Reviewer's report

Title: The impact of socio environmental characteristics on domains of oral health-related quality of life in Brazilian schoolchildren

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Reviewer: Thiago Ardenghi

Reviewer's report:

General Comment
The authors present an interesting study aimed at investigating the influence of socio-environmental characteristics on Child Oral Health-related Quality of life (COHRQoL) in Brazilian schoolchildren. The study had a cross-sectional design and used a multistage probability sampling strategy; 286 12-year-old schoolchildren attending public and private schools of Juiz de Fora, Brazil, were orally examined. Data on socio-environmental were gathered though questionnaires; the results indicates the negative impact of poor socio-environmental and clinical oral abnormalities on COHRQoL. In my opinion, this is a logically organized manuscript; the methods are sound and the topic is of interest for the scientific community and the target population. However, few aspects should be clarified:

1) Major compulsory Revisions

1.1. Introduction:
1.1.1 The background and rationale for the study could be strengthened. For instance, more detailed information on the theoretical pathway of the link between socio-environmental characteristics and COHRQoL is needed.

1.2. Methods
1.2.2. Sample size: please, provide the sample size calculation for the main associations posed in the study (the effect of socio-environmental characteristics on COHRQoL).
1.2.3. The use of Poisson regression analysis was a good option instead of an ordinary logistic regression model. However, the analysis should be run considering the clustered sampling.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:
'I declare that I have no competing interests'