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: 19 Feb 2019

Reviewer: Walaa Al-Chetachi

Reviewer's report:

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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

Abstract: is comprehensive.

Background:
Page 3, Line 53 of the article please insert the WHO reference related to the definition of PA at the end of the sentence.
Line 53-56: the sentence "Engaging in regular PA can reduce the risk of hypertension, coronary heart disease, stroke, diabetes and some types of cancer (breast cancer, colon cancer), are fundamental to energy balance, weight control and emotion"[10, 11], need to be either paraphrased or split into 2 sentences to be more clear.
Line 63 please add the word "performing or doing" before homework while sitting
Line 73: please write down full name and add the abbreviation between two brackets of "China National Nutrition and Health Survey (CNNHS)" because this is first time mentioned in the text.

Methods: is sound and well explained
Page5; line108: what did the authors mean by et al at the end of this sentence in the methods "School-time PA included physical education class, exercise during class breaks, et al" Authors didn't mention about the estimated sample size or the total number of students targeted to participate in the survey however they mentioned only that data of 38744 students were analyzed. So what is the response rate of this survey is it 100% that all students approached, agreed to participate and included in the sample.

Statistical analysis
Page 5, Line 125: please add the word "and" before areas in the sentence "The participants were divided into sub-classes according to their gender, age group, areas."

Results: is clearly presented
Page 7, line 143: the sentence "Children in rural areas stayed in school longer than that in urban areas" to be changed into "Children in rural areas stayed in school longer than those in urban areas"

Line 145, I think the word "most" should be replaced by "more"

Page 8, Line 178, replace the word "and" in the sentence "and children in the poor' with the word "where" to be (where children in the poor--)

I think it would be better if the authors described their results according to the sequences of results' tables, so all results parts related to table 2 should be first and then table 3. Thus Leisure-time PA part of the results would be the last part of the results. Or the authors can split table 2 so data related to Leisure-time PA and sedentary behavior collected in one table which is table 3 and in the text it would be the last part of the results describing the Leisure-time PA and sedentary behavior.

Discussion:
Page 9, line 208: it is better to replace "compared to" by "in comparison with"

Line 215-219: the sentence "The data indicated that Chinese children were physically inactive in their leisure time, and the similar problem existed in many other countries: as described by Hallal, and has been found among students aged 13-15 in the Association of Southeast Asian Nations (ASEAN) member states, in Portuguese healthy children and adolescents aged 10-18 years, and in Scottish adolescents[35-38]"

First the authors mentioned Hallal without et al and the year of study. So it should be Hallal etal 2012. Also in the references part the order no. of Hallal et al reference is 37 however it is mentioned in the discussion text before the reference of Association of Southeast Asian Nations (ASEAN) member states and Portuguese studies.

So I think the authors should review the numbering of all references in the reference list and their references should be listed according to its sequences in the text.

Conclusion:
Line 262: the word "and" after 1st sentence should be deleted and added before the last sentence in the line 264.

Our data suggested that about half of Chinese children did an hour school-time PA, and only one in three children participated leisure-time PA, two in three children went to school by active transport, about seventy percent children did domestic PA

It should be "Our data suggested that about half of Chinese children did an hour school-time PA, only one in three children participated leisure-time PA, two in three children went to school by active transport, and about seventy percent children did domestic PA

Line 265: the word "engaged" should be deleted and use the word "spent"

References:
References needs to be revised
Reference No. 10 "Physical activity [http://www.who.int/mediacentre/factsheets/fs385/en/]"

should be written in different way: To start with the name of the authors e.g: World Health Organization (WHO), Then the name of the subject and then add the link

Similarly references No. 24 and No. 42
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

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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

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Needs some language corrections before being published

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