

Tubridge flow diverter

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In China, the application of nitinol Tubridge flow diverter (TFD) has become popular for treating intracranial aneurysms (IAs). In this study, we investigated the safety outcomes of the application of TFD for treating IAs in real-world scenarios.

Methods: We retrospectively analyzed aneurysms treated with TFD in 235 centers throughout China between April 2018 and April 2020. The primary endpoint was the event-free survival rate at 12 months, defined as the occurrence of morbidity (spontaneous rupture, intraparenchymal hemorrhage (IPH), ischemic stroke, and permanent cranial neuropathy) or death. Univariate and multivariate analyses were performed to assess the risk factors. A good outcome was defined as a modified Rankin Score (mRS) of 0-2.

Results: We included 1281 unruptured aneurysms treated with TFD. The overall neurological morbidity and death rates after 12 months were 5.4 and 2.8%, respectively. Ischemic strokes were the most common complication (4.2%, $P < 0.001$). Cranial neuropathy, IPH, and spontaneous rupture occurred in 0.3%, 0.3%, and 0.5% of aneurysms, respectively. Univariate and multivariate analyses indicated that the male gender, older age, larger aneurysm diameter, and aneurysm located on BA were the independent risk factors for neurologic events. Aneurysm located on BA was the independent risk factor for ischemic strokes. Most patients (1222) had access to the mRS, and 93.2% of them achieved good outcomes.

Conclusion: Treatment of IAs with TFD was associated with low morbidity and mortality, most of which were ischemic events. Large posterior aneurysms might be associated with a higher complication rate.

Trial [registration](#): Retrospectively registered ¹⁾.

A study found no difference in complication, occlusion, and clinical outcome between PED and Tubridge [flow diverter](#) for unruptured PCAs ²⁾

1)

Li Q, Zhu D, Lv N, Yang P, Zhou Y, Zhao R, Yang W, Lv M, Li T, Zhao W, Qi T, Jiang W, Duan C, Zhao G, Duan G, Wu Y, Zheng Q, Li Z, Zuo Q, Dai D, Fang Y, Huang Q, Hong B, Xu Y, Gu Y, Guan S, Liu J. Clinical Outcomes On Tubridge Flow Diverter in Treating Intracranial Aneurysms: a Retrospective Multicenter Registry Study. Clin Neuroradiol. 2024 Feb 15. doi: 10.1007/s00062-024-01393-4. Epub ahead of print. PMID: 38361028.

2)

Jin H, Lv J, Meng X, Liu X, He H, Li Y. Pipeline versus Tubridge in the treatment of unruptured posterior circulation aneurysms. Chin Neurosurg J. 2023 Aug 4;9(1):22. doi: 10.1186/s41016-023-00337-0. PMID: 37542351.

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