

# Contents

|  |           |
|--|-----------|
| <b>1. Clinical Signs and Symptoms of Parkinson's Disease</b>                           | <b>1</b>  |
| Introduction   | 1         |
| Epidemiology of Parkinson's Disease  | 1         |
| Risk Factors of Parkinson'S Disease  | 3         |
| Symptoms   | 3         |
| Advanced Parkinson's Disease   | 7         |
| Summary  | 8         |
| <b>2. Parkinson's Disease: Pathophysiology and Diagnosis</b>                           | <b>10</b> |
| Pathophysiology  | 10        |
| Diagnosis of Parkinson's Disease   | 11        |
| Management of Parkinson's Disease  | 15        |
| Summary  | 17        |
| <b>3. Role of Amantadine in Parkinson's Disease</b>                                    | <b>19</b> |
| Introduction and Basic Chemistry   | 19        |
| Pharmacodynamic  | 19        |
| Mechanism of Action of Amantadine  | 20        |
| Clinical Indications   | 22        |
| Pharmacokinetic Properties   | 23        |
| Summary  | 26        |
| <b>4. Clinical Efficacy and Safety of Amantadine</b>                                   | <b>28</b> |
| Efficacy of Amantadine in Levodopa-induced Dyskinesia in Parkinson's Disease           | 28        |
| Postural Reflex Impairment In Parkinson's Disease                                      | 31        |
| Efficacy of Amantadine In Freezing of Gait   | 31        |
| Duration of Amantadine Benefit on Dyskinesia of Severe Parkinson's Disease             | 33        |
| Amantadine Effectiveness in Multiple System Atrophy and Progressive Supranuclear Palsy | 34        |
| Use of Amantadine in Other Disorders   | 37        |
| Summary  | 39        |

|   |           |
|---|-----------|
| <b>5. Amantadine: Dosage, Adverse Effects, and Drug–Drug Interactions</b> | <b>42</b> |
| Dosage and Administration   | 42        |
| Overdosage of Amantadine  | 43        |
| Adverse Effects   | 44        |
| Monitoring  | 46        |
| Contraindications   | 46        |
| Drug–Drug Interactions  | 47        |
| Summary   | 47        |
| <b>Index</b>  | <b>49</b> |