Reviewer’s report

Title: Socioeconomic determinants of malnutrition among mothers in the Amoron'i Mania region of Madagascar: a cross-sectional study

Version: 1 Date: 19 Nov 2017

Reviewer: Barbara Stoecker

Reviewer's report:

Socioeconomic determinants of malnutrition among mothers in the Amoron'I Mania region of Madagascar: a cross-sectional study (NUTN-D-17-00115R1)

The article provides important information for targeting programs that should improve malnutrition among rural mothers in Madagascar.

Minor clarifications would improve the quality of the manuscript:

L. 130. State more specifically what how variables were compared by chi-square. Clarity would be increased by making L. 129-130 into two sentences.

L. 133. Is it correct that all variables with more than two categories were converted into indicators? For instance, age, education, number of children < 5 yrs, scores for movable property, farming equipment, and farm animals, and rice availability?

L. 167 and Table 3. Check for typos in OR for MUAC and Illiterate & Primary education level. Also p values in the table and L. 167 do not match.

L. 192. How young were the women who were included in this analysis as "under the age of 20"?

L. 229 and Table 3. Clarify. Did malnutrition decrease with reduced availability of annual rice production?. On Table 3, why is the p. value 0.046 with confidence intervals of 0.85 to 9.98?

Editorial Comments:

L. 49. will help

L. 123. Months

L. 143. Age
L. 147. …characteristics (data not shown), the median…

L. 190. …developing countries…

L. 209-210. Overuse of "source"

L. 238. Omit "contribute to"

L. 268. voluntarily

**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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