

# Table of Contents

|                                                                      |           |
|----------------------------------------------------------------------|-----------|
| Acknowledgements . . . . .                                           | v         |
| <b>1 Description . . . . .</b>                                       | <b>1</b>  |
| 1.1 Terminology . . . . .                                            | 1         |
| 1.2 Definition . . . . .                                             | 1         |
| 1.2.1 Diagnostic Criteria . . . . .                                  | 1         |
| 1.2.2 Applicability of Criteria for Adults . . . . .                 | 4         |
| 1.3 Epidemiology . . . . .                                           | 5         |
| 1.3.1 Prevalence and Incidence . . . . .                             | 5         |
| 1.3.2 Sex . . . . .                                                  | 5         |
| 1.3.3 Age . . . . .                                                  | 6         |
| 1.3.4 Ethnicity . . . . .                                            | 6         |
| 1.4 Course and Prognosis . . . . .                                   | 7         |
| 1.5 Differential Diagnosis . . . . .                                 | 10        |
| 1.5.1 Disruptive, Impulse-Control, and Conduct Disorders . . . . .   | 12        |
| 1.5.2 Depressive Disorders . . . . .                                 | 13        |
| 1.5.3 Anxiety Disorders . . . . .                                    | 13        |
| 1.5.4 Trauma and Stress-Related Disorders . . . . .                  | 13        |
| 1.5.5 Bipolar and Related Disorders . . . . .                        | 14        |
| 1.5.6 Personality Disorders . . . . .                                | 14        |
| 1.5.7 Substance-Related and Addictive Disorders . . . . .            | 15        |
| 1.5.8 Neurodevelopmental, Physical, and Medical Conditions . . . . . | 15        |
| 1.5.9 Environmental and Psychosocial Factors . . . . .               | 16        |
| 1.6 Comorbidity . . . . .                                            | 16        |
| 1.6.1 Disruptive, Impulse-Control, and Conduct Disorders . . . . .   | 17        |
| 1.6.2 Depressive Disorders . . . . .                                 | 17        |
| 1.6.3 Anxiety Disorders . . . . .                                    | 18        |
| 1.6.4 Bipolar and Related Disorders . . . . .                        | 18        |
| 1.6.5 Substance-Related and Addictive Disorders . . . . .            | 18        |
| 1.6.6 Personality Disorders . . . . .                                | 19        |
| 1.6.7 Sleep-Wake Disorders . . . . .                                 | 19        |
| 1.7 Diagnosis . . . . .                                              | 20        |
| 1.7.1 Diagnostic Interviews . . . . .                                | 21        |
| 1.7.2 Rating Scales . . . . .                                        | 21        |
| 1.7.3 Psychoeducational Testing . . . . .                            | 23        |
| 1.7.4 Neuropsychological Testing . . . . .                           | 24        |
| 1.7.5 Laboratory Testing . . . . .                                   | 24        |
| <b>2 Theories and Models of ADHD in Adults . . . . .</b>             | <b>26</b> |
| 2.1 Neurobiological Factors in ADHD . . . . .                        | 26        |
| 2.1.1 Genetic Contributions . . . . .                                | 26        |
| 2.1.2 Neurological Factors . . . . .                                 | 27        |
| 2.1.3 Cognitive Determinants . . . . .                               | 29        |
| 2.2 Environmental Risk Factors . . . . .                             | 30        |
| 2.2.1 Biological Adversity Factors . . . . .                         | 31        |

- 2.2.2 Environmental Toxins . . . . . 31
  - 2.2.3 Food Additives and Dietary Factors . . . . . 32
  - 2.3 Psychosocial Adversity Factors . . . . . 32
  - 2.4 Interactions Among Neurobiological, Environmental, and  
Psychosocial Adversity Factors . . . . . 32
- 3      Diagnosis and Treatment Indications . . . . . 34**
  - 3.1 Assessment Procedures . . . . . 34
    - 3.1.1 General Considerations . . . . . 35
    - 3.1.2 Developmental History . . . . . 36
    - 3.1.3 Clinical Interview . . . . . 36
    - 3.1.4 Behavioral Rating Scales . . . . . 39
    - 3.1.5 Differential Diagnosis and Comorbidities . . . . . 40
    - 3.1.6 Testing . . . . . 40
  - 3.2 The Decision-Making Process . . . . . 41
  - 3.3 Treatment Considerations . . . . . 42
- 4      Treatment . . . . . 45**
  - 4.1 Methods of Treatment . . . . . 45
  - 4.2 Psychopharmacology . . . . . 46
    - 4.2.1 Stimulant Medications . . . . . 48
    - 4.2.2 Nonstimulant Medications . . . . . 50
  - 4.3 Psychosocial and Psychological Therapies . . . . . 52
    - 4.3.1 Coaching and Cognitive Behavior Therapy . . . . . 52
    - 4.3.2 Meta-Cognitive Therapy and Time-Management and  
Organizational Skills Training . . . . . 52
    - 4.3.3 Supportive and Family Therapies . . . . . 54
    - 4.3.4 Neurofeedback and Cognitive Enhancement Training . . . . . 54
    - 4.3.5 Psychoeducation . . . . . 54
  - 4.4 Variations and Combinations of Methods . . . . . 55
  - 4.5 Mechanisms of Action . . . . . 58
  - 4.6 Treating Adults With ADHD and Comorbid Conditions . . . . . 59
    - 4.6.1 Pharmacological Considerations . . . . . 59
    - 4.6.2 Psychotherapeutic Considerations . . . . . 61
  - 4.7 Problems in Carrying Out the Treatments . . . . . 63
  - 4.8 Efficacy and Prognosis . . . . . 64
  - 4.9 Multicultural Issues . . . . . 67
- 5      Case Vignettes . . . . . 68**
  - 5.1 Julie (A College Student) . . . . . 68
  - 5.2 Peter (An Adult) . . . . . 70
- 6      Further Reading . . . . . 72**
- 7      References . . . . . 74**
- 8      Appendix: Tools and Resources . . . . . 86**