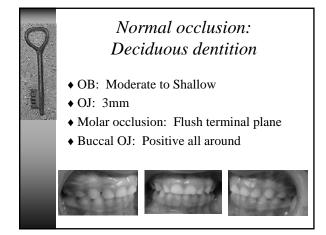


Early Treatment

Columbia University School of Dental and Oral Surgery

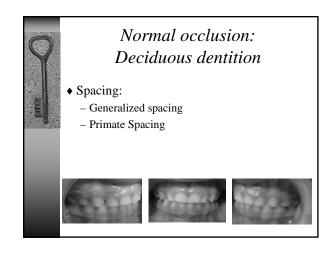
> Dr. Shany Park 2006

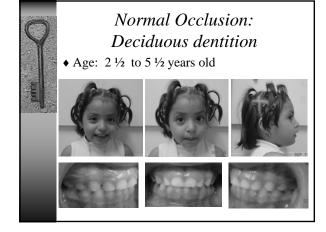




Early Treatment

- ♦ Preventive Orthodontic treatment
- ◆ Interceptive orthodontic treatment
- ♦ Phase I treatment



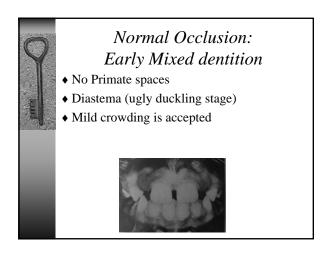


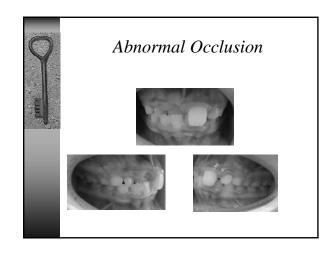


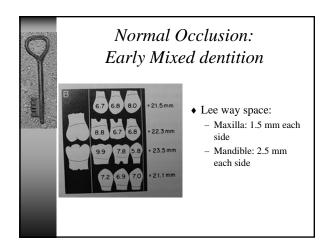
Normal Occlusion: Early Mixed dentition

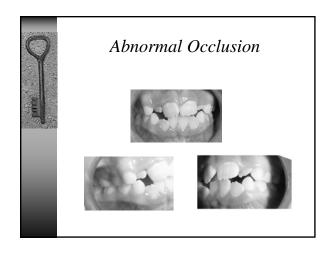
- ♦ OB: Shallow
- ♦ OJ: Shallow
- ♦ Molar Occlusion:
 - Mesial step or Flush terminal will shift to Cl I molar occlusion

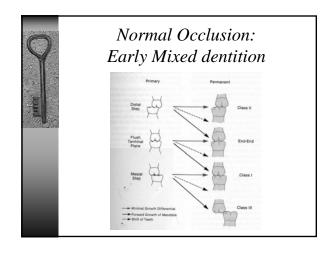


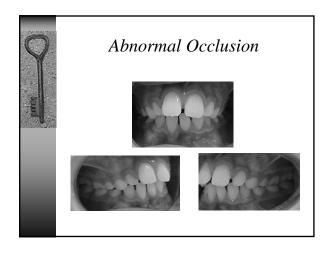


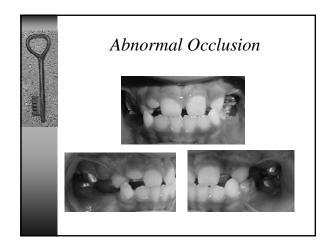


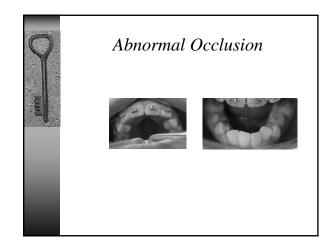


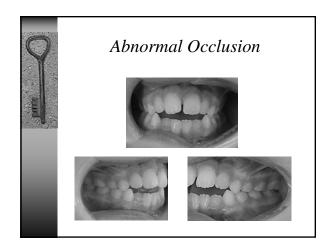


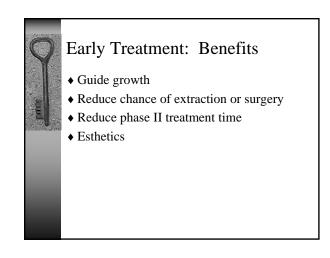


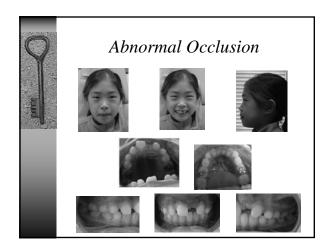
















Functional Problems

- **♦** Crossbites
 - Functional shift
 - Anterior
 - Lateral
 - Constriction of maxilla
 - Narrow maxilla
 - Narrow smile



