

REVIEWER'S REPORT

Manuscript No.: IJAR-50524

Date: 06-03-2025

Title: DentalVibe Injection System:A Paradigm Shift in Local Anesthesia Techniques

Recommendation:

Accept as it is.....**YES**.....
 Accept after minor revision.....
 Accept after major revision
 Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality	√			
Techn. Quality		√		
Clarity		√		
Significance			√	

Reviewer's Name: Dr Aamina

Reviewer's Decision about Paper: **Recommended for Publication.**

Comments (*Use additional pages, if required*)

Reviewer's Comment / Report

Introduction:

The introduction effectively establishes the significance of pediatric dentistry and the challenges associated with administering local anesthesia to young patients. The discussion on children's fear of needles and syringes provides a strong foundation for highlighting the need for alternative pain-reducing techniques. The mention of various methods to minimize discomfort, such as anesthetic gels, distraction techniques, and buffering agents, contextualizes the necessity for innovations like the DentalVibe injection system. The stated goal of providing reliable information on the system's efficacy aligns well with the study's focus.

History:

The historical timeline of the DentalVibe Injection System is presented in a structured and chronological manner, allowing for a clear understanding of the development and advancements of the device. The reference to the Gate Control Theory of Pain as the foundation for the DentalVibe system establishes a strong theoretical basis. The inclusion of Dr. Steven Goldberg's contributions, the role of various engineering firms, and key milestones in the device's manufacturing and technological enhancements add depth to the historical progression.

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The evolution from the first concept in 2009 to the latest technological improvements in 2021 is well-documented. Notable advancements, such as the introduction of Smart Tip technology and the customization of flexi tips, highlight the continuous refinement of the product. Additionally, the launch of the DentalVibe Dentists directory reflects the brand's efforts to expand its professional network and promote anxiety-free dentistry.

Overall, the article presents a well-organized and informative discussion on the DentalVibe Injection System, effectively conveying its significance in reducing pain and anxiety associated with local anesthesia in pediatric patients. The historical development provides valuable insights into the evolution of the device and its impact on dental procedures.