Reviewer’s report

Title: Associations of the metabolic syndrome and its components with cognitive impairment in older adults

Version: 0 Date: 18 Nov 2018

Reviewer: Hiroyuki Umegaki

Reviewer's report:

The study by Feinkoh et al investigated the association of MetS with cognitive impairment.

The study was well-designed and performed straightforward although some limitations including relatively small sample number and not general population but pre-surgical operation exist. As the authors claimed in the manuscript there have been mixed results regarding the association of MetS with cognitive impairment, the results presented in the current study has some contributions in this field.

I only have some minor points that authors may make it clearer.

1. The timing of the cognitive assessments

2. The number of the subjects who took medications that can be relevant with the results, especially fibrates. The authors also may want to discuss the possible effects of these medications.

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:

Acceptable

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