

# Neurosurgery



## Patient Referrals

### Neurosurgery

(602) 406-3181

### Transfer a Patient

1-844-BNI-XFER

(844-264-9337)

### More Information

[BarrowNeuro.org](http://BarrowNeuro.org)

## Barrow Second Opinion

Barrow Neurological Institute offers neurosurgical second opinions.

For more information visit [BarrowNeuro.org/SecondOpinion](http://BarrowNeuro.org/SecondOpinion)



The Department of Neurosurgery at Barrow Neurological Institute, chaired by Michael Lawton, MD, focuses on providing every patient with the most advanced neurosurgical medical care. Barrow's highly skilled and experienced neurosurgeons represent all subspecialties within the field of neurosurgery and perform more brain surgeries than any hospital in the United States.

Barrow neurosurgery patients have access to invaluable research and hundreds of clinical trials, enabling better treatment options, sooner. The Institute's surgeons have pioneered numerous procedures and techniques, such as the cardiac standstill procedure and thoracoscopic spine surgery. They have also made significant discoveries in neuroscience, including isolating the gene that causes the inherited form of cerebral cavernous malformations.

The neurosurgical team at Barrow is committed to disseminating the knowledge its team has built over the years through a steadfast pursuit of academic excellence and resident education.

## What We Treat:

- Acoustic Neuroma
- Aneurysms
- Arteriovenous Malformations
- Brachial Plexus Injuries
- Brain Tumors
- Carotid Artery Disease
- Cavernous Malformations
- Degenerative Spine Disease
- Epilepsy
- Hydrocephalus
- Intracranial Stenosis and Moyamoya Disease
- Meningioma
- Parkinson's Disease and Movement Disorders
- Peripheral Nerve Disorders
- Pituitary Tumors and Disorders
- Scoliosis and Spinal Deformities
- Spine Disorders
- Spinal Trauma
- Spinal Tumors
- Stroke
- Trigeminal Neuralgia

## Brain and Cerebrovascular Procedures:

- Aneurysm Clipping
- Asleep Deep Brain Stimulation (DBS)
- AVM Resection
- Bypass Surgery
- Carotid Angioplasty and Stenting
- Carotid Endarterectomy
- Craniocervical Junction Surgery
- CyberKnife Radiosurgery
- Endoscopic Cranial Surgery
- Endoscopic Transsphenoidal Pituitary Surgery
- Endovascular Neurosurgery
- Epilepsy Surgery
- Gamma Knife Radiosurgery
- Skull Base Surgery
- Stereotactic Laser Ablation

## Spine Procedures:

- Adult and Pediatric Scoliosis Surgery
- Minimally Invasive and Hybrid Scoliosis Correction
- Custom 3-D Printed Implants for Fusion Surgery
- Less-Invasive Spine Tumor Surgery
- Mini-Open Thoracic Herniated Disc Surgery
- Minimally Invasive Lateral Surgery
- Minimally Invasive Spine Surgery
- Navigation-Guided Spinal Procedures
- Robotic-Assisted Spine Surgery

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# Barrow Neurological Institute – Neurosurgeons



**Michael T. Lawton, MD**  
Aneurysms and Blood Vessel Disorders  
Arteriovenous Malformation  
Cavernous Malformation  
Acoustic Neuroma  
Skull Base Surgery



**Felipe Albuquerque, MD**  
Aneurysms and Blood Vessel Disorders  
Endovascular Neurosurgery  
Hereditary Hemorrhagic Telangiectasia  
Meningioma  
Stroke / Transient Ischemic Attacks



**Kaith Almefty, MD**  
Meningioma  
Acoustic Neuroma  
Skull Base Surgery  
Schwannoma  
Spine Surgery



**F. David Barranco, MD**  
Brain Tumors  
Cervical Spine Surgery  
Lumbar Spine Surgery  
Pituitary Tumors and Disorders  
Radiosurgery



**Steve Chang, MD**  
Brain Tumors  
Cervical Spine Surgery  
Minimally Invasive Spine Surgery  
Robotic Spine Surgery  
Spine Tumors



