Beginning of orthodontic treatment and the length of treatment time
Development of the denture

- Primary dentition 0-6 év
- Mixed dentition 6-12 év
- Permanent dentition 12 év felett
Orthodontic treatment in primary dentition

1. Progenia
   appliance: chin cap

2. Bad habits: thumb sucking,
   appl.: oral screen

3. Cleft lip and cleft palate

4. Loss of primary teeth
   appl.: space maintenier

5. Crossbite
   appl.: inclined plane
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Consequences of thumb sucking

- Open bite
- Protrusion of upper incisors
- Retrusion of lower incisors
- Distalocclusion
Oral screen
Oral screen
Orthodontic treatment in primary dentition

- **1. Progenia**
  - appliance: chin cap

- **2. Bad habits: thumb sucking,**
  - appl.: oral screen

- **3. Cleft lip and cleft palate**

- **4. Loss of primary teeth**
  - appl.: space maintener

- **5. Crossbite**
  - appl.: inclined plane
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   appliance: chin cap

2. Bad habits: thumb sucking,
   appl.: oral screen

3. Cleft lip and cleft palate

4. Loss of primary teeth
   appl.: space maintenier

5. Crossbite
   appl.: inclined plane
Orthodontic treatment in mixed dentition

1. Crossbite
   appl.: inclined plane
2. Early loss of primary teeth
   appl.: space maintener
3. Functional jaw orthopedic
   Sagittal anomalies: Angle II. – distalocclusion
   Angle III. – mesialocclusion
   Vertical anomalies: open bite
   deep bite
   appl.: bimaxillary functional appliances activator, bionator, Frankel-appl., Hansa-appl. etc.
4. Diasthema medianum
   appl.: removable appliance with springs
   brackets
5. Crowding with or without lateral crossbite
   appl.: expansion of the dental arch with activ removable plates or quad-helix
6. Timing of first molar’s extraction
   (reason: gangrena, periostitis, periodontitis etc.)
7. Hotz serial extractio
   ◆ primary canines
   ◆ primary first molars
   ◆ permanent first premolars
1. Crossbite
   appl.: inclined plane
2. Early loss of primary teeth appl.: space maintener
3. Functional jaw orthopedic
   Sagittal anomalies: Angle II. – distalocclusion
   Angle III. – mesialocclusion
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13-02-14
1. Crossbite
   appl.: inclined plane

2. Loss of primary teeth
   appl.: fixed or removable space maintener

3. Functional jaw orthopedic
   Sagittal anomalies: Angle II. – distalocclusion
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Active space maintener
1. Crossbite
   appl.: inclined plane

2. Loss of primary teeth
   appl.: fixed or removable space maintener

3. Functional jaw orthopedic
   Sagittal anomalies: Angle II. – distalocclusion
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Orthodontic treatment in permanent dentition

1. Treatment with fixed appliances
   - multiband, multibond
   - lingual and palatinal arches
   - Hyrax

2. Orthodontic treatment with extraction (most frequently: first premolars)
   reason: crowding or overjet

3. Orthodontic treatment with surgical intervention
   f.e.: impacted teeth

4. Treatment with missing teeth
   space closure or preprosthetic orthodontic treatment
   - reason: aplasia, accidents, caries

5. Dysgnathia operations (age: 18)
   progenia, prognathia, open bite

6. Orthodontic treatment in periodontal diseases

7. Problems with wisdom teeth
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Treatment with fixed appliance: 1-3 (4-5) years

The length of retention is twice longer than the activ treatment

1 év > 2 év
The treatment with removable appliance takes several years

The retention time is shorter (half year)