Record Nr. UNINA9910463193803321 Handbook of radiosurgery in CNS disease [[electronic resource] /] / **Titolo** Michael Lim ... [et al.], editors Pubbl/distr/stampa New York, : Springer, c2013 **ISBN** 1-61705-089-X Descrizione fisica 1 online resource (xv, 244 pages): illustrations Altri autori (Persone) LimMichael Disciplina 617.4/8 Soggetti Central nervous system - Diseases Radiosurgery Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Cover; Title; Copyright Page; Contents; Preface; Contributors; Section I: Radiobiology; 1. The Fundamentals of Radiosurgical Radiobiology; Types of Ionizing Radiation; Radiochemistry; Radiobiology; Conclusion; References: Section II: Technology and Techniques of Radiosurgery: 2. Technology and Techniques of Cranial Radiosurgery; Fractionated Radiation Therapy; Intensity-Modulated Radiation Therapy; Stereotactic Radiosurgery; Complications Following Radiotherapy and SRS; Strategies to Prevent Radiation to Critical Structures; Conclusion; References 3. Technology and Techniques for Spinal RadiosurgeryCurrent Technologies/Immobilization: Targeting: Dosing Considerations: Complications / Avoidance Pearls; References; Section III: Radiosurgery for Brain Tumors; 4. Intraparenchymal Tumors; A. Radiosurgery for Primary Brain Tumors; B. Radiosurgery for Brain Metastases; 5. Skull-Base Tumors; A. Radiosurgery for Skull-Base Meningioma; B. Role of Radiosurgery for Hemangiopericytomas; C. Stereotactic Radiosurgery for Glomus Jugulare Tumors; D. Radiosurgery for Vestibular Schwannomas E. Stereotactic Fractionated Radiation Therapy for Optic Nerve Sheath MeningiomasF. Role of Radiosurgery for Sellar Lesions; 6. Imaging Changes Following Radiosurgery for Metastatic Intracranial Tumors: A

Review of Differentiating Radiation Effects From Tumor Recurrence;

Imaging Changes After Radiosurgery for Intracranial Tumors; Imaging Changes Seen After Radiosurgery for arteriovenous Malformations; Biology of Imaging Changes After Radiosurgery; Diagnosing and Managing Pseudoprogression; Illustrative Case; Recommendations; Conclusion: References

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Section V: Radiosurgery for Functional Diseases

Sommario/riassunto

Handbook of Radiosurgery in CNS Disease is a concise and practical manual offering radiation oncology, neurology, and neurosurgery residents, trainees, fellows, and clinicians up-to-date information on the role of radiosurgery within the overall context of CNS disease management. The emphasis is on decision making and the evaluation of radiosurgery as a viable option among the suite of potentially applicable treatments, including frame-based systems, non-invasive body immobilization, and image-guided targeting. The book examines radiosurgery as a treatment modality for various CNS pathologies,