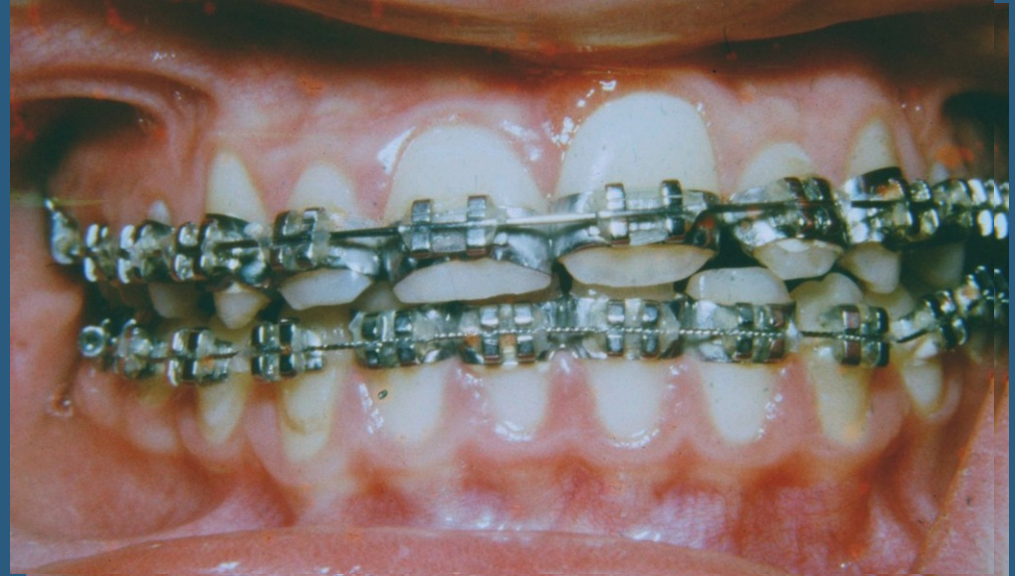


# ORTHODONTIC TREATMENT FIXED APPLIANCES

- MUDr. Alena Bryšová, Ph.D.



# FIXED APPLIANCES -HISTORY



# ORTHODONTICS BRACKETS

## Stainless steel brackets



### Advantages

- strong, do not crack
- smooth, low profile
- recyclable
- low friction
- price

### Disadvantages:

- Aesthetic

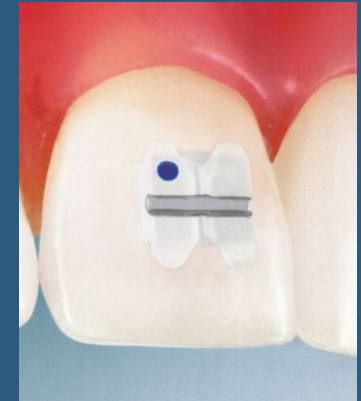


# STAINLESS STEEL BRACKETS



# ORTHODONTICS BRACKETS

## Ceramic brackets



### Advantages:

- Aesthetics

### Disadvantages:

- repeated bonding problem
- robust
- crack
- higher friction (avoid metal slot)
- price



