Reviewer's report

Title: Patterns and socio-demographic correlates of domain-specific physical activities and their associations with adiposity in Chinese men and women: a cross-sectional study of 0.5 million adults

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Reviewer: Paulo Guerra

Reviewer's report:

Dear Authors,

Here I present my review of the manuscript “Patterns and socio-demographic correlates of domain specific physical activities and their associations with adiposity in Chinese men and women: a cross-sectional study of 0.5 million adults”, submitted to BMC Public Health.

MAJOR COMPULSORY REVISIONS

1. In view of the main characteristic of cross-sectional studies, I consider that the major limitation of this work is the absence of discussion about the potential of the sample. Good inferences from cross-sectional studies are based on representative samples, and this work leaves many questions about to whom the findings apply. I suggest that the authors discuss this limitation with greater emphasis.

2. This work leaves a big question: in what way large-scale studies may generate new hypotheses? In the same sense as these findings can be expanded to the population plan, as well as raise new strategies for government action in promoting physical activity in different areas of China. I suggest that the authors pay attention to these issues.

3. The TITLE is too long. The authors should make it more objective, such as: “Patterns and socio-demographic correlates of physical activity and their associations with adiposity in Chinese adults: a large-scale study”. Also, throughout the text, I suggest that the authors do not use the term “0.5 million adults” preferring the term "large-scale study", since their inferences are based on a sample of 466,605 adults.

MINOR ESSENTIAL REVISIONS

1. I suggest that the authors decrease the text of the results section, it is very extensive, and makes many references to supplementary material. I think the authors should focus more on the findings meets the main research question.

2. I suggest that the authors clarify some definitions, as “non-sedentary sports-related leisure time activities” (?), and make the text more objective (page 7/line 24-25).
Level of interest: An article of limited interest

Quality of written English: Needs some language corrections before being published

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests.