Table of Contents

Foreword: Brotchi, J.;
Preface: Lunsford, L.D.;
Gamma Knife - The Early Story: Memoirs of a Privileged Man: Backlund, E.-O.;
Introduction: The Contribution of Pathology to Radiosurgery
Radiobiology of Radiosurgery
Dose Selection in Stereotactic Radiosurgery
Medical Physics Principles of Radiosurgery
Radiosurgery Techniques and Current Devices
Integration of Functional Imaging in Radiosurgery: The Example of PET Scan
The Role of Computer Technology in Radiosurgery
Radiosurgical Pathology of Brain Tumors: Metastases, Schwannomas, Meningiomas, Astrocytomas, Hemangioblastomas
Radiosurgery for Metastatic Brain Tumors
Modern Management of Vestibular Schwannomas
Radiosurgery for Intracranial Meningiomas
The Role of the Gamma Knife in the Management of Cerebral Astrocytomas
Radiosurgery for Pituitary Adenomas
Pathological Findings following Radiosurgery of Pituitary Adenomas
Treatment Strategy and Pathological Background of Radiosurgery for Craniopharyngiomas
Radiosurgery for Miscellaneous Skull Base Tumors
Gamma Knife Treatment for Cerebral Arteriovenous Malformations Histopathological Changes in Cerebral Arteriovenous Malformations following Gamma Knife Radiosurgery
Radiosurgery for Cavernous Malformations
Pathological Considerations to Irradiation of Cavernous Malformations
Radiosurgery for Trigeminal Neuralgia
Pathological Findings following Trigeminal Neuralgia Radiosurgery
Movement Disorder Radiosurgery - Planning, Physics and Complication Avoidance
Epilepsy
Radiosurgery in Epilepsy - Pathological Considerations
Stereotactic Intracavitary Irradiation of Cystic Craniopharyngiomas with Yttrium-90 Isotope
Pathological Findings in Cystic Craniopharyngiomas after Stereotactic Irradiation with Yttrium-90 Isotope
Image Fusion Guided Stereotactic Iodine-125 Interstitial Irradiation of Inoperable and Recurrent Gliomas
Tissue Response to Iodine-125 Interstitial Brachytherapy of Cerebral Gliomas
Radiosurgery in Ocular Disorders. Clinical Applications
CyberKnife Radiosurgery for Spinal Neoplasms
Heritage of Radiosurgical Research, Current Trends and Future Perspective
Physiological and Pathological Observations on Rat Middle Cerebral Arteries and Human AVM Tissue Cultures following Single High-Dose Gamma Irradiation
The Future of Radiosurgery