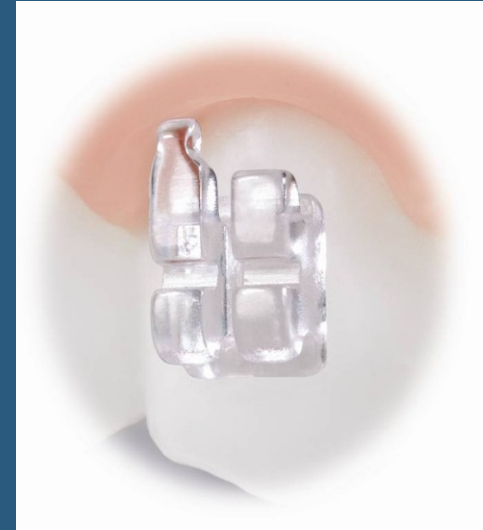
# CERAMIC BRACKETS





# ORTHODONTICS BRACKETS

## Sapphire brackets



### Advantages

- aesthetic

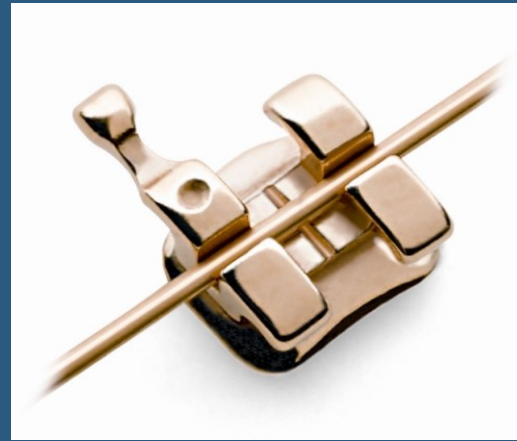
### Disadvantages:

- repeated bonding problem
- robust
- crack
- higher friction (avoid metal slot)
- price



# ORTHODONTICS BRACKETS

## Gold-coated brackets



### Advantages:

- suitable for allergy sufferers
- strong, do not crack
- smooth, low profile
- recyclable
- Low friction
- Aesthetics

### Disadvantages:

- price

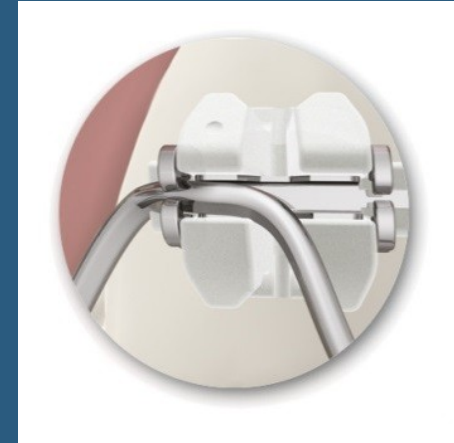






# ORTHODONTICS BRACKETS

Selfligating brackets – metal and ceramic



Advantages:

- minimum friction
- low power
- faster treatment
- fewer office visits

Disadvantages:

- not suitable for all types of defects



# SELFLIGATING STAINLESS STEEL BRACKETS





# ORTHODONTICS BRACKETS

## Lingual brackets – 2D,3D



### Advantages:

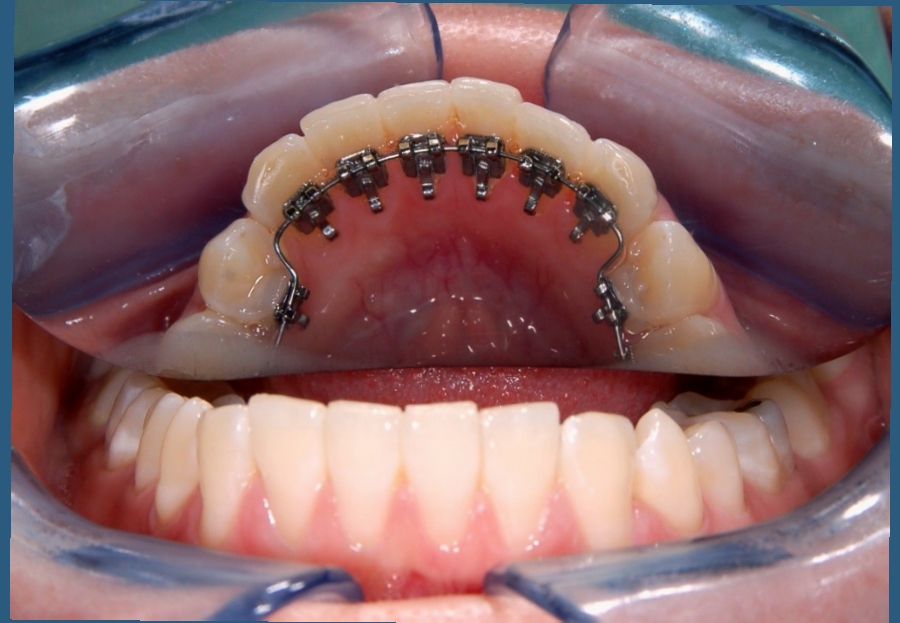
- Aesthetics

### Disadvantages:

- unsuitable for all types of defects
- Difficulty hygiene
- (patient discomfort)



