



## **Gamma Knife Neurosurgery in the Management of Intracranial Disorders II [**

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editor.

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<http://id.loc.gov/vocabulary/relators/edt>

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Springer International Publishing :

Imprint: Springer,

2021.

Monografía

The articles in this volume cover the various radiosurgical techniques used to treat benign and malignant intracranial tumors, cavernous malformations, and functional disorders, as well as a wide array of specific details on medical physics, neuroimaging, and anesthetic support. Particular emphasis is put on the optimal combination of microneurosurgery and radiosurgery for attaining the best functional results in patients with vestibular schwannomas, craniopharyngiomas, and pituitary adenomas, and on the most effective methods of treatment planning and radiation dosimetry in cases of metastatic brain tumors. The highlighted clinical aspects include indications for radiosurgery and the prediction of patients's prognosis, along with analysis of outcomes in comparison with results achieved by other modalities in the context of multifaceted therapeutic strategies. In addition, possible options for applying advanced treatment using such modern devices as Leksell Gamma Knife Perfexion<sup>TM</sup> and Icon<sup>TM</sup> are presented in depth. This information will interest both radiosurgical practitioners and neurosurgeons, and help them to provide optimal care and to achieve the greatest benefit of their patients. This book will serve as an excellent companion for the previous publication *Gamma Knife Neurosurgery in the Management of Intracranial Disorders* (Acta Neurochirurgica Supplement, Volume 116, Springer, 2013)

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**Título:** Gamma Knife Neurosurgery in the Management of Intracranial Disorders II [electronic resource] edited by Mikhail F. Chernov, Motohiro Hayashi, Clark C. Chen, Ian E. McCutcheon.

**Edición:** 1st ed. 2021

**Editorial:** Cham Springer International Publishing Imprint: Springer 2021.

**Descripción física:** XII, 174 p. 58 illus., 31 illus. in color. online resource.

**Mención de serie:** Acta Neurochirurgica Supplement 0065-1419 128

**Documento fuente:** Springer Nature eBook

**Contenido:** Sponsors List -- Dedications -- 1. Subtotal Resection Followed by Adjuvant Radiosurgery for Large Vestibular Schwannomas: Outcomes with Regard to Timing and Regimen of Irradiation -- 2. Preplanned Partial Surgical Removal Followed by Low-dose Gamma Knife Radiosurgery for Large Vestibular Schwannomas -- 3. Outcome after Resection of Craniopharyngiomas with Regard to Original Surgical Grading System and Important Role of Stereotactic Radiosurgery in Their Management -- 4. Gamma Knife Radiosurgery of Pituitary Adenomas Invading the Cavernous Sinus: Tokyo Women's Medical University Experience -- 5. Stereotactic Radiosurgery for Pituitary Carcinoma -- 6. Evidence-Based Recommendations for Seizure Prophylaxis in Patients with Brain Metastases Undergoing Stereotactic Radiosurgery -- 7. Cumulative Intracranial Tumor Volume as Prognostic Factor for Patients with Brain Metastases Undergoing Stereotactic Radiosurgery -- 8. Treatment Options for Leptomeningeal Metastases of Solid Cancers: Literature Review and Personal Experience -- 9. Stereotactic Radiosurgery to Prevent Local Recurrence of Brain Metastasis after Surgery: Neoadjuvant vs. Adjuvant? -- 10. Redistributing Central Target Dose Hot Spots for Hypofractionated Radiosurgery of Large Brain Tumors: A Proof-of-Principle Study -- 11. Possible Overcoming Tumor Hypoxia with Adaptive Hypofractionated Radiosurgery of Large Brain Metastases: A Biological Modeling Study -- 12. Differentiating Radiation-Induced Necrosis from Tumor Progression after Stereotactic Radiosurgery of Brain Metastases using Evaluation of Blood Flow with Arterial Spin Labelling (ASL): The Importance of Setting a Baseline -- 13. Gamma Knife Radiosurgery for Symptomatic Cavernous Malformations: Tokyo Women's Medical University Experience -- 14. Gamma Knife Thalamotomy for Medically Refractory Tremor: Longitudinal Evaluation of Clinical Effects and MRI Response Patterns -- 15. Pituitary Radiosurgery for Management of Intractable Pain: Tokyo Women's Medical University Experience and Literature Review -- 16. Feasibility and Significance of Dose Adaptation via Linear Couch Translations to Correct for Rotational Shifts during Frameless Brain Radiosurgery with Gamma Knife Icon(TM) -- 17. Impact of the Skull Size on Normal Brain Radiation Dose during Gamma Knife Radiosurgery: Results of a Pilot Study -- 18. Respiratory Monitoring during Gamma Knife Radiosurgery: Anesthesiological Aspects -- 19. The Proud History of Psychosurgery in the United States -- Author Index -- Subject Index.

**ISBN:** 9783030692179 978-3-030-69217-9

**Materia:** Neurosurgery. Neurology. Neuroradiology. Oncology. Neurosurgery. Neurology. Neuroradiology. Oncology.

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**Entidades:** SpringerLink (Online service)

**Enlace a formato físico adicional:** Printed edition 9783030692162 Printed edition 9783030692186 Printed edition 9783030692193

**Punto acceso adicional serie-Título:** Acta Neurochirurgica Supplement 0065-1419 128.

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