Author’s response to reviews

Title: Association of objectively measured physical activity with body components in European adolescents. The HELENA cross-sectional study

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The authors thank the reviewer “Lisa Phillips” for the positive comments given to the manuscript.

The new suggestions have been taken into consideration, and the manuscript has been modified accordingly. Please, find below answer to the reviewer’s comment. The change in the manuscript has been highlighted in yellow background.

Response to Reviewer Comments and Changes Made

Reviewer 1 (Lisa Phillips) Comment and Author Response

Discretionary revisions

1. The additional information provided in the abstract background is useful, however the wording using could be altered to make it clearer. This was addressed in the main body of text in response to the original revisions, yet has not been addressed in the abstract. The original wording of ‘to better understand
the specific associations of PA with the different body's components such as fat mass and muscle mass are of interest' needs to be reworded.

Response: Thank you very much for that comment. The reviewer is right and this has been now reworded.

2. Intro, paragraph 3, 'when aim was weight loss' could read 'when the aim was weight loss'

Response: Thank you very much. Done.

3. Paragraph 4 'thus, to control... clarified' could read 'Thus, controlling for important confounders such as socioeconomic status is necessary when assessing the relationship between PA, fat mass and muscle mass indepentely'

Response: Thank you very much. Done.

4. Paragraph 12: FAS paragraph. change 'being ranged from 0 to 8' to 'ranging from 0 to 8'

Response: Thank you very much. Done.