

Contents

List of contributors page xi

Foreword xxi

Preface xxiii

Acknowledgments xxiv

Section 1 – Differential Diagnosis of Abnormal Symptoms and Signs

- 1 **Introduction: localization and differential diagnosis in neurology** 1
Alan B. Ettinger and Deborah M. Weisbrot
- 2 **Agitation** 12
Angela Scicutella and Durga Roy
- 3 **Agnosias** 18
Marlene Behrmann and Maxim D. Hammer
- 4 **Anxiety and panic** 22
Kenneth R. Kaufman
- 5 **Aphasia** 34
Gad E. Klein and Dragana Micic
- 6 **Apraxia** 41
Jasvinder Chawla and Noam Epstein
- 7 **Ataxia, acute or subacute** 45
Jay Elliot Yasan
- 8 **Ataxia, subacute or chronic** 55
Amanda J. Thompson and S. H. Subramony
- 9 **Attentional problems** 61
Lenard A. Adler, Thomas M. Boes, David M. Shaw, and Samuel Alperin
- 10 **Autonomic failure or syndromes** 70
Rajpal Singh and Joe Colombo
- 11 **Bulbar and pseudobulbar palsy** 82
Eric R. Eggenberger and David Clark
- 12 **Catatonic-like states** 84
Edward Firouztaie

- 13 **Chorea** 89
Ruth H. Walker
- 14 **Coma** 96
Galen V. Henderson and Alan B. Ettinger
- 15 **Dementia** 106
Howard Crystal and Diana Rojas-Soto
- 16 **Depression** 119
Yelizaveta Sher and John J. Barry
- 17 **Diplopia** 129
Deborah I. Friedman
- 18 **Dissociative disorder** 135
Danielle G. Koby and W. Curt LaFrance, Jr.
- 19 **Dizziness** 139
Martin Gizzi and Manpreet Multani
- 20 **Drop attacks** 145
Lourdes Bello-Espinosa
- 21 **Dysarthria** 149
David B. Rosenfield
- 22 **Dysphagia** 152
Jessica A. Shields and Anne L. Foundas
- 23 **Dystonia** 158
Ritesh A. Ramdhani and Steven J. Frucht
- 24 **Eating disorders** 164
Nina Kirz and Vandana Aspen
- 25 **Eye movements, abnormal** 167
Heather E. Moss
- 26 **Falls** 170
Christyn M. Edmundson and Steven A. Sparr

- 27 **Foot drop** 178
Pinky Agarwal and Ryan J. Zehnder
- 28 **Gait abnormalities** 182
Michael A. Williams and Scott E. Brown
- 29 **Hallucinations, visual** 188
Victoria S. Pelak
- 30 **Headache** 191
Ira M. Turner and Richard B. Lipton
- 31 **Hearing deficit** 197
David A. Gudis and Michael J. Ruckenstein
- 32 **Hypersomnolence** 202
Jeffrey S. Durmer and Heidi D. Riney
- 33 **Incontinence** 208
Cara Tannenbaum and Nelly Faghani
- 34 **Mania and bipolar symptoms** 214
Christopher P. Kogut and James L. Levenson
- 35 **Medically unexplained symptoms** 218
Eve G. Spratt and Ryan R. Byrne
- 36 **Memory loss and cognitive decline – acute and subacute amnesia** 223
Max C. Rudansky, Jacques Winter, Alan Mazurek, Fawaz Al-Mufti, and Alan B. Ettinger
- 37 **Mental status change, acute [and delirium]** 236
G. Bryan Young, Teneille G. Gofton, and Alan B. Ettinger
- 38 **Movement disorders in psychiatric disorders** 242
Gregory M. Pontone
- 39 **Movements, facial** 247
Kevin M. Biglan and Annie Killoran
- 40 **Movements, focal, clonic** 250
Daniel J. Luciano and Siddhartha Nadkarni
- 41 **Movements, complex motor activity** 253
Siddhartha Nadkarni and Daniel J. Luciano
- 42 **Movements during sleep** 258
Michael J. Thorpy
- 43 **Movements, tonic-clonic type** 262
Daniel J. Luciano and Siddhartha Nadkarni
- 44 **Mutism** 266
Gaia Donata Oggioni and Alberto J. Espay
- 45 **Myalgia, cramps** 270
Gary P. Kaplan and Rina Caprarella
- 46 **Myoclonus** 274
Venkat Ramani, David Elliott Friedman, and Mehri Songhorian
- 47 **Myotonia** 282
Beth Stein and Steven Herskovitz
- 48 **Nystagmus** 287
Sarita B. Dave and Patrick J. M. Lavin
- 49 **Ophthalmoparesis, gaze conjugate lateral deficit and conjugate vertical deficit** 299
Matthew J. Thurtell
- 50 **Pain, arm** 304
Robert Duarte
- 51 **Pain, back** 308
Michael Ronthal
- 52 **Pain, eye** 312
Mark Beyer and Deepak Grover
- 53 **Pain, face** 316
Egilius L. H. Spiersings
- 54 **Pain, neck** 325
Louis J. Goodrich and Ajay Berdia
- 55 **Papilledema** 332
Don C. Bienfang
- 56 **Paresthesias** 337
George D. Baquis and Anant M. Shenoy
- 57 **Parkinson's disease and related extrapyramidal syndromes** 340
Oded Gerber, Fawaz Al-Mufti, and Alan B. Ettinger
- 58 **Proptosis [exophthalmos]** 346
Luis J. Mejico and Laryssa A. Huryn
- 59 **Psychosis, thought disorder** 349
Ramses Ribot and Andres M. Kanner
- 60 **Ptosis** 355
Andrew R. Harrison, Ali Mokhtarzadeh, and Juwan Park

