



# Advanced, Compassionate Care for Disorders of the Brain and Spine

Internationally renowned experts provide comprehensive  
diagnostics and treatment for adults and children



**T**he physicians of Weill Cornell Medicine Neurological Surgery are among the nation's foremost specialists in the diagnosis and treatment of brain and spine conditions. Under the leadership of Philip E. Stieg, PhD, MD, internationally renowned for his pioneering work in cerebrovascular disorders, our specialists provide the most advanced care available for the diagnosis and treatment of complex neurological disorders.

Our faculty have advanced training and expertise in neurosurgical subspecialties including stroke, aneurysms, and AVMs; brain, spine, and pituitary tumors; epilepsy; movement disorders; spinal degeneration and deformity; and traumatic brain and spine injuries.

The team also includes top pediatric neurosurgeons

and other specialists who deliver the uniquely skilled and compassionate treatment required by our youngest patients.

As a comprehensive center for brain and spine care, we also offer the specialists our patients need to manage their nonsurgical needs and maximize their recoveries: neuropsychologists, neuroendocrinologists, interventional neuroradiologists, and neuro-oncologists. As part of the larger Weill Cornell Medicine team at NewYork-Presbyterian, we have at our fingertips the best of every specialty should any patient require other health care.

We take a broad, multidisciplinary approach to brain and spine care. Our goal is to help our patients not only recover from a condition, but also achieve maximal brain health.

**Visit us online for news and updates**

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## Disorders of the Brain

At Weill Cornell Medicine Neurological Surgery, patients of all ages are cared for by the world's leading medical and surgical experts in the diagnosis and treatment of a wide range of neurosurgical disorders. Our highly trained physicians specialize in:

- Brain tumors and cysts
- Epilepsy
- Parkinson's disease/movement disorders
- Pain (RSD, nerve injury, spinal cord injury, facial pain, chemotherapy)
- Stroke/aneurysm/other cerebrovascular disorders
- Hydrocephalus
- Injury, infection, and trauma

## Diseases of the Spine

Like the brain, the spine is subject to a wide range of disabling disorders that include tumors, degenerative disease, congenital disorders, vascular disease, and trauma. Our specialists, who are a part of Och Spine at NewYork-Presbyterian, use a variety of advanced therapies and minimally invasive techniques, including high-tech intraoperative navigation, endoscopic and robotic approaches, and stem cell injections, depending on the patient's unique needs.

Among the disorders we treat are:

- Back and neck injuries/trauma/infection
- Primary and metastatic tumors
- Spinal vascular malformations
- Degenerative spine diseases, including spinal stenosis and herniated disc
- Spinal deformities (scoliosis, kyphosis, spondylosis)
- Spinal disc disease

## Pediatric Neurosurgical Conditions

Our dedicated pediatric specialists are focused solely on how neurosurgical disorders affect young people. Expertise, patience, and compassion are the hallmarks of our pediatric neurosurgery service, which is one of the best in the country.

Our neurosurgeons work with pediatric specialists in neurology, oncology, anesthesia, critical care, and radiation therapy, all devoted to delivering the most advanced medical services for children and their families. We provide care that conforms to each individual child and their special needs, such as minimally invasive endoscopic surgery and prenatal diagnostic imaging and counseling. Among the most common pediatric neurological disorders treated are:

- Congenital disorders (spina bifida, tethered spinal cord, craniofacial anomalies)
- Chiari malformation
- Cerebrovascular conditions (moyamoya disease, vein of Galen malformation, stroke, AVMs, aneurysm)
- Tumors and cysts (brain, spine, pituitary, neurofibromatosis)
- Functional/movement disorders (spasticity, epilepsy)
- Hydrocephalus
- Injury and infection

## Getting You Back to Yourself

Being diagnosed and treated for a brain disorder can take a significant emotional and physical toll. At Weill Cornell Medicine Neurological Surgery, our job isn't finished when the treatment is complete. We take a comprehensive approach to treating brain disorders that includes Wada testing and brain mapping before and during treatment, as well as cognitive remediation afterward to get you. For patients with pituitary disorders, we offer continuing care within our pituitary and neuroendocrine program to provide ongoing support and medical management. We also offer support for patients and caregivers who have been through treatment for aneurysms, Chiari malformations, tumors, and other disorders.





## Medical Care with Compassion

We believe that the personal care patients receive is as important as their medical care. Our physicians take the time to understand their patients, address their concerns, and explain the results of their diagnosis and available treatment options. With a staff of superbly trained and equipped specialists and an emphasis on compassionate care, Weill Cornell Medicine Neurological Surgery is setting a new standard for excellence in the area of disorders of the brain, spinal cord, and peripheral nerves.

## Advanced Diagnostic and Surgical Technology

State-of-the-art technologies are used to diagnose the exact nature of a neurological disorder and implement the most effective and least invasive surgical treatment. In addition to computed tomography (CT), magnetic resonance imaging (MRI), functional MRI (fMRI), magnetic resonance angiograms (MRA), ultrasound, electroencephalogram (EEG), PET scan, and stereotactic radiosurgery, we can offer

many other sophisticated technologies to achieve an accurate diagnosis and deliver effective treatment:

- Computer-assisted superselective angiography
- Venous sinus stenting
- High-frequency spinal stimulation
- Middle meningeal artery embolization
- Advanced intraoperative spinal navigation (Airo)
- Interactive image-guided technology
- Deep brain stimulation
- Laser surgery
- Image-guided focused ultrasound
- Endoscopic third ventriculostomy
- Endoscopic endonasal tumor resection

Using these state-of-the-art tools, our surgeons can visualize disorders of the brain in real time and reach tumors and other abnormalities through the tiniest of incisions.



## Trailblazers of Neuroscience in the Lab

Our faculty members are not only top clinicians, they are also best-in-class academics and neuroscientists conducting ground-breaking research in the lab and in clinical trials. Our teams are at the forefront of multiple specialties, including pediatric and adult neuro-oncology, movement disorders, stroke, traumatic brain injury, and epilepsy.

### LOCATIONS

#### NewYork-Presbyterian Weill Cornell Medicine Starr Pavilion, Suite 651

Enter at 525 East 68th Street, directly east of York Ave.  
(You may also enter at 520 East 70th Street.)

#### Weill Greenberg Center, 9th Floor

Enter at 1305 York Ave., corner of 70th Street.

#### Och Spine at NewYork-Presbyterian at the Weill Cornell Medicine Center for Comprehensive Spine Care

240 East 59th Street, Second Floor

#### NewYork-Presbyterian Lower Manhattan

156 William Street, 11th Floor (at Ann Street)

#### NewYork-Presbyterian Queens

56-20 Main Street, Flushing, NY 11355  
With multiple offices from Long Island City to Fresh Meadows

#### NewYork-Presbyterian Brooklyn Methodist

506 6th Street, Brooklyn, NY 11215  
With multiple offices from Barclays Center to Sunset Park

#### Overnight Accommodations: Helmsley Tower (212-472-8400)

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