Parkinson’s disease and parkinsonism in the elderly

Parkinson’s disease and parkinsonism are particular problems in the elderly, causing disability and impairing quality of life. This book covers the clinical features, diagnosis and management of Parkinson’s disease in elderly people, dealing not only with the motor symptoms but also problems such as depression and autonomic nervous system dysfunction. It stresses particularly the importance of rehabilitation and total patient care.

Topics covered include:
• Differential diagnosis and epidemiology
• Drug-induced parkinsonism and gait apraxia
• The drug treatment of elderly patients
• Cognitive impairment in elderly patients with Parkinson’s disease
• The multidisciplinary rehabilitation team

A comprehensive, practical and enlightened account of Parkinson’s disease in the elderly, drawing on international experts, this book will appeal to clinicians in the various disciplines involved with neurological disease and rehabilitation in elderly people.

Jolyon Meara is Senior Lecturer in Geriatric Medicine at the University of Wales College of Medicine.
William C. Koller is Professor of Neurology at the University of Kansas Medical Center.
Parkinson’s disease and parkinsonism in the elderly

Edited by

Dr Jolyon Meara
University Department of Geriatric Medicine (North Wales)

and

Professor William C Koller
University of Kansas Medical Center, Kansas City
# Contents

List of contributors  page vii  
Foreword  ix  

## 1 A glossary of terms  
Jolyon Meara  1  

## 2 Diagnosis of parkinsonism in the elderly  
Robert L. Rodnitzky  4  

## 3 Parkinson’s disease and parkinsonism in the elderly  
Jolyon Meara and Bimal K. Bhowmick  22  

## 4 Drug-induced parkinsonism in the elderly  
Jean P. Hubble  64  

## 5 Essential tremor in the elderly  
Rajesh Pahwa and William C. Koller  80  

## 6 Gait apraxia and multi-infarct states  
Richard Liston and Raymond C. Tallis  98  

## 7 The epidemiology of Parkinson’s disease and parkinsonism in elderly subjects  
Jolyon Meara and Peter Hobson  111  

## 8 Health and social needs of people with Parkinson’s disease and the worldwide organization of their care  
Peter Hobson  122  

## 9 The drug treatment of Parkinson’s disease in elderly people  
Theresa A. Zesiewicz and Robert A. Hauser  134
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Rehabilitation in Parkinson’s disease and parkinsonism</td>
<td>165</td>
</tr>
<tr>
<td></td>
<td>Christopher D. Ward</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Rehabilitation, nursing and elderly patients with Parkinson’s disease</td>
<td>185</td>
</tr>
<tr>
<td></td>
<td>Sally Roberts</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Rehabilitation, physiotherapy and elderly patients with Parkinson’s</td>
<td>198</td>
</tr>
<tr>
<td></td>
<td>disease</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hilary Chatterton and Brenda Lövgreen</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Rehabilitation, occupational therapy and elderly patients with</td>
<td>217</td>
</tr>
<tr>
<td></td>
<td>Parkinson’s disease</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Jackie Hughes</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Rehabilitation, speech and language therapy and elderly patients with</td>
<td>226</td>
</tr>
<tr>
<td></td>
<td>Parkinson’s disease</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sheena Round</td>
<td></td>
</tr>
</tbody>
</table>

Index                                                                 | 240  |
Contributors

Bimal K. Bhownick MD FRCP
Consultant Physician in Geriatric Medicine,
Glan Clwyd District General Hospital, Rhyl,
Denbighshire, North Wales LL18 5UJ, UK.

Hilary Chatterton MSC MCSP
Lecturer, School of Physiotherapy,
Manchester Royal Infirmary, Manchester
M13 9WL, UK.

Robert A. Hauser MD
Associate Professor, College of Medicine,
University of South Florida, Department of
Neurology, Harbour Side, Medical Tower, 4
Columbia Drive, Suite 410, Tampa, Florida
33606, USA.

Peter Hobson BSc
University Department of Geriatric
Medicine, Glan Clwyd District General
Hospital, Rhyl, Denbighshire, North Wales
LL18 5UJ, UK.

Jean P. Hubble MD
Co-Medical Director, The Ohio State
University, University Medical Center, 1581
Dodd Drive, McCampbell Hall, Suite 371,
Columbus, Ohio 43210, USA.

Jackie Hughes Dip COT
Occupational Therapist, Colwyn Bay
Community Hospital, Colwyn Bay, Conwy,
North Wales LL29 8AY, UK.

William C. Koller MD PhD
Professor and Chairman, Department of
Neurology, The University of Kansas
Medical Center, 3901 Rainbow Boulevard,
Kansas City, Kansas 66160, USA.

Richard Liston FRCP
Consultant Physician in Geriatric Medicine,
Tralee General Hospital, Tralee, County
Kerry, Eire.

Brenda Lövgreen MSC MCSP
Lecturer, School of Physiotherapy,
Manchester Royal Infirmary, Manchester
M13 9WL, UK.

Jolyon Meara MD FRCP
Senior Lecturer in Geriatric Medicine,
University of Wales College of Medicine,
Glan Clwyd District General Hospital, Rhyl,
Denbighshire, North Wales LL18 5UJ, UK.

Rajesh Pahwa MD
Assistant Professor, Department of
Neurology, School of Medicine, The
University of Kansas Medical Center,
3901 Rainbow Boulevard, Kansas City,
Kansas 66160, USA.

Sally Roberts RGN
Parkinson’s Disease Nurse, Health Care of
the Elderly Department, Glan Clwyd District
Hospital, Rhyl, Denbighshire, North Wales
LL18 5UJ, UK.
List of contributors

Robert L. Rodnitzky MD
Professor of Neurology, The University of Iowa Hospitals and Clinics, Department of Neurology, 200 Hawkins Drive, Iowa City, Iowa 52242–1053, USA.

Sheena Round BSc Dip CCS MCLT
Speech and Language Therapist, Glan Clwyd District General Hospital, Rhyl, Denbighshire, North Wales LL18 5UJ, UK.

Raymond C. Tallis D Litt FRCP
Professor of Geriatric Medicine, The University of Manchester, Hope Hospital, Manchester M6 8HD, UK.

Christopher D. Ward MD FRCP
Professor of Rehabilitation Medicine, University of Nottingham, Faculty of Medicine and Health Sciences, Rehabilitation Research Unit, Derby City General Hospital, Uttoxeter Road, Derby DE22 3NE, UK.

Theresa A. Zesiewicz MD
Associate Professor of Neurology, College of Medicine, University of South Florida, Department of Neurology, Harbour Side Medical Tower, 4 Columbia Drive, Suite 410, Tampa, Florida 33606, USA.
Foreword

No illness can be contained in a vacuum and Parkinson's disease is no exception. Legislation by Governments, awareness and real understanding of this challenging illness by the healthcare professionals, and the change in the demographic profile of our nation will have major implications for the families impacted by this illness.

The population of the world is living longer and with old age there are increasing numbers of chronic neurological illness such as stroke, Alzheimer’s and Parkinson’s – and yet these people attract scant attention. Parkinson’s in the elderly is a common clinical problem. Failure to manage it well results in distress and guilt within a family and expenditure of untargeted resources within the community.

This book examines the diagnosis and the management of Parkinson’s in both the UK and USA. The editors are distinguished not only by their expertise in the management of Parkinson’s but also well known for their compassion and desire to improve services.

Our elderly population should benefit from the contents of this book and I rejoice that such eminent people have given their time and expertise to contribute to such a worthwhile project.

Mary G Baker MBE

President of the European Parkinson's Disease Association (EPDA)