

FIBER-REINFORCED COMPOSITE AS FIXED SPACE MAINTAINER IN
PREMATURE LOSS OF MAXILLARY FIRST PRIMARY MOLAR
(CASE REPORT)

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ABSTRACT

The effect of premature loss of primary tooth is space loss, resulting in malocclusion. To prevent malocclusion as a result of premature loss of primary teeth, various types of space maintainer can be used. Fiber-reinforced composites resins (FRCs) are new material in dentistry and can be used as an alternative to conventional space maintainer. This paper reported the treatment of patient with premature loss of maxillary first primary molar with FRCs unilateral space maintainer (Ribbond). Ribbond is a woven FRCs with polyethylene fiber. The advantages of this new method was good esthetic, can be used immediately, no need laboratory procedures, reduced tooth preparation and can be done in one visit. The technique was bonded and covered the FRC with flowable resin composite. The problem that found was the difficulty in cleaning the diastema area which trigger slight gingival hyperplasia. The result of 24 months follow up showed that FRC function well as unilateral fixed space maintainer.

Key words: Premature loss of primary molar, Fiber-reinforced composites resins, Unilateral fixed space maintainer

Pendahuluan

Kehilangan dini gigi sulung dapat menyebabkan terjadinya penyempitan lengkung rahang, pergerakan gigi molar permanen ke mesial, ekstruksi gigi antagonis serta gigi permanen impaksi atau berdesakan.^{1,2,3} Oleh karena itu dibutuhkan alat untuk mempertahankan ruangan sampai gigi permanen pengganti erupsi sehingga diperoleh oklusi normal pada gigi permanennya.² Alat yang digunakan untuk mempertahankan ruangan akibat kehilangan dini gigi sulung adalah *Space Maintainer* (SM). Waktu yang tepat untuk penggunaan space maintainer adalah segera setelah kehilangan gigi sulung. Kebanyakan kasus terjadi penutupan ruang setelah 6 bulan kehilangan gigi.⁴

Klasifikasi SM berdasarkan cara pemasangannya yaitu SM lepasan, SM semi-cekat dan SM cekat.^{4,5} Keuntungan menggunakan SM cekat adalah perawatannya lebih