Reviewer’s report

Title: In-School adolescents' weight status and blood pressure profile in South-western Nigeria: urban-rural comparison

Version: 1 Date: 14 Aug 2017

Reviewer: Xuefeng Liu

Reviewer’s report:

The authors used a complex multistage clustered sampling design to look at the difference of rural and urban areas on weight status and blood pressure among in-school adolescents and children in Southwestern Nigeria. Predictors and outcome variable were well defined. The manuscript was written, in general, in good shape. The methods used for data analysis were reasonable. There are a few concerns that need to be addressed.

1. This is a survey based study. Are there missing items or values involved for the survey variables? What is the response rate of the survey?

2. In the method section, statistical analysis methods used for the study were missing. The authors should add a subsection to elaborate on the methods used for data analysis in this study.

3. The definition of socio-economic status is confusing. Is it comprehensive index developed from multiple socio-economic factors? What is the cut-off used to determine "low" or "high" SES?

4. The headings of table 5 is quite messy and pretty hard to identify the columns.

5. The results in table 6 are quite confusing. For instance, the odds ratio of HBP associated with sex is 0.6. I guess this should be the odds ratio of HBP associated with "Male" rather than "Female", but many reader could misunderstand this as you put Female instead of Male there. For age group, late adolescent was a reference, how could you get p value 0.999 for this reference category? The same case happens to other variables. What is the reference for weight status?

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.

No
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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