

REVIEWER'S REPORT

Manuscript No.: **IJAR-53281**

Date: 14-08-2025

Title: Sealing the Future: Apexification with Biodentine – A Case Report

Recommendation:

Accept as it isYES.....

Accept after minor revision.....

Accept after major revision

Do not accept (*Reasons below*)

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

Reviewer Name: Dr Aamina

Reviewer's Comment for Publication.

General Overview

The manuscript presents a well-documented clinical case report describing the successful use of Biodentine for apexification in two maxillary incisors with open apices and periapical lesions. It effectively combines background information, material properties, and clinical relevance, culminating in a detailed case description. The topic addresses a significant challenge in endodontics—management of immature permanent teeth with open apices—and provides practical insights into the use of a modern material in clinical settings.

Introduction Evaluation

The introduction offers a clear and logical progression from the biological basis of root development to the clinical challenges posed by immature teeth with open apices. It contextualizes the historical use of calcium hydroxide and Mineral Trioxide Aggregate (MTA) in apexification, highlighting their limitations. The discussion then transitions to Biodentine, detailing its composition, handling characteristics, setting time, and biological interactions, with appropriate references to its superior properties. The inclusion of biocompatibility aspects and mechanical properties reinforces its clinical applicability and relevance for single-visit apexification procedures.

Case Report Presentation

The first case is described with clinical precision. The patient profile, presenting complaint, clinical findings, and diagnostic steps are systematically detailed. The use of both clinical and radiographic examination findings—supported by sinus tracing with gutta percha—demonstrates a methodical diagnostic approach. The narrative includes references to associated figures (A–D), which add clarity and visual corroboration to the text. The diagnosis of symptomatic periapical abscess with sinus opening is consistent with the presented clinical and radiographic data.

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

Scientific and Clinical Relevance

The report underscores the clinical utility of Biodentine as a modern alternative for apexification, emphasizing both procedural efficiency and biological compatibility. The case selection and documentation provide a real-world example of translating theoretical advantages into clinical outcomes. The description of the patient's presentation, diagnostic process, and planned management lays the groundwork for understanding the treatment rationale.

Overall Assessment

The work integrates a thorough literature background with a well-structured clinical case presentation. It maintains clinical and scientific accuracy while highlighting Biodentine's relevance in contemporary endodontic practice. The documentation style and systematic case description enhance its value for practitioners and researchers in the field.