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RADIATION-INDUCED TUMOR AFTER STEREOTACTIC RADIOSURGERY FOR AN ARTERIOVENOUS MALFORMATION: CASE REPORT.

CASE REPORTS

Neurosurgery. 61(5):E1099, November 2007.

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Abstract:

OBJECTIVE: To present a rare case of a radiation-induced malignancy after stereotactic radiosurgery.

CLINICAL PRESENTATION: A 34-year-old woman presented with headaches. Imaging studies demonstrated a 4.5-cm arteriovenous malformation located in the pineal region. She was treated with a two-isocenter plan to a total dose of 1500 cGy prescribed to the 70% isodose line. She was lost to follow-up and presented with a change in mental status, nausea, headaches, and a generalized seizure 9 years later. Magnetic resonance imaging scans demonstrated a large, heterogeneously enhancing mass partially in the treatment volume.

INTERVENTION: Surgical debulking demonstrated an infiltrating glial neoplasm consistent with a glioblastoma multiforme. There was no staining for epidermal growth factor receptor, whereas greater than 75% of nuclei stained positively with p53.


CONCLUSION: The risk of radiation-induced tumors is currently unknown but needs to be determined to assess the risk-benefit profile for each patient.

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