Expanding the Horizons of Aligner Therapy with TADs

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Aligner

Difficult Tasks:

- Bodily movements
- Distalization
Aligner

**Difficult Tasks:**

- Bodily movements
  - Distalization
  - Mesialization
**Aligner**

**Difficult Tasks:**

- Bodily movements
  - Distalization
  - Mesialization

- Molar Intrusion
Difficult Tasks:

- Bodily movements
  - Distalization
  - Mesialization
- Molar Intrusion

‡ Can TAD´s help us?
Aligner and TAD's

Phase 1:

TAD Appliance

- Bodily movements
  Distalization
  Mesialization
- Molar Intrusion

Phase 2:

Finishing with Aligners
Aligner and TAD’s

Difficult Case

Easy Case

Finishing
Aligner and TAD’s

Especially in the maxilla

- Molar Distalization
  - Beneslider
  - Pendulum B

- Molar Mesialization
  - Mesial-Distalslider
  - Mesialslider

- RME
  - Hybrid Hyrax
  - Molar Intrusion

- Forced Eruption of impacted...
  - Front Teeth
  - Molars
Step 1: Distalization

Impression Scan

Step 2: Alignment

Active Beneslider

Passive Beneslider + Aligner
Is it possible without extraction?
Beneslider & Aligner
Beneslider & Aligner
Beneslider & Aligner

1y retention
Beneslider & Aligner
Beneslider & Aligner
Beneslider & Aligner
Beneslider & Aligner
Beneslider & Aligner
Beneslider & Aligner
Problem:

† Band may be a problem for the Aligner fitting
Beneslider & Aligner

Bene-Tube
Dr. Banach
Beneslider and Aligner
Beneslider and Aligner

Connecting area is cut out

Remove spring

OR:

Connecting area is covered

Ligature

Active device ‡ Passive device (molar anchorage)
Clincheck

Due to skeletal anchorage:

+ Simultaneous retraction of all teeth

Tooth by tooth retraction

36 Aligner

20 Aligner
Mesialslider

Palatally Anchored Maxillary Molar Mesialization Using the Mesialslider

Benetube

Beneplate

Activation Lock

Closing Spring

Benetube

Activation Lock

Mini-Implants

2x7mm

2x9mm
Mesialslider and Aligner
Mesialslider and Aligner
Mesialslider and Aligner
Mesialslider and Aligner
Mesialslider and Aligner
Mesialslider and Aligner
Correction of Upper-Arch Asymmetries Using the Mesial-Distalslider
TADs in combination with Aligners

Difficult case → Easy case

Finishing
Mesial-Distal Slider
TAD´s and Aligner

Difficult Tasks:

- Bodily movements
  Distalization ✔
  Mesialization ✔

- Molar Intrusion
Molar Intrusion

Upper-Molar Intrusion Using Anterior Palatal Anchorage and the Mousetrap Appliance

Beneplate with 0.8 mm wire

† Control and adjust amount of force
† Control and adjust line of force:
  Upright tipped molars
Molar Intrusion

Mousetrap mechanics

7 months
Take Home message
Benefit System and Aligner— a good team!

Expanding the Horizons for Aligners
Distalization / Distalisierung:
- Beneslider / Aligner, JCO (EN)
- Beneslider / Aligner, IOK (DE)
- Beneslider / bukkale Brackets, QZ T (DE)
- Beneslider / labial brackets, QZ T (IT)
- Beneslider / linguale Brackets, KN (DE)
- Beneslider mit Banach-Tube, KFO (DE)
- Beneslider, JOOF (DE/EN)
- Animation

Early Class III Treatment / Klasse III Behandlung:
- Hybrid Hyrax / Mentoplast, JCO (EN)
- Hybrid Hyrax / Facemask, WJO (EN)
- Hybrid Hyrax, KFO (DE)
- Hybrid Hyrax / Facemask, PIO (EN)
- Hybrid Hyrax / Facemask, Alt-RAMEC, JCO (EN)