IMPACTED RIGHT UPPER CENTRAL INCISOR AND TRANSPOSITION OF TWO OTHER ANTERIOR TEETH ON THE SAME SIDE (A Case Report)

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ABSTRACT

A young boy presented with an uncommon finding of impaction of upper right central incisor and transposition of canine and lateral incisor on the same side. Esthetic management of his cosmetic problem which included fixed appliance therapy followed by light cure restorations is discussed.

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KEY WORDS : Impaction; Transposition.

Introduction

Impaction is defined as any tooth which fails to move into position and function within a reasonable period of time. Impaction of tooth normally involves upper or lower third molars, incidence varying from 18-22%. In order of occurrence, impaction involves upper third molar, lower third molar

and canine teeth [1]. Impaction of central incisor is rare [2]. Transposition is to occupy the site of another tooth. Various general and local causes may lead to impaction which included genetics, disease, food habits, trauma and so on [3].

CASE REPORT

A young boy aged 15 years reported to Military Dental

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Fig. 1 : Occlusal radiograph showing '12' in transposition.

Fig. 3 : Post-operative occlusal view six weeks after surgery.

Fig. 2 : Intra-oral periapical view showing '12' in transposition

Centre Jabalpur in July 92 with the following complaints
 (a) Failure of eruption of one upper tooth.
 (b) Spacing in the upper front teeth.
 (c) Occasional pain in upper front tooth and gum.

All his permanent teeth except upper, lower third molars and right upper central incisor were erupted. However transposition of teeth on right side was detected

as right upper lateral incisor and canine had exchanged their places. Though canine was not erupted upto the incisal level.

Detailed history did not reveal any incidence of trauma or any other abnormality. Oral hygiene was found to be good. No caries were detected. Upper and lower zelgan impressions were made and study models prepared. Intra oral periapical and occlusal radiographs revealed presence of impacted right upper central incisor with a short root (Fig 1 and 2).

Surgical exposure of tooth and guiding it incisally by orthodontic forces was ruled out [4]. Patient was prepared for surgical extraction of this tooth under L.A. and tooth was removed on 09 September 92. Case reported uneventful recovery. Same radiographs were repeated after six weeks of removal of tooth and depicted normal healing (Fig 3 and 4). Then patient was treated by upper and lower fixed appliances with the objective of guiding canine to the incisal level and reduction of spacing in the anterior segment. Canine was reshaped to simulate central incisor and first premolar into canine with the help of light cure material. (Fig 5 and 6).

Discussion

This patient presented impaction of right upper central incisor and transposition of right upper lateral incisor with the canine tooth on the same side. Impaction of central incisor is an uncommon occurrence which became further interesting with the finding of transposition of two other anterior teeth on

Fig. 4 : Post-operative intra-oral periapical view (six weeks).

Fig. 5 : Pre-treatment photographs

the same side. As the boy was growing, he was

Fig. 6 : Post-treatment photographs

very much concerned about the spacing in his front teeth and also about the position of right canine which was much below the incisal level.

Elimination of spacing in this case could have been possible by a prosthetic restoration like bridge. But here canine was guided to attain its normal incisal level by orthodontic forces and then cosmetic correction was carried out with a very simple procedure of light cure restorations.

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