- 61 **Pupil constriction and Horner's syndrome** 359
Robert C. Sergott and Scott Uretsky
- 62 **Pupil dilation** 365
Jade S. Schiffman, Rosa Ana Tang, Anastas F. Pass, and L. Anne Hayman
- 63 **Respiratory difficulties, neurologic causes** 375
Wan-Tsu W. Chang and Paul A. Nyquist
- 64 **Retardation, mental** 380
Tal Gilboa, Varda Gross-Tsur, Rolla Nuoman, and Alan B. Ettinger
- 65 **Seizure** 387
David J. Anschel
- 66 **Sensory deficits and abnormal sensations** 395
Paul W. Brazis
- 67 **Sensory deficits in the face** 405
Jeffrey A. Brown and Alan B. Ettinger
- 68 **Smell deficit** 408
Richard L. Doty and Hakan Tekeli
- 69 **Spasm, hemifacial** 412
Jagga Rao Alluri
- 70 **Stroke and hemorrhage syndromes** 414
George C. Newman and Aparna M. Prabhu
- 71 **Stroke in adults, etiologies** 432
Susan W. Law and Daniel M. Rosenbaum
- 72 **Stroke in the young, etiologies** 444
Walter J. Molofsky
- 73 **Syncope** 450
Todd J. Cohen
- 74 **Tinnitus** 454
Eric E. Smouha and Grace M. Charles
- 75 **Tremor** 458
Odi Oguh, Esther Baldinger, and Tanya Simuni
- 76 **Vertigo** 465
Maroun T. Semaan
- 77 **Visual field deficits** 477
Scott Uretsky
- 78 **Visual loss, acute bilateral** 487
Robert M. Mallory and Misha L. Pless
- 79 **Visual loss, monocular** 494
Jeffrey Peterson, Rehan Ahmed, and Rod Foroozan
- 80 **Weakness, generalized acute** 497
Denis Ostrovskiy
- 81 **Weakness, hemiparesis** 502
Amit M. Shelat, Shicong Ye, and Malcolm H. Gottesman
- 82 **Weakness in the intensive care unit** 514
John J. Halperin
- 83 **Weakness, monomelic** 519
Casey A. Chamberlain and Michael Andary
- 84 **Weakness, neck** 525
Sindhu Ramchandren and Aashit K. Shah
- 85 **Weakness, paraparesis** 528
Friedhelm Sandbrink
- 86 **Weakness, proximal** 537
Georgios Manousakis and Glenn Lopate

Section 2 – Differential Diagnosis within Specific Localizations

- 87 **Cavernous sinus syndrome** 547
Vladimir Dadashev, Jonathan L. Brisman, and John Pile-Spellman
- 88 **Facial nerve palsy** 549
Philip Ragone
- 89 **Fourth nerve palsy** 552
Kristina Y. Pao and Mark L. Moster
- 90 **Myelopathy** 557
Amanda R. Bedford and Randall J. Wright
- 91 **Nerve, cranial: multiple deficit** 563
David Solomon and Jee Bang
- 92 **Neuropathy, axonal versus demyelinating** 573
Michael T. Pulley and Alan R. Berger
- 93 **Neuropathy, femoral** 580
Eva Sahay

94	Neuropathy, median and carpal tunnel	583	100	Plexopathy, lumbar	623
	Huiying Yu			Jean Robert Desrouleaux and Alan B. Ettinger	
95	Neuropathy, radial	587	101	Radiculopathy	631
	Padmaja Aradhya			Amtul Farheen and Bashar Katirji	
96	Neuropathy, sciatic	589	102	Sixth nerve palsy	635
	Julius Bazan and Pedro J. Torrico			Scott Uretsky	
97	Neuropathy, tibial	596	103	Third nerve palsy	642
	Reema Maindiratta			Claire A. Sheldon and Jason J. S. Barton	
98	Neuropathy, ulnar	601		<i>Index</i>	648
	Steven Ender				
99	Plexopathy, brachial	612			
	Michael Amoashiy, Prajwal Rajappa, and Caitlin Hoffman				
