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Comprehensive Treatment Of Injured Immature Permanent Anterior Teeth: A Case Report

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ABSTRACT

Dental trauma is a significant problem in children. The main etiology is falling, fights, accidents, and sports. Maxillary anterior teeth are damaged or lost due to trauma and can cause great psychological impact for children, because it deals with issues of aesthetics. The purpose of this study is to provide information about comprehensive treatment of injured immature permanent anterior teeth. A 12 years old boy came to Pediatric Dentistry Department of Padjadjaran University Oral and Maxillofacial Hospital complained about fracture and loss of upper front teeth because of an accident that happened 2 weeks ago. Intra oral examination showed Ellis's class II fracture on 13 and 11, non-vital, swelling and redness on gingival margin. Furthermore, there's grade 1 mobility on 11 and missing of 12. Radiologic examination showed opened apex of 13, widening of periodontal membrane on 11 and 13, and diffuse radiolucency of apex on 11. Physical and extra oral examination showed no significant abnormalities. Patient's diagnoses are pulp necrosis on 13 with immature apex and pulp necrosis on 11 with periapical abscess. Treatment consisted of oral hygiene instruction, scaling and prophylaxis, apexification on 13 along with class IV composite restoration and non-vital pulpectomy on 11 with fiber post, core built up along with class IV composite restoration, orthodontic appliance to regain space of 12 and denture construction. Patient responded well to ongoing treatment. Successful treatment of injured immature permanent anterior teeth trauma case is influenced by growth and development aspect and requires comprehensive treatment.

Key words: Apexification, Dental trauma, Immature permanent anterior teeth

INTRODUCTION

Traumatic dental injuries (TDIs) occur with great frequency in preschool, school-age children, and young adults comprising, 5% of all injuries for which people seek treatment. A 12-year review of the literature reports that 25% of all school children experience dental