

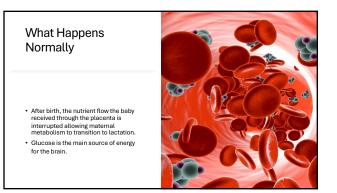


- temperature, relying on brown fat metabolism and behavioral adaptations like seeking warmth.
- Metabolism switches from placental supply to independent nutrient uptake, initiating processes for glucose regulation

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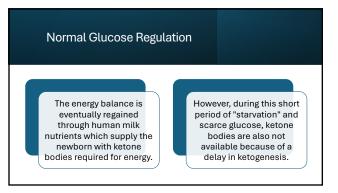


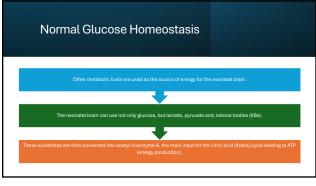
Immediately after birth and before the What

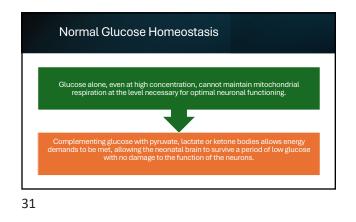
Happens

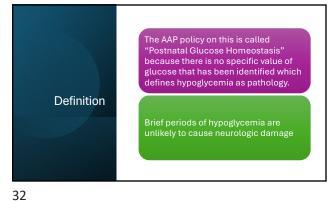
Normally

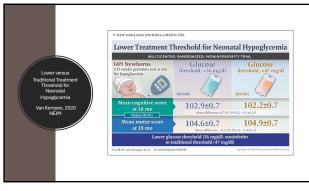
onset of suckling there is a time in which the newborn undergoes a unique kind of "starvation" where glucose is scarce. This normal and expected.

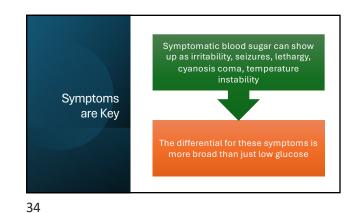


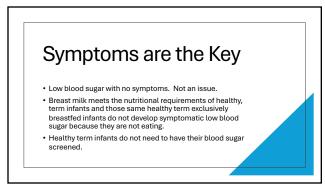












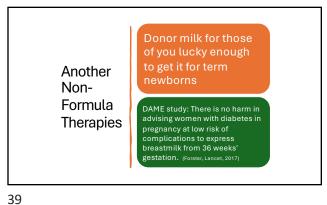


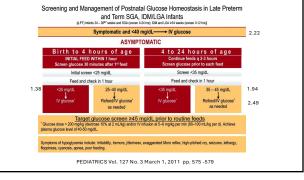


 Sugar Babies Study (Lancet December 2013) 514 babies in New Zealand, from 35-42 weeks gestation at risk for hypoglycemia. Randomized, double-blinded, placebo- controlled study.

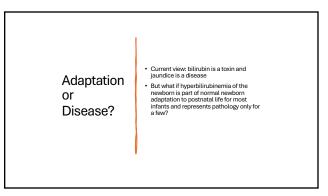
 Treatment with dextrose gel is inexpensive and simple to administer.

 Dextrose gel should be considered for first-line treatment to manage hypoglycemia in the late preterm and term babies in the first 48 hours after birth.







