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Management of Repeated Midline Fracture of Maxillary Denture Base by Metal Denture Base with Porcelain Fused to Metal (PFM) Crowns: A Case Report

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Abstract:

This case report addresses the oral rehabilitation of completely edentulous maxillary arch by incorporating a metal denture base with Porcelain-Fused-to-Metal (PFM) crowns in place of the conventional Poly Methyl Methacrylate (PMMA) material. The primary objective was to enhance the longevity of the prosthetic replacement and prevent the resorption of the underlying residual maxillary ridge. Complete dentures used by patients should be adequate in retention, stability, and support. Among these, stability is generally regarded as the most critical factor. Metal bases were utilized to enhance these physical properties of complete dentures.

This case report aims to develop fracture resistant maxillary metal denture base with Porcelain-Fused-to-Metal (PFM) crowns in a patient with existing PFM crowns in the lower arch. The clinical and laboratory procedures, materials used, and outcomes of the treatment are detailed. The patient expressed high satisfaction with the aesthetics and functionality of the prosthesis, demonstrating the viability of using

PFM crowns on a metal denture base for comprehensive dental rehabilitation. This case report describes benefits of metal denture bases in enhancing denture stability, support and resistance to repeated midline fracture opposing natural rehabilitated dentition.

Keywords: Metal denture base, Porcelain fused to metal, Midline fracture

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