



## Get Clarity On Generics

Cost-Effective CT & MRI Contrast Agents



FRESENIUS  
KABI

WATCH VIDEO

# AJNR

## Selective Poststent Balloon Angioplasty for Carotid Stenting

D.M. Pelz and S.P. Lownie

*AJNR Am J Neuroradiol* 2017, 38 (11) E97

doi: <https://doi.org/10.3174/ajnr.A5346>

<http://www.ajnr.org/content/38/11/E97>

This information is current as  
of August 7, 2025.

## Selective Poststent Balloon Angioplasty for Carotid Stenting

We read with interest the recent article<sup>1</sup> on the selective use of poststent dilation for carotid atherosclerosis. It confirms our published findings that the omission of routine poststent balloon angioplasty does not affect the angiographic and clinical outcomes in most patients undergoing carotid stent placement procedures.<sup>2</sup> We find it surprising that the authors have omitted from this recent review our series of 181 patients, in which both routine pre- and poststenting balloon angioplasties were not routinely performed and were only used selectively when required.<sup>3</sup> We found that CT angiographic plaque morphology was quite accurate in predicting which patients would require balloon angioplasty to achieve a satisfactory angiographic outcome. Our approach, which we have termed “primary carotid stent” placement, results in less hemodynamic instability than standard techniques<sup>4</sup> and has a similarly low incidence of periprocedural complications. We

believe that our data would have been a useful addition to this meta-analysis.

### REFERENCES

1. Petr O, Brinjikji W, Murad MH, et al. **Selective-versus-standard post-stent dilation for carotid artery disease: a systematic review and meta-analysis.** *AJNR Am J Neuroradiol* 2017;38:999–1005 CrossRef Medline
2. Bussière M, Pelz DM, Kalapos P, et al. **Results using a self-expanding stent alone in the treatment of severe symptomatic carotid bifurcation stenosis.** *J Neurosurg* 2008;109:454–60 CrossRef Medline
3. Pelz DM, Lownie SP, Lee DH, et al. **Plaque morphology (the PLAC Scale) on CT angiography: predicting long-term anatomical success of primary carotid stenting.** *J Neurosurg* 2015;123:856–61 CrossRef Medline
4. Bussière M, Lownie SP, Lee D, et al. **Hemodynamic instability during carotid artery stenting: the relative contribution of stent deployment versus balloon dilation.** *J Neurosurg* 2009;110:905–12 CrossRef Medline

 **D.M. Pelz**

 **S.P. Lownie**

Departments of Medical Imaging and Clinical Neurological Sciences  
Schulich School of Medicine and Dentistry  
Western University  
London, Ontario, Canada

<http://dx.doi.org/10.3174/ajnr.A5346>