

# WHO grade III

WHO grade III tumors are malignant and often recur as higher grade tumors (WHO grade IV).

Grade 3 astrocytomas are considered to be malignant or anaplastic. They show more abnormal cell characteristics and are faster-growing than lower-grade tumors but are not as aggressive as Grade 4 tumors.

Anaplasia, significant mitotic activity

No necrosis or microvascular proliferation

CDKN2A/B homozygous deletion absent

Hong et al. found significant differences in MRI features, including volumetrics, CBV, and ADC, in G3 gliomas, according to IDH mutation and 1p/19q co-deletion status, which can be utilized for the prediction of genomic profiles and the prognosis of G3 glioma patients. The MRI signatures and prognosis of IDH-wildtype glioma G3 gliomas tend to follow those of Glioblastoma IDH wildtype<sup>1)</sup>.

WHO grade III astrocytoma

<sup>1)</sup>

Hong EK, Choi SH, Shin DJ, et al. Comparison of Genetic Profiles and Prognosis of High-Grade Gliomas Using Quantitative and Qualitative MRI Features: A Focus on G3 Gliomas [published online ahead of print, 2020 Sep 10]. Korean J Radiol. 2020;10.3348/kjr.2020.0011. doi:10.3348/kjr.2020.0011

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