

## Short Communication

## Intrusion of over erupted Mandibular Molar using Single Buccal Shelf bone screw & Modified Lingual Arch

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**Abstract:** The present paper describes a technique for the intrusion of over erupted Mandibular Molar using a single Buccal Shelf screw and a modified lingual arch. The objective was to incorporate only a single Buccal shelf screw, with a higher success rate than inter-radicular screws along with a modified lingual arch, which is more comfortable to the patient and convenient for the operator, compared to a two-screw technique for intrusion.

**Keywords:** Buccal Shelf Screw, Lingual Arch, Intrusion.

## Key Messages:

The single Buccal shelf screw technique and a modified lingual arch enable effective molar intrusion while avoiding needing a second screw. It is not only convenient for the operator but also more comfortable for the patient.

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### INTRODUCTION

Buccal shelf bone screws can be placed without any detrimental root contact, do not interfere with the path of molar intrusion, and exhibits a higher success rate [1, 2] than inter radicular miniscrews [3-5].

### PROCEDURE

Fabrication of the modified lingual arch is as follows:

1. Molar bands are selected and placed, pick-up impressions are done and a working model is obtained.
2. Lingual arch is prepared with distal extension extending beyond the distal half of the molar to be intruded (**Fig. 1, 2**), soldered, and the assembly is placed intraorally (**Fig. 3**).
3. Buccal shelf bone screw [FavAnchor™ SAS, India (2 x 12 mm)] is placed (**Fig. 4**) on the buccal shelf area corresponding to the distal extension.
4. Elastomeric chain is placed from the distal extension to the bone screw (**Fig. 5**).

### Legends for Illustrations



**Fig. 1: Distal extension (Lateral view)**



**Fig. 2: Distal extension (Occlusal view)**



**Fig. 3: Modified Lingual Arch (Occlusal view)**



**Fig. 4: Placement of bone screw [FavAnchor™ SAS, India (2 x 12 mm)]**



**Fig. 5: Elastomeric chain traversing from distal extension (lingual) to the bone screw (buccal)**

## CONCLUSION

Molar intrusion is no more the most difficult procedure with the advent of skeletal anchorage. Single bone screw approach as described here eliminates the need for an additional lingual implant, is comfortable for the patient and convenient for the operator.

### Declaration of Conflicting Interest:

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