Reviewer’s report

Title: Changes in food intake patterns during 2000-2007 and 2008-2016 in the population-based prospective Northern Sweden Diet Database

Version: 1 Date: 29 May 2019

Reviewer: Rebecca Leech

Reviewer's report:

The authors have appropriately responded to the reviewers' comments and suggestions. The figures that present conditional means are now more easily interpretable and the font in tiff file versions are clear (pdf copy appears to distort the font). My only comment is that the model fit indices and any other useful information that were used to select the number of classes (e.g. BIC values, LL values, entropy, class sizes etc.) for Class solutions 1-7, and for each data set, should be provided as supplementary material. Such data will support the statement in the results on line 233 "For all four data sets, model fit indices favoured a four-cluster solution". If pattern interpretability based on prior theory more heavily guided class selection then this should also be made clear.

Level of interest
Please indicate how interesting you found the manuscript:

An article of importance in its field

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

Acceptable

Declaration of competing interests
Please complete a declaration of competing interests, considering the following questions:

1. Have you in the past five years received reimbursements, fees, funding, or salary from an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

2. Do you hold any stocks or shares in an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

3. Do you hold or are you currently applying for any patents relating to the content of the manuscript?

4. Have you received reimbursements, fees, funding, or salary from an organization that holds or has applied for patents relating to the content of the manuscript?
5. Do you have any other financial competing interests?

6. Do you have any non-financial competing interests in relation to this paper?

If you can answer no to all of the above, write 'I declare that I have no competing interests' below. If your reply is yes to any, please give details below.

I declare that I have no competing interests

I agree to the open peer review policy of the journal. I understand that my name will be included on my report to the authors and, if the manuscript is accepted for publication, my named report including any attachments I upload will be posted on the website along with the authors' responses. I agree for my report to be made available under an Open Access Creative Commons CC-BY license (http://creativecommons.org/licenses/by/4.0/). I understand that any comments which I do not wish to be included in my named report can be included as confidential comments to the editors, which will not be published.

I agree to the open peer review policy of the journal