Reviewer’s report

Title: Histological determination of cariously altered collagen after dentin caries excavation with the polymer bur PolyBur P1 in comparison to a conventional bud bur

Version: 0 Date: 23 Jun 2019

Reviewer: Ruben Dominguez

Reviewer's report:

Dear Author, I have read and reviewed with great interest the paper entitled: Histological determination of cariously altered collagen after caries excavation with the polymer bur PolyBur P1 in comparison to a conventional bud bur.

The paper was very interesting and provides important information in this area that has been forgotten for some time. Despite its limitations and difficulties in histological methodology, I think that the method used to evaluate the performance of both burs is the most appropriate to date.

There are only some minimal grammatical and orthographic problems that should be reviewed; some of them are for example:

1. - The word "cariously" used numerously in the paper. I think that word does not exist, I could not find any reference to "cariously altered collagen" or cariously infected dentin" in the literature as such. I would suggest "carious altered collagen" or "... carious infected dentin" or "in caries".

2. - It would be good to be congruent with the term ex vivo and in vitro, since both terms are used throughout the document to describe the type of study.

3. - I think the unit of measurement they use in the article for the speed range in which the burs are used is wrong, they write: ... 800 min-1.I think that the correct is rpm (revolutions per minute)

4. - When they use the words: "PBS buffer" is redundant because the word "buffer" is already inside the word PBS, the correct should be "PBS solution"
**Level of interest**  
Please indicate how interesting you found the manuscript:  

An article of importance in its field  

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