

 positive oral stimulation
 maturation of the nervous system
 improved feeding quality
 decreased time needed to reach full oral o decreased time needed to reach full oral feeds
o decrease length of stay
examples of positive oral
stimulation
Colostrum or breast milk to infants mouth
with swab or pacifier, NNS, scented
clothes, skin to skin
O the best time to administer positive oral
stim is during a gavage feed.
Premature Infant Oral Motor WHEN DOES Intervention (PIOMI) admin by SLP
o lips, chin, tongue, soft palate and throat
33-34 weeks gestation
readiness scoring readiness scoring
SLP consult
Oral mech exam
bottle/nipple assessment
o matching flow/rate with SSB
o neuroprotective feeding plan of care and x per shift re-assess as needed

ANYTHING ABNORMAL tethered oral tissues (tongue/lip/buccal tie) palate: cleft, submucosal cleft posterior oral cavity: faucial pillars, tonsils, ORAL MECH uvula

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Benefits of infant-driven feeding and positive oral stimulation include: decrease time to full oral feeds decreased length of stay ensuring feeding is a positive experience prevention of oral aversion opportunity for evidence based medicine improved caregiver-infant bonding alleviating pressure for nurses to feed a disengaged infant or complete a bottle INFANT-DRIVEN

Feeding Readiness INFANT-DRIVEN

(=) - to best of

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PROBLEMS AND LONG-TERM **OUTCOMES IN** PRETERM **INFANTS**

- Long-term dysphagia

 oral phase disruption
 (immature or absent oral reflexes), TOTS
 weak and disorganized sucking
 immature patterns such as biting and chewing
 poor bolus formation
 (scattering, anterior spill)

 - spill)
 o breastfeeding failure
 - Pharyngeal phase disruptions
 - aerodigestive conditions
 immature SSB coordination
 can compromise airway
 safety
 - choking,gagging, apneas, bradycardia, or desaturations

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FEEDINGS RISKS

- Pre-term infants are more likely to develop oral aversion, oral-motor problems, and picky
- problems, and picky eating. speech and language delays are closely associated with feeding problems as the neural pathways for feeding and speech are linked. Infant with feeding problems have a higher incidence of language delays in early childhood and early referral to speech therapy is indicated for these infants. infants.

Adams-Chapman et al.

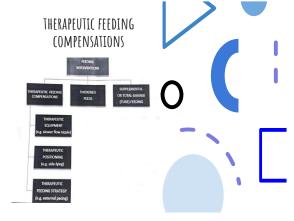
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INFANTS AT RISK FOR MORE

- Increased work of breathing and/or tachypnea (no matter the severity)
- Severe neurological impairments
 o due to meds or otherwise o severe IVH (grade 3 or 4)
- Congenital Heart Disease (CHD)
- w/ altered respiratory parameters Significant
- micrognathia/retrognathia +/glossoptosis
- o decreased airway protection
- cleft palate/lip

BPD

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THERAPEUTIC FEEDING EQUIPMENT

- Slower Flow Bottles
 may assist the infant to regulate milk flow and assist with SSB coordination
 milk from breast is generally not as fast many bottle nipples

Disposable bottle nipples

- 1. On average, these nipples are equivalent to the standard commercial slow flow/ level 1 bottle nipple 2. Variable flow rate between nipples (poor quality control) 3. single use 4. not readily available

Commercial Bottle Nipples

- 1. These nipples are considered VERY slow flow or ULTRA slow
- VERY slow flow or ULIRA Scow flow 2. they have more consistent flow rate than disposable (strict quality control) 3. made to be reusable

Pados et al (12)



- Difficulty with SSB pattern
 physiological changes
 work of breathing during feeds
 frequent self-imposed rest breaks
 requiring external pacing to impose
 breaks to catch breath
 a change to a weaker or slower sucking
 pattern (does well with paci but not
- bottles)

 anterior milk spillage

- anterior mick spillage

 Time To FINISH FEEDING:

 typical infant feeding 20-25 min

 slower flow rate may have the potential
 to extend feeding times HOMEVER; in
 clinical practice, slower flow often
 does not push infant feed outside
 normal limits, as the slower flow
 generally improves SSB coordination.
 infants DD NOT need to finish feedings
 in 10-15 minutes. This is not
 physiologic and may contribute to
 increase reflux and/or presence for
 bottle feeding over breastfeeding.

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