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Autore	Shah Abhidha
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Altri autori (Persone)	GoelAtul KatoYoko
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Nota di contenuto	Chapter 1. "Anatomy guided microneurosurgery of cerebral intrinsic lesions" (Guilherme Ribas, Eduardo Ribas) -- Chapter 2. An overview of Cortical and subcortical anatomy relevant for intra-axial brain surgery (Abhidha Shah, Aimee Goel, Atul Goel) -- Chapter 3. Impact of White Matter Dissection on the Resection of Intrinsic Brain Lesions (Ugur Ture) -- Chapter 4. An overview of conectomics and glioma surgery (Michael Shugrue) -- Chapter 5. Intraoperative testing of brain function – principles and techniques (Aliasgar Moiyadi) -- Chapter 6. Neural basis of language and its application to awake surgery (Masazumi Fuji) -- Chapter 7. Optic radiations monitoring in awake glioma surgery. Intraoperative campimetry (Pablo Gonzalez – Lopez) -- Chapter 8. New modalities and surgical methods aiding in maximization of tumor resection in awake surgery (Hirokazu Takami) -- Chapter 9. Surgical anatomy of the insula and insular gliomas (Mitch Berger) -- Chapter 10. Interpreting Imaging for pre-operative planning and execution of Glioma surgery (Jun Muto) -- Chapter 11. Origin and Spread of gliomas and Surgical Strategy for gliomas based on a Novel Surgical classification (Abhidha Shah, Atul Goel) -- Chapter 12. Surgery for

gliomas arising from the short arcuate fibers (Atul Goel, Abhidha Shah) -- Chapter 13. Anatomy of limbic system and surgery for limbic and paralimbic tumors (Abhidha Shah, Sukhdeep Jhawar, Atul Goel) -- Chapter 14. Medial temporal lobe tumors surgical anatomy and technique– Juan Carlos Fernandez (Miranda, Massimiliano Nunez) -- Chapter 15. Anatomy of basal forebrain and subcallosal region and orbital cortical approach to caudate head lesions (Atul Goel, Abhidha Shah) -- Chapter 16. Pineal region anatomy with clinical correlates (George Samandouras) -- Chapter 17. Anatomy of corpus callosum and surgery for corpus callosal tumors (Abhidha Shah, Atul Goel) -- Chapter 18. The central core of the brain (H. Wen, Eduardo Ribas) -- Chapter 19. Fiber anatomy of the brainstem and surgery for brainstem tumors (Abhidha Shah, Sukhdeep Jhawar, Massimiliano Nunez, Atul Goel) -- Chapter 20. Virtual reality surgical simulation and virtual reality surgical planning (Taichi Kin) -- Chapter 21. Artificial Intelligence for glioma surgery (Gleb Danilov).

Sommario/riassunto

This book essentially provides a refreshing description of the cortical and subcortical anatomy of the brain and how it relates to function. It includes subtleties of anatomy, advances in imaging, operative nuances, techniques, and a brief discussion about artificial intelligence. It discusses surgical strategies on intrinsic brain tumors in general and gliomas in particular with several images. The issues that need to be considered in decision-making are explained in this book. The best surgical options are described step-by-step. The relevant anatomy and function of the region are discussed and show the consequences of the damage. This book covers the intra-operative nuances to prevent neurological morbidity. Modern imaging features that help during surgery and decision-making are elaborated. The book is heavily illustrated with anatomical images, intraoperative images, radiologic images, and drawings supported by videos of the surgical approaches and techniques. The chapter structure involves reoccurring headings, didactic elements such as chapter summaries, boxes (note, caution), bullet points, tables, flowcharts, key points. This book is handy for neurosurgeons, especially neuro-oncologists, which helps keep them abreast with the advances in the field.