Advanced capabilities

The Pediatric Neurosurgery Program provides advanced care for a wide variety of disorders, including pediatric brain tumors; spinal tumors; hydrocephalus; craniosynostosis; epilepsy; spasticity of spinal or cerebral origin; congenital defects of the brain, skull, or spine; pediatric spinal column instability; and others. Treatments range from sophisticated image-guided cranial and spinal microsurgery techniques, to skull base neurosurgery, microsurgical laser instrumentation for intraspinal operations, endoscopic surgery for intraventricular pathology, the entire spectrum of shunt technology for hydrocephalus, and surgeries for brain or spinal trauma.

Sophisticated diagnostic technologies include the 3-Tesla MRI with full functional and spectrometric capability, helical computer tomography (CT), positron emission tomography (PET), digital holography, and video EEG monitored pediatric beds.

We serve all of West Virginia and the surrounding region with critical care air and ground transportation specially adapted for pediatric patients.

State-of-the-art:

- Cranial reconstructive surgeries for craniosynostosis and closure of encephaloceles
- Intraventricular endoscopic surgeries fully integrated with image guidance
- Microsurgery of the brain and spine, including advanced image guidance technologies for tumors, cysts, and vascular malformations
- Microsurgical contact laser techniques for release of the tethered spinal cord
- Radiosurgeries, including both Gamma Knife and Linear
- Surgeries for Chiari malformations and for treatment of syringomyelia
- Surgeries for epilepsy, including vagal nerve stimulator placement
- Surgeries for spasticity, including selective dorsal root rhizotomy and intrathecal baclofen infusion pump placement
- Surgeries for the neurologic complications of spina bifida
- Transnasal/transsphenoidal surgery for intrasellar pathology
- Placement of shunts for hydrocephalus
THE WVU PEDIATRIC NEUROSURGERY PROGRAM

Cesar A. Serrano, MD

Dr. Serrano completed his pediatric neurosurgical fellowship at the Children's Hospital of Colorado in Aurora. He also completed his neurosurgical residency program at the first in Bogota, Colombia, from the Universidad de las Victorias Granada as a specialist in neurosurgery, and the second from the University of Calgary, Canada, where he graduated as a specialist in neurosurgery. Serrano has held neurosurgical appointments in Bogota, Colombia, at the Clínica San Pedro and the Clínica del Country. He is board certified in neurosurgery by the Royal College of Physicians and Surgeons of Canada.

Brooke Rhodes, APRN

Brooke Rhodes completed her Bachelor of Science in Nursing at WVU in 2010 and then went on to obtain her master's degree in 2013. She is a board certified family nurse practitioner and has been working with Pediatric Neurosurgery since 2013.

Walking, the child and family through the growing years

Growth in outcome and excellent cosmetic results with the WVU Medicine Children’s neurosurgery team provide all of these elements, along with a strong team of other pediatric sub-specialists. WVU Medicine offers all of these elements, along with a strong team of other pediatric sub-specialists. WVU Medicine offers all of these elements, along with a strong team of other pediatric sub-specialists.

Conditions we treat include:

Integrated network of multidisciplinary pediatric care:

- Neonatal intensive care service
- Pediatric craniofacial plastic surgery
- Pediatric endocrinology
- Pediatric general surgery
- Pediatric hematology/oncology
- Pediatric intensive care service
- Pediatric neurology
- Pediatric neurosurgery
- Pediatric orthopaedic surgery
- Pediatric orthopedic surgery
- Pediatric physical therapy and rehabilitation
- Pediatric radiology and neuroimaging
- Pediatric urology surgery

The WVU Medicine Children's neurosurgery team provides state-of-the-art care for neonates, infants, children, and adolescents with problems of the brain, spine, or peripheral nervous system. Our team is made up of a multidisciplinary team of experts that specializes in providing innovative, individualized care to children and adolescents with a wide range of neurosurgical conditions.

Rabia Qaiser, MD

Dr. Qaiser completed her medical and surgical training at the Karachi Medical and Dental College in Pakistan. She then finished her residency in neurosurgical surgery at the University of Minnesota Medical School. She recently finished her pediatric neurosurgical fellowship at Indiana University-Purdue University Indianapolis at the Riley Hospital for Children.

Qaiser has a special interest in pediatric cerebrovascular diseases.

In addition to a strong commitment to a caring, family-centered approach,

- Strong commitment to providing the best possible outcomes and excellent outcomes, results with the least possible physical and emotional trauma to the child and family.
- Use of minimally invasive techniques whenever possible.
- Continuity of care throughout the child’s growing years.
- Family participation and support throughout the process.
- State-of-the-art technology.

MULTI-SPECIALTY COMPREHENSIVE CARE TEAMS

Cesar A. Serrano, MD

• Pediatric brain tumors
• Hydrocephalus
• Congenital defects of the brain, spinal column instability
• Spina bifida
• Spinal column instability
• Spina bifida
• Spinal tumors

- Pediatric neurosurgical diseases
- Arachnoid cysts
- Intracranial tumors
- Intracranial aneurysms
- Moyamoya disease
- Aneurysms

- Pediatric craniofacial plastic surgery
- Pediatric endocrinology
- Pediatric general surgery
- Pediatric hematology/oncology
- Pediatric intensive care service
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