

The Pediatric Neurosurgery practice at Valley Children's specializes in the diagnosis and treatment of a variety of diseases and conditions of the central nervous system for infants, children and adolescents. Our neurosurgery program offers comprehensive, most up-to-date care for the full range of neurosurgical diseases. We have clinical expertise in treating brain tumors, epilepsy, hydrocephalus, congenital malformations, cranial and spinal trauma, peripheral nerve and craniofacial disorders. We are equipped with the most advanced technologies such as the ROSA robot (robotic assistant for minimally invasive neurosurgical procedures), intraoperative neuro navigation and stereotaxy, intraoperative imaging and the Neuroblate laser – allowing us to provide the most state-of-the-art care for our children.

Diseases we treat include:

- Tethered cord syndrome
- Spina bifida (myelomeningoceles, lipomyelomeningoceles, dermal sinus tracts, split cord malformations)
- Encephaloceles
- Hydrocephalus, CSF shunt malfunctions, syringomyelia,
- Chiari malformations,
- Pseudotumor cerebri,
- Aqueductal stenosis
- Arachnoid cysts.
- Plagiocephaly,
- Craniostylosis, craniofacial anomalies, and macrocephaly
- Central nervous system tumors
- Head and spine trauma
- Central nervous system vascular malformations
- Spasticity
- Epilepsy

Neurosurgery is also part of several multidisciplinary teams at Valley Children's that provide coordinated comprehensive care for your child. Multidisciplinary programs at Valley Children's include neuro-oncology program, craniofacial clinic, spina bifida clinic, spasticity clinic and the epilepsy program.

Access Center

24/7 access for referring physicians
(866) 353-KIDS (5437)

Outpatient Referral

Referral forms online at valleychildrens.org/refer
FAX: (559) 353-8888

Neurosurgery Office Numbers

Main: (559) 353-6277
FAX: (559) 353-5424

Physician Liaison

(559) 353-7229

Condition	Pre-referral Work-up	When to Refer
Brain and Spinal Cord Abscesses	Document neurological symptoms and signs	If patient is symptomatic with a positive scan
Tumors	Document neurological symptoms and signs MRI of affected area with or without contrast	Positive scan
Cysts of the brain	Document neurological symptoms and signs	Positive scan
Cerebral Palsy/Spasticity	Document neurological symptoms and signs, treatment history, and response to prior therapies	Secondary referral after Neurology or Physiatry consult
Chiari Malformation	Document neurological symptoms and signs MRI of head and cervical spine	Positive scan
Craniosynostosis	Clinical exam	Early referral if clinical suspicious
Lipomyelomeningocele	MRI of back Clinical documentation of history and physical	Positive physical findings or scan
Spinal Dysraphism Neural Tube defects Dermal Sinus Tract	Document neurological symptoms and signs, prior surgical therapy MRI of affected area	Positive physical findings, scan or documentation
Syringomyelia	MRI of affected area	Routine consult if asymptomatic

Condition	Pre-referral Work-up	When to Refer
Seizures/Epilepsy	Clinical history of seizures	Secondary referral after Neurology consult
Cysts, Lumps and Bumps on Head	Document history of affected area	Routine referral upon positive physical finding or scan
Vascular Disorders of the Brain and Spinal Cord	Document neurological and cardiovascular symptoms and signs	Positive physical findings, scan or documentation
Skull Fracture/Intracranial Bleed/ Post-Traumatic Event	Documentation of history clinical findings, Head CT	Positive findings, on history and scan
Encephalocele	Clinical exam, MRI head	Early referral if suspected clinically
Hydrocephalus	Chart growth in head circumference, history of prematurity/hemorrhage, and prior therapy or surgery	Positive physical findings, scan or documentation
	Ultrasound of head if fontanelle open MRI / CT of brain	Positive physical findings or scan