AJNR Am J Neuroradiol. 2024 Dec 12. doi: 10.3174/ajnr.A8521. Online ahead of print.

Clinical and Imaging Features of Head and Neck Metastasis of High-Grade Glioma: A Single Center Case Series

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Affiliations PMID: 39667825 DOI: 10.3174/ajnr.A8521

Abstract

High-grade gliomas are the most frequent primary brain tumors, yet extraneural metastasis is exceedingly rare. This is in part secondary to the relatively poor survival of these patients and likely the shielding effect of the blood-brain barrier. Given the rarity of extraneural metastasis, the pathophysiology and imaging appearance of extraneural metastasis is under-reported and poorly understood. In this case series we present 6 patients with pathology-confirmed high-grade glioma and extraneural head and neck metastasis. We highlight imaging features of metastasis on CT, MRI, and PET/CT. We also explore potential correlations and pathophysiology of high-grade glioma metastasis to the head and neck region.

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