

# Distal middle cerebral artery aneurysm

Distal [middle cerebral artery aneurysms](#) is a rarely seen encountered condition, constituting 1.1–5% of MCA lesions <sup>1) 2)</sup>. In a large surgical series of 1012 patients, there were four patients with dMCA <sup>3)</sup>. In the other large surgical series of 3005 patients, there were 18 patients with dMCA aneurysm <sup>4)</sup>.

According to Gibo et al., <sup>5)</sup> to locate MCA aneurysms the distal vessel was classified into four segments M2 (insular segment), M2–M3 junction, M3 (opercular segment) and M4 (cortical segment).

see [Middle cerebral artery M3 segment aneurysm](#).

see [Middle cerebral artery M4 segment aneurysm](#).

Clinical findings and surgical approaches of dMCA aneurysm are different from proximal MCA aneurysms. Treatment of those aneurysms is difficult because of their deep location, small size and angio architecture.

<sup>1) 3)</sup>

Dashti R., Hernesniemi J., Niemelä M., Rinne J., Lehecka M., Shen H. Microneurosurgical management of distal middle cerebral artery aneurysms. *Surgical Neurology*. 2007;67:553–563.

<sup>2) 4)</sup>

Yasargil M.G. Georg Thieme Verlag; Stuttgart: 1984. Microneurosurgery II: clinical considerations, surgery of the intracranial aneurysms and results; pp. 124–164.

<sup>5)</sup>

Gibo H, Carver CC, Rhoton AL Jr, Lenkey C, Mitchell RJ. Microsurgical anatomy of the middle cerebral artery. *J Neurosurg*. 1981 Feb;54(2):151–69. PubMed PMID: 7452329.

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