



## 2016 CDA Presents in Anaheim

# Pediatric Preventive and Interceptive Orthodontics

**Gregory L. Psaltis, DDS**

**Friday, May 13, 2016**

1:30–4 p.m.

Please visit the C.E. Pavilion to validate your course attendance

Or

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# **PSILENT PRODUCTIONS**

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## **Preventive and Interceptive Orthodontics**

### **I. Dental Development**

#### **A. Balance and symmetry**

##### **1. Average tooth eruption sequences**

**a. Permanent centrals, laterals and six year molars usually erupt at 6-7 ½**

**b. Cuspids, bicuspid and twelve year molars usually erupt at 10-12 1/2**

##### **2. Notice any areas that are not developed at a similar level**

##### **3. Look more deeply into causes for these discrepancies**

#### **B. Delays**

##### **1. Over-retained teeth**

**a. Mobility**

**b. Extent of root resorption**

##### **2. Congenitally missing teeth**

##### **3. Fused or geminated teeth**

#### **C. Disturbances**

##### **1. Ankylosis**

##### **2. Supernumerary teeth**

#### **D. Orthodontic Development**

##### **1. Symmetry**

##### **2. Length**

##### **3. Molar relationship**

##### **4. Inter-arch relationships**

**a. Crossbites**

**b. Vertical problems**

##### **5. Intra-arch relationships**

**a. Ectopic eruption**

**b. Early tooth loss with loss of space**

## **II. Intra-arch Management**

### **A. Space Maintainers**

- 1. Band and Loop**
    - a. Unilateral single tooth loss
    - b. First primary molar space
    - c. Can be used in either dental arch
  - 2. Lingual Arch**
    - a. Bilateral mandibular tooth loss
    - b. Unilateral multiple tooth loss in mandible
    - c. Single second primary molar loss in mandible
  - 3. Nance Appliance**
    - a. Bilateral maxillary tooth loss
    - b. Unilateral multiple tooth loss in maxilla
    - c. Single second primary molar loss in maxilla
  - 4. Distal Shoe**
    - a. Early loss of second primary molar
    - b. Unerupted six year molar
- B. Space regainer- Humphrey appliance**
1. Ectopic maxillary permanent molar
  2. Stable second primary molar

## **III. Inter-arch Management**

### **A. Cross-bites**

1. Posterior-- single tooth= Cross Elastics
2. Posterior-- segment
  - a. W-Arch appliance
  - b. Quad-helix appliance
3. Posterior-- skeletal bilateral= Rapid Maxillary Expander

### **B. Open Bites**

1. Behavior Modification Program
2. Habit Appliances

## **IV. Banding and Impression**

### **A. Banding**

1. Select tight-fitting bands
2. Place on teeth with fingers
3. Push into place with band-biter
  - a. Use corner of biter to seat with finger pressure
  - b. Have child SLOWLY squeeze band down with teeth
4. Good fit
  - a. Must have no gaps at occlusal aspect
  - b. Should not be removable with fingers
  - c. If criteria are not met, use half size smaller

### **B. Impression**

1. Alginate
  - a. Quick setting will be easier

- b. Remove band and place into impression
- c. Use "staple" to hold band in place/keep from floating
- d. Pour and send to lab
- 2. Alginate/compound technique
  - a. Warm some compound and place around banded tooth
  - b. Repeat steps listed above

#### V. Types of Space Maintainers/Regainers

- A. Soldered, custom appliances
  - 1. Strong, accurate
  - 2. Well-contoured
  - 3. Will not interfere with erupting permanent tooth
- B. Pre-formed
  - 1. Very fast to make
  - 2. No impressions or lab bills
  - 3. More fragile
  - 4. Potentially disruptive to new permanent tooth

#### VI. Early Orthodontic Referrals

- A. Skeletal problems
  - 1. Class II and Class III relationships
    - i. Good to refer early for evaluation
    - ii. Must determine which skeletal component is discrepant
  - 2. Open bites
    - i. Is this a true skeletal problem?
    - ii. Has this been caused by a habit?
- B. Arch length deficiencies
  - 1. Is this congenital in nature?
  - 2. What is the molar relationship?
  - 3. Has early tooth loss and drifting created this problem?
- C. Timing of referral
  - 1. Dental maturity-- want first permanent molars and lower incisors erupted
  - 2. Skeletal problems lend themselves to early treatment during growth
- D. Philosophies
  - 1. Treat in two phases
    - a. Correct skeletal problems early
    - b. Used fixed appliances to finish the case after permanent teeth erupt
  - 2. Functional appliances
  - 3. Wait until child has all permanent teeth

#### VII. Case Reports

For Office Handouts used by Dr. Psaltis in his private practice, go to his Website:

[www.psaltis.info](http://www.psaltis.info)

Included are: Space Maintainers, Suck-cess Program