL

BNI Symposium participants will demonstrate competence and skill in the application of current neurosurgery best practices in the evaluation and appropriate treatment of patients with aneurysms, Moyamoya disease and other causes of stroke.

EDUCATIONAL OBJECTIVES

1. Discuss the role of extracranial-intracranial bypass techniques as well as their relevance in the treatment of occlusive cerebrovascular disease.
2. Apply the newest advances in fluorescence applications to neurosurgery cases.
3. Cite the newest intraoperative imaging techniques and apply them to brain tumor surgery.
4. Evaluate the use of different strategies of treating spinal vascular lesions.

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.

DESIGNATION

St. Joseph's Hospital and Medical Center designates this live activity for a maximum of 23 *AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only credit commensurate with the extent of their participation in the activity.

DISCLOSURE POLICY

It is policy of SJHMC to ensure balance, independence, objectivity, and scientific rigor in all sponsored or jointly sponsored educational activities. Any individual who is in a position to control the content of the education activity including course or activity directors, planning committee members, staff, teachers, or authors of CME, must disclose all relevant financial relationships and the nature thereof that they or any member of their family have with any commercial interest(s). The ACCME describes relevant financial relationships as those in any amount occurring within the past 12 months that create a conflict of interest. Individuals who refuse to disclose will be disqualified from participation in the development, management, presentation, or evaluation of the CME activity. Detailed disclosure will be made in the activity handout materials.

AGENDA

TUESDAY, MAY 14, 2013: EC-IC COURSE – PART 1

1:00 pm	Registration	
1:30 pm	Welcome	Peter Nakaji, MD
1:35 pm	Overview of EC-IC Bypass	Robert F. Spetzler, MD
1:50 pm	Low-Flow Bypass Applications and Technique	Joseph M. Zabramski, MD
2:15 pm	Break	
2:30 pm	Hands On – Silastic Models and Turkey Wing Arteries	Course Faculty
5:30 pm	Adjourn	

WEDNESDAY, MAY 15, 2013: EC-IC COURSE – PART 2

7:30 am	Registration	
8:00 am	High-Flow Bypass Applications & Techniques	Peter Nakaji, MD
8:20 am	Physiology & Flow in Bypass	Sepideh Amin-Hanjani, MD
8:40 am	Bypass for Moyamoya Disease	John E. Wanebo, MD
9:00 am	Bypass Case Presentations	Nicholas C. Bambakidis, MD
9:15 am	Break	
9:30 am	Hands On – In Vivo Model	Course Faculty
12:00 pm	Adjourn	

WEDNESDAY, MAY 15, 2013

12:30 pm	Registration	
1:00 pm	Welcome	Robert F. Spetzler, MD
1:05 pm	Deep Brain Stimulation for Parkinson's Disease: Maximizing the Benefit	Francisco A. Ponce, MD
1:20 pm	Evaluation & Management of Brachial Plexus Injuries	P. David Adelson, MD
1:35 pm	Side Effects of Vagus Nerve Stimulation: Did your VNS Ruin Your Life?	Ruth Bristol, MD
1:50 pm	Discussion	
2:05 pm	Navigated Brain Stimulation in Eloquent Glioma Surgery	Bernhard Meyer, MD
2:20 pm	Moyamoya Disease: From Bed to Benchside and Back	Peter Vajkoczy, MD
2:35 pm	The Evolution of Direct & Indirect Revascularization to Treat Moyamoya Disease	John E. Wanebo, MD
2:50 pm	Discussion	
3:00 pm	Break	
3:30 pm	Intraoperative Imaging Technologies & Applications in Brain Tumor Surgery	Taro Kaibara, MD
3:45 pm	Comparison of Clinical Outcomes and Costs Associated with Minimally-Invasive Aneurysm Surgery vs. Endovascular Coiling of Unruptured Aneurysms	Michael Tymianski, MD
4:00 pm	Advances in Fluorescence Applications in Neurosurgery	Peter Nakaji, MD
4:15 pm	Discussion	
4:30 pm	Agony & Ecstasy	Francisco A. Ponce, MD
4:45 pm	Agony & Ecstasy	Joseph M. Zabramski, MD
5:00 pm	Adjourn	

WEDNESDAY, MAY 15, 2013: SONNTAG PAVILION LECTURE

5:00 pm	Welcome & Remarks	Robert F. Spetzler, MD
5:15 pm	Magic & the Brain	Stephen Macknik, PhD and Susana Martinez-Conde, PhD
6:15 pm	Dinner	

