

Adult brainstem glioma

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[Brainstem gliomas](#) are uncommon in [adults](#) and account for only 1%-2% of [intracranial gliomas](#). They represent a heterogeneous group of [tumors](#) that differ from those found in their [pediatric](#) counterparts. In [adults](#), a low-grade [phenotype](#) predominates, which is a feature that likely explains their better [prognosis](#) compared to that in [children](#) ¹⁾.

Classification

[Adult brainstem glioma classification.](#)

Treatment

[Adult brainstem glioma treatment](#)

Case reports

A 32-year-old man presented with left facial numbness and right hemiparesis and was referred to our department. MRI and open biopsy indicated brainstem glioma, and he was specifically diagnosed with isocitrate dehydrogenase 1-mutant diffuse astrocytoma of WHO grade II. He was treated with stereotactic radiotherapy followed by [autologous formalin-fixed tumor vaccine](#) (AFTV) three months later. MRI conducted at 42 months after the combination therapy showed a 91% decrease in tumor volume, and the regression was maintained for 5 years. Thus, combination treatment with radiotherapy and immunotherapy may prove to be a promising alternative for the treatment of brainstem glioma ²⁾.

¹⁾
Hu J, Western S, Kesari S. Brainstem Glioma in Adults. Front Oncol. 2016 Aug 9;6:180. doi: 10.3389/fonc.2016.00180. PMID: 27556016; PMCID: PMC4978106.

2)

Morimoto T, Matsuda R, Nakazawa T, Nishimura F, Nakagawa I. Combined Treatment With Radiotherapy and Immunotherapy for Isocitrate Dehydrogenase Mutant Brainstem Glioma in Adult: A Case Report. Brain Tumor Res Treat. 2022 Apr;10(2):129-133. doi: 10.14791/btrt.2022.0009. PMID: 35545834.

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