Reviewer’s report

Title: On exploring and ranking risk factors of child malnutrition in Bangladesh using multiple classification analysis

Version: 3 Date: 31 Jul 2017

Reviewer: Dianjianyi Sun

Reviewer’s report:

In the revised manuscript, I believe the author still focused on the comparison between multiple classification analysis (MCA) with linear and logistic regression. Additionally, there were still many issues needed to be addressed before publication.

1. As the authors focused on comparisons between statistical methods, I suggested the title of this manuscript could be changed into "Using multiple classification analysis on exploring and ranking risk factors of child malnutrition in Bangladesh".

2. In the abstract, too much on "Background" while too little on "Results".

3. The background needs to be shortened in only one page.

4. In the "Method" section

5. The 1st paragraph should be merged into the "Multiple classification analysis", or moved in the end of the "Method" section.

6. How did the researchers collect the information of "explanatory variables", regarding of variables at children level (age, birth weight, and birth interval), mother's level (education and nutrition status), household level (wealth status and family size), community level (rural and urban areas), and regional level (division)?

7. A sub header of "child nutritional status" should be added before "In 2011 BDHS data, the three anthropometric indices HAZ, WAZ, and WHZ are calculated ……".

8. In addition, three paragraphs of "Linear Regression Analysis", "Logistic Regression Analysis", and "Multiple classification analysis" needs to be shortened in two pages.

9. The "Results" section needs to be shortened into 30%~50%.

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.

Yes

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:

Acceptable

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