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Fiber-Braid Reinforced Composite Loop Space Maintainer: An Alternative Design And Material Of Space Maintainer

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ABSTRACT

Early loss primary tooth, called premature loss of primary tooth was common situations that occur in the children. This condition presents a potential problem because drift of permanent or other primary teeth and malocclusion are common unless it can be prevented. The safest way to prevent the problem is to place a space maintainer that is effective, durable and economic. An appropriate use of space maintainer is to hold the space until the eruption of permanent teeth. The stainless steel band and loop appliance is the most commonly used fixed space maintainer in pediatric dentistry. But this appliance has several disadvantages. The purpose of this case report is to present a simple design of a "Fiber-Braid Reinforced Composite" (FBRC) loop space maintainer as an alternative design and material of space maintainer and discuss the advantages of this appliance. A girl 7 years old came to department of pediatric dentistry clinic RSGM UNPAD for dental check-up. A right lower back tooth was missed. The patient is advised to make a space maintainer to prevent the closure of the space by the teeth adjacent to it. Premature loss of this patient was treated by constructed loop space maintainer using a commercially available polyethylene fibres system (Fibre-Braid, Biodental Technologies, Macksville, northern NSW). Fiber-braid reinforced composite loop space maintainer can be used as an alternative design and material of space maintainer.

Keywords: Premature loss, fiber-braid reinforced composite, space maintainer

INTRODUCTION

Deciduous teeth have an important role for children so that its presence must be maintained in a healthy condition. If the deciduous teeth are difficult to maintain, for example, there is a severe dental disease, then in some cases, deciduous teeth can be loose prematurely and cause a bad effect on the occlusal development. It is therefore considered to maintain space for the permanent tooth replacement with the placement of space maintainer.