Reviewer’s report

Title: Health-Risk Behavior Differences Between Boarding and Non-resident Students: Brazilian Adolescent National School Health Survey

Version: 0 Date: 26 Dec 2019

Reviewer: Kemal Ahmed Kuti

Reviewer's report:

Thank you for the opportunity to review submitted article as a part of large sample study results from Brazil. Reviewer noticed that present study provided fundamental knowledge to encourage health promotion practice in Brazil. The reviewer would provide some opinion to improve present study manuscript more clearly.

Abstract
1. Page3. In abstract line 6, it is not readable to continue different kind of number (i.e., "There were 101,788 of 9th grade students" or other is better). Please modify.

Background
2. Page 5. It is unclear the present study aim. Please provide research aim at the end of the background section. Also, the aim of present study is relatively limited in spite of the large-scale sample survey. Please reconsider the purpose of present paper and extending data analysis.

Methods
3. Providing subheading (e.g., overview of research project, participants, questionnaire, ethical consideration etc..) in methods section will contribute to increase readability. Please considering.

4. Present manuscript did not provide specific ethical consideration. Please provide more detail of ethical consideration (e.g., how to obtain informed consent, inclusion/ exclusion criteria, and discontinuation to participation etc...).

Results
5. Reviewer did not find number of boarding students and non-boarding students in Table 1 or result section.

6. Chi-square test in Table 1 and 2 were insufficient to identify the bias risk from demographic characteristics. Because significance of p-value was affected by sample size. Therefore, please provide effect size of Cohen's w and (or) significance of standardized residuals at least.

7. Based on the reviewer's understanding, logistic regression analysis is better for considering to primary research question of present study (Table 3-4). Because Poisson regression analysis is suitable for the counting data with a rare event such as traffic accidents. Please reconsider analysis methodology.
8. In addition, it is unclear that relative importance between boarding or non-boarding and other demographic/socioeconomic factors. Because present results did not demonstrate difference of other factor's intra-class prevalence ratio (i.e., male vs. female, difference among region, age etc...). Adjustment of other demographics is mandatory, but considering difference of risk among other demographics is also required. Reviewer felt possibility that intra-class difference among other demographic characteristics might be important compare with difference between non-residents vs. boarding students.

Discussion
9. In page 10, Line 11. Displaying specific statistical analysis result especially p-value is not suitable for discussion of the scientific manuscript. In this case, significance p-value was depended on the sample size.

10. In page 10, Line 20. Please provide references for such statement.

Level of interest
Please indicate how interesting you found the manuscript:

An article whose findings are important to those with closely related research interests

Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

Declaration of competing interests
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