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REVIEWER'S REPORT

Manuscript No.: IJAR-56298

Title: Treatment of a Mandibular Premolar with Uncommon Mesial and Distal Canal Configuration with Triple Antibiotic Paste

Recommendation:

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

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

Reviewer Name: Dr. Sumathi

Detailed Reviewer's Report

- 1. Anatomical variation refers to naturally occurring, non-pathological differences in the structure of the human body that deviate from the "standard" or typical, textbook description. These structural variations—involving organs, muscles, nerves, or blood vessels—are common, usually asymptomatic, and arise from genetic diversity.**
- 2. A missed canal is a root canal within a tooth that was not located, cleaned, or filled during root canal therapy (endodontic treatment). It acts as a reservoir for bacteria, leading to persistent infection, pain, and eventual failure of the treatment.**
- 3. A periapical lesion is an area of infection or inflammation located at the root tip (apex) of a tooth, typically appearing as a dark shadow on dental X-rays due to bone resorption. It is a defense response to bacteria from a dead or dying tooth nerve, commonly resulting in cysts, granulomas, or abscesses.**
- 4. Triple antibiotic paste (TAP) is a mixture of metronidazole, ciprofloxacin, and minocycline used in dentistry, specifically for disinfecting root canals during regenerative procedures and treating**

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- primary teeth infections. It effectively eliminates bacteria, including *enterococcus faecalis*, to promote tissue repair and healing.
5. Mandibular premolars are the four permanent teeth located in the lower jaw, positioned between the canine and the first molar (two on each side). They function to tear and crush food during mastication. The first mandibular premolar is small with a prominent, non-functional lingual cusp, while the second is larger, typically with three cusps, and more closely resembles a molar.
 6. Endodontic failure occurs when a tooth treated with a root canal does not heal properly, remains symptomatic, or becomes reinfected. It is defined by the persistence or development of infections/pain, often visible on X-rays as a new or persistent dark spot (bone infection) at the root tip, generally caused by bacteria remaining in missed canals or improper sealing.
 7. Predictable healing refers to the use of data-driven, systematic approaches—often involving AI and EHR data—to accurately calculate the probability, timeline, and outcome of a wound healing, typically within 4–16 weeks. It involves identifying key variables like wound size, location, and patient health to adjust treatment plans and prevent non-healing chronic wounds.
 8. Persistent periapical infections (or chronic apical periodontitis) are long-standing, often asymptomatic, infections at the tip of a tooth root, resulting from necrosis of the dental pulp. These infections develop when bacteria, often missed during initial root canal therapy, persist inside the tooth or in surrounding tissue, causing bone damage.
 9. Key words and key message are excellent.
 10. There is no values with tables and graphs. It should be given without fail.
 11. Discussion points are given very less and literature points also be added more.
 12. Summary points should be given .
 13. References should be in alphabetical order.
 14. Allignment must be needed.
 15. After those changes good to publish in your journal.