Oral Habits

Theory and Practice of Pediatric Dentistry



K. Kohli, DDS

Lecture Overview

#Definition

₩Oral Habits

%Prevention

K. Kohli, DDS

Oral Habits

- ₩ Definition any repetitive behavior pattern which utilizes the oral cavity.
- - $\ \ \, \square$ Old undesirable, abnormal, & needs to be corrected immediately
 - New reflection of growth and maturing oral apparatus
- ★Learned patterns of muscular contraction

•	

Oral Habits development of the oral cavity and □Reflex and instinct - seen in infancy □Complex and Controlled behavior - seen later in life

#Generally, the longer the habit is practiced

K. Kohli, DDS

Non-compulsive v/s **Compulsive Oral Habits**

eliminated through the maturation process.

 Not so entrenched in the
 child's behavior that they cannot be not changed in response to the child's changing physiologic/ psychologic profile.

□ Resolve on their own and child "grows" out of!

seen.

 □ Fixated in a child's behavior pattern.

results due to persistent and intense habit.

 □ Generally reflects a psychologic dependency on certain behavior.

 □ Compelling reason for the behavior to continue ⊠Insecurities ⊠Fears ⊠Lack of ego-defense

mechanism development

K. Kohli, DDS

Sucking Mechanism

During infancy, it is the most well-developed sensation

⊠Helps with sustenance as well as deriving sensory

☑Gives a feeling of security, warmth, and euphoria.

and feeling of well being and is therefore deprived of the suckling pleasures.

 ★This deprivation may motivate the infant to suck on the thumb or finger for additional gratification.

-	
-	

Malocclusion and Habits

- # The type of malocclusion produced by the habit is dependant on the following variables
 - Position of the digit/pacifier etc.
 - △ Associated orofacial muscle contraction force
 - Mandibular position during sucking
 - ☐ Facial skeletal genetic pattern
 - △ Amount, frequency, & duration of force applied



K. Kohli, DDS

Malocclusion and Age



- Suring the first 3 yrs, the damage from the habit is mainly confined to the anterior segment, producing an anterior open bite.
- \$\mathfrak{H}\$ Damage can be detrimental if the habit is continued beyond the age of 3.5 yrs.
- # After 4 years of age, the habit becomes strongly established. The damage seen is more significant.
- After the eruption of the permanent incisors, the worst amount of damage seen.

K. Kohli, DDS

Damage caused by Habits

%The permanency of the damage to the Oral Structure is dependant on three factors

□Duration

⊠Frequency

⊡Intensity

-I = FxD

Different Oral Habits



₩Finger Sucking **%** Pacifier ₩ Nail Biting or Tongue Thrusting habits ₩ Mouth Breathing

K. Kohli, DDS

Finger Sucking Habit

- ₩ Most commonly seen non-nutritive habit in children.
- % Normal for newborns to engage in digit sucking.
- # Commonly develop in the first year of life.
- 6-7 months of age.
- Most habits abandoned prior to the eruption of the permanent
- ₩ No Tx needed if habit stopped by 6-7 years of age.
- arch constricted or parent/child is concerned.



Clinical Manifestations of **Digit Sucking Habit**



Herpetic Whitlow of the finger nail bed caused by thumb sucking ₩Offending digit ⊠Redness ⊡Calluses ⊠Fingernail

exceptionally clean

Malocclusion

Pacifier/Binkie Habit

- 器 Includes the physiologic pacifiers like the NUK.
- ★ Nearly identical to thumb sucking.
- ℜ Similar clinical findings, only not that pronounced!
- ★ Tx throw away the pacifier!



K. Kohli, DDS

Nail biting Habit



- ₩ Usually seen in older children, but may be observed as early as 2-3 years.

K. Kohli, DDS

Lip Sucking Habit

- # Implication in the development of malocclusion is debated.
- ⊯ Includes
 - ⊠Wetting
 - □Licking
 - \triangle Pulling
 - ⊠Sucking
- ★ Reddened and irritated lips, more severe in the winter months.



