



MISSION

To advance the knowledge and practice of medicine in neuroscience through basic and clinical research, education of medical professionals, and innovation in clinical techniques and technology.

OVERVIEW

Barrow Neurological Institute at St. Joseph's Hospital and Medical Center is an internationally renowned medical center that offers care for people from throughout the world with brain and spine diseases, disorders and injuries. Robert Spetzler, MD, one of the world's leading cerebrovascular neurosurgeons, is the director of the institute. *U.S. News & World Report* routinely lists St. Joseph's as one of the top 10 best hospitals in the nation for neurological and neurosurgical care.

CENTERS, CLINICS AND SPECIALTY AREAS

Neurosurgery

- Acoustic Neuroma Center
- Craniofacial Center
- Functional and Stereotactic Neurosurgery
- Meningioma Center
- Normal Pressure Hydrocephalus Clinic
- Pituitary/Neuroendocrine Center
- Radiosurgery Center (Gamma Knife® & CyberKnife®)
- Skull Base Center
- Spine Center
- Vascular Center (Cerebrovascular & Endovascular Neurosurgery)

Neurology & Neuro Rehabilitation

- A.B. & Anne Robbs Stroke Center
- Alzheimer's Center
- Balance Center
- Barrow Resource for Acquired Injury to the Nervous System (B.R.A.I.N.S. Clinic)
- Center for Transitional Neuro-Rehabilitation
- Epilepsy Center
- Ina Levine Brain Tumor Center
- MDA/ALS Center
- Muhammad Ali Parkinson Center

- Bruce and Deborah Downey Neuro Rehabilitation Center
- Spinal Cord Wellness Clinic

Neuroscience Research Laboratories

- Neurosurgery
- NeuroImmunology
- Neuro-Oncology
- Neurobiology
- Neurochemistry
- Neurogenetics
- Pain Research
- Thermoregulation
- Epilepsy Research
- Visual Perception

FACTS

Admissions each year10,000

Neurosurgeries each year5,000

Barrow recently enhanced its standards of patient care with the addition of the Barrow Neuroscience Tower, a 430,000-square-foot tower that's dedicated to neurological and neurosurgical patients.

Faculty

Adult Neurosurgeons	19
Adult Neurologists	23
Neuro Radiologists	10
Neuro Anesthesiologists	12
Neuro Pathologists	2
Neuro Psychologists	8

MEDICAL EDUCATION

Post-Graduate Training

Neurosurgery Residents.....	25
Neurosurgery Fellows.....	6
Adult Neurology Residents	21
Neurology Fellows.....	11
Neuro Radiology Fellows	9
Neuro Psychology Residents	7

Barrow's Neuroscience Publications Office publishes more than 10,000 pages of academic material each year including the *Barrow Quarterly* and over 200 peer-reviewed journal articles, books and chapters written by Barrow physicians and scientists.

RESEARCH

Barrow actively participates in clinical and basic neuroscience research to further the prevention and treatment of brain, nerve and spinal cord diseases and injuries. The program emphasizes translational medical research that can be applied directly from bench to bedside.

Patients have the opportunity to participate in clinical research studies to receive the latest therapeutic treatment for a broad range of neurological disorders. More than 400 clinical trials are currently underway throughout the hospital.

As more clinical discoveries are made, the research conducted at Barrow is becoming more specialized. For example, researchers are placing a heavy emphasis on genetics, helping to identify the specific genes for conditions such as epilepsy and brain tumors. Such research promises lead to improved diagnoses and treatments.

COMMUNITY OUTREACH

Because brain and spinal cord injuries are among the most devastating and preventable injuries, Barrow's mission includes an extensive community outreach program dedicated to education and prevention. Barrow's programs reach thousands of children, adults and medical professionals each year by sponsoring educational programs and support groups on a variety of topics. These include:

- **Helmet Your Head**, a safety program that focuses on the prevention of traumatic brain injuries.
- **Oliver Otter**, a program that teaches children and adults the importance of following good water safety.
- **The Stroke Prevention Program**, which offers informative presentations and educational materials to increase awareness of the causes, signs and symptoms of stroke.
- **Support groups** for patients and families on a variety of neurological diseases and conditions.
- **The Scientific Enrichment Program for Students**, which offers a variety of opportunities for high school students to participate in and learn about research.
- **The Barrow Connection**, which provides resources for people with cognitive and physical disabilities to help them live active lives.

PEDIATRIC SERVICES

In 2011, Barrow at St. Joseph's united its pediatric program with Phoenix Children's Hospital.

BARROW NEUROLOGICAL FOUNDATION

Barrow Neurological Foundation is a non-profit support foundation dedicated to raising funds for research, medical education and clinical programs at Barrow Neurological Institute. For information on how you can contribute to Barrow, visit www.SupportBarrow.org or call the Foundation office at 602-406-3041. Gifts to Barrow Neurological Foundation are tax deductible as provided in 501(c)(3) of the Federal Tax Code.

Barrow Neurological Institute
350 W. Thomas Road
Phoenix, Arizona 85013
800-BARROW-1 (800-227-7691)
www.thebarrow.org

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