Reviewer's report

Title: Evaluation of free and total fluoride concentration in mouthwashes via measurement with ion-selective electrode

Version: 0 Date: 20 Jul 2019

Reviewer: Raquel Zita gomes

Reviewer's report:

I have carefully read this comparative work on the fluorine content in some of the major mouthwashes on the European and American markets. undoubtedly it is an interesting work that uses modern techniques of digital analysis to understand the real content of free fluorine ions and therefore useful for the remineralization of the dental tissue. there are not many similar works in the literature, the qualitative level of the analysis seems appropriate and also the structure of the work itself. I have some important suggestions that can further improve the quality of this scientific work and make it more accessible to the common reader.

a. the authors must expand the abstract in particular the part of the methods describing in greater detail the methodology used. in addition, they must provide more details on the products studied (manufacturer, etc.)

b. the authors must better explain the characteristics of the products analyzed also in the text of their manuscript, in the section dedicated, to be inserted in the methods.

c. although the tables already provide many of the necessary data, it is important that the authors reinforce the part of the results in the body of the manuscript and explain what were the most important results obtained for the various products, even in a discursive form.

d. the authors must examine in detail, in their discussion, some of the previous studies on the subject, because although small, there is a literature on this topic, and it is possible to further compare the results obtained by the authors, with those present in the literature.
e. the authors must report in a dedicated section within the discussion, the limits of the present work, of a methodological nature and the fact that only some of the products on the market have been coherently analyzed.

f. the level of English is really good but there are a couple of typos that should be corrected, authors should re-read the manuscript carefully and make these corrections.

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 am able to assess the statistics.

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

Needs some language corrections before being published.

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.