Contents

Contributors, viii
Series Foreword, xii
Preface, xiii
List of Abbreviations, xiv
About the Companion Website, xxi

PART 1: INTRODUCTION

1 Neurologic History and Examination, 3
   Stuart C. Sealfon

2 Neuroradiology, 13
   Thomas P. Naidich, Reade De Leacy, and Ruby J. Lien

3 Neurophysiologic and Other Neurodiagnostic Tests, 22
   Susan Shin, Sarah Zubkov, Deborah R. Horowitz, and David M. Simpson

PART 2: DIAGNOSIS OF PATIENTS WITH NEUROLOGIC SYMPTOMS

4 Delirium and Coma, 49
   Stephen Krieger

5 Episodic Collapse, Loss of Consciousness, Seizures, 59
   Lara V. Marcuse and Madeline C. Fields

6 Dysphasias, Dyspraxias, and Dysexecutive Syndromes:
   The Non-Memory Cognitive Impairments, 65
   Martin Goldstein

7 Memory Loss and Dementia, 93
   Sam Gandy

8 Headache, 102
   Mark W. Green

9 Abnormal Movements and Incoordination, 108
   Winona Tse
Contents

10 Sleep Disorders, Somnolence, and Fatigue, 120
   Charles B. Stacy

11 Visual Loss and Double Vision, 126
   Janet C. Rucker

12 Vertigo, Dizziness, and Hearing Loss, 144
   Bernard Cohen and Eric Smouha

13 Facial Weakness, Slurred Speech, and Difficulty Swallowing, 156
   Hailun Wang and Kenneth W. Altman

14 Difficulty Walking, 164
   Ruth H. Walker

15 Muscle Weakness and Paralysis, 171
   Rajeev Motiwala

16 Tingling and Loss of Sensation, 180
   Lan Zhou

17 Low Back Pain and Neck Pain, 186
   Charles B. Stacy

18 Suspected Spinal Cord Dysfunction, 192
   Aaron Miller

19 Bladder and Sexual Dysfunction, 201
   Steven J. Weissbart and Jonathan M. Vapnek

PART 3: NEUROLOGIC DISEASES AND THERAPEUTICS

20 Vascular Diseases: Ischemic Stroke, Intracerebral and Subarachnoid Hemorrhage, Cerebral Venous Thrombosis, Arterio-Venous Malformations, 215
   Stanley Tuhrim

21 Neurologic Complications of Systemic Disease, 228
   Michelle T. Fabian

22 Neuro-Oncology, 239
   Isabelle M. Germano

23 Multiple Sclerosis and Other Inflammatory Diseases, 249
   Fred D. Lublin

24 Infections of the Nervous System, 259
   Michael P. Mullen and Geena Varghese

25 Parkinson's Disease and Related Disorders, 271
   Barbara Kelly Changizi

26 Hyperkinetic Movement Disorders, 282
   Ritesh A. Ramdhani and Steven J. Frucht
27 Alzheimer’s Disease and Frontotemporal Dementia, 295
   Sam Gandy

28 Cerebellar and Brainstem Disorders, 307
   Florence Ching-Fen Chang and Catherine Cho

29 Inborn Errors of Metabolism, 326
   Shannon E. Babineau

30 Epilepsy, 340
   Madeline C. Fields and Lara V. Marcuse

31 Autonomic Disorders, 351
   Jessica Robinson-Papp

32 Peripheral Neuropathies, 360
   Rajeev Motiwala

33 Myopathy, 369
   Lan Zhou

34 Neuromuscular Junction Disorders, 380
   Mark A. Sivak

35 Motor Neuron Disease, 393
   Mark A. Sivak

36 Metabolic Encephalopathy, Hypoxic-Ischemic Encephalopathy, and Brain Death, 403
   Mandip S. Dhamoon

37 Pain Disorders, 410
   Charles B. Stacy

38 Migraine and Other Headache Disorders, 420
   Mark W. Green

39 Sleep Disorders, 431
   Steven H. Feinsilver

40 Neurocritical Care, 440
   Errol L. Gordon

41 Trauma, 451
   Jeremy M. Steinberger, Margaret Pain, and Jamie S. Ullman

42 Postoperative Neurosurgical Patients, 464
   Justin Mascitelli, Asha Iyer, and Joshua Bederson

Index, 476