

Contents

List of Contributors ix

-
- | | |
|---|--|
| <ol style="list-style-type: none"> 1. The Natural History of Epilepsy 1
Byungin Lee and Sung-Eun Kim 2. Challenges in Identifying Medication-Resistant Epilepsy 14
Martin J. Brodie and Pauls Auce 3. International League Against Epilepsy's Definition of Medication-Resistant Epilepsy 20
Colin B. Josephson and Samuel Wiebe 4. The Economic Impact of Medication-Resistant Epilepsy 27
Charles E. Begley and Shin Jeong 5. Social Consequences of Medication-Resistant Epilepsy 34
Amy Crepeau and Joseph I. Sirven 6. Mortality and Morbidity of Medication-Resistant Epilepsy 39
Nuria Lacuey and Samden D. Lhatoo 7. Models for Medication-Resistant Epilepsy 51
Raman Sankar 8. Neurobiology of Medication-Resistant Epilepsy 62
Jerome Engel Jr 9. Genetic Causes of Medication-Resistant Epilepsy 69
Thomas N. Ferraro, Bradford D. Fischer and Russell J. Buono 10. Malformations of Cortical Development as Causes of Medication-Resistant Epilepsy 79
Ruben Kuzniecky 11. Hippocampal Sclerosis as a Cause of Medication-Resistant Epilepsy 87
Fahmida Amin Chowdhury, Beate Diehl and Maria Thom | <ol style="list-style-type: none"> 12. Autoimmune Causes of Medication-Resistant Epilepsy 100
Anteneh M. Feyissa and Jeffrey W. Britton 13. Medication-Resistant Epilepsy Syndromes in Children 118
Elia M. Pestana Knight and Elaine Wyllie 14. Medication-Resistant Epilepsy in Adults 158
Martin Holtkamp and Felix Benninger 15. Approach to the Treatment of Medication-Resistant Epilepsy 171
John M. Stern 16. Pharmacotherapy for Medication-Resistant Epilepsy 179
Graham A. Powell and Anthony G. Marson 17. Reproductive Health for Women with Medication-Resistant Epilepsy 187
Jiyeoun Yoo and Cynthia Harden 18. Resective Surgery for Medication-Resistant Epilepsy 198
Barbara C. Jobst and Krzysztof A. Bujarski 19. Ablative Surgery for Medication-Resistant Epilepsy 210
Christian Hoelscher, Kofi-Buaku Atsina, Chengyuan Wu and Ashwini Sharan 20. Stimulation Treatment for Medication-Resistant Epilepsy 219 <ol style="list-style-type: none"> 1. Vagus and Trigeminal Nerve Stimulation 219
George Nune and Christianne Heck 2. Stimulation of the Anterior Nucleus of the Thalamus 224
Mohamad Z. Koubeissi and Amr Ewida 3. Responsive Neurostimulation of the Brain 230
Ritu Kapur and Martha J. Morrell |
|---|--|

Contents

- | | |
|---|---|
| 4. Transcranial Magnetic Stimulation 236
Lara M. Schrader | 23. Psychiatric Comorbidities in
Medication-Resistant Epilepsy 256
Andres M. Kanner |
| 21. Diet Therapy for Medication-Resistant
Epilepsy 241
Eric H. Kossoff and Daniel B. Lowenstein | |
| 22. Botanical Treatments for
Medication-Resistant Epilepsy 248
Steven C. Schachter | <hr/> <i>Index</i> 269 |