Reviewer’s report

Title: Prevalence of metabolic syndrome in Brazilian adults: a systematic review

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Reviewer: Barbara Vizmanos

Reviewer’s report:

This paper entitled “Prevalence of metabolic syndrome in Brazilian adults: a systematic review” provides interesting information on the prevalence of Metabolic Syndrome (MS) in apparently healthy population, from different studies in Brazil.

The research question is easily identifiable. Methodology and results are clearly stated and the precisions given made it reproducible. The data provided by this study allow us to have a benchmark for further studies and to better define the methodology in future works on SM.

There are no majors comments for this paper. Language and grammar are clear.

A few minor discretionary revisions are suggested. In the subsection “Hypertriglyceridemia”, page 10, first line, instead of "n = 6 studies", I think authors should put "in six studies". In the subsection “Low HDL-cholesterol”, in the last sentence, instead of “and lowest (37.1%) was”, I think it is “and the lowest (37.1%) was”. I suggest you review the paragraph in page 11 and 12 (second sentence) on the indigenous population prevalence, for clarity.

The authors express the weaknesses and strengths of the study. In the last paragraph before conclusions (page 14), they note “It is noteworthy that many studies from Brazil are likely to be published in non-indexed scientific journals”. However, this statement, in my opinion, is not sufficiently supported by the results presented.

I suggest that Table 1 is included in the article (not as supplementary file).

On balance, I think the article should be published in its current form by the interest in the field and the quality of its analysis.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests.