

Angiomatous meningioma

Angiomatous meningioma is a World Health Organization (WHO) [meningioma](#) variant with a predominance of [blood vessels](#). They are uncommon and confirming the histopathologic classification can be challenging. Given a lack of biomarkers that define the angiomatous subtype and limited understanding of the genetic changes underlying its tumorigenesis.

While typical grade I meningiomas demonstrate monosomy of chromosome 22 or lack copy number aberrations, 13 of 14 cases of angiomatous meningioma demonstrated a distinct copy number profile - polysomies of at least one chromosome, but often of many, especially in chromosomes 5, 13, and 20. WHO grade II atypical meningiomas with angiomatous features have both polysomies and genetic aberrations characteristic of other atypical meningiomas. Sequencing of over 560 cancer-relevant genes in 16 cases of angiomatous meningioma showed that these tumors lack common mutations found in other variants of meningioma.

Angiomatous meningiomas have distinct genomic features that may be clinically useful for their diagnosis ¹⁾.

¹⁾

Abedalthagafi MS, Merrill PH, Bi WL, Jones RT, Listewnik ML, Ramkissoon SH, Thorner AR, Dunn IF, Beroukhir R, Alexander BM, Brastianos PK, Francis JM, Folkerth RD, Ligon KL, Van Hummelen P, Ligon AH, Santagata S. Angiomatous meningiomas have a distinct genetic profile with multiple chromosomal polysomies including polysomy of chromosome 5. *Oncotarget*. 2014 Sep 25. [Epub ahead of print] PubMed PMID: 25347344.

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