

Wide necked unruptured aneurysm

In the [endovascular treatment](#) of wide-necked [unruptured aneurysms](#), there is controversy over which adjunctive device (stent vs balloon) is appropriate. At the payer level it has been posited that [stents](#) and [balloons](#) treat the same aneurysms, and, as such, the more expensive stents should not be reimbursed.

One hundred six unruptured aneurysms were treated with an adjunctive device and followed for a mean of 24.5 months. Morphological analysis revealed a lower dome-to-neck ratio (1.5 vs 1.2) and aspect ratio (1.44 vs 1.16) in the [aneurysms](#) treated with stent assistance vs balloon assistance. Of the 15.3% that were worse on follow-up angiography, there was no statistical difference between those treated with a stent vs a balloon (17.1% vs 14.2%). The overall re-treatment rate was 10.2% and was not statistically different between the 2 groups (12.7% vs 5.7%).

Peterson et al., found that unruptured aneurysms selected for treatment with stent-assisted coiling are morphologically different from those selected for treatment with balloon assistance. Despite the more challenging morphology, [Raymond Roy occlusion classification]] and re-treatment rates at 1 year were not statistically different between the 2 groups, suggesting an important role for stents in the treatment of unruptured aneurysms ¹⁾

¹⁾

Peterson E, Hanak B, Morton R, Osburn JW, Levitt MR, Kim LJ. Are aneurysms treated with balloon-assisted coiling and stent-assisted coiling different? Morphological analysis of 113 unruptured wide-necked aneurysms treated with adjunctive devices. *Neurosurgery*. 2014 Aug;75(2):145-51. doi: 10.1227/NEU.0000000000000366. PubMed PMID: 24739363.

From:

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

Permanent link:

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

Last update: **2024/06/07 02:56**