Increased susceptibility to Trauma

- ♦ Severe Class II
 - Increased OJ
 - Trauma to maxillary central incisors



Functional Problems

- ♦ Class III
- Overgrowth of mandible
- Deficient growth of maxilla
- ◆ Openbite
 - Tongue thrusting habit
 - Thumb sucking habit
 - Prolonged use of Pacifier
 - Foreign object biting habit



Space Management

- ♦ Severe Crowding: Serial Extraction
 - Guided Eruption
 - Extraction of deciduous teeth
 - Extraction of permanent teeth



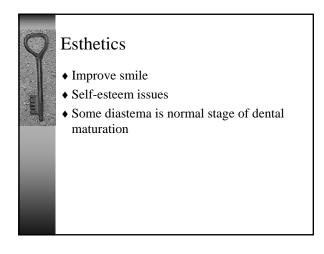
Functional Problems

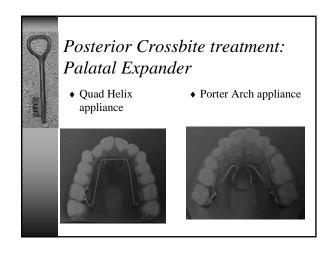
- Mouth breather
 - Adenoid face
 - Long face syndrome
 - Tongue rests on mandible instead of touching the palate
 - Maxillary constriction
 - Posterior crossbite
 - · Clockwise rotation of mandible
 - Anterior Openbite
 - Dry mouth
 - Increased caries rate
 - Increased Gingival inflammation

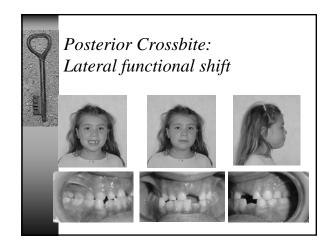


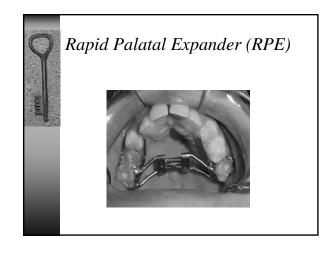
Space Management

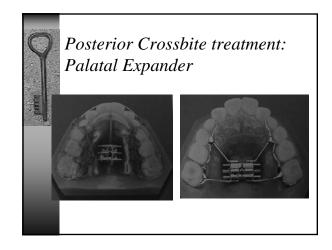
- ◆ Space Conservation: Space loss
 - Interproximal caries
 - Early loss of deciduous teeth
 - Early extractions of deciduous teeth

