Reviewer’s report

Title: Dietary Patterns and Cardio-metabolic Risk in a Population of Guatemalan Young Adults

Version: 3 Date: 07 Jul 2017

Reviewer: Diego Salmeron

Reviewer’s report:

I consider that the statistical method used to test the associations between dietary patterns and CMD risk factors is appropriate. However, the authors have to explain some details about the log-binomial regression models used. In particular:

1) The logistic regression model is possibly one of the most popular approach for binomial data partially because of the numerical stability of the estimates. Why is log-binomial model better than the logistic model for your study design?

2) Very often, the log-binomial model fails to converge because the maximum likelihood estimate lies on the boundary of the parameter space where the gradient of the likelihood is nonzero. How did you deal with this problem in your study?

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:
Acceptable

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