Reviewer's report

Title: Validation of Automatic Wear-time Detection Algorithms in a Free-living Setting of Wristworn and Hip-worn ActiGraph GT3X+

Version: 0 Date: 17 Jan 2019

Reviewer: Leigh Vanderloo

Reviewer's report:

Thank you for the opportunity to review this manuscript. The aim and focus of this work is important in building greater consensus and standardize in the field of objective physical activity measurement. Overall, the paper is well-written, but I have provided some comments that I believe will help strengthen this submission.

My main criticism of this paper is in regard to Objective #3. As it stands, I do not think the methodological design of this study can appropriately address this aim. The wear period is too short. You may want to consider dropping this aim, as I do not feel the approach nor associated findings well-support this objective.

Secondly, the authors should outline the limitations of this work. This would make for an important addition that would help strengthen the quality of this paper.

Lastly, I would encourage the authors to undertake a solid review of their paper to catch any outstanding typographical errors (e.g., line 21 - should "consent" be "consensus"?).

Respectfully submitted.
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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