

Journal Article



Radio-induced gliomas: 20-year experience and critical review of the pathology

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Abstract The authors report their personal experience with a surgical series of 16 cases of cerebral radiation-induced gliomas, defining diagnostic criteria and surgical and clinical characteristics. There were ten males and six females, with a median age of 45.9 years. Irradiation had initially been given for acute lymphoblastic leukemia (ALL) in six cases, tinea capitis in four cases, scalp hemangioma in three cases, cutaneous hemangioma, cavernous angioma, and medulloblastoma in one case each. There were 14 cases of glioblastoma (grade IV WHO) and 2 cases of astrocytoma (grade II WHO), with a mean latency time of 17 years (range: 6–26 years). For glioblastomas mean survival time was 10.4 months, accounting for 1–3% of all the glioblastomas treated. A thorough revision of the pertinent literature revealed some clinical–biological peculiarities.

Keywords High grade - Low grade - Radiation-induced gliomas - Radiosurgery - Radiotherapy

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