

**Mount Sinai Pediatric Neurology Residency Program  
Icahn School of Medicine at Mount Sinai  
Teaching Conferences**

Pediatric Neurology Core Curriculum Lecture Series is a weekly one hour conference held every Wednesday from 11am-12pm and is a didactic lecture series given by rotating faculty within the Pediatric Neurology Division and affiliated faculty of the training program with expertise in their respective topics with the goal of covering the Pediatric Neurology Core Curriculum non-repeatedly over two years of residency training. It will be attended by all 2<sup>nd</sup> and 3<sup>rd</sup> year pediatric neurology residents, the 1<sup>st</sup> year resident when schedule permits on their adult neurology rotations, the two rotating adult neurology residents, as well as any rotating medical students on the Pediatric Neurology Service. A minimum of three pediatric neurology faculty will be in attendance to provide additional perspective on the topic presented from their clinical and/or research expertise.

**Pediatric Neurology Lecture Topics**

1. Pediatric Neurology Emergencies
2. Pediatric Neurologic Examination and Development Assessment
3. Normal and Abnormal Child Development / Developmental Milestones
4. Assessment of Children with Developmental Regression
5. Evaluation of the Floppy Infant / Hypotonia
6. Perinatal Brain Injury and Hypoxic-Ischemic Encephalopathy
7. Neonatal Withdrawal Syndromes
8. Cerebral Palsy
9. Autism / PDD
10. Mental Retardation
11. Neuroembryology/Neurodevelopment and Brain Malformation Syndromes
12. Neuromuscular Diseases of Childhood – Muscular Dystrophies / Congenital Myopathies
13. Pediatric Movement Disorders
14. Pediatric Neuroimaging
15. Pediatric MS, ADEM, and Demyelinating Diseases
16. Opsoclonus-Myoclonus Syndrome
17. CNS Tumors of Childhood
18. Neurocutaneous Disorders 1 – Tuberous Sclerosis, Sturge-Weber
19. Neurocutaneous Disorders 2 – Neurofibromatosis
20. Microcephaly
21. Macrocephaly/Hydrocephalus
22. Craniosynostosis
23. Status Epilepticus in Children
24. Neonatal Seizures
25. Pediatric Epilepsy Syndromes
26. Genetic Causes of Epilepsy 1 – Congenital Structural Etiologies
27. Genetic Causes of Epilepsy 2 – Channelopathies
28. Effects of Childhood Epilepsy on Cognition
29. Non-epileptic Paroxysmal Disorders
30. Pediatric Sleep Disorders
31. Fragile X Syndrome
32. Chromosomal Anomalies
33. Neurometabolic Disorders 1 – Selected Disorders
34. Neurometabolic Disorders 2 – Selected Disorders

35. Lysosomal Storage Diseases
36. Leukodystrophies
37. Mitochondrial Disorders
38. Spinocerebellar ataxias
39. Pediatric Stroke
40. Neurovascular Malformations in Children
41. TBI/Concussions/Head Injury in Children
42. Approach to Headaches in Children
43. Psychopathology – Psychiatric Disorders in Children
44. Psychopathology - ADHD in Children
45. Psychopathology - Anxiety Disorders in Children

### **Pediatric Clinical Neurophysiology Conference- Basic Science Lecture Topics**

This will be held every month on Wednesdays from 11a-12p in lieu of Pediatric Neurology Core Curriculum Lecture Series.

1. EEG: General Principles
2. Normal EEG Patterns: neonates, children, and adolescents
3. Focal abnormalities of EEG
4. EEG background abnormalities
5. EEG artifacts and normal variants
6. Pediatric Epilepsy Surgical Planning/ Functional Mapping, WADA test
7. NCS: General Principles
8. EMG: General Principles
9. Neuromuscular disease: entrapments
10. Neuromuscular disease: NMJ transmission disorders
11. Neuromuscular disease: peripheral neuropathies
12. Neuromuscular disease: autonomic neuropathies
13. Neuromuscular disease: myopathies
14. Evoked Potentials: General Principles  
VEPs / BAEPs /SSEPs