# LINGUAL BRACKET



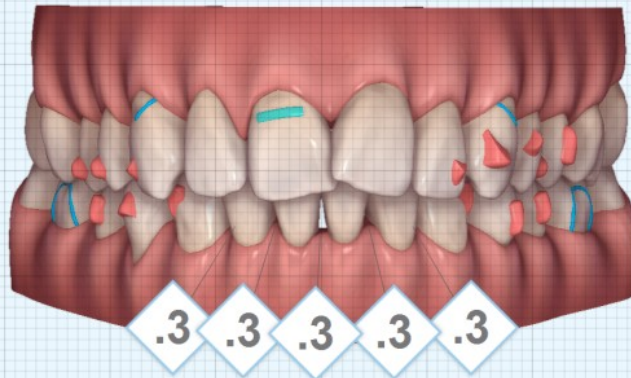




# ORTHODONTICS BRACKETS

Decorative brackets





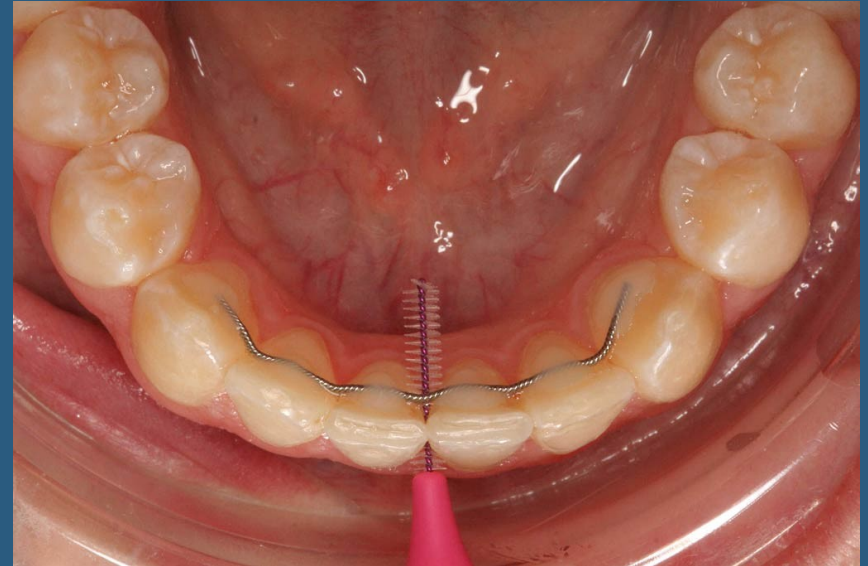
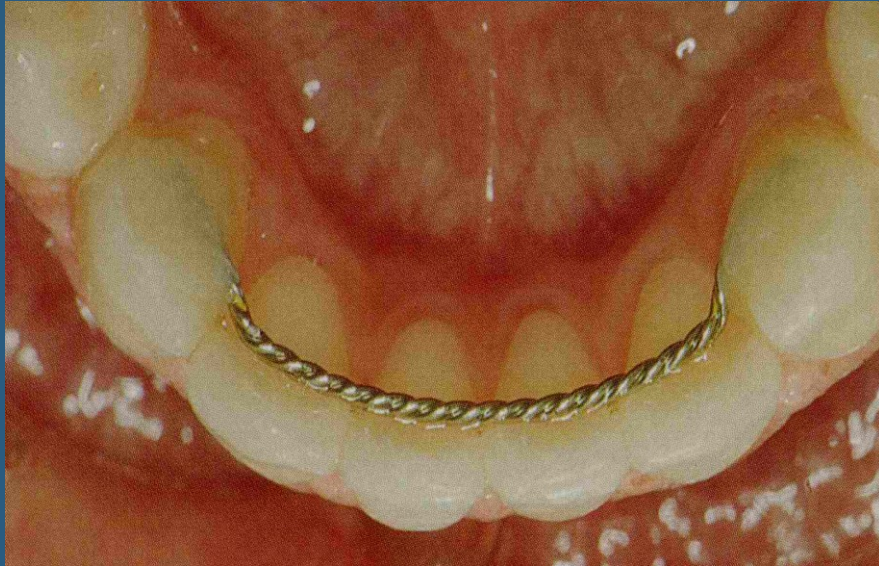
**ClinCheck® Software**

