Nutrition Discharge Planning Instructions

NICU HEALTHCARE PROFESSIONAL: PROVIDE THIS FORM TO PEDIATRICIAN AND ATTACH GROWTH CHART

Patient Name:	DOB:	Discharge Date:		
This patient is at nutrition risk, requiring a specialized nutrition plan due to (select all that apply): Prematurity (early or late preterm)GA Low BUN (indicator of protein status) Very or extremely low birth weightg Prolonged parenteral nutrition Intrauterine growth restriction Volume restriction Extrauterine growth restriction History of feedings with term formula or unfortified Suboptimal weight gain human milk (HM) Low phosphorus and/or high alkaline phosphatase Chronic use of mineral wasting medications Radiologic evidence of bone demineralization Other:				
Human Milk-Fed	Formula-Fed			
 Human Milk + Similac Human Milk Fortifier (SHMF) Recipe:mL HM +packets of SHMF All feedings OR Alternate human milk & HM+SHMF Human Milk + Similac Special Care 30 (SSC 30) (volume) SSC 30 per day Human milk + formula feedingstimes per day of: Similac Special Care 20 Similac Special Care 24 Similac Special Care 24 Similac Special Care 24 High Protein Similac NeoSure Cal/fl oz Other 	 Similac Special Care 20 Similac Special Care 24 Similac Special Care 24 High Protein Similac NeoSure, Ready-to-feed or per mixing instructions, below: 20 Cal/fl oz (4-1/2 fl oz water + 2 scoops) 22 Cal/fl oz (2 fl oz water + 1 scoop) 24 Cal/fl oz (5-1/2 fl oz water + 3 scoops) 26 Cal/fl oz (5 fl oz water + 3 scoops) 27 Cal/fl oz (8 fl oz water + 5 scoops) 28 Cal/fl oz (3 fl oz water + 5 scoops) 30 Cal/fl oz (7 fl oz water + 5 scoops) Abbott Nutrition data on calorically dense feedings is limited. Hypocaloric and hypercaloric formulas should be used under the direction of a health care professional. 27 Cal/fl oz or more calorically dense formula may not supply enough water for some infants. Hydration status should be monitored and water supplied from other sources if necessary. 			
Recommendations: Infant should continue above feeding recommendation until: Date:, or Length of time: (weeks/months) OR Achieved weight:kg / percentile Then, transition to:	Infants requiring human milk fortification or Similac Special Care at discharge, are at high nutrition risk and would likely benefit from transition to preterm discharge formula (i.e. Similac NeoSure). ^{1,2} SSC and HMF products are not intended for feeding low-birth-weight infants after they reach a weight of 3600 g (approximately 8 lb) or as directed by a physician. Preterm infants may benefit from use of or supplementation with Similac NeoSure up to 1 year corrected gestational age. ³			
Signature of NICU Healthcare Professional (Physician, NNP, RD, or RN) Date/Time				
Telephone: ()	Email:			
Fax: ()	Pager:			



Feeding Considerations for the Human Milk-Fed Preterm Infant Ready for Discharge

Decisions regarding what to feed the human milk-fed preterm infant after discharge should be individualized to support optimal growth through the first 12 months of life.⁴ Nutrition risk factors can be found on the opposite side of the form.

Options for nutrient dense feedings for the preterm infant post discharge 2 kg VLBW infant at discharge receiving 120 Cal/kg/d

Human Milk / Abbott Nutrition Product (Daily average, Cal/fl oz)	Protein (g/kg/d)	Calcium (mg/kg/d)	Phosphorus (mg/kg/d)
Nutritional Recommendation ⁵ for infants with no nutritional deficits*	2.5 - 3.1	70 – 140	35 – 90
HM alternated with NeoSure RTF (21)	2.5	85	50
HM alternated with HM + SHMF Powder (22)	2.3	129	74
HM alternated with Similac [®] Special Care [®] 24 RTF (22)	2.7	136	76
HM + 60 mL/d Similac [®] Special Care [®] "booster" [†]	2.1	84	47
HM + SHMF Powder (24)	2.8	205	118

Feedings adapted from Groh-Wargo and Thompson, 2014. Data generated from WebNova Nutrition Calculator; Abbott Nutrition; November 2017. * Infants who have accumulated nutritional deficits (typically VLBW infants and especially ELBW infants) have nutritional needs which exceed the intake recommendations above).⁴

According to the AAP, "Strong consideration should be given to fortification of human milk for a minimum of 12 weeks for those infants who weigh less than 1250 g at birth and/or have incurred intrauterine or extrauterine growth restriction, because they represent the highest nutritional risk categories."⁴

Unfortified Human Milk Complications Include:⁶

- Slow growth
- Body composition changes
- Low bone mineral accretion

Human Milk enriched with Preterm Discharge Formula Powder:

• Regimen is a popular option, but, does not meet minimal nutrient recommendations

Considerations for discontinuing human milk fortification and/or supplementation include:⁶

- Correction of extrauterine growth restriction
- · Normalization of biochemical indices
- Attainment of term-corrected age
- Passage of 12 weeks

Infants requiring human milk fortification or Similac Special Care after hospital discharge, are at high nutrition risk and would likely benefit from transition to preterm discharge formula (i.e. Similac NeoSure).^{1,2}

Similac NeoSure supports excellent growth in premature babies, better gains in weight, length and head circumference when compared to premature babies fed term infant formulas.³

+ Abbott Nutrition data on calorically dense feedings is limited. Hypocaloric and hypercaloric formulas should be used under the direction of a health care professional.

References: 1. Groh-Wargo S et al. Body composition in preterm infants who are fed long-chain polyunsaturated fatty acids: a prospective, randomized controlled trial. *Pediatr Res.* 2005;57:712-718. 2. O'Connor DL et al. Growth and development in preterm infants fed long-chain polyunsaturated fatty acids: a prospective, randomized controlled trial. *Pediatr Res.* 2005;57:712-718. Growth of preterm infants fed nutrient-enriched or term formula after hospital discharge. *Pediatrics*, 2001; 107: 683-689. Infant. In: Kleinman RE, Greer FR, eds. Pediatric Nutrition. The d. Elk Grove Village, IL: *American Academy of Pediatrics*; 2014:109. S. Lapillonne A, O'Connor DL, Wang D, et al. Nutritional recommendations for the late-preterm infant after hospital discharge. *J Pediatr*: 2013;162:S90-100. 6. Groh-Wargo S, Thompson M. Managing the human-milk-fed, preterm, VLBW infant at NICU discharge: the sprinkles dilemma. ICAN. 2014;6:262-269.

