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Extracranial metastasis of pediatric glioblastoma: case report and literature review

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Abstract

Glioblastoma (GBM) is a rare primary brain tumor in children, and extracranial metastases of pediatric GBM are particularly uncommon. We present the case of a 10-year-old girl with pediatric GBM who developed multiple extracranial metastases, including cervical lymph nodes, spine, and lung. We discuss the rarity of extracranial metastases in GBM and explore possible mechanisms of dissemination. The patient underwent surgical resections, radiotherapy, and chemotherapy, but the metastatic disease progressed despite treatment. We emphasize the need to consider extracranial metastases in pediatric GBM patients and adopt multimodal treatment approaches for managing this rare clinical entity. As the survival rates of pediatric GBM patients are improving, awareness of extracranial metastases is crucial for optimizing treatment outcomes.

Keywords: Extracranial metastases; Glioblastoma; Lung; Lymph nodes; Multimodal treatment; Pediatric; Spine.

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