**Reviewer’s report**

**Title:** Efficacy of nano-carbonate apatite dentifrice in relief from dentin hypersensitivity following non-surgical periodontal therapy: A randomized controlled trial

**Version:** 0  **Date:** 15 Mar 2020

**Reviewer:** Hai-Xia Lu

**Reviewer's report:**

The present study is randomized controlled trial to assess the efficacy of dentifrice containing nano-carbonate apatite (n-CAP) in reducing dentine hypersensitivity (DH) after nonsurgical periodontal therapy. Since no published study has evaluated the effect of n-CAP in relieve the DH after scaling and root planing therapy, and the report of present RCT followed the CONSORT statement, this may have some contribution to this research field. However, some minor revision needs to be adjusted.

1. In the abstract, background, in this part, the first sentence is important to indicate the research gap for the present study. Therefore, please the elucidate the research gap for the background.

2. In the data analysis, authors stated that "the normality of data was assessed by Shapiro-Wilk test. Data with skewness was converted before analysis." Please report methods of the data transform detailly.

3. In the data analysis, since the mixed linear model was adopted, and two level is the person level and tooth level, the tables present in the study did not report the results with two level. Please revised.

**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:
Acceptable

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