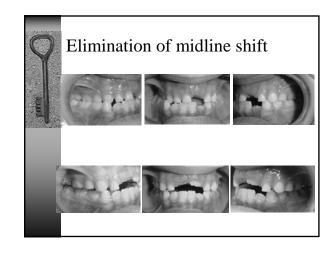


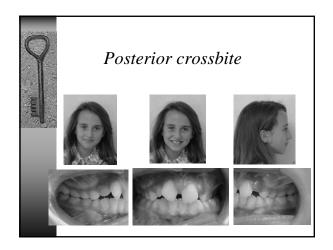


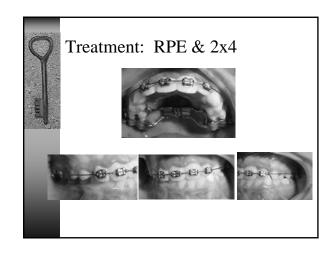


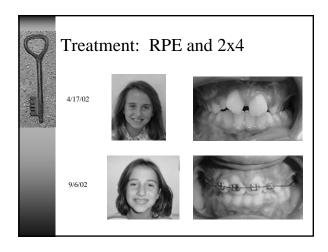


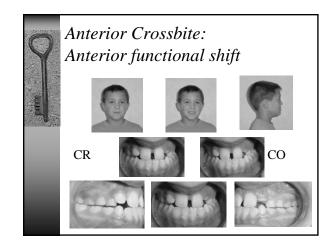


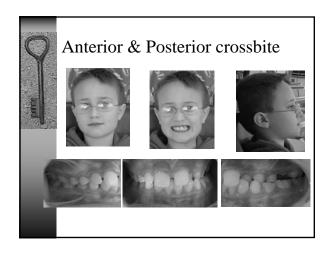


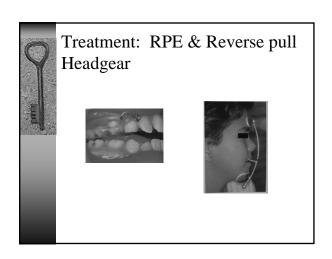


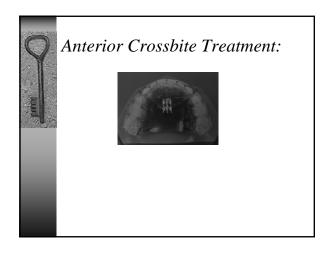


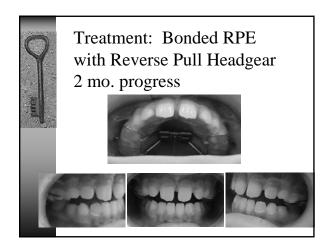


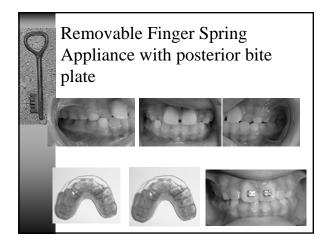


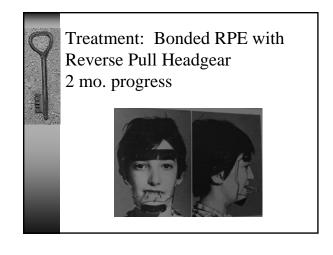


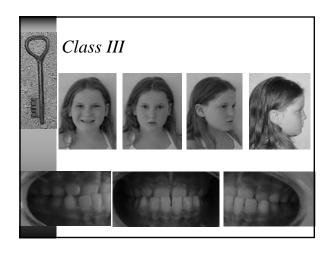


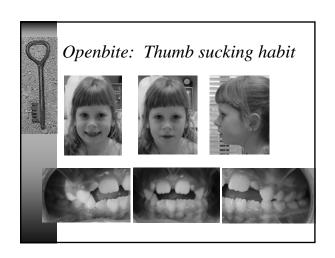


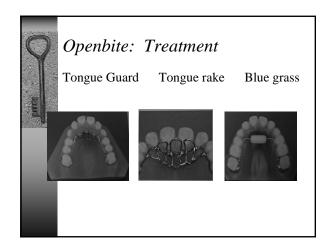


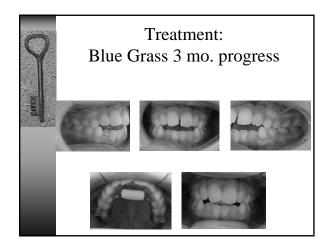


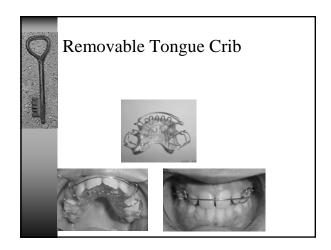


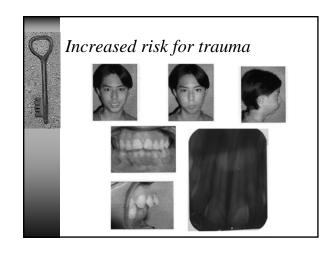


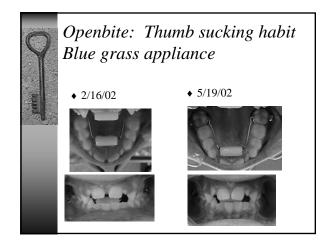


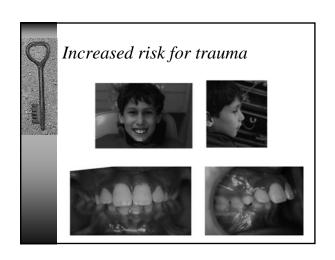




