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PRELIMINARY SYNTHESIS OF CALCIUM CARBONATE USING CO2 BUBBLING METHOD FOR BIOMEDICAL APPLICATION
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The Use Of Polyethylene Fiber In Anterior Primary Teeth Restoration With Extensive Decay

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ABSTRACT

Caries in primary anterior teeth with extensive crown decay has high incidence in early childhood caries (ECC), it cause loss of part or all structure of the tooth crown. If not treated, it can lead some problems such reduced vertical dimension, insufficiency of mastication, esthetic problem, development of parafunctional habits like tongue thrusting, and psychological problems. The final restoration of anterior teeth after endodontic treatment should include esthetic and mechanical resistance to fracture or loss of the restoration, so it takes a retainer intracanal that may increase the retention of restoration in rebuilding the structure of the crown. The aim of this paper is to describe polyethylene fiber as a retainer intracanal (short post technique) in anterior primary teeth using composite resin restorations. Polyethylene fibers can improve the impact strength, modulus of elasticity and flexural strength of the composite resin and provide good esthetic results. The use of polyethylene fiber as intracanal retainer in composite resin restoration of anterior primary teeth showed excellent clinical performance after 30 months. Conclusion; The use of polyethylene fiber as a retainer intracanal in composite resin restorations of anterior primary teeth may provide promising results.

Keywords: Polyethylene fiber, composite resin restoration, anterior primary teeth

INTRODUCTION

Early childhood caries (ECC) has been defined as 'the presence of one or more decayed, missing due to caries, or filled tooth surfaces in any primary teeth in children under 6 years of age. Clinical examination of this condition discloses a distinctive pattern. The teeth most often involved are the maxillary central incisors, lateral incisors and the