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## Correction of Ectopically Erupted Central Incisor Using Modified Nance Button -

### A Case Report

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#### Introduction

This article presents the use of simple biomechanical principles in a new way for correction of an ectopically erupted central incisor (figure 1 & 2).



Figure 1



Figure 2

#### **Case Report**

A female patient aged 9 years reported to the department with the chief complaint of irregularly placed upper front teeth. On intraoral examination it was found that one of the maxillary incisor (21, left maxillary incisor) was placed palatal to the left lateral incisor and distally inclined.

For correction of this problem the force direction and tooth movement was required in mesial upward and facial direction which was difficult to achieve with continuous arch mechanics, another viable option was use of mini implants but it was invasive and expansive procedure.

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#### **Appliance Design**

Hence a simple appliance design was constructed to achieve the right force direction. In this Nance palatal arch was soldered to the molar bands and extension from the nance button was extended anteriorly in the midline forming a hook close to the cervical margin of the right central incisor (11). From this hook elastic thread was engaged on to the attachment on the left central incisor and the force was applied.



Figure 3

Figure 4

Results

Within a short span of 45 days and without the need of full arch bonding the central incisor came into its correct position



Figure 5



Figure 6

#### Advantages

- 1. Delayed full bonding of maxillary arch till there is gross alignment of the incisor.
- 2. Early correction of the chief complaint leading to psychological motivation and improved patient cooperation
- 3. Sound biomechanical principle in terms of force direction
- 4. Simple and effective anchorage preparation.

#### Reference

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