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

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Title:

Line 1: Since you are dealing with many determinants replace determinant with Determinants of…. in the title.

Abstract

Line 11: Consider "background" instead of "Objectives "there is no need to mention objectives, you have already explained the objectives inside this part as "this study aimed to assess vaccination status and 14 associated factors among under-five year-old-children in Mettu town"

Line 14: Be consistent using the name "Mettu"or "Mattu"

Line 15: The abstract didn't state the study setting, and study design.

Line 23: How did you measure the income of the household? Do you think it is an appropriate measure of wealth?

Line 26 to 27: there is no need to talk about the result in the conclusion part of the Abstract.

Line 28: there is no need to use the term "major."

Line 29: and line 30 the recommendation section of the abstract should be specific to certain responsible body as in (the region, zone and district administration and health offices)

Line 30: Why do you recommend training?

Introduction

General comments

Each paragraph of the introduction section should be summarized, avoid the repetitions on the same paragraph as "the study…"

The introduction is rich, but it is vast try to include to or more scenario on the same paragraph and condense it.

Avoid repetitions of phrases in the result and discussion section

Enrich the discussion section it is shallow, the conclusion part needs more clarification, the recommendation should be based on your findings.

Specific comments

Line 38: use a phrase that can be used for all in "It, communities, countries, and the world.", and make it concise.

Line 38: mention where in (Worlds. Ethiopia) "The vaccine platform was established in 1974 against six 39 vaccine-preventable diseases:"..

Line 51: rephrase "Vaccine-preventable diseases are covers about 25% of the 10 million deaths occurring annually 52 among under 5 years children."

Line 53-56: rephrase and make the idea clear and provide reference" The result also showed that this coverage was significantly lower among children who lived in Maluku and Papua region, who were 36–47 months old, who had higher birth order, who had greater family size, whose mothers had no education, and from the poorest households."

Line 61: what type of association does it have positive or negative? And provide a reference for the idea from line 59 to 64.

Line 65: it is better to use the term 'the finding' than "the result "because here you need the summary of the study finding.

Line 71: Define the full name of the term "EDHS" at least when you use the first time.

Line 71-73: rephrase the idea and make it clear for instance use "Ethiopian children" than "Ethiopia children".

line 76: consider the same comment as in line 65.

Line 79: consider the same comment as in line 65.

Line 80: rewrite "and 22% were vaccinated by the appropriate age."

Line 81: make this clear "In Ethiopia, vaccination coverage was very low, "how low is "low" please try to put the figure? or relate it with international or national standards.

Line 82: consider flow of ideas/literature from global to local situation so bring back the Nigerian scenario before the Ethiopian.

Line 85-line 89: use the appropriate tense and summarize the idea.

Line 88: make clear is it a weekly, monthly or yearly income is "household family income greater than 1000 ETB or 52 USD."

Line 94: "The study conducted in Wadera District, Southeast Ethiopia" make it clear on which issue and at what population is this study conducted.

Line 99: it is not appropriate to use "the sample size" instead use "respondents "didn't complete their vaccination.

Line 105: rewrite "As the health office of Mettu town reports showed that Mettu town has a high vaccination problem (by using interview office workers)." and make it clear what type of problem is it.

Line 105: since there are studies on determinants of vaccination status among under-five year-old-children in many areas, try to show that the findings of these studies does not address your issue? show that the justification is not enough and so describe the gaps that your research will fill and consider why research study must be compelling and clearly states its contribution or new insights.

Methods

Line 123: Did you took all the districts? How did you select the clusters? /Did you took the samples or the whole/ how did the households were selected?

Line 125: please rewrite "Our target population is under five-year-old-children were Mettu town." Do you know the total number of house holds with under five children of your study area?

Line 126: where did you take samples for the pilot survey and be sure that it has a similar setting to your study area?

Line 129: Children whose ages were above five years were not the targets of your research at the very beginning. So

please clarify the inclusion and exclusion criteria.

Line 132: please rewrite the sample size determination and which formula you used?

Line 145: Please make the dependent variables Operational. When do you say the vaccination is complete and not complete.

Line 148: How do you select your independent variables?

Line 151, line 153, line 155, 157: please use the appropriate term is it caretaker or caregiver.

Line 158: whose monthly income is the "monthly income", is it the mother of the child or the household? How do you measure it?

Line 165: there is no need of the separately describing ideas from line 164 to line 185 instead describe the type of statistical analysis technique and model used in precise.

Results

How much is your response rate?

Line 187: please correct the sentence "Among a total of 118 children included in the study, 68(57.6%) were female and 50(42.4%) were female."

Line 190: use included instead "includes."

Line 191: there is no need to use the phrase "When we mention marital status of the mother…"

Line 194: better express the education status had completed (elementary education, high school…) than reporting as they are now.

Line 195: avoid the phrase "Concerning occupation,"

Line 197: avoid repetitions like "Concerning occupation,"

Line 202: avoid the phrase "Concerning the age of the respondents."

Line 203: what is the base for this classification.

Line 205: use the appropriate grammar line 205 to 207.

Line 205 and line 208: use as "the result of the study showed" instead of " The result from Chi-square test, The result from Logistic regression, and the result from Hosmer and Lemes how test"

Line 210: do you think that it is the appropriate expression "at a 5% level of 210 significance. "Consider this in many places in the discussion.

Line 213 to line 217: please use figures to express the p-value and confidence level?

Line 220: it is not needed to express that the "logistic regression model fits the data very well" rather better to use the figure from the model fitness.

Discussion

Line 223 to line 226: No need to explain the significance of the study here in the discussion section.

Line 233: Do not discuss about the analysis technique used in the discussion section, please try to directly discuss the results.

Line 236: the same comment as in line 210.

Line 237: No need to explain/ discuss about "The logistic regression model (odds ratio) was used to examine the relationship between the 238-vaccination status and one or more independent variables."

Line 238: Avoid using phrases like "the result showed "in the discussion section directly dive in to the finding and compare or analyze your finding with the findings of other studies.

Line 241: please try to mention the places and the time period of the studies you mentioned in "This result is consistent with the previous studies conducted in different area/regions."

Line 240, line 246, and line 250: avoid using the phrase "keeping all 246 other factors constant."

Line 251: the same comment as in line 241.

The discussion is also limited needs more elaboration.

Conclusion

Line 256 to 259: Avoid the lines from 256 to 259"This study aimed to assess incomplete vaccination and associated factors among under 5 years children in Mettu town using descriptive statistics, chi-square of association and binary logistic regression model. Of a total of 118 children, only 68 (57.6%) children completed the vaccination, and 50(42.4%) of them didn't complete their vaccination."

Line 261: your recommendation seems not based on your finding for instance why you recommend "training"?

Line 261: in your recommendation please be specific to the responsible bodies.