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Symptomatic spinal metastasis of a supratentorial glioblastoma in a pediatric patient: a case report and comprehensive review of the literature

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Abstract

Spinal metastasis of Glioblastoma is a rare occurrence, especially in pediatric patients, and extremely rare to become symptomatic. The pathology is poorly understood and remains with unclear dissemination mechanisms. The treatment approaches are varied and multimodal therapy (surgery, chemotherapy, and radiotherapy) can be employed to manage this type of metastasis. We report a case of a 17-year-old female who underwent a gross-total resection of a right frontal glioblastoma and had adjuvant therapy with chemo- and radiotherapy. In the sixth month of follow-up, the patient presented a paraparesis, and a distant recurrence at T7-T8 was detected. The patient was treated with gross-total resection of the tumor through a laminectomy. The histopathological results were consistent with an isocitrate dehydrogenase (IDH) wildtype GBM metastasis. The patient was treated with multimodal therapy, including surgery, radiotherapy, and chemotherapy. A complementary comprehensive review of current available literature on this topic is also presented.

Keywords: Adolescent; Glioblastoma; Glioma; Infant; Metastases.

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