
Contents

- 1 Facial Pain Classification and Outcome Measurement, 1**
Shirley McCartney, PhD and Kim J. Burchiel, MD, FACS
- 2 Microvascular Decompression, 7**
Lauren Simpson, MD, MPH and Ahmed M. Raslan, MD, FAANS
- 3 Trigeminal Ganglion/Rootlets Ablation for Pain, 19**
Michael G.Z. Ghali, MD, PhD, MS, Ashwin Viswanathan, MD and Kim J. Burchiel, MD, FACS
- 4 Management of Peripheral Nerve Neuralgia, 27**
Andrew C. Zacest, MBBS, MS, FRACS, FFPMANZCA
- 5 Peripheral Nerve Stimulation, 35**
Garrett P. Banks, MD and Christopher J. Winfree, MD, FAANS
- 6 Spinal Cord Stimulation, 43**
Nataly Raviv, MD and Julie G. Pilitsis, MD, PhD
- 7 Advances in Spinal Modulation: New Stimulation Waveforms and Dorsal Root Ganglion Stimulation, 49**
Geoffrey Stricsek, MD and Steven M. Falowski, MD, FAANS
- 8 Occipital Nerve Stimulation, 55**
Michael D. Staudt, MD, MSc and Jennifer A. Sweet, MD
- 9 Spinal Ablation for Cancer Pain (Cordotomy and Myelotomy), 63**
Ashwin Viswanathan, MD
- 10 Intrathecal Drug Delivery Systems for Pain: A Case-Based Approach, 69**
Christopher Miller, MD and Michael Kinsman, MD
- 11 Dorsal Root Entry Zone Lesioning for Brachial Plexus Avulsion Pain, 77**
Christopher C. Young, MBCHB, DPhil and Andrew L. Ko, MD
- 12 Trigeminal Tractotomy-Nucleotomy, 85**
Abigail Rao, MD and Ahmed M. Raslan, MD, FAANS
- 13 Presurgical Localization of Epilepsy, 89**
David C. Spencer, MD
- 14 Intraoperative Functional Cortical Localization, 101**
Erik C. Brown, MD, PhD and Ahmed M. Raslan, MD, FAANS
- 15 Vagus Nerve Stimulation, 109**
Colin Roberts, MD and Carli Bullis, MD

- 16 Stereoelectroencephalography (sEEG) Versus Grids and Strips, 113**
Geoffrey Stricsek, MD, Michael J. Lang, MD and Chengyuan Wu, MD, MSBmE
- 17 Transcortical Selective Microsurgical Amygdalohippocampectomy for Medically Intractable Seizures Originating in the Mesial Temporal Lobe, 121**
Kim J. Burchiel, MD, FACS and David C. Spencer, MD
- 18 Cortical Dysplasia and Extratemporal Resections in Epilepsy, 129**
Kunal Gupta, MBBChir (Cantab), PhD and Nathan R. Selden, MD, PhD (Cantab)
- 19 Responsive Neurostimulation, 137**
Lia de Leon Ernst, MD
- 20 Brain-Computer Interface (BCI), 143**
Isaac Josh Abecassis, MD and Andrew L. Ko, MD
- 21 Laser Interstitial Thermal Therapy, 153**
Purvee Patel, MD, Nitesh V Patel, MD and Shabbar F. Danish, MD, FAANS
- 22 Microelectrode Recording in Functional Neurosurgery, 177**
Michael D. Staudt, MD, MSc and Jonathan P. Miller, MD
- 23 CT-Guided Asleep DBS, 189**
Kim J. Burchiel, MD, FACS
- 24 Interventional MRI–Guided Deep Brain Stimulation, 199**
Paul S. Larson, MD
- 25 Surgical Treatment of Psychiatric Disorders, 209**
Heather N. Pinckard-Dover, MD and Erika A. Petersen, MD, FAANS, FACS
- 26 Closed-Loop and Responsive Neurostimulation, 223**
Kevin Mansfield, MD and Ahmed M. Raslan, MD, FAANS
- 27 Robotics in Stereotactic Neurosurgery, 235**
Geoffrey Stricsek, MD, Omaditya Khanna, MD and Chengyuan Wu, MD, MSBmE
- 28 Central and Peripheral Neurosurgical Ablative Techniques for Hypertonia, 243**
Walid Ahmed Abdel Ghany, MD, PhD and Mohamed Abdel Rahman Nada, MD, PhD
- 29 IDDS for Spasticity, Dystonia, and Rigidity, 263**
Jonathan Weyhenmeyer, MD, BSEE and Albert Lee, MD, MSECE, FACS
- INDEX, 277**