

# Clear cell ependymoma

## Case series

Eleven cases of [ependymal tumors](#) with clear cells were found, which equated to 1.5% of the total tumor burden in 11 years. The median age was 49 years. Most common presenting symptom was headache 54.5%. Out of 11 patients, 9 patients had a supratentorial tumor. Magnetic resonance imaging showed hypointense signals on T1 and hyperintense signals on T2-weighted images in all cases. Contrast enhancement was found in 9 patients (77.8%), necrosis and hemorrhage was found in 4 (36%) and 3 (27%) patients, respectively. Immunohistochemistry showed glial fibrillary acidic protein and epithelial membrane antigen positivity in all cases. Ki-67 showed high proliferative index in 6 patients. According to the World Health Organization grading of ependymal tumors, 2 patients had Grade II tumors, and 9 patients had Grade III tumors with clear cells. Gross total resection was achieved in 6 (54.5%) and subtotal resection in 5 patients (45.4%). Recurrence was observed in 9 patients. Six patients died of the disease. Median progression-free survival and overall survival was 8 months and 10 months, respectively.

Ependymal tumors with clear cells presented more commonly in Grade III lesions and were more aggressive in behavior with poorer outcome compared to similar studies <sup>1)</sup>.

<sup>1)</sup>

Hashmi FA, Khan MF, Khan SA, Waqas M, Bari ME, Ahmed A. Ependymal tumors with oligodendroglioma like clear cells: Experience from a tertiary care hospital in Pakistan. Surg Neurol Int. 2015 Nov 16;6(Suppl 23):S583-S589. eCollection 2015. PubMed PMID: 26664928.

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