Author’s response to reviews

Title: Spectrophotometric Analysis Evaluating Apical Microleakage in Retrograde Filling using GIC, MTA and Biodentine: An in-vitro study

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Version: 2 Date: 21 Dec 2019

Author’s response to reviews:

Comment from Bakry Ahmed Samir, Ph.D (Reviewer 1):

The authors are advised to:

1- Provide Scanning electron microscope pictures for the interface between the tested materials and dentin walls to evaluate the quality of the interface. Please revise method in (J Conserv Dent. 2016 Mar-Apr; 19(2): 143-146.)

2- Provide scanning electron microscope pictures for the interface between the tested materials and filling material to evaluate the quality of the interface. Please revise method performed in (Microsc Res Tech. 2012 Jun;75(6):796-800)

Response from author:

Our study was conducted by ‘DYE EXTRACTION’ Method, which is promising and rapid methodology and can be performed by using SPECTROPHOTOMETER which was available in our institute. Scanning electron microscope images could not be availed as this was not our methodology and we don’t have access to it too.
Comment from Ahmad Al jaghsi, Dipl. M.Sc M.Sc (Reviewer 2): In the PDF file, there are three drafts for the same study!

I considered the first one as the revised final draft and reviewed it.

The number of variables and the reached conclusions are relatively big without power analyses justify this small sample size (only 10 in every subgroup).

References are needed in the following sentences;

1- page 4 line 53-56

2- page 5 line 31-36 for every type of dental material.

3- page 5 line 41-44 considering it gold standard and the ideal filling needs scientific evidence.

4- page 6 line 28-31

5- page 12 line 21

6- page 13 line 22-30 claiming that dye extraction is reliable need scientific evidence.

7- page 13 line 32 – 33

8- page 14 line 32-34

9- page 14 line 40 link the name of the studies with the references.

Page 5 line 15: considering apicoectomy as a conservative form of treatment is very controversial because it contains surgical intervention.

Page 9 line 38-50 there is no need to repeat the complete content of the table in the text.

Page 16 line 8-13 the sentence need rephrasing to be clearer and reflect the study results.

Response from author:

The final draft of the study was 3rd one but the main content of the article is same. I had only placed the tables and graphs below references in draft 3.

I have correlated Draft 1 and Draft 3 and made necessary corrections according to your advice:

I have added references in the following sentences;
1. Page 4 line 53-56 (Reference no. 6)

2. Page 5 line 31-36 (Reference no. 8)

3. Page 5 line 41-44 considering it gold standard and the ideal filling needs scientific evidence (As cited in Reference no. 9)

4. Page 6 line 28-31 (Reference no. 1)

5. Page 12 line 21 (Reference no. 14)

6. Page 13 line 22-30 claiming that dye extraction is reliable need scientific evidence. (As cited in Reference no. 12)

7. Page 13 line 32 – 33 (Reference no. 22)

8. Page 14 line 32-34 (Reference no. 5)

9. Page 14 line 40 I have linked the name of the studies with the references.

Page 5 line 15: considering apicoectomy as a conservative form of treatment is very controversial because it contains surgical intervention.

Response Comment: I agree considering apicoectomy as a conservative form of treatment is controversial but in my point of view, it can be considered conservative treatment as compared to extraction.

Page 9 line 38-50 there is no need to repeat the complete content of the table in the text.

Response Comment: I have removed the content.

Page 16 line 8-13 the sentence need rephrasing to be clearer and reflect the study results.

Response Comment: I have rephrased the sentence.

Response comment on Power of test: There were a number of group designated for each assay for eight (8) groups undergoing spectrophotometric assay. The total samples of (n=80) has been sub categorized into groups to test micro leakage in different materials. Hence, as the applicability for ANOVA analysis and can be tested for p-value in each groups to assess the power of test, this study rationalize the sample size that had been taken into consideration.
Regarding addition of the author: Dr. Vanita Gautam, Associate Professor, Department of Conservative Dentistry and Endodontics, Universal College of Medical Sciences, Bhairahawa, Nepal has been added on the revised manuscript as it has been inadvertently removed from the previous manuscript. She has been mentor of this study.

Mr. Narayan Gautam, Associate Professor, Department of Biochemistry, Universal College of Medical Sciences, Bhairahawa, Nepal has been added on the revised manuscript as it has been inadvertently removed from the previous manuscript. He has been involved in spectrophotometric analysis and use of dye extraction using microcentrifuge.

I request you for the addition of the authors provided which is genuine authorship in this study which will be entrusted upon me.