Reviewer’s report

Title: The influence of two forms of chlorhexidine on the accuracy of contemporary electronic apex locators

Version: 1 Date: 05 Oct 2019

Reviewer: Vasudev Ballal

Reviewer's report:

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This manuscript constitutes an attempt to evaluate the influence of two forms of chlorhexidine on the accuracy of the contemporary electronic apex locators. The study was well performed and relevant to the journal. However, there is no novelty in this study. There are numerous similar in vitro studies performed. This study does not add on to any new information to the endodontic literature. Also, English needs to be improved significantly. Some of the specific queries have been addressed below.

Introduction:

- Page 4, line 10- what is the meaning of CHX could complete the NaOCl during endodontic treatment?

Methods:

- Mention the manufacturer's details of diamond flame and diamond round bur.

- A clinical study of the same nature would have been more relevant than an in vitro study (J Endod 2015;41:201-204).

- What is the rationale of using CHX solution or gel and testing its effect on working length determination using EALs? Working length is determined before cleaning and shaping of the root canal. CHX is used as a final rinse to disinfect the canal after shaping of the canal. Hence, there wont be any effect of CHX on the working length determination using EALs.

- Mention the full manufacturer's details of EALs used in this study.

- Which type of needle was used for the irrigation of the test agents?
- Mention the sample size in each group.

- How was irrigation solution placed inside the root canal without enlarging the canals?

- For how long the test agents were placed inside the root canal before determining the WL?

- Why root canals were not cleaned and enlarged?

- Mention the volume of irrigating solution and gel placed inside the root canal.

- In the same tooth all the three test agents were used? Or separate tooth was used for each test agent? Its not clear. Mention in detail.

- How was the normality of the data tested?

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No

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

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Please indicate the quality of language in the manuscript:

Not suitable for publication unless extensively edited
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