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

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Title of manuscript: Determinant of Vaccination Status among Under-Five Year-Old-Children: In Case of

Mattu Town, Oromia Regional State, Ethiopia

General comment: grammatical errors

Introduction

This section shows poor review of the literature. Read more literature and make your introductions strong. There is a lot of literature regarding the vaccination status of under-five children.

Needs organization from a global to local perspective. There are some here and there. Lacks a clear global picture of the problem.

The last paragraph of this section should be rewritten. Have you conducted a scientific study on office workers? If so, add a reference. Otherwise, everyone may say there is a problem. Due to credibility, please add a reference.

Correct "Material and Methods" as Methodology

"Our target population is under-five-year-old children in Mettu town." Correct the grammar of this sentence.

I can't agree with your exclusion criteria because you stated subjects who are not among your study population. An exclusion criterion indicates those subjects excluded from your study population under certain circumstances. Please correct it.

"To find the sample size for this study, the proportion of children who are completely vaccinated and not completely vaccinated would be used." Change the tense of "would"; it seems like a proposal.

I can't agree with your sample size, as it is too small. There is no hard and fast rule to use a correction formula. That is the reason why your sample becomes unrepresentative.

Add a reference for the source of p (proportion of children who have completed vaccination) and write the level of

confidence used for sample size estimation before the formula.

How many under-five children are there in the town? You said N < 5%; how many is it?

In line 141, "The data used in this study was primary data which is collected by using **an administered structured questionnaire** from parents of children in Mettu town."

Do you mean a self-administered questionnaire? Please write clearly.

How will you control possible confounding during your analysis?

Results

Place the last paragraph about the model fitness between lines 212 & 213, next to the chi-square result.

Your results are not well written. Please revise again because you have analyzed but not written.

Why did you miss by how much those variables have a significant effect on your outcome variable?

Write the confidence interval for the proportion (vaccination completed) according to your findings or data.

Check your data and analysis because I see a finding with a wider confidence interval (income).

Why does this happen?

Discussion

Needs big work.

It is too shallow.

Please review more literature for your comparison.

"The result showed that the odds of vaccine status for those whose education is College/University were 0.143 times more likely than those whose education is illiterate at a 5% level of significance, keeping all other factors constant." Please correct the interpretation of this statement. When I refer to the table, this measure of association (0.143) is for illiterates, and College/University is the reference.

You can correct it to

The odds of vaccine status for those whose education status is illiterate were 0.143 times less likely as compared to those with an education status of college/above at a 5% level of significance.

Use the "less likely" phrase because the OR<1.