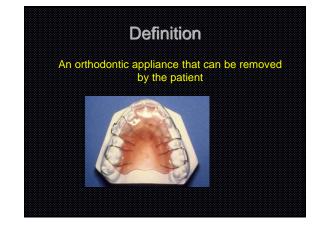
Removable Appliances Dr K Khalaf Associate Professor & Consultant Orthodontist

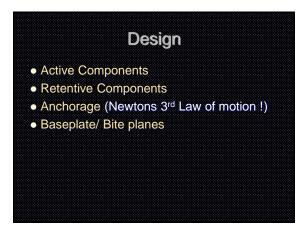


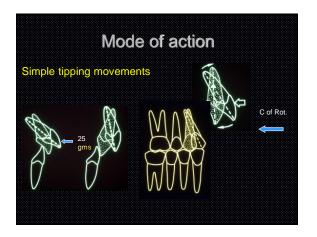
Overview Mode of action Advantages Disadvantages • Clinical tips Indications

Design

 Contraindications Keys to success







Advantages

- Can be removed for cleaning (after meals)
- Cheap (cf fixed appliances)
- Less chair-side time
- Palatal Coverage / Good Anchorage

Disadvantages • Appliance is removable! • Limited tooth movements possible (tipping) • Lower appliance poorly-tolerated

Lower Appliance

- Lower appliance poorly-tolerated
- ↑ Retentive components



Clinical 'Tips'

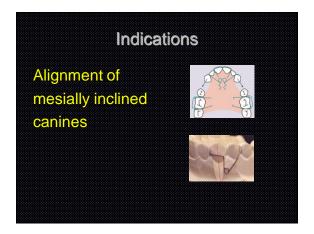
- Fit appliance passively initially
- Demo fit and removal carefully
- Stress F/T wear except cleaning
- Warn re: speech
- No extractions until compliance confirmed
- Review every 4-6 weeks

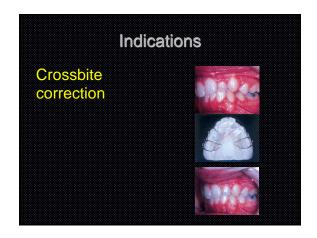
Clinical 'Tips'

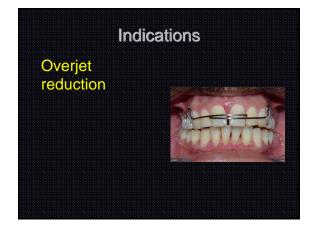
- First return appointment
 - Assess progress
 - Appliance fit
 - Wear signs on mucosa
 - Speech returned to normal
 - Gentle activation of active components

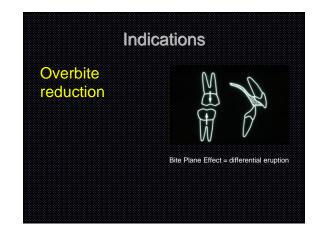
Indications

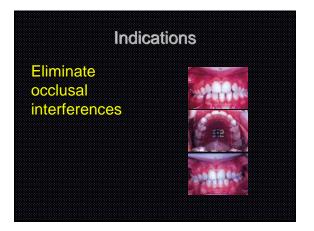
- 1. Alignment of mesially-inclined canines
- 2. Crossbite correction
- 3. Overjet reduction
- 4. Overbite reduction
- 5. Eliminate occlusal interferences
- 6. Adjunct to fixed appliances
- 7. Space maintenance
- 8. Retention

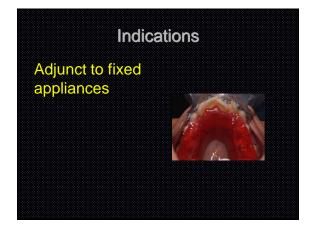




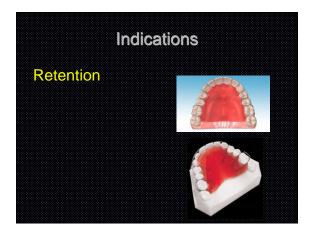












Contraindications

- Complex tooth movements required
 - 1. Intrusion/extrusion
 - 2. Bodily movement
 - 3. De-rotation

Keys to success

- Good case selection
 - 1. Patient
 - 2. Malocclusion
- Realistic treatment goals
- Good appliance/patient management

Patient selection

- Well-motivated
- Good oral hygiene
- No active caries
- Good cooperation
 - wear appliance 24 hours per day including eating

Malocclusion

- Extra-oral
 - skeletal pattern class I or mild class II/III
 - Favourable soft tissue environment

Malocclusion

- Intra-oral
 - Required tooth
 - movements possible by tipping teeth
 Spontaneous alignment possible in lower arch

Malocclusion

- Cases to avoid
 - Severe skeletal base discrepancies
 Unfavourable soft tissues
 - Rotations present

 - Rotations present
 Bodily movement required
 Lower arch requires active treatment