Reviewer’s report

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

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Reviewer: Maurizio Battino

Reviewer’s report:

The manuscript "Prevalence of metabolic syndrome in Brazilian adults: a systematic review" is of interest for the readers and the aims of BMC Public Health.

The experimental design and the working hypothesis are correct; the methodologies employed are up-to-date and the data obtained are of absolute interest. Finally, the conclusions are consistent with the results.

Only few points should be improved to give the readers a complete and exhaustive information about some topics. For example, in the background section when indicating the possible linkage of metabolic syndrome to other pathologies and the possible mechanisms underlying which could be causes of metabolic syndrome, I consider that few lines should be devoted to explain the possible role of systemic inflammation in the onset and development of the syndrome.

In this sense, the following recent review on these aspects could be cited and discussed since it will significantly help the Authors in this task: Bullon P, Morillo JM, Ramirez-Tortosa MC, et al. Metabolic syndrome and periodontitis: is oxidative stress a common link? J Dent Res. 2009 Jun;88(6):503-18. doi: 10.1177/0022034509337479.

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