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Amelogenesis Imperfecta Early Treatment With Progressive Conservative Adhesive Concept

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ABSTRACT

Amelogenesis imperfecta (AI) is herited disorders primarily affecting dental enamel. There are three types of AI: hypercalsification, hypoplasia, and hypomaturatation. Teeth with AI have abnormal color between white opaque, yellow, brown to grey. AI causing tooth sensitivity and aesthetics problem. AI is not about only primary teeth but also in the permanent dentition. This paper is about AI management with adhesive conservative treatment. At the beginning of the treatment, patient is given onlay restorations of composite resin bonded with adhesive resin cement material. Composite resin materials for onlay, widely used due to mechanical properties and good aesthetics, and the costs are relatively low, especially when compared to full ceramic or ceramic metal crown. The purpose of this treatment approach is illustrating the concept of rehabilitation based on progressive conservative care and followed by full crown restoration, first phase of the AI treatment cases from early age to adult patient. The conclusion is AI treatment can be done with adhesive restorations and there are two phases of interventions first with composite onlay and followed by full crown in adulthood.

Keywords: amelogenesis imperfect treatment, adhesive restoration, dental aesthetics

INTRODUCTION

Amelogenesis imperfecta (AI) is a disorder group of hereditary development that affects the dental enamel structure which is marked by clinical alterations without association with systemic abnormalities and diseases.\(^1,2\) AI is a term for a clinically and genetically heterogeneous group of conditions that affect the dental enamel, occasionally in conjunction with other dental, oral and extraoral tissues.\(^3\) AI is also known by varied names such as hereditary enamel dysplasia, hereditary brown enamel, and hereditary brown opalescent teeth.\(^1\)