Reviewer's report

Title: The multiple sexual partner behavior among Chinese female undergraduates: a cross-sectional study

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Reviewer: Bo Wang

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General comments:

Using data from a cross-sectional survey, the authors present findings about multiple sexual partner behavior and its risk factors among female Chinese undergraduates. The manuscript addresses an interesting topic, and adds to the body of knowledge of adolescent health risk behaviors. However, there are some problems with data analysis, interpretation, and English writing which I discussed in more detail below.

1) Given that the study sample is a cluster sample (i.e., hierarchical data) recruited from sixteen universities, Multi-level logistic regression (not general multivariate logistic regression) should be used in this analysis.

2) In discussion, page 15 paragraph 2 the authors stated that “... there was no significant difference on the prevalence of multiple sexual partner behavior among female undergraduates of different ages...” same paragraph, the authors wrote “…younger students are more possible to have sex with multiple partners.” These statements seem to conflict with each other.

3) English writing is poor. There are numerous grammar problems throughout the text. For example, in page 15 the authors stated that “However, what is noteworthy, because males were more likely than females to have multiple partners...”

4) The authors used many old reference articles (more than 10 articles were published 10 years ago).

Overall, this is not a well-prepared manuscript. There are severe grammatical mistakes that make the manuscript un-publishable. I would recommend that the authors revise and resubmit the manuscript to another journal.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Not suitable for publication unless extensively edited
**Statistical review:** Yes, and I have assessed the statistics in my report.

**Declaration of competing interests:**

I declare that I have no competing interests