Reviewer’s report

Title: Digital Evaluation of Nasal Changes Induced by Rapid Maxillary Expansion with Different Anchorage and Appliance Design.

Version: 0 Date: 14 May 2017

Reviewer: Tomislav Lauc

Reviewer's report:

Dear Editor,

Thank you for the opportunity to review this valuable study. The study presents three different appliances for maxillary expansion and compare the changes on nasal cavity. The study subject is interesting and the study is well written. Methodology is correct and conclusions are based on the results. Nevertheless in my opinion there are some minor comments that should be followed and minor changes to perform before publication. My advice is a minor revision and my concerns are as follows:

- Title
Title is too long and should be summarized.

- Abstract
Please provide demographic data for boys and girls separated;
Please do not use acronyms in the abstract section.

- Introduction
ok

- Materials and Methods
Measurements were performed on low-dose CTs and CBCTs. Was an analysis of the error due to the different methods performed? Please explain this on the Methods section.

- Results

ok

- Discussion

Significant expansion of nasal cavity shape does not assure an improvement of the breathing function. Please make considerations around this subject in the Discussion section.

- Conclusion

ok

- English language

Please provide minor revision for English language by professional proofread services.

**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:

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