## Clinical Pearl

To cite: Dhanajay Rathod, Rajeev Lall, Abhay Jain, Raghu Ranjan Prasad

Modified Lingual Arch Supported Pontic

J Contemp Orthod 2020;4(1):

Received on: 16-01-2020

Accepted on: 28-02-2020

Source of Support: Nil Conflict of Interest: None

# Modified Lingual Arch Supported Pontic

<sup>1</sup>Dhanajay Rathod, <sup>2</sup>Rajeev Lall, <sup>3</sup>Abhay Jain, <sup>4</sup>Raghu Ranjan Prasad

<sup>1</sup>Assistant Professor, <sup>2</sup>Professor & Head, <sup>3</sup>Professor, <sup>4</sup>Assistant Professor <sup>1,2,3,4</sup>Department Of Orthodontics, Hazaribag College Of Dental Sciences and Hospital, Jharkhand

#### INTRODUCTION

In the past three decades, a major reorientation of orthodontic thinking has occurred regarding adult patients. Most adults seek orthodontic treatment either to improve esthetics or to improve occlusal function [1]. There are several factors

responsible for the increased interest by adults in orthodontic treatment, including availability of a variety of cosmetic appliances and an increased desire for treatment of dental mutilation problems using tooth movement and fixed restorations rather than removable prostheses [2]. Missing

posterior teeth or necessary asymmetric orthodontic extraction may lead to migration, tilting of the adjacent teeth, and supraeruption of the opposing teeth along with compromised esthetics

[Figures 1 and 2]. Owing to these factors the need of an appliance which can control the problems and help in enhacing the outcome of the result becomes a prime objective for the orthodontist. Hence, this article represents a modification to the traditional lingual arch.

#### **INDICATIONS**

- 1. Maintainence of space in cases of missing first molars to fecilitate the prosthesis build up in the future.
- 2. Preservation Of Arch Length
- 3. Prevents The Mesial Drift Of Molars

## **STEPS IN FABRICATION**

- 1. Armamentarium: 20-gauge, round Stainless steel wire (to increase flexibility and springiness), cold cure acrylic and acrylic teeth.
- 2. An appropriate Pontic was selected on which bands were placed to enhance the retention to the appliance (figure 2)

- 3. The pontic was then placed on the cast followed by soldering and completing the appliance fabrication (figure 3)
- 4. The appliance after completion was cemented in the patient



Figure 1: An Appropriate Pontic Was Selected And Band Was Placed





Figure 2: Pontic Fabricated Was Placed On The Cast

## Dhanajay Rathod et al

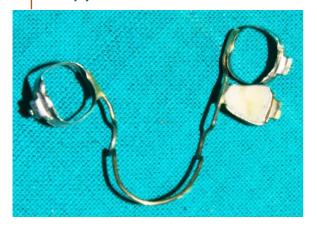


Figure 3: Fabricated Appliance





Figure 4: Appliance Cemented in the Patient

# **ADVANTAGES**

- 1.Functionally efficient with no extraction space visible the during the course of the treatment.
- 2.Prevents the supraeruption of the posterior tooth and also fecilitates the intrusion of the same
- 3. Anchorage control.

5. Prevents the mesial migration of the adjacent tooth.

## **CONCLUSION**

Thus ,the modified lingual arch with supported pontic offeres a number of advantages ranging from esthetics to the control of anchorage which can benefit the orthodontist to attain proper finishing in the cases of missing posterior teeth

## **REFERENCES**

- 1. Profitt WR. Contemporary Orthoodntics. 4th ed. United States: Mosby; 2007.
- 2. Graber TM, Vanarsdall RL, Vig KL. Orthodontics current principles and techniques. 4th ed. St. Louis: The CU Mosby Company; 2005.