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Nota di contenuto	Preface. I Types of tumors -- Embryonal tumor: molecular characterization -- Oligodendroglial tumors: intra-arterial chemotherapy -- Metastatic oligodendroglioma: diagnosis with fine-needle Aspiration cytology -- Management of hemangiopericytoma -- Role of cyclooxygenase-2 in the development and growth of Schwannomas -- Adult primary gliosarcoma: epidemiology -- Mesenchymal chondrosarcoma in the central nervous system: Histological diagnosis -- Supratentorial primitive neuroectodermal tumors (pnets) -- Retinoblastoma and reproductive decisionmaking -- Trigeminal nerualgia with cerebellopontine angle tumors. II Diagnosis -- The concept of a preniche for cell counting in histopathologic slides of tumors -- Computer systems for cell counting in histopathologic slides of Tumours of the central nervous system: advantages and limitations.III Ultrasonography -- Intraoperative ultrasonography in

tumor surgery. Advantage of intraoperative power doppler ultrasonography for intracranial tumors -- Intraoperative ultrasound in neurosurgical oncology-scope and utility. IV Surgery -- Resection of brain tumors: intraoperative confocal microscopy technology -- Brainstem cavernomas, accessible lesions: surgery -- The role of surgical resection for metastatic brain tumors. V Brain metastasis -- Factors responsible for local recurrence of brain metastasis -- Role of mmp2 in brain metastasis -- Differentiating choroid plexus tumors from metastatic -- Carcinomas: use of inwardly rectifying k+ channel kir7.1 and excitatory amino acid transporter-VI General diseases -- Alexander disease: role of glial fibrillary acidic protein -- Lipoma: an overview -- Tumefactive demyelination -- Immunotherapies for brain cancer: from preclinical models to human trials -- The role of hyaluronic acid and its receptors invasion of brain tumors -- Neonatal hypoxic-ischemic brain damage: human umbilical cord -- Blood mononuclear cells transplantation -- Pathological angiogenesis: an overview -- Use of mobile phones and brain cancer risk in children? Index.

Sommario/riassunto

Volume 13: Pineal, Pituitary, and Spinal Tumors is organized in six sections, for convenience and quick access to critical information. Section I, Types of Tumors includes a chapter on molecular characterization of Embryonal tumors, a chapter on diagnosis of metastatic oligodendroglioma using fine-needle aspiration cytology, one covering intra-arterial chemotherapy of oligodendroglial tumors and another on the role of cyclooxygenase-2 in the development and growth of Schwannomas, and others, closing with a chapter on trigeminal neuralgia with cerebellopontine angle tumors. Section II, Diagnosis, includes two chapters on cell counting in histopathologic slides of tumors. Section III offers three chapters which discuss aspects of intraoperative ultrasonography. Section IV covers brain tumor surgery, and Section V surveys Brain Metastasis. The final section offers a wide-ranging review of General Diseases, with chapters on, among others, Alexander Disease; Lipoma; Transplantation of human umbilical cord blood mononuclear cells in cases of neonatal hypoxic-ischemic brain damage; and a chapter discussing the use of mobile phones and brain cancer risk in children. Like its twelve predecessors in the series, this volume merits distinction for its thorough approach, its roster of 78 distinguished contributors representing 14 different countries and its detailed examination of leading-edge technology and methods.