One of the Nation’s Top Neurosciences Programs

Seattle Children’s provides expert diagnosis and treatment for babies, children and teens with disorders of the brain and spinal cord, including cerebral palsy, tumors, stroke, Chiari malformation and craniosynostosis. Our nationally recognized neurosurgeons perform more than 600 challenging, highly technical surgeries each year, using the most advanced techniques. Seattle Children’s offers the only comprehensive epilepsy program in the Pacific Northwest created especially for children and teens. Not only is Seattle Children’s a national referral center for many brain and spinal cord conditions, but families from all over the world seek out our expertise.

Caring for children with complex medical conditions requires the skills of a variety of specialists. We have more pediatric neurosurgeons, neurologists and nurse practitioners than any other children’s hospital in the Pacific Northwest. We work in close collaboration with doctors in rehabilitation medicine, developmental pediatrics and plastic and reconstructive surgery, as well as neuropsychologists, dietitians and social workers, to ensure that each child gets personalized care, from evaluation and diagnosis through follow-up treatment.

Most Frequently Treated Conditions

- Brain and Spinal Abscess
- Brain and Spinal Cord Tumors
- Cerebral Palsy and Spasticity
- Chiari Malformation and Syringomyelia
- Craniosynostosis
- Epilepsy
- Hydrocephalus
- Muscular Dystrophy
- Neurometabolic Disorders
- Pediatric Stroke
- Tethered Spinal Cord and Lipomyelomeningocele
- Vascular Diseases of the Brain and Spinal Cord

Contact Us
- Neurology: 206-987-2078
- Neurosurgery: 206-987-2544

Leadership
- Jeffrey G. Ojemann, MD

Learn More:
- www.seattlechildrens.org/neurosurgery
- www.seattlechildrens.org/neurology
Treatment Advances Improve Care

We are constantly working to make improvements that reduce the need for certain surgeries, and we use the latest technology to ensure the safest treatments:

• Our neurosurgeons perform highly technical surgeries every day using state-of-the-art equipment and the most advanced surgical techniques, such as laser ablation surgery for epilepsy, selective dorsal rhizotomy for spasticity, endoscopic surgery for craniosynostosis and hydrocephalus and the StealthStation system for surgical navigation.

• We are dedicated to minimizing radiation exposure for children. Our computed tomography (CT) scanners use the lowest possible amount of radiation, and we offer the region’s most advanced magnetic resonance imaging (MRI), which does not use radiation at all. In some cases we can get the images we need using a “fast MRI” called half-Fourier-acquisition single-shot turbo spin-echo (HASTE), which is much quicker than a typical MRI and does not require sedation.

Promising Research

Our neurologists and neurosurgeons are involved with ongoing studies through Seattle Children’s Research Institute to define the underlying causes of neurological conditions and to develop new treatments for these problems. Current projects include brain tumor diagnosis and treatment using nanotechnology, laser ablation for epilepsy and brain tumors, investigations into the mechanisms in epilepsy and brain function, and exploring the causes of and possible treatments for hydrocephalus.