Author's response to reviews

**Title:** Prevalence of obesity and abdominal obesity in the Lausanne population

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**Author's response to reviews:** see over
Dear Madam, dear Sir:

Please find here enclosed the revised manuscript ref MS: 3515911391955194 newly untitled “Prevalence of obesity and abdominal obesity in the Lausanne population” by Murielle Bochud, Vincent Mooser, Fred Paccaud, Gérard Waeber, Peter Vollenweider and myself.

We thank the Reviewers for the constructive review of this paper. As requested, we did major revisions of the paper according to the Reviewers’ suggestions and remarks. The modifications to the paper are indicated in red. We have carefully considered each of the Reviewers’ suggestions as outlined below.

Hoping that the revised manuscript will be acceptable for publication, we thank you in advance for re-considering it.

With my best regards,

 Pedro Marques-Vidal
Reviewer #1: (Roya Kelishadi)

The study cannot be generalizable to the whole country, and the title should be revised.

- The title has been revised accordingly and a comment has been added in the text (paragraph on limitations).

More data about the correlations should be added to the "Abstract"

- No correlations were calculated in this study. We would be very glad if the reviewer could indicate us which correlations are to be shown.

The sampling method should be described in brief in the "Abstract"

- The sampling method is now indicated in the abstract.

The "Background" is not informative.

- The background has been slightly changed in the abstract and in the text.

The mean(SD) of variables studied should be provided.

- Mean and standard deviations for BMI and waist according to gender are now provided in the text.

In Table 2, higher physical activity should be considered as reference to show the possible risk of sedentary lifestyle in comparison to a more active lifestyle.

- Corrected.

The "Discussion" is weak, and needs to be rewritten in many parts.

- The discussion has been implemented and more references have been added.

The study limitations should be described before "Conclusion".

- A paragraph on the study limitations is now provided.

The interpretation of the findings of the study is weak.

- A more thorough interpretation of the findings is now provided in the discussion.

Some of the columns in the tables have no heading.

- All columns had a heading. We would be very glad if the reviewer could indicate us which columns have no heading.

The English should be revised by a native writer.

- The text has been checked and improved.
Reviewer #2: (Jean Dallongeville)

The results of the present study were obtained from a large sub-sample of the population of Lausanne. The participation rate appears rather low. They found that the prevalence of obesity in their sample is lower than previous estimations for Switzerland. The authors could comment the properties of their sample to represent the population of Lausanne.

A comment on the participation rate and representativeness of the sample has been added in the discussion (paragraph limitations).

The authors found that the prevalence of abdominal obesity is larger in women than in men whereas the opposite is observed for obesity. Although they used the recommended cut-off to define abdominal obesity and obesity in men and women one possible explanation to explain their results is that different cut-off values of abdominal obesity are used for men and women whereas a single cut-off is used to defined obesity. Would they mind to comment?

A comment has been added in the discussion.