

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

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Potential competing interests: No potential competing interests to declare.

Review report by Dr Poonam Gupta of title 'Statistical Overview of Prevalence of Anaemia with Associated Socioeconomic and Demographic Factors in Nigeria'

Dear Joseph Kupolusi and Census Miller Osiobe,

I wish both of you a sooner publication. As you belong to the preventive medicine and statistical departments, the statistical analysis is extremely appreciable. As you belong to a paraclinical field, the way you have utilized the previous survey for analyzing a more relevant outcome is highly recommendable work. Every work is never perfect till it is criticized, so please make the below changes so that your publication may become more impactful. I am hereby also sending you your article with highlightings for your easy corrections.

The study is well analyzed but needs revision, stressing on the practical relevant points.

1. In section 2:

There are improper and misleading sentences as highlighted regarding dependent and independent variables in the text attached.

2. In 2.1:

Small p is not defined,

capital P has been explained as probability

then what is small p? Is that the same? It is not mentioned.

3. On page 1, the number of under-five children with malaria with anemia is 3850, but in table 3.1, the total number of anemia cases is just 3459, not to talk of under-five children with malaria. The description above the table is opposite of what is written in the table. This is a total indigestible mismatch.

4. Correction needed in spelling in 3-2 as highlighted.

Again in 3.2, the number of anemic patients is 7255, suggesting a reverse value in section 3.2.

5. The comparison of mosquito net is done in the table with anemia and not with malaria, yet in the description, the comparison is falsely made for malaria. It needs further data in the table to prove the description on page 12, section 3.2, highlighted in the table and text. Mosquito nets can't increase the incidence of malaria, so such statements should never be made, as mosquito nets are an important part of the prophylaxis policy in malaria in most of the nations.

6. In Table 3.3, the mention of the inverse relation of age with anemia needs elaboration in the description because it stresses the title as to why under-5 age children were especially studied.

7. '**Discussion**' heading is altogether missing, in which

a. Relevant background knowledge with **purpose** of study needs to be mentioned

b. **Comparisons** from literature data and past studies are needed

c. Objective solved by this study needs to be written, as to how it is more helpful than other previous studies in treatment policy of anemia or malaria.

d. How **impactful** this study is on Nigeria population must be written, stressing on how much impact of malaria and anemia, which are already being endemic has on the population of Nigeria.

8. In conclusion and various other sections, repeatedly it is mentioned that more of anemic children are more found to be suffering from malaria, while truth is that more patients of malaria are anemic as hemolytic anemia is caused by plasmodium, and the pathophysiology is not the other way round. Similarly mosquito net uses are more anemic is not the correct version.

'However, use of mosquito nets were not statistically significant.' Is an Incomplete sentence, it needs to be written as to not significantly positively or negatively related, and if it is looking totally illogical or unexplainable then it needs to be removed from conclusion all together as most of the readers do read only conclusion and will not read whole text after seeing this non conclusive, meaningless and confused statements.

9. References are neither marked and nor numbered either in text or in the last. Numbering is must to be done.

10. Here is your highlighted article as supplementary document attached.

Thanks

Regards

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India