Reviewer's report

Title: Developmental Trajectories of Physical Activity and Television Viewing in Adolescence among Girls: National Growth and Health Cohort Study

Version: 2
Date: 21 May 2015
Reviewer: Emilio Villa-González

Reviewer's report:

Research article
BMC Public Health

Reviewer's report
Title: Developmental Trajectories of Physical Activity in Adolescence among Girls: National Growth and Health Cohort Study

Version: 2
Date: 20 May 2015
Reviewer: Emilio Villa-González

Reviewer's report:

Comments to Editor

Dear Editor,

Thank you for providing me a second opportunity to review this manuscript.

This manuscript addresses an important public health issue, i.e. the physical activity patterns over time on youth population. The stronger value of the study was the use of group-based trajectory analyses to identify different PA patterns among a heterogenous population. However, the manuscript would need a deep and meticulous work to be clearly understood. Therefore, i believe that several major and minor revisions are warranted as described below.

The current manuscript has been consistently improved. Most of the issues have been appropriately addressed; however, there are still several issues that must be clarified.

Yours sincerely,

Emilio Villa-González

Comments to the Author
This manuscript addresses an important public health issue, i.e. the physical activity patterns over time on youth population. The stronger value of the study was the use of group-based trajectory analyses to identify different PA patterns among a heterogenous population. However, the manuscript would need a deep and meticulous work to be clearly understood. Therefore, I believe that several major and minor revisions are warranted as described below.

The current manuscript has been consistently improved. Most of the issues have been appropriately addressed; however, there are still several issues that must be clarified. See the comments below.

Minor Essential Revisions:

1. Authors have reduced the methods section in this 2nd review; however, I would suggest trying to reduce even more, mainly in the Measurements and/or Model search process.

2. Regarding your response: The additionally recruited White girls had no significant differences in terms of distribution of income and parental education levels, when compared to prior-recruited White girls. It is suggest to address in the text.

3. Regarding the last suggestion in the last review: It strongly recommended include more detail about why the mean of PA levels at each assessment was higher among White than Blacks girls. This is shown in results, but you should hypothesize about it…

   It is recommended address in the discussion section. It is advise to include more detail to explain briefly which are the most important factors to determine lower PA levels among Black girls compared to White girls.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

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.