Reviewer’s report

Title: Developing an Adapted Charlson Comorbidity Index for Ischemic Stroke Outcome Studies

Version: 1 Date: 10 Sep 2019

Reviewer: Joosup Kim

Reviewer's report:

This manuscript still needs to be proofread for typographic errors, consistency of presentation, use of acronyms and formatting.

My main criticism of the paper was how the authors justified the addition of atrial fibrillation only in their modified CCI score. In the aims they had written that atrial fibrillation was included because this is a highly prevalent condition in patients with stroke and is associated with greater mortality. They have addressed my comment by providing details of reasons why other stroke-related risk factors were not included in the discussion (smoking, obesity and hypertension), but details of how variables were selected should provided in the methods. In addition, the list of other variables that were provided in the discussion is not an exhaustive list of major stroke risk factors. A more objective methodology related to variable selection is warranted. The authors have also stated that smoking and obesity are absent in administrative data, but there are ICD-10 codes for these, so the part of the discussion that addresses this comment needs to be revised.

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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