Reviewer’s report

Title: Obesity and Caries in Four-to-Six year old English Children: A Cross-Sectional Study

Version: 0 Date: 05 Oct 2017

Reviewer: Julia Csikar

Reviewer’s report:

The paper is well written and with some minor modification would add to the available literature in the area.

There is an interchangeable term being used which should be correct throughout. 'Relationship' and 'association' are being used in the aims, objectives and within the body of the text. They are very different and the paper need to focus on one and stick to this terminology.

Within the introduction it may be useful to the audience to understand the socio-demographic features of Plymouth and compare in some way to England as a whole. If we want people to use this date is should be placed within a national context.

I found that the papers you referred to did not explain their key findings clearly. It would be useful where possible to give their findings in comparison to yours and apply some form of critique where results varied.

Again, from the results it would be useful to discuss the generalisation of your sample compared to Plymouth as a whole to give an understanding if the sample is typical.

I found that the discussion of the tables and data limited and would welcome more detail on the direction of the results and the implications of these findings being scrutinised more in the discussion.

I would recommend more detail related to the logistic regression as this would be useful for others to replicate your work, knowing what the dependent, independent and reference groups were helps understand the data presented.

There is little discussion around prevention of chronic life-style-related conditions and the supportive environments as opposed to 'correcting' unhealthy behaviours. This is where the dental public health element should be explored and other authors cited.

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

Yes

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

**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