Pediatric Neurosurgery

The physicians affiliated with the Pediatric Neurosurgery department at Children’s Memorial Hermann Hospital specialize in the evaluation, diagnosis and treatment of children with a broad range of neurological disorders, including brain tumors, epilepsy, hydrocephalus, spasticity, spina bifida and head injury. Through a collaboration with McGovern Medical School at UTHealth and Memorial Hermann Mischer Neuroscience Institute at the Texas Medical Center, the team approach combines the expertise of pediatric specialists and subspecialists to ensure that young patients receive coordinated, evidence-based care and the best possible clinical outcomes.

Traditional and Minimally Invasive Surgery
By utilizing the most advanced imaging technologies designed specifically for pediatric patients – including MRI, CT, MEG and stereo-electroencephalography – neurosurgeons are able to identify and treat specific areas of the brain and significantly lower the risk of complications. When traditional surgery is required, endoscopic techniques are often used to reduce incision size and scarring for patients who are candidates. The expert team is recognized for performing state-of-the-art, minimally invasive procedures, including neuroendoscopy and stereotactic radiosurgery. These groundbreaking procedures routinely result in less pain and a much quicker recovery time, allowing patients to return to school, family life and daily activities sooner than traditional open surgeries.

Patient Care
The six-bed pediatric neuroscience pod at Children’s Memorial Hermann Hospital offers patients dedicated intermediate nursing care specifically tailored to their needs. This enables Children’s Memorial Hermann Hospital to provide complex care, neurological exams and specialized treatment. The nursing staff is also chemotherapy certified and able to provide infusions to patients without moving them to another location.

Research
Together with McGovern Medical School, investigators at Children’s Memorial Hermann Hospital are shaping the future of pediatric neurosurgery through clinical discovery and the development of new, breakthrough treatments. The team’s research interests include focusing on innovative means of delivering therapeutic agents into the brain for the treatment of various neurological disorders. (over)
Meet the Pediatric Neurosurgery Team

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treatment of childhood brain tumors, including a Phase I study, Methotrexate Infusion into the Fourth Ventricle in Children with Malignant Fourth Ventricular Brain Tumors. Other research areas involve brain mapping with functional MRI, electrical stimulation and diffusion tractography, as well as intracranial electrophysiology.

Qualified patients are able to enroll in a range of clinical trials for both investigational drugs and procedures.

For more information on specific clinical trials, please contact us at 832.325.7234 or visit childrens.memorialhermann.org/researchtrials.

Collaboration
Referring physicians are kept fully informed about patient progress throughout the entire evaluation and treatment process. After a patient’s office visit, referring physicians will receive a summary that includes the initial diagnosis, pending tests and treatment options.

childrens.memorialhermann.org/refer-neuro
832.325.7242