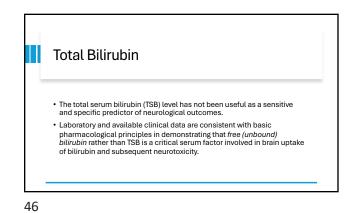


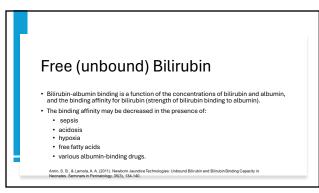


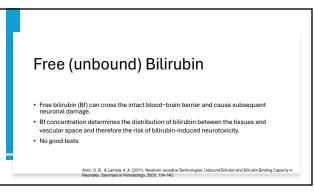


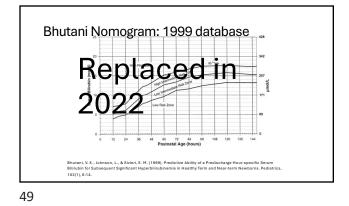


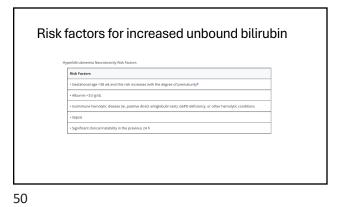




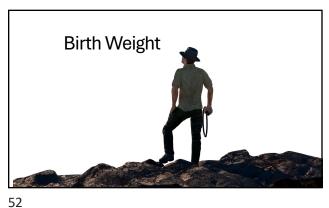












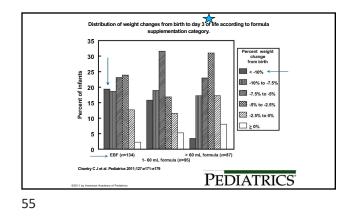


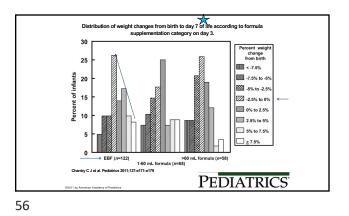


## **Excess Weight Loss**

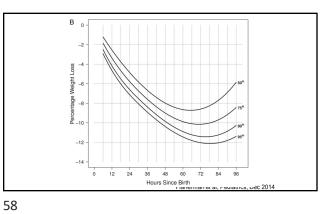
Weight loss of >7% of birth weight suggests possible breastfeeding problems and requires further evaluation

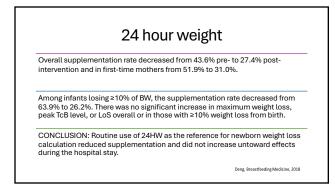
Excess weight loss, typically defined as loss of ≥10% of birth weight, is common.





Characteristics of Breastfed Infants With and Without EWL Infants Without EWL (N = 188) 153 ± 128 Infants With EWL (N = 41) 219 ± 131 rapartum fluid 1 ± SD, mL/h 2442 ± 136 2964 ± 1681 uid total, mean .293 or, mean ± SD, h igenesis, mean ± 21.2 ± 17.8 67.1 ± 21.7 17.5 ± 9.7 84.2 ± 25.1 .32ª 38 (24) 3.34 ± 0.38 of >500 mL, n (%) 11 (32) 3.53 ± 0.43 108 (57) 80 (43) 94 (51) None (EBF) 1-60 mL of formula tum maternal edema, n 26 (63) 15 (37) 30 (73) The table includes data for infants who were EBF and those who received ≤60 mL total before day 3. Noel-Weiss, Intl Breastfeeding Journal, 2011

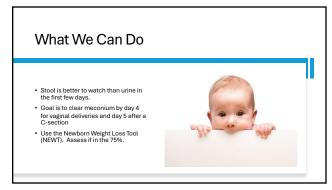






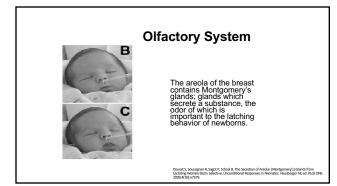


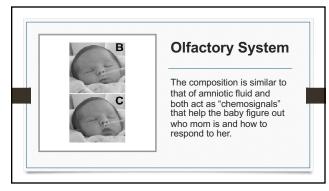


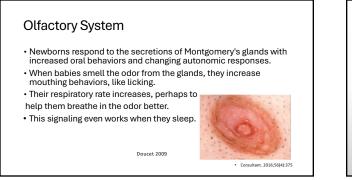












		ies reported in each l taly and Sweden stud		ase during skin-to-s	kin contact in the Un
		United States (n = 11)	Japan $(n = 13)$	Italy (n = 17)	Sweden (n = 28)
skin to 👘 📃	rth Cry	11	13	17	28
Re		п	13	13	24
		11	13	17 (head movement)	
		10	13	17	28
Re	- mag	8	5	17	25
	awling miliarization	9	7	16	21
		5	4	7	18
		1	0	10	28
ndyr Mat Child Nutrition 2020					

