

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.

Overall this is interesting work carried out on more than 600 children/adolescents in Lagos. Metabolic syndrome is associated with a number of chronic diseases, especially cardiovascular diseases, and is therefore a vitally important issue. The introduction is quite well written and gives a concrete description of the study problem and its context. However, the results are too dense and sometimes redundant. It is not very clear how the categories used to stratified childhood and adolescence in the tables have been decided, nor why they have been used as they are not part of the objective. In my opinion, the number of tables could be reduced to 2-3 and the article would maintain its relevance, or even increase it by providing a much more concrete message. The discussion would have to be refined a bit more as it sometimes seems like a repetition of the results. This section lacks a better reasoning of the differences found between the present study and those cited, as well as a good statement of the limitations and strengths of the work. Some minor comments:

Title: I suggest you to include the study design

Abstract: Describe DBP. If you have explored the differences between girls and boys, I suggest you to include this in your main objective in order to be in line with the current recommendations of the gender perspective research. This sentence is difficult to understand: Approximately 17%, 75%, 5% and 3% of the students were underweight, healthy, overweight, and obese separately. You should include Dyslipidemia in your conclusion, as it is part of your main objective.

Introduction: Describe CVD. Maybe you can use Dyslipidemia instead of "decreased HDL-C" in the MetS definition. Use the abbreviation of MetS throughout the manuscript.

Methods: How do you measure the neck circumference? It would be useful to include the BMI cut offs. Based on what have you stratified the childhood/adolescence stages?

Results: In the first paragraph third line there is an incomplete sentence. See also the 8th line.

Discussion: Include limitations.

References: It is advisable to update them. If I am not mistaken, the most current is 2019.

Thank you.

