Reviewer’s report

Title: Regional and socioeconomic variations in dietary patterns in a representative sample of young Polish females: a cross-sectional study (GEBaHealth Project)

Version: 0 Date: 24 Nov 2019

Reviewer: Reci Meseri

Reviewer's report:

I would like to thank authors for this valuable work about Polish Females and their dietary patterns.

I have some recommendations about this manuscript.

First, I could not understand why this manuscript was presented as a short report. I think it is a bit long for a short report. You may consider submitting it as a research article.

- In keywords: Principal component analysis - AS I understood this analysis was done before this article, thus it should not be a keyword for this paper.

- For ethical approval - even though under 18 is considered as children and parents informed consent is needed, it would be better to obtain a separate informed consent from them also.

- Methods section Line 159 - DP's were explained elsewhere but DP's are the major concern of this article and it would be better if explained here also. Without this information it is very hard to follow the study.

- Methods section line 167 - please explain logarithmically transformation in detail. Why did you need such transformation and how you conducted.

- Methods section line 174 - self reported weight and height can be considered as a limitation.

- Methods section Line 175 - please explain regression equation technique in detail

- Methods section Line 176 - BMI for age can only be used with percentiles but as I understood you used cut-off points as IOTF recommended. That means you used BMI, but not BMI for age. For under 18, it would be better to use BMI for age. Thus, this part needs a bit more explanation.

- For table 2 - please state actual p values
For table 3 - it would be better to make the significant ones bold and give significant p values instead of * / ns.

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