

Yasargil Classification of Insular Glioma

Limited to the insula (Yasargil type 3a)

Reach the perisylvian [operculum](#) (type 3b)

other paralimbic areas, namely the orbitofrontal and temporopolar regions (type 5),

operculo-insular region and the fronto-orbital, including the perforated substance (white arrow), temporopolar and hippocampal regions, type 5 B ¹⁾.

Magnetic resonance imaging (MRI) with T2-weighted and Fluid Attenuated Inversion Recovery ([FLAIR](#)) images best delineates the extent of tumour infiltration, which can be limited to the insular lobe (Yasargil type 3a) or reach the perisylvian opercula (type 3b) and other paralimbic areas, namely the orbitofrontal and temporopolar regions (type 5), with or without involvement of core limbic structures ²⁾.

Although the classification of insular glioma has been established based on the anatomical location in order to facilitate personalized surgical resection, the diagnosis based on anatomical and functional characteristics becomes more complex when insular tumors extend into either the frontobasal brain region and/or the temporal lobe, as part of the [limbic system](#).

¹⁾

Yasargil MG, von Ammon K, Cavazos E, Doczi T, Reeves JD, Roth P (1992) Tumors of the limbic and paralimbic systems. Acta Neurochir (Wien) 118:40-52

²⁾

Yasargil, MG.; von Ammon, K.; Cavazos, E.; Doczi, T.; Reeves, JD. & Roth, P. (1992). Tumors of the limbic and paralimbic systems. Acta Neurochirurgica, Vol.116, No.2-4, (March 1992), pp.147-149, ISSN 0001-6268

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