Reviewer's report

Title: Determinants of sexual health knowledge among adolescent girls in schools of Riyadh city, Saudi Arabia

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Reviewer: Artemis Tsitsika

Reviewer's report:

The study aims to explore an interesting topic: the evaluation of the determinants for sexual health knowledge among adolescent girls in Riyadh, Saudi Arabia.

The study is sizeable. Overall, the paper is clearly written, sections of the paper (Introduction Methods Results Conclusion) are properly formatted in abstract and text. Some specific comments are listed below to assist the authors to improve the manuscript.

Discretionary Revisions

Although the sample was drawn from a voluntary association which may have resulted in a non-representative sample that would limit the ability to generalize the results to the general population. Self reported questionnaires by young people usually suffer from non completion of a series of questions or provision of unreliable information. How have the authors checked for the reliability of replies? Therefore, limitations should be expanded to include potential selection bias of cases (unless can provide evidence to the contrary).

A study of this nature would have benefited from more qualitative approaches (that might have provided at least some clues to the direction of causality), such as a systematic comparison of the study data with those from international and regional ones). In fact the ms could be strengthened with a systematic review to be undertaken aiming to improve the comparison of these results with those of previous or similar studies for example, should include comparison to adult studies and briefly explain why results may be different. In general, the comparison of these results with those of previous studies should be improved.

Given the study design and the type of data used, the authors should avoid over-interpreting the results. As expected, however, the specific dataset and methodology employed in this paper do not allow generation of any novel hypotheses over and beyond what is already known in the literature. The authors should be more precise on the prevention measures that should be recommended following the results of their study.

In conclusion, the authors have made an intensive effort to exploit and present data from Riyadh, concerning sexual health knowledge of adolescent girls of Saudi Arabia. The whole work meets the standards of the Journal. Overall, some improvements would make this study well-worth publishing.

Declaration of competing interests:
I declare that I have no competing interests