Reviewer’s report

Title: Physical Activity and Sedentary Behavior among Chinese Children aged 6–17 years: A Cross-Sectional Analysis of 2010-2012 China National Nutrition and Health Survey

Version: 0 Date: 11 Mar 2019

Reviewer: Priya Vart

Reviewer's report:


Study aims to describe the physical activity and sedentary behavior among Chinese children. Data from 38,744 Chinese children aged 6-17 years, from China National Nutrition and Health Survey (CNNHS) 2010-2012 was examined for this purpose. Study concludes that Chinese children performed little physical activity and spent long time engaging in sedentary behaviors.

Comments:

Introduction: Please limit the focus of Introduction to China. Information on global levels of physical activity/sedentary behaviors, definition of physical activity/sedentary behaviors, their relationship with health can be avoided.

Methods: Please specify who answered questionnaire for children, especially those 6-10 years old. Line 103-104, how children provided consent? Did 6 year old children signed and provided consent? What is the legal age of informed consent in China? Please reformulate. Meaning is unclear of sentence in line 119-121. Please reformulate. In Statistical analysis section mention what measure of variability was used for continuous variables (standard deviation or standard error). Were all continuous variables normally distributed? What statistical test was use to compare proportions?

Results: Please do not repeated what is already mentioned in Tables. When mentioning higher/lower (more more/less) (e.g. line 145), please mention p-values for the difference.

Discussion: There are a number of ambiguous statements thoughts discussion (including abstract). Avoid ambiguous statements (e.g. line 196: "... achieved good results." Specify what were those good results). In line 145 it is stated that "Older children spent more time doing school-time PA (62.8 vs. 60.6 min)." This can be statistically significant difference but from policy prospective is this a meaningful difference? There needs to be discussion on this in the manuscript. When main aim is to assess differences by age, sex and area then why conclusion do not provide information on this aim? Add a paragraph on potential public health/policy implication of study results.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.
No

**Does the work include the necessary controls?**
If not, please specify which controls are required in your comments to the authors.

Unable to assess

**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:

Needs some language corrections before being published

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