

IMPACTED AND INVERTED MAXILLARY CENTRAL INCISOR - A CASE REPORT

¹ AJIT D
² Vamsi Pavani
³ Kishore Raju

¹ Sr. Lecturer, Dept. of Oral Medicine and Radiology
² Assoc.Prof. Dept. of Oral Medicine and Radiology
³ Sr. Lecturer, Dept. of Oral Medicine and Radiology

^{1,2,3} Sree Sai Dental College, Srikakulam, AP, India.

ABSTRACT

An unusual case of impacted and inverted maxillary central incisor is reported in a 12 year old girl. The inverted maxillary central incisor was not associated with any other anomaly which is rare.

KEY WORDS: Impacted and inverted maxillary central incisor

INTRODUCTION

Impaction of maxillary central incisor is not a frequent case in dental practice, but is of utmost importance because of these teeth importance to facial esthetics⁵. The eruption of tooth as such describes the changes in position from the earliest time of development through successive stages to emergence into the oral cavity. The position of the tooth sometimes may be altered even before it erupts into the oral cavity and it sometimes may remain unerupted.¹

Case report:

A 12 year old girl reported with a missing upper front teeth, she gives a history of trauma at the age of five, after which there was evulsion of the right maxillary central incisor. On clinical examination there is missing upper right central incisor with normal gingival. On radiographic examination there is an impacted maxillary right central incisor which is in inverted position with dilacerated roots.



Fig1 - Shows missing Maxillary central incisor



Fig2- Shows missing Maxillary central incisor



Fig3- IOPAR shows impacted and inverted Maxillary central incisor

Discussion:

Impacted teeth are individual teeth which are unerupted usually because of a lack of eruptive force. Etiology of a horizontal or inverted maxillary central incisor has been reported as a result of

trauma to the developing tooth germ. There are several other contributing factors that may impede tooth eruption, these may be mesiodens or multiple supernumerary tooth, odontogenic tumors such as odontomes, cysts of which dentigerous is the most common. Other factors such as trauma which may alter the eruptive path or formation of scar tissue, premature loss of primary incisors, abnormal root angulation or dilacerations². A developing maxillary central incisor in a horizontal or inverted position could lead to dilacerated roots while root growth is still progressing in cranial direction.³

Any tooth may be impacted, but maxillary and mandibular 3 molars and maxillary cuspids are the most frequently impacted followed by premolars . Thus impacted maxillary central incisor which is inverted is extremely rare. Although if it is impacted it is usually associated with dentigerous cyst or an odontome , so this is an unusual case wherein an maxillary central incisor is impacted , inverted and it is not associated with any other anomaly.

Vinscent. G Kokich and David Mathew classified impacted maxillary central incisor as simple and complex.

Simple ;where tip of the impacted too is near the adjacent cemento enamel junction.

Complex; Where the impacted tooth is positioned high in the vestibule.⁴

CONCLUSION:

Thus impacted maxillary central incisor which is inverted is extremely rare. Although if it is impacted

it is usually associated with dentigerous cyst or an odontome, so this is an unusual case wherein an maxillary central incisor is impacted, inverted and it is not associated with any other anomaly.

References:

1. Sashikiran D et.al; *Inverted Central Incisor-A case report.* J Indian Soc Pedo Prev Dent ,June2004 ,vol 22(2),45-48.
2. Santosh kumar et.al; *Orthodontic and Surgical treatment of Impacted Maxillary Central Incisors Allied with Supernumerary Tooth.* The Orthodontic Cyber Journal, Jan, 2010.
3. *Impacted Teeth; Orthodontic and surgical consideration by Vinscent.G,Kokich and David P Mathews.*
4. Kazuto Kuroe et.al; *Surgical repositioning of a developing maxillary permanent central incisor in a horizontal position.* European Journal of orthodontics,2006,vol28(3),206-209.
5. Crawford L.B; *Impacted maxillary central incisor in a mixed dentition treatment.* Am J Orthod Dentofacial Orthop;july1997,Vol112(1),1-7.

Corresponding Author

Dr. D. AJIT

Senior lecturer

Dept of Oral Medicine and Radiology

Sree Sai Dental College, Srikakulam

AP, India

+91-9908737764