

Unruptured middle cerebral artery aneurysm classification

- [Angiographic Occlusion After Flow Diversion of Ruptured and Unruptured Intracranial Aneurysms Using the Flow Redirection Endoluminal Device-X: A Multicenter Analysis](#)
- [Association between body mass index and intracranial procedural complications in patients undergoing endovascular treatment for unruptured aneurysms](#)
- [DWI-based deep learning radiomics nomogram for predicting the impaired quality of life in patients with unruptured intracranial aneurysm developing new iatrogenic cerebral infarcts following stent placement: a multicenter cohort study](#)
- [Interdependence of First-coil and Global volume embolization ratios \(VERs\) calculated by Sim&Size in predicting aneurysm occlusion outcomes](#)
- [Predicting the natural history of unruptured brain arteriovenous malformations: external validation of rupture risk scores](#)
- [Detection of remnants in clipped unruptured intracranial aneurysms by intraoperative CT-angiography and postoperative DSA: clinical relevance and follow-up](#)
- [Comparative analysis between stent-assisted coiling and Woven EndoBridge embolization for unruptured wide-necked bifurcation intracranial aneurysms: A propensity score matching study](#)
- [Efficacy and Safety of Adjunctive Coiling in Pipeline Embolization Device Implantation for Small- and Medium-Sized Unruptured Cerebral Aneurysms: A Retrospective Cohort Study and Literature Review](#)

see [Intracranial aneurysm classification](#).

see also [Middle cerebral artery aneurysm classification](#).

Unruptured middle cerebral artery bifurcation aneurysm classification

Kumar et al. subclassified [unruptured middle cerebral artery aneurysm](#) into 5 [types](#) based on the similarities in their morphological features which influenced the [techniques](#) of [clipping](#) as recorded from their preoperative [three-dimensional computed tomography angiography](#) and [intraoperative](#) view. These types and the distinctive feature of each type are described. The various techniques of clipping are discussed based on these subgroups. The groups outlined make possible the establishment of a common technical approach to clipping within the groups. This classification, based on preoperative 3D CTA and intraoperative morphological features of the aneurysm and parent vessels, helps in the intraoperative choice of technique and type of clip application to tackle these lesions.

I

Simple weak [aneurysm wall](#), well-circumscribed to the site of maximum [hemodynamic stress](#), no extension to [M1 segment of the middle cerebral artery](#) proximally

II

Central type weak aneurysmal wall extending on to the M1 proximally

III

Complicated neck branch at the neck of the aneurysm

IV

Complex [M2 segment of the middle cerebral artery](#) seen to be arising from the aneurysm rather than M1

V

[Middle cerebral artery blister aneurysms](#)¹⁾.

Giant unruptured middle cerebral artery aneurysm

[Giant unruptured middle cerebral artery aneurysm](#)

¹⁾

Kumar MV, Karagiozov KL, Chen L, Imizu S, Yoneda M, Watabe T, Kato Y, Sano H, Kanno T. A classification of unruptured middle cerebral artery bifurcation aneurysms that can help in choice of clipping technique. Minim Invasive Neurosurg. 2007 Jun;50(3):132-9. PubMed PMID: 17882747.

From:
<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:
https://neurosurgerywiki.com/wiki/doku.php?id=unruptured_middle_cerebral_artery_aneurysm_classification

Last update: **2025/02/12 10:23**

