



TREATMENT OF IMPACTED DILACERATED MAXILLARY CENTRAL INCISOR : A CLINICAL CASE REPORT



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Introduction

The impacted maxilla central incisor is an important esthetic and functional concern for the patient (Deshpande 2012). Dilaceration is characterized by an angulation in the crown and root of the tooth and it is one of causes of permanent central incisor eruption failure (Celli D, et.al. 2015)

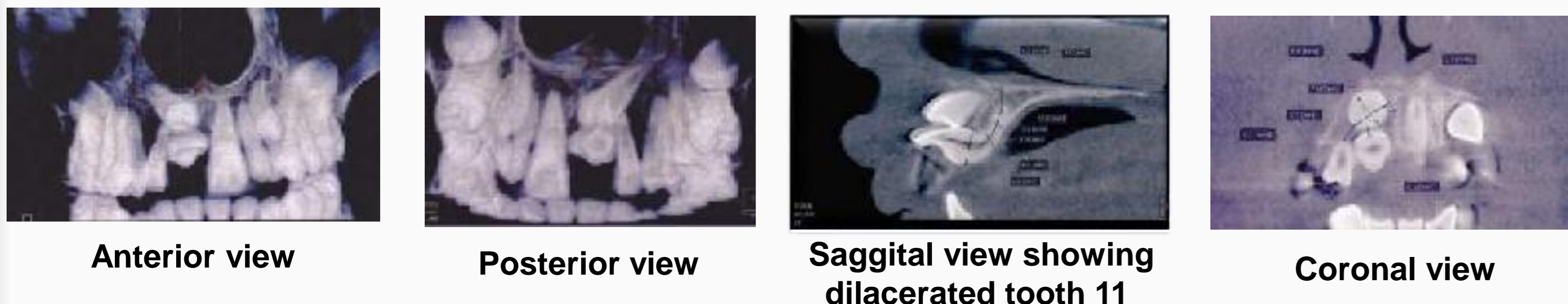
Case Report

14 years of age, female referred to orthodontic department with chief of complaint unconfident with unrepresented front tooth and crowding. Extra Oral examination showed leptoprosop, convex profile, facial symmetry. Medical history is noncontributory and no temporomandibular joint symptoms.

Diagnosis:

Malocclusion Class II with increase overjet (5mm) and overbite (4.5mm), crowding, dilacerated and impacted 11, impacted teeth 13,23, high attach maxilla frenum, diastema, lower median line shifted and peg shaped upper lateral incisor.

