

Clinical pearl for Orthodontic management of instanding Lateral Incisors

Dr. Jyoti.Rajbhar*, IIIrd year PG, Dept. of Orthodontics, RDC, Loni

Dr. Nilesh Mote, Professor, Dept. of Orthodontics, RDC, Loni

Dr. N.G.Toshniwal, Professor and HOD, Dept. of Orthodontics, RDC, Loni

Dr.Komal Thange, IIIrd year PG, Dept. of Orthodontics, RDC, Loni

Dr.Nilu.Singh, Ird year PG, Dept. of Orthodontics, RDC, Loni

Dr.Devdatta Wankhade, IIIrd year PG, Dept. of Orthodontics, RDC, Loni

Corresponding Author: Dr. Jyoti.Rajbhar*, IIIrd year PG, Dept. of Orthodontics, RDC, Loni

Type of Publication: Case Report

Conflicts of Interest: Nil

Introduction

Correction of palatally or lingually placed teeth has been a challenge in the past. With introduction of new technology, this clinical challenge has become predictable and simple. There are various method which can be used to correct the blocked out teeth- springs, elastomeric chain etc being some of them. The technique used here in this study, produces least stress on teeth adjacent to palatal or lingually placed teeth & helps achieve good alignment.

Clinical application



Fig.1 An occlusal view showing placement of NiTi coil spring between central incisor and canine to create space for alignment of lateral incisor.



Fig.2 Final view of the patient after complete alignment of lateral incisor

Bonding Preadjusted edgewise bracket as shown in Fig.1; Followed by initial alignment with round NiTi in the sequence- 0.12 Niti, 0.14NiTi, 0.18NiTi. After completion of initial alignment, 0.18 premium plus wire was placed followed by placement of NiTi coil spring to create space for lateral incisor. After creation of space, Elastomeric modules were tied in figure of 8 pattern and attached to main arch wire with the help of ligature tie. After most of the correction had taken place elastomeric modules and ligature tie was removed; a continuous NiTi wire was

placed. The time taken for complete alignment of lateral incisor was 2months (fig. 2).

Advantage of the technique

1. Using this approach, the chances of rotation on adjacent teeth was prevented.
2. The traditional technique used a 19×25SS wire and then piggy back technique for correction. The problem with that is prolonged treatment and resources.

Conclusion

Tooth alignment is achieved efficiently by using light force within minimal time.

References

1. Proffit WR, Fields HW. The first stage of comprehensive treatment: Alignment and leveling. In: Contemporary Orthodontics. 4th ed. St. Louis: C.V. Mosby; 2007. p. 553.
2. Nair SB, Prakash AT, Shetty KS. Mollenhauer aligning auxiliary for bodily alignment of blocked-out lateral incisors in preadjusted edgewise appliance therapy. J Indian Orthod Soc 2014;48:156-62.
3. Linge L, Linge BO. Patient characteristics and treatment variables associated with apical root resorption during orthodontic treatment. Am J Orthod Dentofacial Orthop 1991;99:35-43.
4. Michael C. Alpern. The Piggyback Technique. Orthodontic Product 2012; October(1)