

# Review of: "Determinant of Vaccination Status among Children Under Five years in Mattu Town, Oromia Regional State, Ethiopia"

Elizabeth B. Katana<sup>1</sup>

<sup>1</sup> Makerere University

Potential competing interests: No potential competing interests to declare.

Well done Authors. However i have concerns with the statistical analytical approach, and the lack of appropriate details in the methods especially the sampling approach.

Here are my comments: 1) The use of logistic regression must be accompanied with the appropriate measure of association, preferably the odds ratios, but also bearing in mind the outcome has a prevalence bigger than 10%, shouldn't the authors consider using prevalence ratios through poisson regression. The out puts for bivariate vs multivariate analysis are not presented in the logistic regression, it is not clear if an adjusted logistic regression analysis was done and if so, how was it done. The results from model fitness can be presented as part of teh results table on assoocations and not a separate table. The authors need to explain in details how they achieved this model fitness (What statistical tests and model building approaches were used).

2) For study design and period "A community-based cross-sectional study design was used to collect 118 samples from January 2020 to March 2020". Change the wording in this sentence from "samples" to "participants or respondents". The way it was written makes the reader anticipate sample collection in a laboratory or something in that line.

3) For exclusion inclusion criteria "Children whose ages were above five years were excluded from the study and Children aged five and fewer years were included in the study". The study targeted children under five years. Therefore, children under five years cannot be classified as excluded from the study. The authors should rethink this.

4) How were the households selected and sampled? How is Mattu town designed? The authors should explain the different geographical/administrative units in Mattu that could have been of importance when sampling the participating households and how they got to the housholds that were concluded in the study.