THURSDAY, MAY 16, 2013

7:00 am	Registration & Breakfast	
7:55 am	Welcome	Robert F. Spetzler, MD
8:00 am	Agony & Ecstasy	Sepideh Amin-Hanjani, MD
8:15 am	Does Endovascular Treatment of Intracranial Aneurysms Prevent Delayed Hemorrhage?	Cameron G. McDougall, MD
8:30 am	Management of Spinal Vascular Lesions	Robert F. Spetzler, MD
8:45 am	Discussion	
9:00 am	Natural History of Cavernous Malformations: Does Gender Play a Role?	Joseph M. Zabramski, MD
9:15 am	The Socioeconomics of Unruptured Aneurysm Treatment: Should Cost Make a Difference?	Nicholas C. Bambakidis, MD
9:30 am	Agony & Ecstasy	Mark Garrett, MD
9:45 am	Discussion	
10:00 am	Break	
10:30 am	The Endovascular Management of Carotid Body Tumors	Felipe C. Albuquerque, MD
10:45 am	Cerebral Veins: Friends or Foes?	Jacques J. Morcos, MD
11:00 am	Agony & Ecstasy	Peter Vajkoczy, MD
11:15 am	Discussion	
11:30 am	Agony & Ecstasy	Patrick Han, MD
11:45 am	Agony & Ecstasy	Bernhard Meyer, MD
12:00 pm	Lunch	
1:00 pm	Agony & Ecstasy	Sepideh Amin-Hanjani, MD

AGENDA continued

THURSDAY, MAY 16 (CONTINUED)

1:15 pm	Surgical Management of Herniated Thoracic Discs	Curtis A. Dickman, MD
1:30 pm	Adult Spinal Deformity	U. Kumar Kakarla, MD
1:45 pm	Discussion	
2:00 pm	Agony & Ecstasy: Acoustic Neuromas	Randall W. Porter, MD
2:15 pm	The Minimally Invasive TLIF Experience: A Review of 150 Consecutive Cases	Luis M. Tumialán, MD
2:30 pm	Spinal Surgery – The Good, The Bad & The Ugly	Nicholas Theodore, MD, FACS
2:45 pm	Discussion	
3:00 pm	Break	
3:30 pm	The Multimodality Treatment of Low Back Pain	Gregory L. Umphrey, MD
3:45 pm	Classification of Spinal AVMs: Part XII	Daniel L. Barrow, MD
4:00 pm	Decision Making for Revascularization Aided by NOVA QMRA	Carlos A. David, MD
4:15 pm	Discussion	
4:30 pm	Human Glioma Dissemination Through Stem Cell Corridors	Nader Sanai, MD
4:45 pm	A New Energy Modality to Improve Outcomes & Safe Resectability in Neurosurgery	Kim H. Manwaring, MD
5:00 pm	Adjourn	
6:30 pm – 10:00 pm Dinner at Dr. Spetzler's Home		

FRIDAY, MAY 17, 2013

7:15 am	Registration & Breakfast	
7:15 am	Resident Case Presentations	
8:30 am	3-D Case Presentations	Robert F. Spetzler, MD
9:30 am	Break	
9:45 am	Agony & Ecstasy	Matthew Hebb, MD
10:00 am	Sinonasal Morbidity & Quality of Life in Anterior Cranial Base Surgery	Andrew S. Little, MD
10:15 am	Discussion	
10:30 am	Intra-Operative MRI Laser Ablation: Valuable New Technology or Flash in the Pan?	Kris A. Smith, MD
10:45 am	CyberKnife Stereotactic Radiosurgery for Pituitary Tumors	William L. White, MD
11:00 am	Agony & Ecstasy: Extreme Lateral Intra-Body Fusion	Randall W. Porter, MD
11:15 am	Discussion	
11:30 am	Adjourn	

FACULTY

COURSE DIRECTORS

Peter Nakaji, MD
Director, Neurosurgery Residency Program
Barrow Neurological Institute

Robert F. Spetzler, MD
Director, Barrow Neurological Institute
J.N. Harber Chairman
of Neurological Surgery
Barrow Neurological Institute

Nicholas Theodore, MD, FACS
Medical Director
Neurosurgical Trauma Program
Chief, Spinal Surgery
Barrow Neurological Institute

BARROW NEUROLOGICAL INSTITUTE FACULTY

Felipe C. Albuquerque, MD

Curtis A. Dickman, MD
Mark Garrett, MD
Taro Kaibara, MD
U. Kumar Kakarla, MD
Andrews S. Little, MD
Stephen Macknik, PhD
Susana Martinez-Conde, PhD
Cameron G. McDougall, MD
Francisco A. Ponce, MD

Randall W. Porter, MD
Nader Sanai, MD
Kris A. Smith, MD
Luis M. Tumialán, MD
Gregory L. Umphrey, MD
John E. Wanebo, MD
William L. White, MD
Joseph M. Zabramski, MD

