Table of Contents

Volume 1: Principles of Diagnosis

Part I: Common Neurological Problems
1 Diagnosis of Neurological Disease
2 Episodic Impairment of Consciousness
3 Falls and Drop Attacks
4 Delirium
5 Stupor and Coma
6 Brain Death, Vegetative State and Minimally Conscious States
7 Intellectual and Memory Impairments
8 Global Developmental Delay and Regression
9 Behavior and Personality Disturbances
10 Depression and Psychosis in Neurological Practice
11 Limb Apraxias and Related Disorders
12 Agnosias
13 Aphasia and Aphasias Syndromes
14 Dysarthria and Apraxia of Speech
15 Neurogenic Dysphagia
16 Visual Loss
17 Abnormalities of the Optic Nerve and Retina
18 Pupillary and Eyelid Abnormalities
19 Disturbances of Smell and Taste
20 Cranial and Facial Pain
21 Brainstem Syndromes
22 Ataxic and Cerebellar Disorders
23 Diagnosis and Assessment of Parkinson Disease and Other Movement Disorders
24 Gait Disorders
25 Hemiplegia and Monoplegia
26 Paraplegia and Spinal Cord Syndromes
27 Proximal, Distal, and Generalized Weakness
28 Muscle Pain and Cramps
29 Hypotonic (Floppy) Infant
30 Sensory Abnormalities of the Limbs, Trunk, and Face
31 Arm and Neck Pain
32 Lower Back and Lower Limb Pain

Part II: Neurological Investigations and Related Clinical Neurosciences

Section A: General Principles
33 Laboratory Investigations in Diagnosis and Management of Neurological Disease

Section B: Clinical Neurophysiology
34 Electroencephalography and Evoked Potentials
35 Clinical Electromyography
36 Neuromodulation and Transcranial Magnetic Stimulation
37 Deep Brain Stimulation
38 Intraoperative Monitoring

Section C: Neuroimaging
39 Structural Imaging using Magnetic Resonance Imaging and Computed Tomography
40 Vascular Imaging: Computed Tomographic Angiography, Magnetic Resonance Angiography, and Ultrasound
42 Chemical Imaging: Ligands and Pathology Seeking Agents
Section D: Clinical Neurosciences
43 Neuropsychology
44 Neuro-ophthalmology: Ocular Motor System
45 Neuro-ophthalmology: Afferent Visual System
46 Neuro-otology: Diagnosis and Management of Neuro-otological Disorders
47 Neurourology
48 Sexual dysfunction in Neurological Disorders
49 Neuroepidemiology
50 Clinical Neurogenetics
51 Neuroimmunology
52 Neuroendocrinology

Volume 2: Neurological Disorders and Their Management

Part III: Neurological Diseases and their Treatment
Section A: Principles of Management
53 Management of Neurological Disease
54 Principles of Pain Management
55 Principles of Neurointensive Care
56 Principles of Neurointerventional Therapy
57 Neurological Rehabilitation
Section B: Neurological Complications of Systemic Disease
58 Neurological Complications of Systemic Disease: Adults
59 Neurological Complications of Systemic Disease: Children
Section C: Trauma of the Nervous System
60 Basic Neuroscience of Neurotrauma
61 Sports and Performance Concussion
62 Cranio cere bral Trauma
63 Spinal Cord Trauma
64 Trauma of the Nervous System: Peripheral Nerve Trauma
Section D: Vascular Diseases of the Nervous System
65 Ischemic Cerebrovascular Disease
66 Intracerebral Hemorrhage
67 Intracranial Aneurysms and Subarachnoid Hemorrhage
68 Stroke in Children
69 Spinal Cord Vascular Disease
70 Central Nervous System Vasculitis
Section E: Cancer and the Nervous System
71 Epidemiology of Brain Tumors
72 Pathology and Molecular Genetics
73 Clinical Features of Brain Tumors and Complications of Their Treatment
74 Primary Nervous System Tumors in Adults
75 Primary Nervous System Tumors in Infants and Children
76 Nervous System Metastases
Section F: Infections of the Nervous System
77 Neurological Manifestations of Human Immunodeficiency Virus Infection in Adults
78 Viral Encephalitis and Meningitis
79 Bacterial, Fungal and Parasitic Diseases of the Nervous System
Section G: Neurological Disorders
80 Multiple Sclerosis and Other Inflammatory Demyelinating Diseases of the Central Nervous System
81 Paraneoplastic Disorders of the Nervous System
82 Autoimmune Encephalitis with Antibodies to Cell Surface Antigens
83 Anoxic-Ischemic Encephalopathy
84 Toxic and Metabolic Encephalopathies
85 Deficiency Diseases of the Nervous System
86 Effects of Toxins and Physical Agents on the Nervous System
87 Effects of Drug Abuse on the Nervous System
88 Brain Edema and Disorders of Cerebrospinal Fluid Circulation
89 Developmental Disorders of the Nervous System
90 Autism and Other Developmental Disabilities
91 Inborn Errors of Metabolism of the Nervous System
92 Neurodegenerative Disease Processes
93 Mitochondrial Disorders
94 Prion Diseases
95 Alzheimer's Disease and other Dementias
96 Parkinson Disease and Other Movement Disorders
97 Disorders of the Cerebellum, Including the Degenerative Ataxias
98 Disorders of Upper and Lower Motor Neurons
99 Channelopathies: Episodic and Electrical Disorders of the Nervous System
100 Neurocutaneous Syndromes
101 Epilepsies
102 Sleep and Its Disorders
103 Headache and Other Craniofacial Pain
104 Cranial Neuropathies
105 Disorders of Bones, Joints, Ligaments, and Meninges
106 Disorders of Nerve Roots and Plexuses
107 Disorders of Peripheral Nerves
108 Disorders of the Autonomic Nervous System
109 Disorders of Neuromuscular Transmission
110 Disorders of Skeletal Muscle
111 Neurological Problems of the Newborn
112 Neurological Problems of Pregnancy
113 Functional and Dissociative (Psychogenic) Neurological Symptoms