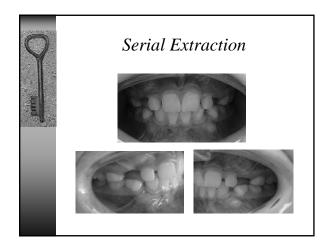


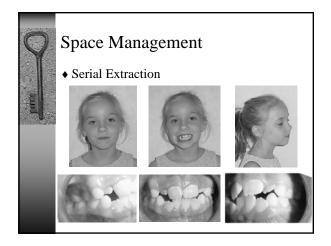


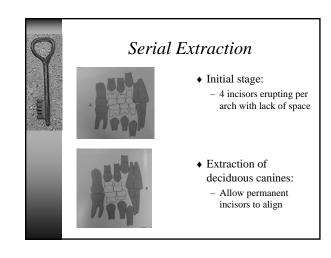


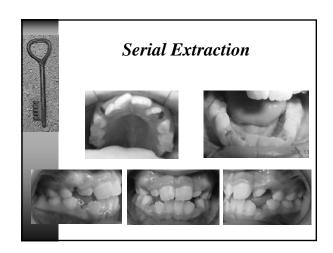


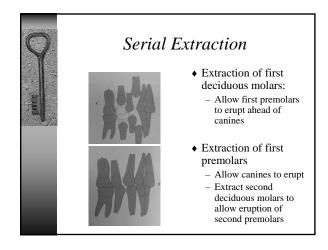


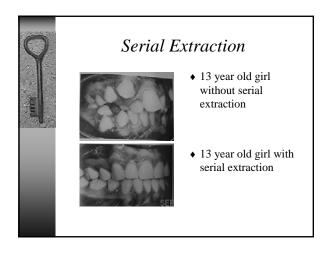


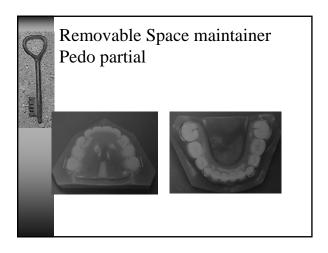


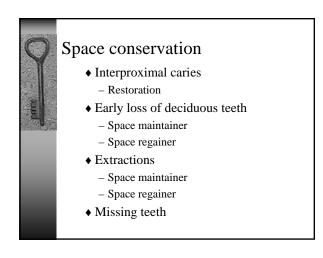


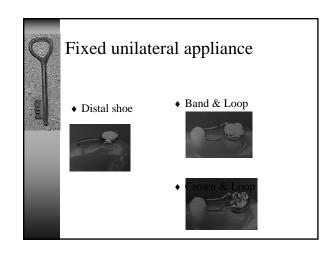


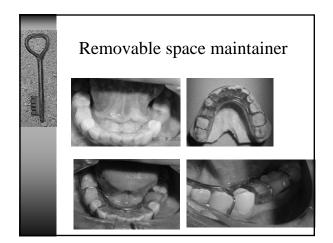


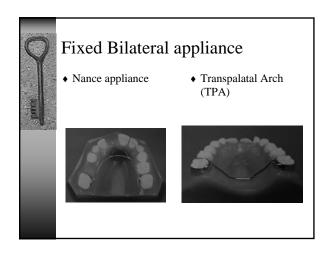


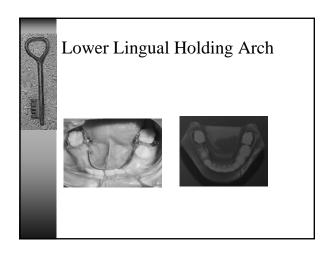


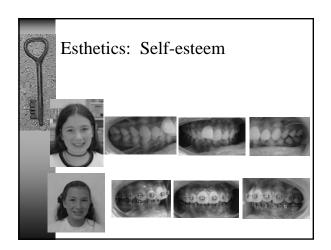


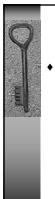












Summary

- ♦ Early Orthodontic treatment:
 - Guide growth to more favorable direction
 - Reduce the chance of extraction or surgery
 - Reduce phase II treatment time length
 - Esthetics