Cambridge University Press 978-1-107-05386-1 - Parkinson's Disease: Current and Future Therapeutics and Clinical Trials Edited by Néstor Gálvez-Jiménez, Hubert H. Fernandez, Alberto J. Espay and Susan H. Fox Table of Contents More information

Contents

List of contributors vii Acknowledgments xi

Section I: The Pharmacological Basis for Parkinson's Disease Treatment

- 1 The pharmacological basis of Parkinson's disease therapy: an overview 1 Néstor Gálvez-Jiménez, Hubert H. Fernandez, Alberto J. Espay and Susan H. Fox
- Anticholinergic agents in the management of Parkinson's disease 5
 Juan Carlos Giugni and Ramon L. Rodriguez-Cruz
- 3 Amantadine and antiglutamatergic drugs in the management of Parkinson's disease 13 Marco Onofrj, Valerio Frazzini, Laura Bonanni and Astrid Thomas
- 4 Monoamine oxidase inhibitors in the management of Parkinson's disease 23 Sven-Eric Pålhagen
- 5 Oral dopamine agonists in the management of Parkinson's disease 34 Javier Pagonabarraga, Juan Marín-Lahoz and Jaime Kulisevsky
- 6 Subcutaneous, intranasal and transdermal dopamine agonists in the management of Parkinson's disease 48 Antoniya Todorova and K. Ray Chaudhuri
- Oral and infusion levodopa therapy in the management of Parkinson's disease 63
 M. Angela Cenci-Nilsson and Per Odin
- 8 Catechol-O-methyltransferase inhibitors in the management of Parkinson's disease 76 Ilana Schlesinger and Amos D. Korczyn

 Experimental pharmacological agents in the management of Parkinson's disease 83
 Krishe Menezes, Lawrence W. Elmer and Robert A. Hauser

Section II: Management of Nonmotor Symptoms of Parkinson's Disease

- 10 Management of autonomic dysfunction in Parkinson's disease 93Shen-Yang Lim and Ai Huey Tan
- Management of cognitive impairment in Parkinson's disease 111
 Dawn M. Schiehser, Eva Pirogovsky-Turk and Irene Litvan
- 12 A neurobehavioralist approach to the management of cognitive impairment in Parkinson's disease 122
 Po-Heng Tsai
- Management of disease-related behavioral disturbances in Parkinson's disease 127
 Joseph H. Friedman
- Management of treatment-related behavioral disturbances in Parkinson's disease 139
 Mayur Pandya, Dimitrios A. Nacopoulos and Naveed Khokhar
- Management of sleep disorders in Parkinson's disease 151
 Daniela Calandrella and Alberto Albanese
- 16 Management of pain and neuromuscular complications in Parkinson's disease 162Iohn A. Morren

V

Cambridge University Press 978-1-107-05386-1 - Parkinson's Disease: Current and Future Therapeutics and Clinical Trials Edited by Néstor Gálvez-Jiménez, Hubert H. Fernandez, Alberto J. Espay and Susan H. Fox Table of Contents More information

Contents

Section III: Surgical Management of Parkinson's Disease

- Thalamotomy, pallidotomy and subthalamotomy in the management of Parkinson's disease 175
 Malco Rossi, Daniel Cerquetti, Jorge Mandolesi and Marcelo Merello
- Deep-brain stimulation of the globus pallidus internus in the management of Parkinson's disease 187
 Lilia C. Lovera, Alberto J. Espay and Andrew P. Duker
- Deep-brain stimulation of the subthalamic nucleus in the management of Parkinson's disease 195
 David A. Schmerler, Alberto J. Espay and Andrew P. Duker
- 20 Deep-brain stimulation of the thalamic ventral intermediate nucleus in the management of Parkinson's disease 206
 Diana Apetauerova, Jay L. Shils and Peter K. Dempsey
- 21 Emerging targets and other stimulation-related procedures in the management of Parkinson's disease 216
 Tiago A. Mestre and Elena Moro

Section IV: Clinical Trials in Parkinson's Disease: Lessons, Controversies and Challenges

- Rating scales and clinical outcome measures in the evaluation of patients with Parkinson's disease 231
 Pablo Martinez-Martin and Carmen Rodríguez-Blázquez
- Functional imaging markers as outcome measures in clinical trials for Parkinson's disease 242
 Ryan R. Walsh

- Cerebrospinal fluid and blood biomarkers as outcome measures in clinical trials for Parkinson's disease 249
 Thomas F. Tropea and Claire Henchcliffe
- Lessons learned: neuroprotective trials in Parkinson's disease 265
 Isabelle Beaulieu-Boire and Anthony E. Lang
- Lessons learned: symptomatic trials in early
 Parkinson's disease 280
 Ramon Lugo-Sanchez and Néstor Gálvez-Jiménez
- 27 Controversy: globus pallidus internus versus subthalamic nucleus deep-brain stimulation in the management of Parkinson's disease 287 Sarah K. Bourne, Sean J. Nagel and Darlene A. Lobel
- Controversy: ablative surgery vs deep-brain stimulation in the management of Parkinson's disease 297
 Gian D. Pal and Leo Verhagen Metman
- Controversy: midstage vs advanced-stage deep-brain stimulation in the management of Parkinson's disease 313
 Mallory L. Hacker and David Charles
- 30 Lessons and challenges of trials for cognitive and behavioral complications of Parkinson's disease 325
 Daniel Weintraub and Lama M. Chahine
- 31 Lessons and challenges of trials for other nonmotor complications of Parkinson's disease 337 Federico E. Micheli and Carlos Zúñiga-Ramírez
- 32 Lessons and challenges of trials involving ancillary therapies for the management of Parkinson's disease 349
 Chris J. Hass, Elizabeth L. Stegemöller, Madeleine E. Hackney and Joe R. Nocera

Index 361

Color plate section between pp. 324 and 325

vi