Review of: "Statistical Overview of Prevalence of Anaemia with Associated Socioeconomic and Demographic Factors in Nigeria"

Janaina Maria Setto

Potential competing interests: No potential competing interests to declare.

Dear editor,

I suggest that the authors make the following changes to the article:

ABSTRACT: The objectives of the article described in the abstract do not match the results.

Suggestion: Keywords: Anemia; children under 5 years old;

1. INTRODUCTION:

1st, 2nd, 3rd paragraphs include bibliographical references; 6th paragraph: correct the reference [Kebede et al. BMC Pediatrics (2021)].

References in the text: Standardize the style of bibliographic references, see journal guidelines.

Last paragraph of INTRODUCTION (Therefore, this study aimed to verify the prevalence of anemia among people of different socioeconomic levels in Nigeria, as well as the associated factors.) the objectives differ from ABSTRACT and RESULTS (ANEMIA IN CHILDREN FROM 6 TO 59 MONTHS).

2. RESEARCH AND METHODS:

It is inadequate because it describes (This cross-sectional data set, which is nationally representative, was collected through face-to-face interviews with women aged between 15 and 29.) and then (These are the potential factors that may influence the condition of children between 6 and 59 months,).

If the study is about anemia in children aged 6 to 59 months, adults and women of childbearing age do not have to be mentioned.

It did not mention the group with and without malaria, use of mosquito nets. Are they independent variables?

2.1 Logistic Regression: unnecessary to describe everything about the test.

2.2. Chi-square: unnecessary to describe everything about the test.

The tests that will be carried out must be stated, specifying the variables that will be analyzed in each test. Specify the

dependent variable and independent variables. Dependent variable: anemia. Independent variables: age, sex, mother's anemia status, wealth index, level of education, region, place of residence, and dietary intake.

3. Data Analysis and Discussion of Results

I suggest: 3. Results

Standardize the term in the text and results: children aged 6 to 59 months. Do not use: children under 5 years old.

Table 1: correct typing errors in the values referring to the percentage (%) such as: 7:53 pm

Percentage values: standardize with 1 or 2 places after the decimal point, not using a period.

Wealth index: repeated variables (richest, poorest).

He cited malaria and the use of mosquito nets and did not mention

2. RESEARCH AND METHODS:

Independent variable age was mentioned in table 3.3 Binary Logistic Regression, but it was not categorized to have the Chi-square test performed, so much so that it is not included in table 3.2. I suggest deleting it from table 3.3 or categorizing it and placing it in table 3.2 using the Chi-square test.

3.3. Binary Logistic Regression of Anemia in Children Under 5 Years in Nigeria

3rd paragraph: 95% CI 1.0-1.0 or greater than can be considered risky.

Rural areas have a 95% CI of 0.923-1.137, meaning this variable cannot be considered a higher risk for anemia.

“In addition, children under five years of age who live in rural areas (OR = 1.024; 95% CI 0.923-1.137) have a higher risk of having anemia compared to those who live in urban areas.”

Same guidance as above for Musketeers (OR = 1.032; 95%CI 0.940-1.133).

Review the results in table 3.3 to determine what really is a risk factor for anemia.

I suggest replacing rapid test for malaria with a rapid positive test for malaria.

4. DISCUSSION:

I suggest 4. Discussion: discussing the data found in the literature, as this has not been done.

I suggest replacing rapid test for malaria with a rapid positive test for malaria.

5. FINAL CONSIDERATIONS:

I suggest replacing 4. CONCLUSION with 5. FINAL CONSIDERATIONS.

It is not necessary to rewrite all the results.

I suggest rewriting this section, highlighting only statistically significant results and being objective.