Simulated Tooth movements, actual treatment results may vary.  
The decision to treat and the actual treatment plan are determined by your doctor.





# FIXED LINGUAL RETAINER





# Direct bonding

1. cleaning

2. etching

3. rinse

4. drying



# Direct bonding

5. primer

6. bonding

7. remove excess

8. light or chemically cured

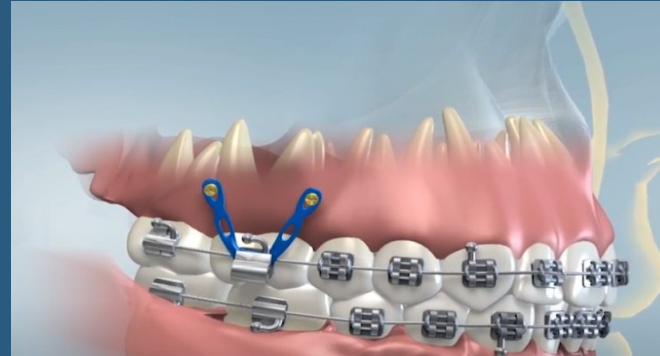
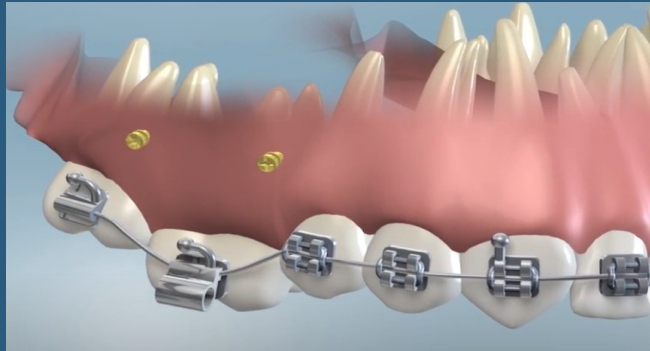




# INDIRECT BONDING



# TAD – Temporary Anchorage Devices – Mini Srew, Implants

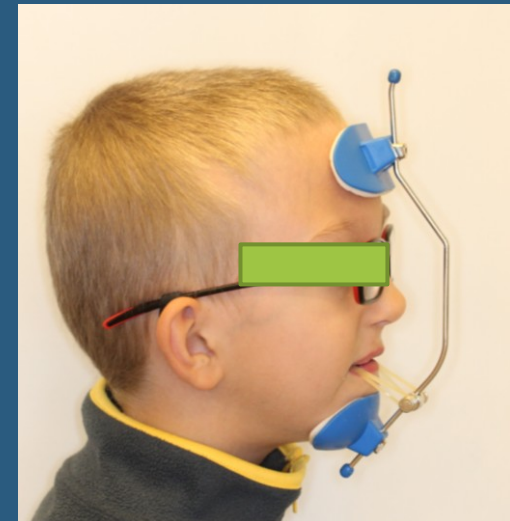
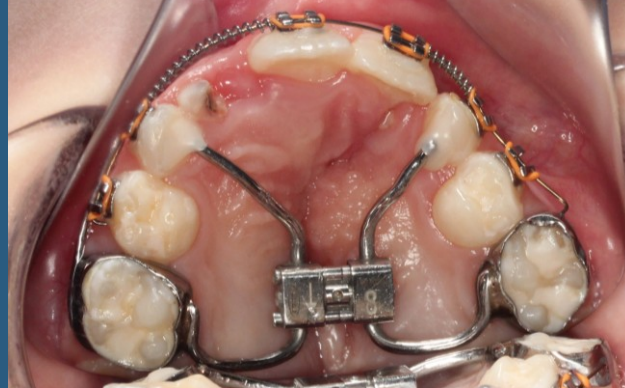




