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Interdisciplinary Management of Hypoplastic Amelogenesis Imperfecta with Full-Mouth Rehabilitation: A Case Report

Mundoor Manjunath Dayakar, Prakash Pai Gurple, Naveen Edavan Puliya Cheriya,
Swasthik Kalluraya B, Sanjana V

¹Head of the Department, ²Professor, ³Reader, ⁴Senior Lecturer, ⁴Post Graduate student

Corresponding author: Naveen Edavan Puliya Cheriya

Email Id: serviceheb@gmail.com

Abstract

Amelogenesis imperfecta (AI) is a hereditary enamel defect that often results in compromised esthetics, tooth sensitivity, generalized tooth wear, and functional impairment, requiring comprehensive rehabilitation. This case report describes the interdisciplinary management of a 26-year-old male with hypoplastic AI presenting with generalized enamel hypoplasia, severe tooth wear, reduced clinical crown height, decreased occlusal vertical dimension, and compromised oral function. Treatment was performed in multiple stages, including occlusal splint therapy to restore a functional vertical dimension, intentional endodontic treatment, restorative crown lengthening, diagnostic wax-up, provisionalization, and definitive rehabilitation with porcelain-fused-to-metal restorations. The patient responded well to the increased occlusal vertical dimension, with restoration of masticatory function, phonetics, occlusal stability, and smile esthetics. This report highlights the importance of sequential treatment planning, interdisciplinary collaboration, and full mouth rehabilitation in achieving optimal functional and esthetic outcomes in patients with amelogenesis imperfecta.

Keywords - Amelogenesis imperfect; Full-mouth rehabilitation; Occlusal vertical dimension ; Porcelain-fused-to-metal restorations; Interdisciplinary management.

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