**Tsinsue Chen, MD**  
Deep Brain Stimulation  
Trigeminal Neuralgia  
Hemifacial Spasm  
Brain Tumors  
Spine Tumors



**Andrew Ducruet, MD**  
Endovascular Neurosurgery  
Aneurysms and Blood Vessel Disorders  
Arteriovenous Malformation  
Dural Arteriovenous Fistula  
Stroke / Transient Ischemic Attacks



**Brian Fitzpatrick, MD**  
Brain Tumors  
Hydrocephalus  
Lumbar Spine Surgery  
Minimally Invasive Spine Surgery  
Normal Pressure Hydrocephalus



**David Fusco, MD**  
Brain Tumors  
Cervical Spine Surgery  
Cyberknife  
Lumbar Spine Surgery  
Minimally Invasive Spine Surgery



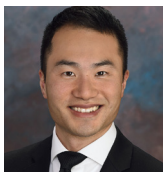
**Mark Garrett, MD**  
Brain Tumors  
Spine Tumors  
Complex Cervical and Lumbar Spine  
Cranial/Spinal Trauma  
Artificial Disc Surgery



**Taro Kaibara, MD**  
Brain Tumors  
Minimally Invasive Spine Surgery  
Cervical Spine Fusion  
Lumbar Spine Fusion  
Spinal Navigation and Robotics



**U. Kumar Kakarla, MD**  
Scoliosis Pediatric and Adult  
Cervical Spine surgery  
Thoracic Spine surgery  
Lumbar Spine surgery  
Disc Herniation



**Bryan Lee, MD**  
Minimally Invasive Spine Surgery  
Complex Spinal Deformity Correction  
Cranial and Spinal Trauma  
Brain and Spinal Tumors



**Andrew Little, MD**  
Pituitary Tumors and Disorders  
Brain Tumors  
Meningioma  
Arnold Chiari Malformation  
Radiosurgery



**Frederick Marciano, MD**  
Brain Tumors  
Cervical Spine Surgery  
Lumbar Spine Surgery  
Minimally Invasive Spine Surgery  
Spinal Cord Tumors



**Zaman Mirzadeh, MD**  
Trigeminal Neuralgia  
Cancer Pain  
Neuropathies  
Spinal Cord Stimulator  
Intrathecal Baclofen/Pain Pump



**Rory Murphy, MD**  
Cervical Myelopathy  
Cervical Spine Surgery  
Brain Tumors  
Spinal Cord Tumors  
Spinal Cord Injury/Peripheral Nerve Surgery



**Francisco Ponce, MD**  
Deep Brain Stimulation  
Parkinson's Disease and Movement Disorders  
Spinal Cord Disorders  
Spinal Cord Tumors  
Spine Tumors



**Randall Porter, MD**  
Acoustic Neuroma  
Minimally Invasive Spine Surgery  
Robotic Spine Surgery  
Brain Tumors  
Radiosurgery



**Nader Sanai, MD**  
Brain Tumors  
Radiosurgery  
Glioblastoma  
Meningioma  
Skull Base Surgery



**Kris Smith, MD**  
Brain Tumors  
Cyberknife  
Gamma Knife  
Glioblastoma Multiforme  
Meningioma



**Laura Snyder, MD**  
Minimally Invasive Spine Surgery  
Spinal Stenosis  
Spine Tumors  
Artificial Disc Surgery  
Robotic Spine Surgery



**Luis Tumlialan, MD**  
Minimally Invasive Lumbar and Cervical Surgeries  
Artificial Disc: Lumbar and Cervical  
Robotic-Assisted Spinal Surgery  
Anterior Cervical Fusions  
Minimally Invasive Management of Spinal Cord Tumors



**Jay Turner, MD, PhD**  
Scoliosis and Spinal Deformities  
Spine Tumors  
Minimally Invasive Spine Surgery  
Robotic Spine Surgery  
Cranio-cervical Junction Surgery



**Juan Uribe, MD**  
Cervical Spine Surgery  
Minimally Invasive Spine Surgery  
Robotic Spine Surgery  
Scoliosis and Spinal Deformities  
Thoracic Spine Surgery



**John Wanebo, MD**  
Aneurysms and Blood Vessel Disorders  
Brain Tumors  
Cervical Spine Surgery  
Glioblastoma Multiforme  
Moyamoya Disease