Reviewer’s report

Title: A novel integrative procedure for identifying and integrating three-dimensions of objectively measured free-living sedentary behaviour

Version: 1 Date: 22 Jun 2017

Reviewer: Lisa Price

Reviewer’s report:

This is an interesting manuscript that demonstrates how data from two validated objective measures of sedentary time can be integrated. The findings are important to those wishing to measure sedentary time and relate this to health variables.

Page 9, line 166: is it necessary to remove the whole day? Could you have just removed the non-wear period and synced the rest of the data?

Page 10, line 186: what program? How was it created? More detail needed (e.g. what type of software was used to create this?) was this done in python as stated for the data merge and GUI?

Page 13, line 262: presumably in the same direction as when it was all grouped together.

Figure 3: Colours need to be more distinguishable between SWA and INT

Page 15, line 303 - 308: You may want to incorporate the recently published Sedentary Behaviour Research Network (SBRN) - Terminology Consensus Project process and outcome into this section https://ijbnpa.biomedcentral.com/track/pdf/10.1186/s12966-017-05258?site=ijbnpa.biomedcentral.com

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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