

CONTENTS

Contributors	ix
Preface	xiii

SECTION I

INTRODUCTION TO NEUROLOGY

1 Approach to the Patient with Neurologic Disease .. 2 <i>Daniel H. Lowenstein, Joseph B. Martin, Stephen L. Hauser</i>	
2 The Neurologic Screening Exam	11 <i>Daniel H. Lowenstein</i>
3 Video Atlas of the Detailed Neurologic Examination	12 <i>Martin A. Samuels</i>
4 Neuroimaging in Neurologic Disorders	13 <i>William P. Dillon</i>
5 Atlas of Neuroimaging	27 <i>Andre D. Furtado, William P. Dillon</i>
6 Electrodiagnostic Studies of Nervous System Disorders: EEG, Evoked Potentials, and EMG ...	71 <i>Michael J. Aminoff</i>
7 Technique of Lumbar Puncture	80 <i>Elizabeth Robbins, Stephen L. Hauser</i>

SECTION II

CLINICAL MANIFESTATIONS OF NEUROLOGIC DISEASE

8 Pain: Pathophysiology and Management	88 <i>James P. Rathmell, Howard L. Fields</i>
9 Headache	100 <i>Peter J. Goadsby, Neil H. Raskin</i>
10 Back and Neck Pain	107 <i>John W. Engstrom, Richard A. Deyo</i>
11 Syncope	125 <i>Roy Freeman</i>
12 Dizziness and Vertigo	135 <i>Mark F. Walker, Robert B. Daroff</i>
13 Fatigue	140 <i>Jeffrey M. Gelfand, Vanja C. Douglas</i>

14 Neurologic Causes of Weakness and Paralysis ...	144 <i>Michael J. Aminoff</i>
15 Numbness, Tingling, and Sensory Loss	150 <i>Michael J. Aminoff</i>
16 Gait and Balance Disorders	157 <i>Lewis Sudarsky</i>
17 Video Library of Gait Disorders	163 <i>Gail Kang, Nicholas B. Galifianakis, Michael D. Geschwind</i>
18 Confusion and Delirium	164 <i>S. Andrew Josephson, Bruce L. Miller</i>
19 Coma	171 <i>Allan H. Ropper</i>
20 Examination of the Comatose Patient	181 <i>S. Andrew Josephson</i>
21 Dementia	182 <i>William W. Seeley, Bruce L. Miller</i>
22 Aphasia, Memory Loss, and Other Focal Cerebral Disorders	191 <i>M.-Marsel Mesulam</i>
23 Primary Progressive Aphasia, Memory Loss, and Other Focal Cerebral Disorders	204 <i>Maria Luisa Gorno-Tempini, Jennifer Ogar, Joel Kramer, Bruce L. Miller, Gil Rabinovici, Maria Carmela Tartaglia</i>
24 Sleep Disorders	205 <i>Charles A. Czeisler, Thomas E. Scammell, Clifford B. Saper</i>
25 Disorders of the Eye	221 <i>Jonathan C. Horton</i>
26 Use of the Hand-Held Ophthalmoscope	245 <i>Homayoun Tabandeh, Morton F. Goldberg</i>
27 Video Library of Neuro-Ophthalmology	253 <i>Shirley H. Wray</i>
28 Disorders of Smell and Taste	255 <i>Richard L. Doty, Steven M. Bromley</i>
29 Disorders of Hearing	264 <i>Anil K. Lalwani</i>

