The TAD Supported Simplified Molar Distalizer: "The FROG"

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Thanks
Tako Araujo

• Each 360° turn activates the appliance .4mm
• 3 turns (1.2mm) per month or
• 5 turns (2mm) per 2 months

Advantages of the “FROG”

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Subject: Frog info
Advantages of the FROG
• Easy assembly, easy delivery
• Easy activation (very short chair time)
• Spring is easily removed and adjusted
• 3-D molar control
• Bodily molar movement (less relapse?)
• Unilateral or bilateral distalization
• Works with erupted second molars
• No patient compliance required
• Invisible

Place the TADs as close to the midline as possible for better bony support.

• Fit and cement molar bands with lingual sheaths

An accurate impression including the palatal tissue and the lingual sheaths of the first molars is necessary.
Occluso-apically the FROG should be positioned at the trifurcation of the maxillary first molars (10-12mm from the occlusal surface, approximately the center of resistance).

**Critical**

- Antero-posteriorly angle the appliance so that the distal aspect is slightly palatally inclined

- Improper placement
  - Distal root tipping
  - Crown intrusion or extrusion
• The distalizing spring is fabricated from a preformed .032 stainless steel blank.

• There are adjustment loops on both sides of the center for fine tuning the distalizing spring.

• Adjustment loops

• Double back bends are placed on the ends for insertion into the lingual sheaths.

• Double back bends

• Place 5-10 degrees of toe-in in the double back bends for counter rotation.
• Toe in (ca. 5-10°)

• The mid-portion of the spring is inserted into a slot in the distal of the appliance.

• Fabricate a Nance button using Triad Gel.
• Trench the palatal surface to allow insertion of the appliance past the TADs

• Try the appliance in to make sure insertion is smooth.

• Add Triad Gel to the void in the button, insert and light cure.
Katie B.
Katie B.
33 weeks
Maxillary Incisor
Position Unchanged

Improved Lower Lip Curl

Initial 4-27-09
Modified Transfer Abutments
The following slides are courtesy of Dr. Björn Ludwig.