

Anterior communicating artery aneurysm endovascular treatment

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[Endovascular treatment](#) has been increasingly performed due to the fact that it is less likely to cause high dysfunction compared to surgery and the treatment has been improved. The [International Subarachnoid Aneurysm Trial](#) reported anterior communicating artery aneurysms to comprise 45.4% of cerebral aneurysms on which both endovascular treatment and surgery are suitable. The use of the endovascular treatment for anterior communicating artery aneurysms is expected to increase in the future ¹⁾.

Coiling

[Anterior communicating artery aneurysm coiling](#)

Balloon remodeling

[Balloon remodeling](#) should be considered for broad-based complex ACoA aneurysms. This technique provides a high rate of aneurysm occlusion with an acceptable complication profile and avoids the need for dual antiplatelet therapy. The balloon trajectory will depend on aneurysm morphology and bilateral access may be useful in selected cases ²⁾.

Woven EndoBridge

Woven EndoBridge for anterior communicating artery aneurysm endovascular treatment.

Complications

Anterior communicating artery aneurysm endovascular treatment complications.

1)

Takeuchi M, Uyama A, Matsumoto T, Tsuto K. Endovascular Treatment for Anterior Communicating Artery Aneurysms. Adv Tech Stand Neurosurg. 2022;44:239-249. doi: 10.1007/978-3-030-87649-4_13. PMID: 35107683.

2)

Moon K, Albuquerque FC, Ducruet AF, Crowley RW, McDougall CG. Balloon remodeling of complex anterior communicating artery aneurysms: technical considerations and complications. J Neurointerv Surg. 2014 Apr 28. doi: 10.1136/neurintsurg-2014-011147. [Epub ahead of print] PubMed PMID: 24778138.

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Last update: 2024/06/07 03:00

