

Unit I: Human Brain Development

Overview

- 1. Neural Tube Development and Defects*
- 2. Prosencephalic Development and Defects*
- 3. Congenital Hydrocephalus*
- 4. Cerebellar Development and Defects*
- 5. Neuronal Proliferative Events and Defects*
- 6. Neuronal Migrational Events and Defects*
- 7. Organizational Events and Defects*
- 8. Myelination Events and Defects*

Unit II: Neurological Evaluation

Overview

- 9. Neurological Examination: Normal and Abnormal Features*
- 10. Specialized Neurological Studies*
- 11. Neurodevelopmental Followup*

Unit III: Neonatal Seizures

Overview

- 12. Neonatal Seizures*

Unit IV: Hypoxic-ischemic and Related Disorders

Overview

- 13. Pathophysiology General Principles*
- 14. Encephalopathy of the Preterm - Neuropathology*
- 15. Encephalopathy of the Preterm - Pathophysiology*
- 16. Encephalopathy of the Preterm - Clinical - Neurological Features, Diagnosis, Imaging, Prognosis, Therapy*
- 17. Intrauterine, Intrapartum Assessments in the Term Infant*
- 18. Hypoxic Ischemic Injury in the Term Infant – Neuropathology*
- 19. Hypoxic Ischemic Injury in the Term Infant – Pathophysiology*
- 20. Hypoxic Ischemic Injury in the Term Infant – Clinical - Neurological Features, Diagnosis, Imaging, Prognosis, Therapy*
- 21. Stroke in the Newborn*

Unit V: Intracranial Hemorrhage

Overview

22. *Intracranial/Hemorrhage – Supratentorial (Subdural, Subarachnoid, Intraventricular (Term Infant), Miscellaneous*

23. *Intracranial Hemorrhage Infratentorial/Cerebellar*

24. *Preterm IVH/Posthemorrhagic Hydrocephalus*

Unit VI: Metabolic Encephalopathies

Overview

25. *Glucose*

26. *Bilirubin*

27. *Amino acids*

28. *Organic acids*

Unit VII: Degenerative Disorders

29. *Degenerative Disorders of the Newborn*

Unit VIII: Neuromuscular Disorders

Overview

30. *Evaluation, Specialized Studies*

31. *Arthrogryposis Multiplex Congenita*

32. *Levels Above Lower Motor Neuron to Neuromuscular Junction*

33. *Muscle Involvement and Restricted Disorders*

Unit IX: Intracranial Infections

Overview

34. *Viral, Protozoan and Related Intracranial Infections*

35. *Bacterial and Fungal Intracranial Infections*

Unit X: Perinatal Trauma

36. *Injuries of Extracranial, Cranial, Intracranial, Spinal Cord and Peripheral Nervous System Structures*

Unit XI: Intracranial Mass Lesions

37. *Brain Tumors and Vein of Galen Malformations*

Unit XII: Drugs and the Developing Nervous System

Overview

38. *Passive Addiction and Teratogenic Effects*