

World Health Organization Grade III Supratentorial Extraventricular Ependymomas in adults: Case series and Review of treatment modalities



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Abstract

Context: Supratentorial ependymomas and their anaplastic variants are relatively uncommon central nervous system neoplasms that afflict both adults and children.

Aims: Discuss the clinical and pathological features of patients with anaplastic ependymomas involving an extra ventricular supratentorial location and review modalities and options of treatment for those rare tumors.

Settings and Design: Whereas the treatment algorithm in the pediatric population is well established, however, treatment in the adult population is less defined. Treatment options are exposed through the author's cases and review of the literature. **Subjects and Methods:** In our case series of two adult patients with supratentorial ependymomas World Health Organization (WHO) Grade III (anaplastic variant), patients presented in both cases in the emergency room after having a generalized tonic-clonic seizure at home the first case, and mild hemiparesis the second case.

Results: Patients underwent surgical treatment, and a gross total resection was achieved in both cases. The histopathological examination revealed a diagnosis of anaplastic ependymoma (WHO Grade III). Both patients had additional radiotherapy, and in the first case, adjuvant platinum-based chemotherapy was administered due to leptomeningeal gliomatosis.

Conclusion: In our experience, gross total resection was achieved in all patients with supratentorial extra ventricular ependymomas WHO Grade III with additional radiotherapy and platinum-based chemotherapy. Patients require initial close serial imaging follow-up. The role of chemotherapy is still uncertain but may be necessary in younger patients and in tumors that behave more like the pediatric ependymomas.

Biography:

Fotios Kalfas is Neurosurgeon at Department of Neurosurgery Padua University Hospital. He was Director of Neurosurgical Department of Galliera Hospitals in Genova Italy from April 2019 to January 2020. He has completed his neurosurgical training in 2005 at University of Sassari and later he has enriched his knowledge in Neurosurgery through fellowship \attendance at the most important centres all over the world such as Helsinki (FI), Barrows Neurological Institute (USA), Duke University North Carolina (USA), Washington University, Seattle (USA), Mayo Clinic Jacksonville (USA), Stanford University, Palo Alto (USA), Campinas, Sao Paulo (Brazil), Sapporo- Teishinkai Stroke Centre, Hokkaido (Japan). He has published a lot of papers in reputed journals and has been serving as an editorial board member of British Medical Journal. His main areas of research and clinical interest include surgical treatment of cerebrovascular disease, neurooncology, Radiosurgery and Spinal degenerative disease.

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