

## ABSTRACT

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Leptomeningeal and subependymal seeding of diffuse intrinsic pontine glioma: a case report.

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DIPG (diffuse intrinsic pontine glioma) is a deadly cancerous tumor of the brainstem that spreads across the pons. The tumor's infiltrative nature, as well as the tumor's critical pathway and nuclei compression, contributes to the tumor's extremely poor prognosis and limited existing therapeutic options. A previous study revealed that in 40 patients with brainstem glioma, 13 (33%) patients had leptomeningeal spreading. In this paper, we reported a 7-year-old female patient who presented with a history of decreased consciousness and weakness of the right limb. Her magnetic resonance imaging (MRI) revealed a pontine mass. She was given 35 fractions of 54 Gy whole-brain radiotherapy. The post-radiotherapy MRI evaluation showed multiple nodules in periventricular region, and was suggestive of leptomeningeal and subependymal seeding of the pontine glioma in the lateral ventricles. This case report elucidated the leptomeningeal seeding in a pediatric patient with diffuse intrinsic pontine glioma.

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