

## Peer Review Report

# Review Report on Maternal pregnancy intention and antenatal care seeking behaviors in Bangladesh: Evidence from Bangladesh Demographic and Health Survey, 2018

Original Article, Int J Public Health

Reviewer: Yuli Kusumawati

Submitted on: 26 Apr 2023

Article DOI: 10.3389/ijph.2023.1605944

### EVALUATION

#### **Q 1** Please summarize the main findings of the study.

Overall the review article is written well and clearly. Explanation of each section is presented in detail and clearly.

The main findings from this secondary data study are very clear, as evidenced by the relationship between the intention to get pregnant with the seeking behavior Antenatal care (ANC).

#### **Q 2** Please highlight the limitations and strengths.

The limitations of the study have been explained by the author, that using secondary data from health survey results which is a retrospective analysis there is a recall bias. pregnancy intention and antenatal care seeking behavior of the women with a live birth three years preceding the survey.

The strengths of the study also have been explained. One of its strengths lies in its nationally representative survey data, which makes it possible to generalize the findings at the national and sub national levels.

#### **Q 3** Please provide your detailed review report to the authors. The editors prefer to receive your review structured in major and minor comments. Please consider in your review the methods (statistical methods valid and correctly applied (e.g. sample size, choice of test), is the study replicable based on the method description?), results, data interpretation and references. If there are any objective errors, or if the conclusions are not supported, you should detail your concerns.

#### Review results

1. The research method using secondary data from the 2018 BDHS results has been implemented correctly, the sample selection uses a two-stage stratified sample of households, which can represent all regions in Bangladesh.
2. The statistical method is valid and properly applied, the sample size is very large 5,012 eligible and representative women.
3. The statistical test of the chi square test used is appropriate, because the dependent variable on ANC search behavior consists of indicators were: 1) timing of the initiation of the first ANC visit, 2) adequacy of the ANC visits, 3) coverage of the ANC services, and 4) taking IFA supplements. All outcome variables are in the dichotomous category. The process of statistical analysis to obtain a variable logistic regression model has been clearly explained.
4. Research can be replicated based on the description of secondary data analysis methods, sampling techniques and technical analysis
5. The research results have been explained in detail and clearly in the description and facilitated by illustrations of tables describing socio-demographic characteristics, bivariate analysis tables have been detailed for all variables including controlled variables.
6. The results of the logistic regression analysis are shown in tables and are very clear.

7. The results of the interpretation of the data are clear, but it is necessary to add explanations or arguments about the variables that contribute to the ANC search behavior, which are considered to support and hinder this behavior.

8. References: adequate but there are still references that are more than 10 years old (1999 to 2008) in references no. 43, 10, 34, and

On Abstract

- Methods: Please add the sampling technique process to get 5,012 ANC data, briefly and clearly.
- Result: need to add an explanation about the numbers in the results, Among these women from all data or from unintended/planned pregnancies?
- Please add the results of the multivariate logistic regression analysis to illustrate the contribution of other factors to not utilizing ANC services
- Give more operational recommendations for action

#### PLEASE COMMENT

##### **Q 4** Is the title appropriate, concise, attractive?

The title appropriate, concise, interesting for analyzing data survey

##### **Q 5** Are the keywords appropriate?

The key word Antenatal Care must be adding with seeking behavior

##### **Q 6** Is the English language of sufficient quality?

The English Language sufficient quality and clear

##### **Q 7** Is the quality of the figures and tables satisfactory?

Yes.

##### **Q 8** Does the reference list cover the relevant literature adequately and in an unbiased manner?)

The reference list cover the relevant literature adequately, but there was references that are more than 10 years old (1999 to 2008) in references no. 43, 10, 34, and 23.

Please try to replace it with up to date references.

#### QUALITY ASSESSMENT

##### **Q 9** Originality



##### **Q 10** Rigor



##### **Q 11** Significance to the field



##### **Q 12** Interest to a general audience



##### **Q 13** Quality of the writing



##### **Q 14** Overall scientific quality of the study



## REVISION LEVEL

**Q 15** Please make a recommendation based on your comments:

Minor revisions.