

Posterior inferior cerebellar artery aneurysm treatment

- [Parent Artery Occlusion Using Multiple Short iED Coils and n-Butyl Cyanoacrylate via a Marathon Microcatheter for a Dissecting Aneurysm of the Distal Posterior Inferior Cerebellar Artery With Severe Flexion of the Caudal Loop: A Case Report](#)
- [Surgical treatment of eccentric-fusiform aneurysm of proximal basilar artery. Case report and literature review](#)
- [Right occipital to Right distal PICA bypass and trapping of ruptured Right PICA dissecting aneurysm after initial coil embolization](#)
- [Stand-alone small low-profile braided stents for challenging unruptured posterior inferior cerebellar artery aneurysms compared to conventional endovascular methods: A cohort study](#)
- [Distal posterior inferior cerebellar artery \(PICA\) displacement with end-to-side anastomosis to contralateral PICA: a novel bypass surgery for PICA aneurysm. Illustrative case](#)
- [Current status and prospects of endovascular treatment for intracranial vertebral artery aneurysms: A narrative review](#)
- [Review of treatment modalities and clinical outcome of giant saccular posterior inferior cerebellar artery aneurysms](#)
- [A case of vasa corona ruptured pseudoaneurysm: case report and review of literature](#)

The vicinity of brainstem and cranial nerves as well as the limited operative working space make clip ligation of posterior inferior cerebellar artery (PICA) aneurysms challenging. The small caliber of the PICA and the broad neck often associated with these aneurysms also create challenges in preserving this artery during treatment. Few data exist to compare the 2 treatment approaches for aneurysms in this location ¹⁾.

Endovascular treatment is associated with higher risks of recurrence, requiring additional treatment. Outcomes were mostly impacted by clinical state at admission ²⁾.

Surgery

[Posterior inferior cerebellar artery aneurysm surgery](#)

Endovascular intervention

Owing to the evolution of [endovascular interventions](#) and [devices](#) and the higher rates of microsurgical [complications](#), vertebral artery (VA) and posterior inferior cerebellar artery (PICA) aneurysms are predominantly treated with endovascular [procedures](#) ^{3) 4) 5) 6) 7) 8) 9)}

¹⁾

Bohnstedt BN, Ziemba-Davis M, Edwards G, Brom J, Payner TD, Leipzig TJ, Scott JA, DeNardo AJ, Palmer E, Cohen-Gadol AA. Treatment and outcomes among 102 posterior inferior cerebellar artery aneurysms: a comparison of endovascular and microsurgical clip ligation. *World Neurosurg.* 2015 May;83(5):784-93. doi: 10.1016/j.wneu.2014.12.035. Epub 2014 Dec 23. PubMed PMID: 25541085.

²⁾

Sejkorová A, Petr O, Mulino M, Cihlář J, Hejčl A, Thomé C, Sameš M, Lanzino G. Management of posterior inferior cerebellar artery aneurysms: What factors play the most important role in outcome? *Acta Neurochir (Wien)*. 2017 Mar;159(3):549-558. doi: 10.1007/s00701-016-3058-z. Epub 2017 Jan 9. PubMed PMID: 28066873.

3)

Spetzler R.F., McDougall C.G., Zabramski J.M., et al. The barrow ruptured aneurysm trial: 6-year results. *J Neurosurg*. 2015;123(3):609-617.

4)

Catapano J.S., Ducruet A.F., Cadigan M.S., et al. Endovascular treatment of vertebral artery dissecting aneurysms: a 20-year institutional experience. *J Neurointerventional Surg*. 2022;14(3):257-261.

5)

Aboukaïs R., Zairi F., Boustia F., Bourgeois P., Leclerc X., Lejeune J.P. Vertebral artery-posterior inferior cerebellar artery convergence aneurysms treated by endovascular or surgical treatment: mid- and long-term outcome. *Neurochirurgie*. 2016;62(2):72-77.

6)

Awad A.J., Mascitelli J.R., Haroun R.R., De Leacy R.A., Fifi J.T., Mocco J. Endovascular management of fusiform aneurysms in the posterior circulation: the era of flow diversion. *Neurosurg Focus*. 2017;42(6):E14.

7)

Eller J.L., Dumont T.M., Mokin M., et al. Endovascular treatment of posterior circulation aneurysms. *Neurol Res*. 2014;36(4):339-343.

8)

Starnoni D., Maduri R., Al Taha K., et al. Ruptured PICA aneurysms: presentation and treatment outcomes compared to other posterior circulation aneurysms. A Swiss SOS study. *Acta Neurochir*. 2019;161(7):1325-1334.

9)

Ali A.M.S., Hannan C.J., Islim A.I., Mascitelli J.R., Javadpour M. Surgical and endovascular treatment of saccular posterior inferior cerebellar artery aneurysms: systematic review and meta-analysis. *World Neurosurg*. 2022;162:e168-e177.

From:

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

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=posterior_inferior_cerebellar_artery_aneurysm_treatment

Last update: 2024/06/07 02:50

