

Contents

List of contributors vii

Preface xi

Section 1 – General aspects

- 1 **Overview of Parkinson's disease: epidemiology, diagnosis, course, medical and surgical management** 1
Sheila R. Eichenseer and Christopher G. Goetz
- 2 **Parkinson's disease: pathology, anatomy, and behavior** 14
Daniel J. Burdick and James B. Leverenz
- 3 **The genetics of behavior and cognition in Parkinson's disease** 25
Caroline H. Williams-Gray and Roger A. Barker
- 4 **The boundaries of Parkinson's disease dementia and dementia with Lewy bodies** 40
Elisabet Londos

Section 2 – Diagnosis and biomarkers

- 5 **Cognitive assessment in Parkinson's disease** 53
Jaime Kulisevsky, Saül Martínez-Horta, and Javier Pagonabarraga
- 6 **Clinical assessment: mood and motivation** 65
Albert F. G. Leentjens
- 7 **Imaging and behavior in Parkinson's disease: structural imaging** 73
Mona K. Beyer, Turi O. Dalaker, and Liana G. Apostolova
- 8 **Imaging and behavior in Parkinson's disease: functional imaging** 89
Agneta Nordberg

- 9 **Diagnosis and biomarkers: CSF** 97
Brit Mollenhauer and Henrik Zetterberg

Section 3 – Specific neuropsychiatric disorders

- 10 **Depression** 109
Per Svenningsson and Dag Aarsland
- 11 **Anxiety** 119
Laura Marsh and Jessica Calleo
- 12 **Apathy** 131
Kathy Dujardin
- 13 **Impulse control disorders and related behaviors** 140
Daniel Weintraub and Irena Rektorova
- 14 **Psychosis** 153
Oscar Bernal-Pacheco and Hubert H. Fernandez
- 15 **Early cognitive impairment** 163
Alexander I. Tröster and Dag Aarsland
- 16 **Parkinson's disease dementia** 177
Başar Bilgiç, Haşmet A. Hanağası, and Murat Emre
- 17 **Sleep disturbances** 192
Pouya Movahed, Kristina Røkenes Karlsen, and K. Ray Chaudhuri

Section 4 – Management

- 18 **Drug treatment and behavior** 211
Jaime Kulisevsky, Javier Pagonabarraga, and Carolina Villa-Bonomo

- 19 **Surgical treatment and behavior** 230
Jens Volkmann and Christine Daniels
- 20 **Clinical trials for psychotropic agents in Parkinson's disease using psychosis as a model** 244
Ryan R. Walsh and Jeffrey Cummings

Section 5 – Other issues

- 21 **The impact of neuropsychiatric symptoms on quality of life in Parkinson's disease** 255
Angelo Antonini and Pablo Martinez-Martin
- 22 **Neuropsychiatric and cognitive disorders in other parkinsonian disorders** 261
Adam Gerstenecker, Benjamin T. Mast, and Irene Litvan

- 23 **Neuropsychiatric aspects of the on/off phenomenon** 275
Irena Rektorova and Marek Balaz
- 24 **Treatment of neuropsychiatric disturbances in Parkinson's disease: future prospects and strategies** 285
Jeffrey Cummings and Dag Aarsland

Index 292

Color plates will be found between pages 148 and 149

