

Review of: "Obesity, Dyslipidemia and other Risks Factors for Metabolic Syndrome among Indigenous Black African Secondary School Students in Lagos, Nigeria"

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Potential competing interests: No potential competing interests to declare.

First of all, I would like to congratulate the authors for their valuable work. However, I have some criticisms:

- I think there is an incompatibility between the purpose and title of the study. It seems that the main purpose of the study is to determine the frequency of dyslipidemia and metabolic syndrome. However, the working title only mentions risk factors. The title needs to be reconstructed by relating it to the purpose sentence.
- In the introduction part of the study, mostly outdated references are included. Replacing these with current references may increase the acceptability of the manuscript.
- In the introduction, it seems that the authors cannot establish the relationship between diet, dyslipidemia and MetS. For this reason, the second part of the introduction remained as an independent section.
- I think the purpose sentences at the end of the summary and introduction do not say the same thing. In the abstract it is stated "among overweight and obese adolescents", but at the end of the introduction there is a statement such as "among apparently healthy adolescents". This contradiction must be corrected.
- The study sample was well calculated. However, I did not see any explanation of what was done to eliminate selection bias. For example, it is not stated how the three schools from which the students were admitted were selected.
- It should also be stated whether the distribution of male and female students was taken into account during the sample calculation phase.
- I think the authors could actually present the sampling procedure with a flow diagram, since it is multi-stage.
- I think the results of the study could be presented in a much shorter and more understandable way.
- Tables contain too much data.
- Although the authors stated that they performed multivariate logistic regression analysis, I did not see a regression model among the results.
- The discussion section was generally carried out on numbers and the interpretation phase was left incomplete when comparing the results. I must say that I expected a much richer discussion content on such a subject.