P. David Adelson, MD
Barrow Neurological Institute at Phoenix
Children's Hospital

Ruth Bristol, MD
Barrow Neurological Institute at Phoenix
Children's Hospital

GUEST FACULTY

Sepideh Amin-Hanjani, MD
University of Illinois, Chicago
Chicago, Illinois

Patrick Han, MD
St. John Neuroscience Institute
Tulsa, Oklahoma

Jacques J. Morcos, MD
University of Miami
Miller School of Medicine
Miami, Florida

Nicholas C. Bambakidis, MD
University Hospitals Case Medical Center
Cleveland, Ohio

Matthew Hebb, MD, PhD, FRCSC
Western University
London, Ontario, Canada

Michael Tymianski, MD, PhD, FRCSC
University of Toronto
Toronto, Ontario, Canada

Daniel L. Barrow, MD
Emory University School of Medicine
Atlanta, Georgia

Kim H. Manwaring, MD
Chief Medical Officer, Doman Surgical
Salt Lake City, Utah

Peter Vajkoczy, MD, PhD
Charite Universitätsmedizin Berlin
Berlin, Germany

Carlos A. David, MD
Lahey Clinic Medical Center
Burlington, Massachusetts

Bernhard Meyer, MD
Klinikum rechts de Isar
Technical University of Munich
Munich, Germany

REGISTRATION FORM

Name _____
 Email _____
 Institution _____
☐ MD/DO ☐ RN ☐ NP ☐ Resident/Fellow ☐ Other: _____
 Address _____
 City _____ State _____ Zip _____
 Business Phone _____ Fax _____

	Early Bird Registration Deadline 4/1/13	Late Registration After 4/1/13
BARROW NEUROSURGERY SYMPOSIUM		
Physicians	\$350	\$450
Residents/Fellows	\$125	\$150
NPs/PAs/CNRNs	\$250	\$325

BNI ALUMNI/ATTENDEE DINNER

Thursday, May 16, 2013 6:30 PM \$50 \$50

TUESDAY & WEDNESDAY, MAY 14-15, 2013 - EXTRACRANIAL & INTRACRANIAL WORKSHOP

Workshop limited to 20 participants

Physicians	\$600	\$675
Residents/Fellows	\$200	\$275

☐ I will be attending the Wednesday Evening Dinner: Magic & the Brain

On-line registration available at www.thebarrow.org

The target audience for the Symposium includes Neurosurgeons, Residents, Fellows and Neuroscience Nurses.

PAYMENT

☐ Check or money order payable to: St. Joseph's Hospital and Medical Center
 (A \$20 charge applies to checks returned for insufficient funds)

Please send check and completed registration form to:

Barrow Neurological Institute Conference Planning Office

Attn: Lindsey Belkin

350 W. Thomas Rd.

Phoenix, AZ 85013 USA

Inquires should be directed to the above address, by phone at 602-406-3067, by fax at 602-294-5028 or by email to lindsey.belkin@dignityhealth.org.

Refund Policy

A refund, less \$75.00 processing fee, will be made for cancellations prior to April 1, 2013. All refund requests must be submitted in writing by April 1, 2013. 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 St. Joseph's Hospital and Medical Center are not responsible for the refund of travel or hotel expenses under any circumstance.

39TH ANNUAL BARROW NEUROSURGERY SYMPOSIUM

VISITING ARIZONA

ACCESS YOUR COMPLIMENTARY CONCIERGE SERVICE TODAY.

From local hotel information and area recommendations to dining reservations and transportation arrangements, LesConcierge saves you valuable time so you can enjoy what's most important to you. Contact the Concierge at 602.406.4949, by email at concierges@dignityhealth.org.

DRESS

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.

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.

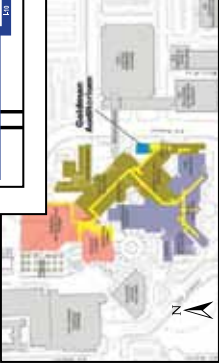
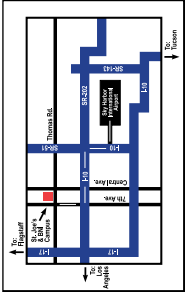
SHOPPING

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



**St. Joseph's Hospital
and Medical Center.**
A Dignity Health Member

St. Joseph's Hospital and Medical Center
Dignity Health Arizona
350 W. Thomas Rd.
Phoenix, AZ 85013



Leonard
Goldman
Auditorium
entrance is on
3rd Avenue.

Nonprofit Org.
U.S. Postage
PAID
Permit No. 685
Phoenix, Arizona