Reviewer's report

Title: Active and sedentary behaviours in children aged 7 to 10 years old: the urban and rural contexts, Brazil

Version: 2

Date: 31 May 2014

Reviewer: Rômulo A Fernandes

Reviewer's report:

Major Compulsory Revisions

Background
1. The Section is adequate, but I would like to suggest to change the objective of the study. I believe that this manuscript should be used to compare both settings, but also to analyze the correlates of physical activity in both settings.

Methods
1. Is there sample size estimates in both studies? This information is necessary;
2. Please, use the term "overweight" instead of excess weight;
3. Please insert data about anthropometry measures.
4. Statistical analysis is poorly used. I suggest to use multivariate model to identify the correlates of physical activity separately in both settings (Poisson regression with robust variance).

Results
1. The description of the results are complete, but also very large. I suggest to be more direct in the description of the findings and reduce approximately 30% the Section size.
2. Tables 1, 2 and 4 are adequate, but table 3 is hard to understand to the reader. I suggest to use just median values and interquartile ranges (exclude mean and standard-deviation).
3. Figure 1 is not necessary (should be excluded).
4. I suggest insert two additional Tables (urban and rural) describing, separately by each setting, the association between be physically active and all independent variables. In this tables should be used chi-square test and Poisson regression.

Discussion
1. Please explain with more details what means "cultural and socioeconomic barriers" related to the lower use of screen devices in the rural setting.

Minor Essential Revisions;

2. In Page 8 Line 197, I believe that that Authors should change "in Brazilian cities" to "Brazilian urban centers". Independently of the setting analyzed, both are composed by Brazilian cities.
3. In Page 8 Lines 204-209, the Authors should insert a reference to offer support to this data.


**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