Reviewers 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: 21 Jun 2019

Reviewer: Michelle Ommerborn

Reviewer's report:

Reviewer comments

Manuscript Number: HAFM-D-19-00051

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

This paper describes an in vitro-study which aimed to compare the polymer bur PolyBur P1 with tungsten carbide bud bur H1 SE in removing cariously altered collagen during dentin caries excavation. The study is well designed and the manuscript has been thoroughly written. The introduction section, the authors concisely derive the problem. Moreover, the applied methods and the obtained results are precisely presented. In the discussion section, the author's critically deal with their own findings in the context of the currently available literature. The topic is of much interest for the reader of Head and Face Medicine and it provides valuable perspectives, in particular, for the dental clinician.

There are only minor essential revisions that need to be addressed.

General comment

1) The use of established abbreviation makes sense. However, prior to its abbreviation, the respective term should be written out (for instance, please see page 4, row 27, KHN and page 4, row 32 Knoop Hardness).

2) The authors sometimes applied possessive pronouns (for instance, please see page 14, row 24). For example, authors wrote "To the best of our knowledge…", please revise "To the best of the authors knowledge …"

3) The manuscript needs some revisions with respect to the punctuation and (for instance, please see page 4, row 40; page 12, row 44; or page 14, row 1). spelling (for instance, page 7, row 32 and 60 center vs. centre).
Abstract

- - /-

Introduction

- Page 4, row 27: as mentioned in the general comments section, please write out Knoop Hardness instead of KHN.
- Page 4, row 48: Please, in the following passages now use the abbreviation, viz, KHN.
- Page 6, row 42: Please revise this sentence with respect to the use of possessive pronouns.

Methods

- The excavation has been performed by five trained dentists, which had to excavate additionally ten teeth with the PolyBur P1 bur. Did they receive a specific calibration training? Please, report a little more in detail.

Results

- - /-

Discussion

- Page 15, row 51: Please revise polymere bur.

References

- - /-

Tables

- - /-
Figures
- 

Level of interest
Please indicate how interesting you found the manuscript:

An article of importance in its field

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