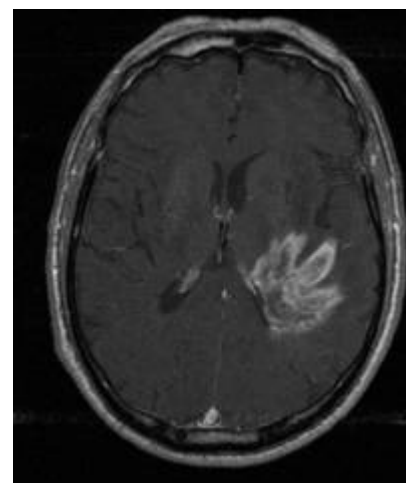


Periventricular tumor



Central neurocytoma (CN) is a rare periventricular tumor of the central nervous system in young adults.

Hierarchical molecular classification of **IDH-wildtype glioblastomas** revealed 3 distinct groups of IDH-wildtype **glioblastomas**. One major cluster was characterized by mutations in **PDGFRA**, amplification of **CDK4** and PDGFRA, homozygous deletion of **CDKN2A/B**, and absence of **TERT** mutations. This cluster was significantly associated with older age ($P = .021$), higher **Ki-67** score ($P = .007$), poor prognosis ($P = .012$), and a periventricular tumor location ¹⁾.

A 60-year-old patient of spinal PXA and periventricular tumor presented with waist pain and weakness of double legs for one month. Neuroimaging showed that a lesion at the level of L2-L3 and periventricular tumor. Postoperative microscopy indicated that WHO grade II PXA. Photomicrograph of the lesion showed spindle cells, marked nuclear and cytoplasmic pleomorphism, with foamy cytoplasm. Immunohistochemical staining showed that GFAP and S-100 were positive. This is a rare case of synchronous multicentric PXA. Physicians should be realized multicentric dissemination by meninges or cerebrospinal fluid in PXA patients. It is important to describe the particular case in order to better understanding of clinical features ²⁾.

¹⁾

Higa N, Akahane T, Yokoyama S, Yonezawa H, Uchida H, Takajo T, Kirishima M, Hamada T, Matsuo K, Fujio S, Hanada T, Hosoyama H, Yonenaga M, Sakamoto A, Hiraki T, Tanimoto A, Yoshimoto K. A tailored next-generation sequencing panel identified distinct subtypes of wildtype IDH and TERT promoter glioblastomas. *Cancer Sci*. 2020 Oct;111(10):3902-3911. doi: 10.1111/cas.14597. Epub 2020 Sep 6. PMID: 32748499; PMCID: PMC7541004.

²⁾

Zhao X, Jiang X, Wang X. Spinal pleomorphic xanthoastrocytoma companied with periventricular tumor. *Int J Clin Exp Pathol*. 2015 Jan 1;8(1):1036-40. PMID: 25755815; PMCID: PMC4348886.

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