Reviewer's report

Title: Dynamic Cerebral Autoregulation Is an Independent Outcome Predictor of Acute Ischemic Stroke after Endovascular Therapy

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Reviewer: Chaur-Jong Hu

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The investigators studied dynamic cerebral autoregulation (dCA) in patients with acute ischemic stroke (AIS) due to severe stenosis/occlusion of unilateral middle cerebral artery (MCA) or internal carotid artery (ICA) and treatment with endovascular therapy (EVT). They found that among 62 AIS patients after EVT and 77 non-stroke controls, dCA was impaired on both sides over the first 7 days in AIS patients. Phase difference (PD) \(<26.93^\circ\), one of indicator of dCA, on the ipsilateral side at 24h after onset is an independent unfavourable outcome predictor for AIS after EVT. This is a well designed and conducted study. However, there are few concerns.

1. The time intervals between completed EVT and dCA measurement should be presented.
2. In Table 1, what time point the blood pressure (SBP and DBP) was recorded at should be defined.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics
Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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