

Rehabilitation Of Deep Mesio- Occluso- Distal Cavities In Mandibular First Molar Using Horizontal Glass Fibre Posts

- "A 45-year-old female patient reported to the Department of Conservative Dentistry and Endodontics with the chief complaint of pain while chewing and food lodgement in the lower left back tooth region for the past 2 months."
- Clinical examination revealed a grossly carious mandibular first molar with a extensive mesio-occluso-distal (MOD) cavity and loss of both marginal ridges, resulting in significant weakening of the remaining tooth structure.
- Based on the clinical and radiographic findings, a diagnosis of **Chronic symptomatic irreversible pulpitis with apical periodontitis** was made



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- Endodontic access cavity preparation was performed followed by canal orifice location, Biomechanical preparation & 3 dimensional-obturation.



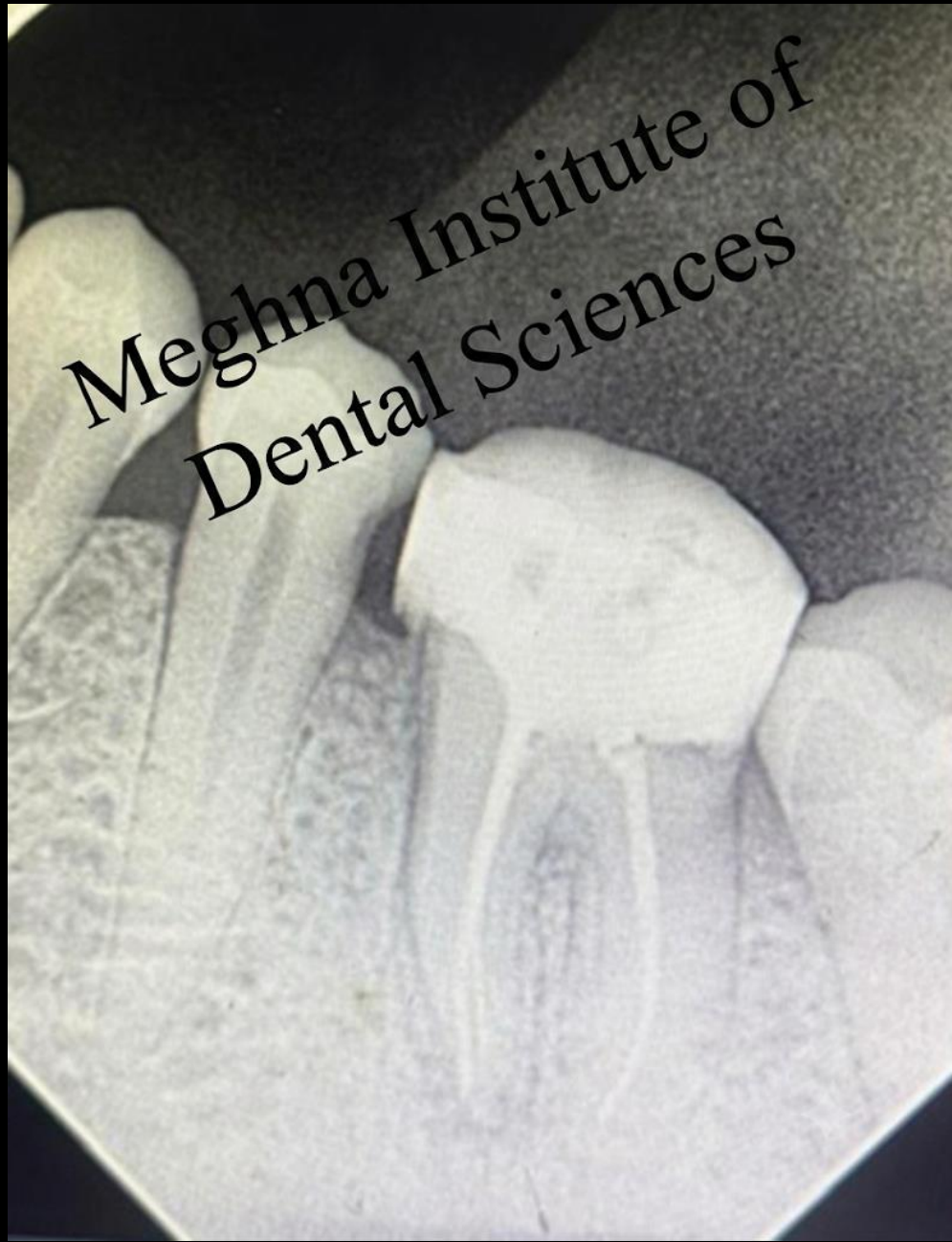
CLINICAL PICTURE AFTER OBTURATION

- Two horizontal channels were prepared in the coronal dentin using a long shank round bur, extending from the buccal to the lingual wall while preserving adequate dentin thickness.
- Trial placement of prefabricated glass fiber posts was performed to verify passive fit





- Excess horizontal glass fibre post was removed from both buccal and lingual aspects.
- A **saddle matrix band** was adapted to mimic the anatomical contour of the tooth.
- Incremental placement of composite resin was carried out, with each increment being adequately light cured according to manufacture's instructions.
- Thus, tooth was restored with Horizontal glass fibre post reinforcement which preserves tooth structure providing enhanced retention and functional stability.





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