

MODIFIED TECHNIQUE FOR PLACING PIGGYBACK WIRES

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Abstract

Orthodontic correction of rotated or malaligned tooth has always been a challenge. It's been always difficult to place a piggyback for the correction of single malaligned tooth. With today's recent techniques, this clinical challenge has become more simplified and predictable. Here we are presenting a modified technique to place piggyback wires with ease and time saving.

Keywords: Ligation, Malaligned, NiTi wires, Piggyback

Introduction

Superelastic wires like NiTi wires, with shape memory and ability to exert a light, continuous force over a considerable distance can be used for applying orthodontic traction to impacted teeth (Figure 01) or single tooth crossbite.^{1,2} A NiTi wire overlay on a rigid main archwire can effectively bring palatally or labially placed tooth or tooth in crossbite into the arch while maintaining the anchorage and archform.

Here is an easy and quick method of placing piggyback and rigid main wire.

1. Ligate NiTi Wire into the bracket slot malaligned tooth with elastic. (Figure 1)



Figure 1: Showing partially erupted central incisor

2. Module or ligature wire. (Figure 2)



Figure 2: NiTi wire ligated into the bracket slot of malaligned central incisor

3. Pass the NiTi wire through the slots of the adjacent brackets.

4. Ligate the NiTi wire at either the mesial or distal wings of the most distal bracket. (Figure. 3A and Figure 3B)
5. Place the rigid main archwire and ligate it. (Figure 4)



Figure 3A, 3B: NiTi wire ligated with ligature wire at the wings of the most distal bracket



Figure 4: Overlay wire placed

6. Cut the ligature wire with pin and ligature cutter. (Figure 5)

This is a very easy and time saving technique to place piggyback and rigid archwire.

References

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