

Limbic Tumor of the Temporal Lobe

Classification

see [Schramm classification](#).

Limbic tumors are categorized according to [Yaşargil's classification](#) into:

- (1) [Temporal mediobasal tumor](#).
- (2) insular-temporo-opercular (I-TO) (see [Insulopercular glioma](#))
- (3) fronto-orbital-insular-temporopolar (FO-I-TP).

A total of 50 cases with a mean age at diagnosis of 38 ± 19.9 years (14 women, 36 men) were included. Pathologic diagnoses were as follows: 20 [anaplastic astrocytomas](#), 11 [gangliogliomas](#), 8 [astrocytomas](#) (World Health Organization grade II), 3 [pilocytic astrocytomas](#), 2 [dysembryoplastic neuroepithelial tumors](#), 2 [oligodendrogliomas](#) (grade II), 2 [anaplastic oligodendrogliomas](#), 1 low-grade glioneuronal tumor, and 1 atypical extraventricular neurocytoma. In all, 36 tumors were limbic and displayed consistent growth patterns (16 mbT, 11 I-TO, 8 FO-I-TP, and 1 pantemporal) and 14 were extralimbic. There were no differences between limbic and extralimbic tumors with regard to age, sex, pathologic diagnosis, and presentation with [seizures](#). mbT tumors had more frequent neuronal differentiation (50 %) than I-TO (0 %) and FO-I-TP (25 %) tumors (chi-square = 7.8, df = 2, p = 0.02). Neuronal differentiation correlated with lower grade ($r = 0.52$, $p < 0.01$) and younger age ($r = 0.52$, $p < 0.01$).

Limbic tumors displayed consistent growth routes. mbT limbic tumors had more frequent neuronal differentiation, which may result from proximity to the neurogenic subgranular zone of the [hippocampus](#). Neuronal differentiation was maximal in mbT and lowest in I-TO and FO-I-TP tumors and correlated with lower tumor grade and younger age at diagnosis ¹⁾.

¹⁾
Capizzano AA, Kirby P, Moritani T. Limbic Tumors of the Temporal Lobe: Radiologic-Pathologic Correlation. Clin Neuroradiol. 2014 Jan 29. [Epub ahead of print] PubMed PMID: 24474261.

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