Letters to the Editor

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Size Matters! Stent-Length Is Associated With Thromboembolic Complications After Carotid Artery Stenting

To the Editor:

We examined the article by Schillinger et al,1 in which the authors describe the results of a multicenter registry investigating the potential effect of open- versus closed-cell design stents on periprocedural complications after carotid artery stenting (CAS). In contrast to a previously published study,2 they found no association between stent design and the 30-day combined rate of transient ischemic attack, stroke and death.

Aside from the stent design (ie, open-cell versus closed-cell) the length of the stent might be an additional factor associated with outcome after CAS. While the length of a stenosis has already been identified as a major risk factor for thromboembolic complications after CAS,3–5 the choice of an adequately sized stent will not only depend on the length of the stenosis, but also on other variables including the tortuosity of the target vessel or the distance of the stenosis from the carotid bifurcation. The stent length could therefore become a useful overall risk marker for CAS, reflecting the length of the lesion, as well as the technical complexity of the procedure. To address this issue, we retrospectively analyzed our updated prospectively evaluated single-center experience of CAS6 and primarily focused on the impact of stent length (20, 30 and 40 mm) on the combined 30 day minor-, major-stroke and death-rate. In addition, if complete data were available, we used the appearance of new diffusion-weighted imaging (DWI) lesions in patients who received pre- and postinterventional DWI as a second outcome parameter. The study population comprised 276 patients (male: 74.6%; mean age: 69.1 years; symptomatic stenosis: 56.5%) with new DWI lesions (20 mm: n = 74; 30 mm: n = 74; 40 mm: n = 61) length had a clinical periprocedural stroke and death-rate of 3.3%, 5.0% and 8.4% (black bars: P for linear trend = 0.17), Postprocedural new DWI-lesions (20 mm: n = 35; 30 mm: n = 74; 40 mm: n = 61) occurred significantly more often with the increase of stent-length (grey bars: 45.7%, 67.6% and 78.7%; P for linear trend <0.01).

Maybe, Schillinger et al could use their large database to address this important issue.

Disclosures

None.

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