# TAD – Temporary Anchorage Devices – Mini Srew, Implants Benefit Systém, hybrid hyrax



# Haas Hyrax with Face mask



# CASES













- Treatment time – 11 months

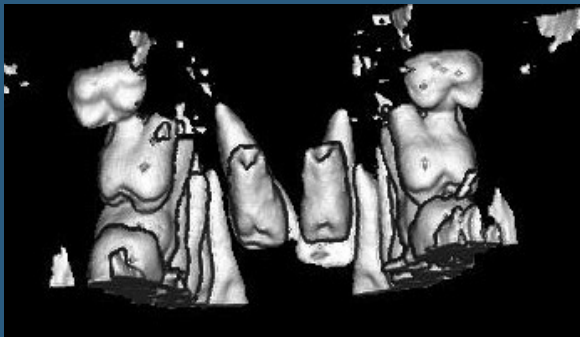
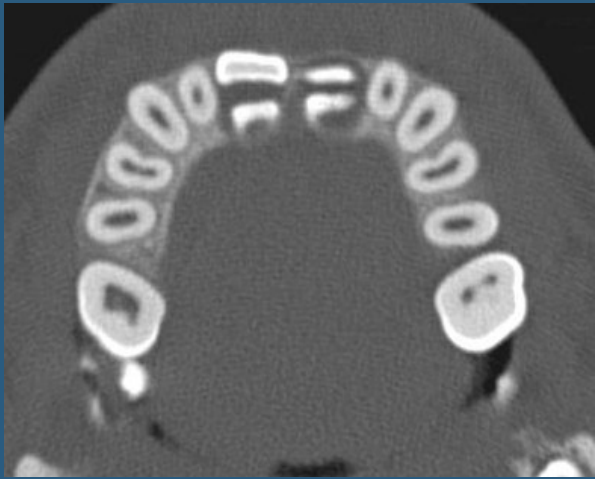