CT DENTA SCAN



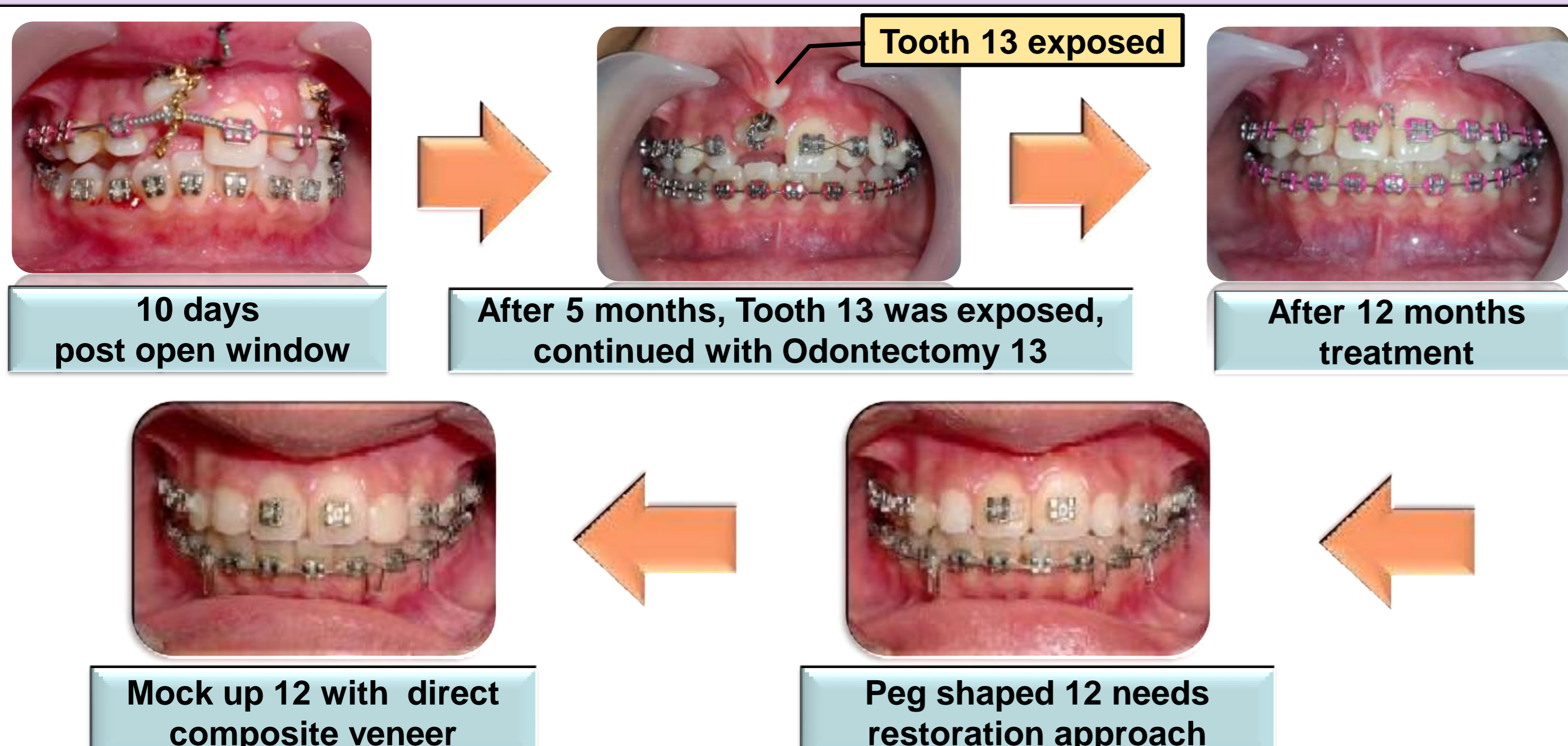
Aim of Treatment

Present the correction of horizontally impacted and dilacerated central right incisor through orthodontically and surgically approach.

Treatment Procedures

1. Fixed appliance with Standard edgewise technique
2. Levelling alignment.
3. Space opening with an open coil spring between 12-21.
4. Open window surgery for 11 and 23.
5. Ekstraktion 24.
6. Attachment of gold chain on 11 and 23.
7. After 5 months treatment, 13 exposed.
8. Odontectomy 13 and Frenectomy maxilla labial frenum.
9. Mock up 12 and 22 with direct composite veneer .

Treatment Progress



Treatment Result



- Central right incisor successfully positioned into proper alignment.
- The root was slight palpable labially underneath the alveolar mucouse.

RADIOGRAPHIC FINDINGS

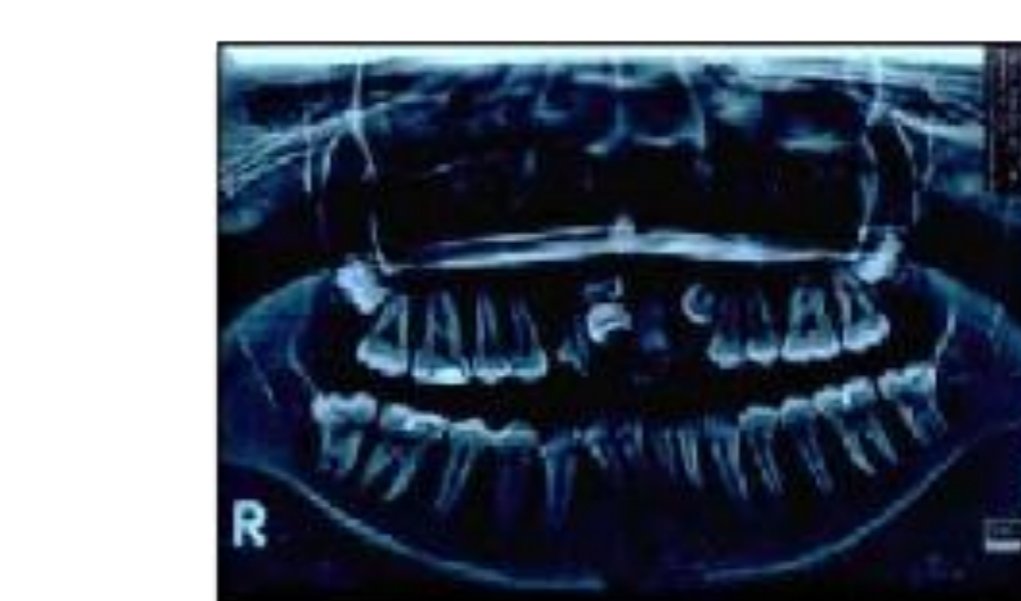
	BEFORE	AFTER
<SNA °	83	82
<SNB °	77	77
<ANB °	6	5
I-NA mm	3,5	3
<I-NA °	22	15
I-NB mm	6mm	7mm
<I-NB °	27	36
<Pg-NB mm	2mm	2mm
<I-I °	120	120
<OkI-SN °	17	28
<GoGn-SN °	41	40



Before



After



Panoramic before treatment disclosing the impacted 13,11,23



Panoramic after treatment

Discussion and Conclusions

The successful positioning of the dilacerated impacted tooth depends on the degree of dilacerations, position of the tooth and the amount of root formation. The slow orthodontic traction resulted in good periodontal and periapical health of the tooth (Deshpande 2012).

The present case showed good achievement after multidisciplinary approach. The patient satisfied with the result and have better functional, and esthetical.