Abnormal Swallowing/ Tongue Thrust Habit



- # Protrusion of the tongue against or between the anterior dentition and excessive circum-oral activity during deglutition.
- # Universal infant oral behavior for children under the age of 6 years.
- Not a causative factor for anterior open bite.

K. Kohli, DDS

Tongue Thrust Habit

- $\ensuremath{\mathfrak{R}}$ Delayed transition between the infantile and adult swallowing pattern.
- $\ensuremath{\,\mathbb{H}\,}$ Transition usually begins to happen around the age of 2 years.
- $\ensuremath{\mathbb{H}}$ By the age of 6 years, 50% have completed the transition.
- $\ensuremath{\mathtt{\#}}$ 10-15% estimated never to fully complete the transition.
- $\label{eq:commonly} \texttt{\texttt{\#} Commonly associated with mouth breathing and anterior open bite}.$
- $\ensuremath{\mathbb{H}}$ Functional adaptation of malocclusion and not the etiology.
- $\mbox{\em \mathbb{H}}$ Can cause speech problems lisping.
- ₩ Most cases (80%) will self correct by 12 years of age.

K. Kohli, DDS

Abnormal Muscle Habits

- ★ Can be accompanied by skeletal Class I and II relationships.

Mouth Breathing

#Mouth Breathing - can be caused by physiologic or anatomic conditions, can be transitional when exercise induced or due to a nasal obstruction.

XTrue mouth breathing when the habit continues after the obstruction is removed.

K. Kohli, DDS

Mouth Breathing Habit

☑Long narrow face
 ☑Narrow nose and nasal airway
 ☑Flaccid lips with short upper lin

lip
Supturned nose exposing
nares frontally

⊠Excessive eruption of posteriors
 □Constricted maxillary arch
 □Excessive overjet

⊠Excessive overjet
 ☑Anterior openbite
 ☑Mandubilar down/forward growth is poor



Constricted Arches of Mouth Breathers





Enlarged Tonsils

Prevention

₩ Usually starts with proper nursing

△on the part of the parent

⊠Time

⊠Patience

⊠Holding the baby while nursing,

⊠using a physiologically designed nursing nipple and pacifier to augment normal functional and deglutitional maturation.

K. Kohli, DDS

Consideration for Oral Habit Therapy

⊠7 yrs

⊠understands the problem, desires to correct it!

Support and encouragement

■Support and encouragement

■ The state of the stat

☑Alert to suggestive psychologic problems

★Assessment of deformity

☑Degree and the presence/absence of other complexities

_	

Treatment Options

 #Accurate assessment in context of the child's physiologic and psychologic state of development for proper and effective management.

□ Dentist-Patient Discussion

□Reminder Therapy

□Reward System

K. Kohli, DDS

Dentist-Patient Discussion

#Straight-forward discussion

#Express concern and explain why the habit should be dropped.

XEncourage them to call the office and speak to you if the habit urge returns.

器Parents can help monitor only.

K. Kohli, DDS

Reminder Therapy

₩Unpleasant and more difficult method

★Reminder and not a punishment!

⊠Adhesive bandage

⊠Cotton glove

⊠Fingernail polish

⊠Bitters

⊠Arm wraps

Reward System

- #Formulate a contract between the child and parent for a short period of time (1-2 weeks).

K. Kohli, DDS

Appliance Therapy

策Intra-oral appliance 策Child must welcome continued assistance 策Permanent reminder

K. Kohli, DDS

Habit Correcting Appliances

#Finger Sucking
Appliances

□Palatal Crib



Habit Correcting Appliances

#Tongue/Thumb
 Retainer
 □Fixed Tongue Crib





K. Kohli, DDS

Habit Correcting Appliances





K. Kohli, DDS

Summary

- ₩ Duration, frequency and intensity play important roles in the permanency of the damage seen.
- **#**When considering treatment, make sure the child wants to break the habit.
- **#Placing fixed appliances should be the last resort for habit cessation.**

_	
-	
-	