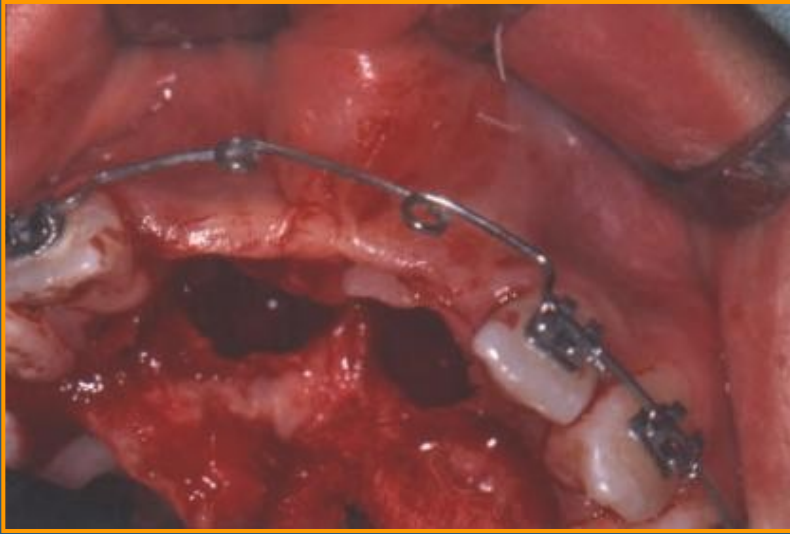






















- Treatment time – 16 months

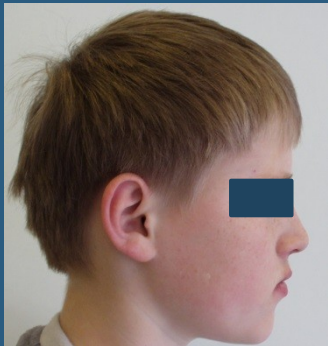


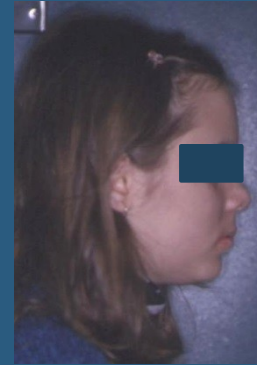














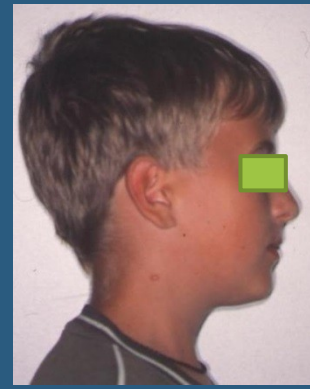
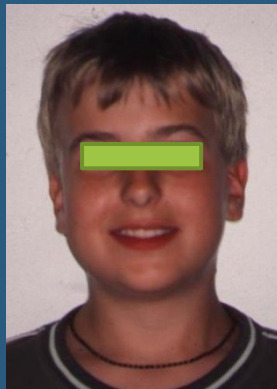










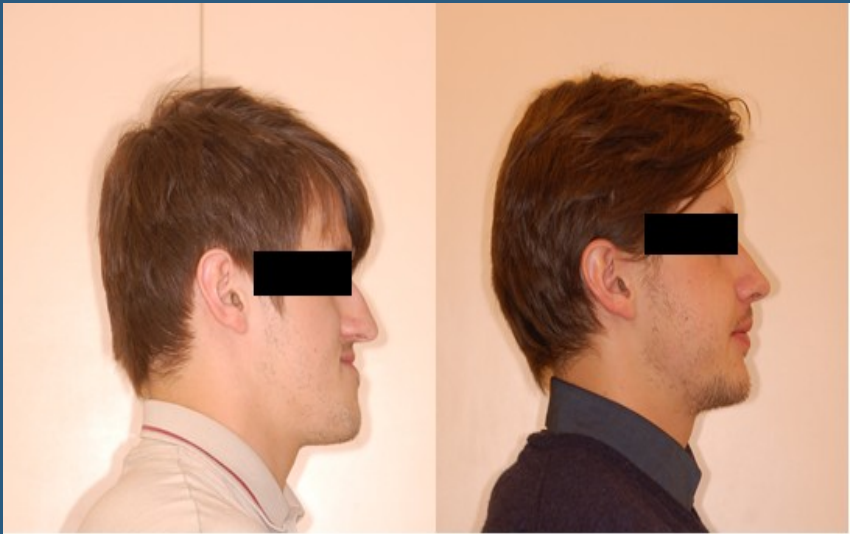












Before  
treatment



After treatment

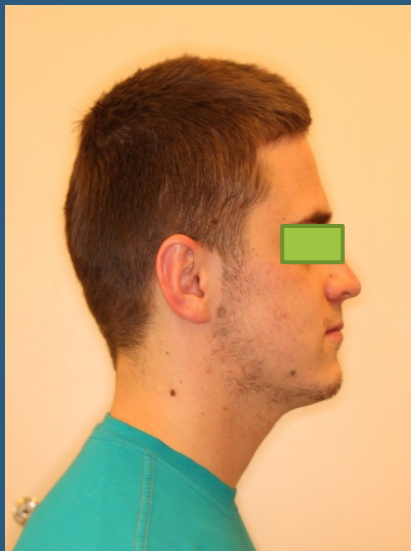




Before Treatment



After Treatment













# THANK YOU FOUR YOUR ATTENTION

Questions – email – [alena.brysova@fnusa.cz](mailto:alena.brysova@fnusa.cz)

Consultation – Orthodontic department - St. Anne's Hospital, building D2b – Thursday 1-2 p.m.

