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PRELIMINARY SYNTHESIS OF CALCIUM CARBONATE USING CO2 BUBBLING METHOD FOR BIOMEDICAL APPLICATION
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Crown Restoration Is An Appropriate Choice For Treatment Amelogenesis Imperfecta Cases

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ABSTRACT

The existence of interference in the formation of enamel, which one can cause amelogenesis imperfecta (AI) that consisting of hypoplastic, hipokalsified or both of that. The prevalence of AI is between 1 : 700 to 1 : 14,000. AI is a genetic disorder that affects the structure of enamel. In AI occurs on the tooth brittleness causing the teeth become sensitive, disorders of mastication and esthetic problem. Several choices of care and treatment given depends on the type of AI. Crown restoration is one treatment that can be given in this case. The aim of this literature to determine the effectiveness and longevity of the crown restoration treatment in children with AI. AI is a hereditary condition that affects the formation of enamel matrix and the mineralization process enamel of primary and permanent teeth. AI is a group of clinically and genetically heterogeneous conditions that affect the quantity and quality of the enamel, which can affect the overall appearance of some or all of the teeth. AI consists of 4 types: type I / hypoplastic, type II / hipomaturasi, type III / hipokalsifikasi and type IV / hipomaturasi-hypoplastic with taurodontism. The characteristics of AI as lack enamel / no enamel, pulp calcifications, malformations roots, unerupted teeth, permanent teeth impaction, progressive root resorption and crowns, and tooth sensitivity. These factors led to disruption of aesthetics and masticatory function. Some recommendations suggest treatment using a crown restoration. The crown restoration is one treatment that can be done in order to restore the esthetic and masticatory functions. This treatment can last longer compared to other conservative treatments.

Keywords: amelogenesis imperfecta, crown restoration