

Pediatric Neurology Residency Curriculum Guide

Inpatient Pediatric Neurology Rotation (Years 1, 2, 3)

Across the three years of training, our child neurology resident will act as the chief resident of our active inpatient consult service, working with adult neurology residents, pediatric residents and medical students. The consult service interfaces with almost all other services in the hospital, caring for patients on pediatric hospitalist service, NICU, PICU, hematology-oncology service, inpatient psychiatry, trauma and surgery services, nephrology service, neurosurgery service, cardiology service and gastroenterology service. Our resident performs new consults on patients on the wards or in the emergency room and rounds on active consults with the attending child neurologist. Our resident is involved in reading preliminary readings and spot readings on consulted patients on LTM.

Outpatient Pediatric Neurology Rotations (Year 1, 2, 3)

Our residents spend approximately six months evaluating and following a wide range of cases in a variety of ambulatory settings and subspecialty clinics. Our residents will gain experience in the assessment of general neurology patients, including learning disabilities and developmental delay, neurofibromatosis, mitochondrial and metabolic diseases, sleep disorders, and movement disorders. Our residents will participate in subspecialty clinics focused on pediatric epilepsy, epilepsy surgical planning, ketogenic diet clinic, tuberous sclerosis clinic, pediatric headache clinic, pediatric multiple sclerosis and demyelinating clinic, pediatric brain injury clinic and neonatal neurology. We have an active pediatric MDA clinic, which our residents spend time in during these blocks as well as other outpatient months.

Pediatric Epilepsy Rotation (Year 1)

Residents spend one month on the Pediatric EMU Service, gaining exposure to EEG monitoring, Routine EEG reading, epilepsy surgical planning and surgeries and sophisticated neuroimaging techniques such as SPECT and MEG scans.

Neurophysiology (Year 2)

Our residents will spend a mixture of time reading EEG, ambulatory EEG, VEEP, pediatric EMG, EMU, sleep and LTM studies.

Pediatric Neurorehab Rotation (Year 2)

Our resident will spend a month in a variety of clinics in developmental pediatrics, pediatric orthopedic spasticity, brain injury, and concussion. During this month, our resident will have the unique opportunity to work with our pediatric neuropsychologist performing

neuropsychological evaluations on patients with epilepsy or brain injury.

Inpatient Child Psychiatry (Year 3)

Our resident will spend time on the inpatient pediatric psychiatry service located at Brenner Children's Hospital, which includes inpatient consultation and management of acute and chronic psychiatric illnesses. Our resident will round with the inpatient team and will be able to participate in ongoing group therapy sessions for patients.

Pediatric Neurosurgery (Year 3)

Our resident will spend time paired one-on-one with one of our pediatric neurosurgeons as he or she performs urgent and non-urgent surgical cases in the operating room. Our resident will spend time in clinics dedicated to the evaluation and management of chiari malformation, vascular malformations, epilepsy surgical patients, pediatric brain tumors and spinal processes. Our resident will also join the neurosurgery resident in performing consultations in the pediatric ED.

Neuroscience (Year 3)

This month is a devoted block for neurology board preparation with reading and board review questions. Many of our residents will also use this time to complete research projects, complete abstracts/posters, prepare and submit manuscripts, prepare lectures, attend specialty clinics within their future career interest, meet with mentors and attend additional educational lectures across the medical center.

Neuropathology (Year 3)

This month is focused on building knowledge in science and clinical practice of neuropathology. Our residents will review pathology slides on common intracranial tumors and neuromuscular conditions. Our residents will attend neuropathology clinical case conference along with neurosurgical residents.

Elective Rotations (Year 2, 3)

Our residents can choose additional elective months dedicated to sleep, epilepsy, neuropsych, neuroradiology, genetics, spasticity, neuro-ICU or specialized months in neuro-ophthalmology, integrative medicine, palliative care or pediatric headache. This is a great opportunity within Year 2 to choose a month to help with decision-making for career focus or possible fellowship application. Our residents can elect to do a research month to develop and complete a research project.