 TABLE 1. The individual aspects of the guideline received rated recommendations from the Expert Panel meeting.

 Guideline recommandation
 Rating

 Quideline recommandation
 Rating

 All mothers
 A

 All mothers
 A

 It monodately after bitth
 A

 Stell works in contact
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 All bitths
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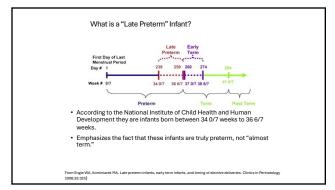
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 Continuous
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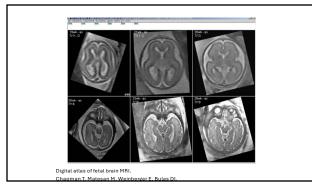
 Stafe works in contact after
 B

 Britindyty, Skin-to-skin contact after bith: Developing a research and practice guideline, 2023















# Bottle and Breast

 "Oxygen saturation and body temperature of the preterm infants were significantly higher when they were directly breastfed. There were 2 episodes of apnea (breath pause more than 20 seconds) and 20 episodes of oxygen desaturation (P602 < 90%) during bottle-feeding and none during breastfeeding.

 We conclude that breastfeeding is a more physiological feeding method for the preterm infant and bottle-feeding may be more stressful."

Chen, C.-H., Wang, T.-M., Chang, H.-M., & Chi, C.-S. (2000). The Effect of Breast-and Bottle-Feeding on Oxyge Saturation and Body Temperature in Preterm Infants. Journal of Human Lactation, 16(1), 21-27

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### **Bottle and Breast**

Oxygenation and ventilation

- During continuous sucking, ventilation decreases as a result of decreased breathing frequency.
- During continuous sucking, there is a minimal closure where no respiration occurs.
- That means, that during continuous sucking, healthy, bottle -feeding infants are holding their breath

#### Bottle and breast

- That is thought to be fine when you are healthy and term
- Preterm infants do not handle this well: breathing pattern and ventilation during bottle feeding is associated with significant decreases in oxygenation.
- Preterm infants can have a persistent decrease in their oxygen levels 10 minutes after a feeding.
- Breastfeeding does not cause compromised oxygenation and after breastfeeding, oxygen levels remained at baseline.



Indications for Supplementing the Term, Healthy Infant

- Significant dehydration: clinical and laboratory evidence that is not impro-with skilled assessment and proper management of breastfeeding
- Delaved bowel movements or me stools on day 5 Insufficient intake despite and adequate milk supply (poor milk transfer)
- Hyperbilirubinemia- associated with starvation

Vaginal births (mL/kg body weight) Ecesarean deliveries (mL/kg body weight)

> day 5 123 111 day 6 138 129

day 3 66

80

#### Indications for Supplementing the Term, Healthy Infant Breast Milk Transfer Over First 6 Days 160 Maternal illness resulting in separation of infant and mother Vean Breast Milk Transfer (mL/kg Body Weight) 140 Infant with inborn error of metabolism (galactosemia) 120 100 Infant who is unable to feed at the breast (congenital malformation, illness) Maternal medication contraindicated in breastfeeding Breast pathology or prior breast surgery resulting in poor milk production Intolerable pain during feeding unrelieved by interventions Vaginal births (mL/kg body weig Evidence-Based Updates on the First Week of Exclusive Breastfeeding g Infants 235 Weeks 82



