Reviewer’s report

Title: Does access to healthy food vary according to socioeconomic status and to food store type? An ecologic study

Version: 0 Date: 23 Aug 2018

Reviewer: Marie-Claude Paquette

Reviewer's report:

This paper's objective is to explore whether access to healthy foods vary according to store type and SES among users of public health promotion program in Brazil.

Background:

- Relevant review of the literature

- What is meant by local markets? Public markets?, corner stores? Would be interesting to add come context of what is meant.

- When you talk about the low quality at higher price, are you talking about nutritional quality?

Method:

- What is meant by the "provision of a morning shift"?

- What is included in all commercial FV food stores? Are supermarkets included in this definition?

- How are frequent HAP users defined?

- Data collection is not clear. Where all FV food stores in each HAP surveyed? Examples would help for the classification of the food stores. Again, I do not know what local markets refer to.

- The way you use the word access make me think more that you are talking about availability, what is available inside the food store and its variety. In my understanding access is a larger concept that includes availability, accessibility, accommodation, affordability and acceptability. https://www.ncbi.nlm.nih.gov/pubmed/7206846

- How was the distance of user's home used in analysis?

- Only the distance and income of participants were used?
Results:

- Categories of retired or pensioners and unpaid activities at home does not seem mutually exclusive.

- What is considered low income?

- Is the HSFI discriminate in this study, the values between different store types does not seem to be that different…..

Discussion:

- The data on the local food environment should be presented in the results section.

- Limits should include that only HAP participants' characteristics were used to determine the neighborhood characteristics.

- Limits should also include that participants shopping outlets were not documented, it is not known if they use the stores in their sector primarily or other stores on their commute or activity space.

- I do not understand the sentence "The use of buffer in determining food environment implies determined and recognized boundaries….."

Highlights

- While the second highlight that state that an increase in FV markets promote access to fresh products may be true this study did not look at this aspect.

**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 recommend additional statistical review

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