Reviewer’s report

Title: The Role of Gender in the Association between Personality and Task Priority in Older Adults' Dual-Tasking While Walking

Version: 1 Date: 20 Jun 2017

Reviewer: Michele Callisaya

Reviewer’s report:

The authors have responded adequately to most of my suggestions.

I still have a few minor concerns.

1/ Where beta coefficients are provided in the text please also include 95%CI.

2/ The description of mediation is improved. However using the formula given how was it decided if the variable was a mediator or not? eg was there a requirement for a certain magnitude of change?

3 Line 221 and 228 page 10 - the beta coefficients reported appear incorrect. For example the authors state there was a negative association with conscientiousness and DT-cog but the beta coefficient is positive (0.87).

Table 2 - Now that the coding for gender is given I don't quite understand the interpretation of the interactions. For example how do the authors determine that associations with higher conscientiousness and higher DT-cog was significant in women only? The interaction shows different effects for men and women but not that one is significant. The interpretation of the interactions needs to be carefully reviewed.

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

Declaration of competing interests
Please complete a declaration of competing interests, considering the following questions:

1. Have you in the past five years received reimbursements, fees, funding, or salary from an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

2. Do you hold any stocks or shares in an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

3. Do you hold or are you currently applying for any patents relating to the content of the manuscript?

4. Have you received reimbursements, fees, funding, or salary from an organization that holds or has applied for patents relating to the content of the manuscript?

5. Do you have any other financial competing interests?

6. Do you have any non-financial competing interests in relation to this paper?

If you can answer no to all of the above, write 'I declare that I have no competing interests' below. If your reply is yes to any, please give details below.

'I declare that I have no competing interests'

I agree to the open peer review policy of the journal. I understand that my name will be included on my report to the authors and, if the manuscript is accepted for publication, my named report including any attachments I upload will be posted on the website along with the authors' responses. I agree for my report to be made available under an Open Access Creative Commons CC-BY license (http://creativecommons.org/licenses/by/4.0/). I understand that any comments which I do not wish to be included in my named report can be included as confidential comments to the editors, which will not be published.

I agree to the open peer review policy of the journal