SECTION III

DISEASES OF THE NERVOUS SYSTEM

- 30** Biology of Neurologic Diseases. 278
Stephen L. Hauser, Stanley B. Prusiner, M. Flint Beal
- 31** Seizures and Epilepsy 297
Daniel H. Lowenstein
- 32** Cerebrovascular Diseases. 323
Wade S. Smith, S. Claiborne Johnston, J. Claude Hemphill
- 33** Neurologic Critical Care, Including Hypoxic-Ischemic Encephalopathy, and Subarachnoid Hemorrhage 361
J. Claude Hemphill, III, Wade S. Smith, Daryl R. Gress
- 34** Migraine and Other Primary Headache Disorders 376
Peter J. Goadsby, Neil H. Raskin
- 35** Alzheimer's Disease and Other Dementias 392
William W. Seeley, Bruce L. Miller
- 36** Parkinson's Disease and Other Movement Disorders 408
C. Warren Olanow, Anthony H.V. Schapira, Jose A. Obeso
- 37** Ataxic Disorders 435
Roger N. Rosenberg
- 38** Classification of the Spinocerebellar Ataxias. 443
Roger N. Rosenberg
- 39** Amyotrophic Lateral Sclerosis and Other Motor Neuron Diseases 449
Robert H. Brown, Jr.
- 40** Prion Diseases 459
Stanley B. Prusiner, Bruce L. Miller
- 41** Disorders of the Autonomic Nervous System. 469
Phillip A. Low, John W. Engstrom
- 42** Trigeminal Neuralgia, Bell's Palsy, and Other Cranial Nerve Disorders 481
M. Flint Beal, Stephen L. Hauser
- 43** Diseases of the Spinal Cord 490
Stephen L. Hauser, Allan H. Ropper
- 44** Concussion and Other Traumatic Brain Injuries 505
Allan H. Ropper
- 45** Multiple Sclerosis and Other Demyelinating Diseases 513
Stephen L. Hauser, Douglas S. Goodin
- 46** Meningitis, Encephalitis, Brain Abscess, and Empyema 533
Karen L. Roos, Kenneth L. Tyler
- 47** Chronic and Recurrent Meningitis. 568
Walter J. Koroshetz, Avindra Nath
- 48** HIV Neurology 577
Anthony S. Fauci, H. Clifford Lane
- 49** Primary and Metastatic Tumors of the Nervous System. 591
Lisa M. DeAngelis, Patrick Y. Wen
- 50** Paraneoplastic Neurologic Syndromes and Autoimmune Encephalitis 606
Josep Dalmau, Myrna R. Rosenfeld
- 51** Anterior Pituitary Tumor Syndromes 615
Shlomo Melmed, J. Larry Jameson
- 52** Disorders of the Neurohypophysis 635
Gary L. Robertson
- 53** Peripheral Neuropathy 648
Anthony A. Amato, Richard J. Barohn
- 54** Guillain-Barré Syndrome and Other Immune-Mediated Neuropathies 681
Stephen L. Hauser, Anthony A. Amato
- 55** Myasthenia Gravis and Other Diseases of the Neuromuscular Junction 691
Daniel B. Drachman, Anthony A. Amato
- 56** Muscular Dystrophies and Other Muscle Diseases 700
Anthony A. Amato, Robert H. Brown, Jr.
- 57** Polymyositis, Dermatomyositis, and Inclusion Body Myositis. 730
Marinos C. Dalakas
- 58** Special Issues in Inpatient Neurologic Consultation 742
S. Andrew Josephson, Martin A. Samuels

SECTION IV

CHRONIC FATIGUE SYNDROME

- 59** Chronic Fatigue Syndrome 752
Gijs Bleijenberg, Jos W. M. van der Meer

SECTION V

PSYCHIATRIC DISORDERS

- 60** Biology of Psychiatric Disorders 758
Robert O. Messing, Eric J. Nestler
- 61** Mental Disorders 765
Victor I. Reus
- 62** Neuropsychiatric Illnesses in War Veterans 788
Charles W. Hoge

SECTION VI

ALCOHOLISM AND DRUG DEPENDENCY

- 63** Alcohol and Alcoholism 798
Marc A. Schuckit
- 64** Opioid-Related Disorders 807
Thomas R. Kosten, Colin N. Haile

- 65** Cocaine and Other Commonly Abused
Drugs 813
Nancy K. Mello, Jack H. Mendelson

- 66** Nicotine Addiction 821
David M. Burns

Appendix

- Laboratory Values of Clinical Importance. 827
*Alexander Kratz, Michael A. Pesce,
Robert C. Basner, Andrew J. Einstein*

- Review and Self-Assessment.** 849
*Charles M. Wiener, Cynthia D. Brown,
Brian Houston*

- Index** 887