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Nota di contenuto	1. Introduction -- Part 1: Tumor Biology -- 2. Epidemiology -- 3. Molecular Biomarkers in Tumors -- 4. Molecular Biomarkers in Brain Metastasis -- 5. Pathology Classification -- Part 2: Planning -- 6. Microsurgical Anatomy of the Cranial Base and the White Matter Tracts (3D) -- 7. Microsurgical Anatomy of the Brainstem -- 8. Advances in Neuroimaging -- 9. DTI: planning for skull base and intra-axial tumors approaches -- 10. Neurological Examination -- 11. Neuro-Psychiatric Examination -- 12. Embolization of the Cranial Base Tumors -- Part 3: RT -- 13. Whole Brain Radiation -- 14. Radiosurgery (LINAC) -- Part 4: Chemotherapy -- 15. Chemotherapy -- 16. Intratumoral Chemotherapy -- 17. Genetic Therapy ( Gliomas) -- Part 5: Surgery -- 18. Surgical Radial Corridors Dorsal and Ventral Approaches to the Cranial Base) -- 19. Parafascicular Surgery (Chassis) -- 20. Craniofacial Approaches -- 21. Early experience with the ROBOT-m in Neurosurgery -- 22. Awake Surgery in Brain Tumors -- 23. Transclival Approaches -- 24. Surgery in Spine Tumor -- 25. Infratemporal Fossa and Pharyngeal Space

Surgery -- 26. 360 around of the Craniocervical Junction -- 27. Neuroendoscopy -- 28. 360 around of the Orbit -- Part 6: Tumors -- 29. Surgery in Gliomas -- 30. Surgery in Meningiomas of the Anterior Cranial Base (EEA) -- 31. Surgery in Meningiomas of the Anterior Cranial Base (Open) -- 32. Surgery in Meningiomas of the Middle Cranial Base -- 33. Surgery in Meningiomas of the Posterior Cranial Base -- 34. Surgery in CPA angle -- 35. Surgery for Craniopharyngioma -- 36. Pituitary Surgery (EEA and Open) -- 37. Jugular Schwannomas Surgery -- 38. Surgery of the Intraventricular Tumors -- 39. Brain Metastasis Surgery -- 40. Surgery of Esthesioneuroblastoma -- 41. Chordomas Surgery -- 42. Brainstem Surgery.

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## Sommario/riassunto

This book provides a comprehensive overview of the management of brain and skull base tumors. It features detailed insight into the intrinsic molecular biology, anatomical foundation, radiological planning, surgical execution, and the novel therapeutics that guide today's treatment regimens. The first section features concepts related to the epidemiology and pathological basis of disease processes, including relevant cellular and molecular biology. In the second section, integral anatomical foundations and principles are covered including microsurgical anatomy of the cerebrum, white matter tracts, ventricles, brainstem, skull base, advancements in radiological imaging, and cognitive examinations. Surgical approaches and how to execute these procedures are then subsequently discussed in the third part of the work. Principles of Neuro-Oncology: Brain & Skull Base is a practically applicable guide to the latest treatment techniques available to treat these patients. Therefore, it is an indispensable resource for all physicians who utilize these methodologies in their day-to-day practice.

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