Reviewer’s report

Title: Estimation of the adolescent pregnancy rate in Thailand 2008-2013: An application of capture-recapture method

Version: 0 Date: 04 Dec 2018

Reviewer: Ruth S Buzi

Reviewer's report:

This study used a capture-recapture method to more precisely estimate rates of adolescent pregnancy in Thailand between 2008-2013. The results of the process indicated that rates of teen pregnancy are slightly higher than reported by official reports. Accurate estimation of teen pregnancy rates in a country where various practices affect data accuracy, is important. The study should clarify the following:

1. Abstract:

The statement under Background "and also allocation of resources for working with this problem" is unclear.

It is unclear to me from the description of the study methodology why the authors define the study design as cross sectional hospital-based. Is it a survey or registry-based study?

The result section is heavy with data. Could the authors summarize the main findings instead of providing all the details?

The authors should briefly describe the implications and contributions of the study.

2. Introduction:

* The authors should provide information on the current data regarding teen pregnancy rates in Thailand.

The authors should be consistent in using either past tense or present tense.

The authors should address the importance of securing accurate data in affecting policies to address the needs of pregnant teens.

3. Methods:

This section needs some organization and clarification. I would like to refer the authors to the following study that organizes the information in a very efficient way: "Using the capture-recapture method to estimate the human immunodeficiency virus-positive population". Jalal Poorolajal, Younes Mohammadi, and Farzad Farzinara. Epidemiology &amp; Health. 2017; 39: e2017042.

Please clarify if the study was approved by the IRB and what type of approval was obtained.
4. Results:
* This section is very long. The authors should reorganize and shorten the section. The reference I suggested could provide some ideas about the organization of the results.

5. Discussion:
* The discussion is very long. It may include some information that should have been added to the methodology.
* The authors should address the limitations of the study and the capture recapture design.
* The authors should be more specific in elaborating on the implications and contributions of the study.
General Comments: the study should be reviewed for grammar accuracy.

**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:

Not suitable for publication unless extensively edited
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