Reviewer’s report

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

Version: 1 Date: 07 Feb 2019

Reviewer: Reviewer 2

Reviewer's report:

"REVISION ASSESSMENT FROM THE ACADEMIC PEER REVIEWER:

Has the author addressed your concerns sufficiently for you to now recommend the work as a technically sound contribution? Yes

Reviewer comments: I am very impressed with the authors' responses to my comments. The revised statistical analyses including smoking and other lifestyle confounders as controls really strengthen the findings. The use of hierarchical adjustments is also sound and reveals interesting correlations between HDL and cognition that were previously not established in the paper. This is testament to the quality of the analyses and the cohort. I am glad to see the authors have addressed the other limitations in their paper and feel that they have very satisfactorily addressed my concerns. Overall I believe this to be very suitable for publication."

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.

Not relevant to this manuscript

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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