Reviewer’s report

Title: Longitudinal changes in body composition and waist circumference by self-reported levels of physical activity in leisure among adolescents: The Tromsø Study, Fit Futures

Version: 0 Date: 16 Apr 2019

Reviewer: Chi Ching Gary Chow

Reviewer's report:

This paper had been clearly presented the study design, methods, results and discussion. The paper is easy to follow. Authors showed an in-depth and wide range of consideration to discuss their findings. This paper adds value to the use of self-reported physical activity on body composition. I shared my comments on the presentation of the results. I am uncomfortable to read the sentence of "statistically of borderline significance" when the p-value is above the threshold of significance level (p = 0.05). I would suggest authors to consider to add effect size and confidence interval in the result session to indicate the magnitude of the phenomenon.

Results

Please consider

Page 10, line 8, "the most active girls experienced a statistically significant higher..." Please include the p-value and effect size.

Page 11, line 4 and line 10, it is inappropriate to use "statistically of borderline significance", please report the confidence interval and effect size.

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.

No

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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