

## Peer Review File

Article information: <https://dx.doi.org/10.21037/joma-21-9>

### **Reviewer A**

Reply A:

Thank you kindly for your review, feedback, and recommendations.

Comment 1: There seems to be no link between the two parts. There is no discussion section in the body of the manuscript, only two sentences in the abstract section.

Reply 1: We've added transition sentences addressing how change in preclinical teaching and clinical care is a constant. We also added a discussion section in manuscript.

Changes 1: See abstract [pg 3, line 52-4] and manuscript [pg 5, line 98], [pg 17, lines 301-318]

Comment 2: Are there any dental schools using these innovative devices or methods for preclinical teaching? How does the evolution of dental anesthesia change the preclinical teaching landscape?

Reply 2: Yes, we made statement about some institutions in US are using the different devices and further explained the reasoning.

Changes 2: see pages [6, line 126],[8, line 165-6] [11, line 216-17] [15, line 284 - 289] [17, lines 279-296]

Comment 3: The focus seems to shift from teaching to giving accurate and effective local anesthetics to considering comfort and painless injections for patient care. Any comments?

Reply 3: This is addressed Reply 1 and reply 2.

Changes 3 See pages 6, line 126], [11, line 216-17] [15, line 284 - 289] [16, lines 277-296]

Comment 4: It would good to see if adding on a discussion section to discuss the trends of preclinical teaching methods would make the review more valuable.

Reply 4:

Example addressed in reply 2.

Changes 4: : See page [16, lines 277-296]

### **Reviewer B**

Reply B:

Thank you for your review, feedback, and recommendations.

Comment 1: For example, local anesthesia is traditionally taught manually where the students practice on each other. This method is not mentioned and perhaps should be addressed in the introduction.

Reply 1:

We had added sentences in the introduction to mention how anesthesia is traditionally taught.

Change 1:

See page [5, line 98-102]

Comment 2: How has the selection of included articles been made? Inclusion and exclusion criteria should be clear. How did the search for literature take place? Which databases have been used in the search?

Reply 2: We have added a materials and methods section and table 1 referencing citation 12.

Change 2: See pages [4-5, lines 89-95]

Comment 3: there are a large number of different platforms/ digital aids on the market and it should be clarified how the methods/programs presented in your report has been chosen to report. Zoom is a platform that can be used for digital teaching, but there are many other platforms that work in a similar way.

Reply 3: We have added more data

Changes 3: See pages [6, line 126-133] [8, line 165-6]

Comment 4: Could the new innovative methods be applied in teaching and thus improve learning for the student?

Reply 4: We added statements to address comment within manuscript

Changes 4: See pages [6, lines 128-133] [7, line 152-5] [10, line 202-206] [14, line 262-267] [16, lines 277-296]

**Reviewer C**

Reply to reviewer C:

Thank you for your review, feedback, and recommendations.

Comment 1: Of great interest to me as a dental anesthesiologist is the recent research and techniques regarding intravenous sedation used during dental procedures for patients with dental phobias and disorders.

In recent years, there have been a scattering of papers on modifications to the drugs used, monitoring, and other techniques to ensure this safety.

Reply 1: Because we are focusing on dental local anesthesia we have not included a section on intravenous sedation. We have taken your feedback and reference added a sentence to acknowledge the benefit of intravenous sedation.

Change 1: See page [17, line 303-18]