

TABLE 5. DOSING FOR INITIATION AND ADVANCEMENT OF PN MACRONUTRIENTS

Infants (<1 y)	Initiation		Advance By		Goals	
	Protein	Term	Protein	Term	Protein	Term
Protein (g/kg/d)*	1-3 (3-4 max)	2.5-3	—	—	3-4	2.5-3
Dextrose (mg/kg/min)	6-8	6-8	1-2	1-2	10-14 (max 14-18)	10-14 (max 14-18)
ILE (g/kg/d)**	0.5-1	0.5-1	0.5-1	0.5-1	3 (max 0.15 g/kg/h)	2.5-3 (max 0.15 g/kg/h)
Children (1-10 y)						
Protein (g/kg/d)	1.5-2.5		—		1.5-2.5	
Dextrose (mg/kg/min)	3-6		1-2		8-10	
ILE (g/kg/d)**	1-2		0.5-1		2-2.5	
Adolescents						
Protein (g/kg/d)	0.8-2		—		0.8-2	
Dextrose (mg/kg/min)	2.5-3		1-2		5-6	
ILE (g/kg/d)**	1		1		1-2	

*Protein does not need to be titrated; protein needs are increased with critical illness.
** ILE dosing based on soybean oil-based emulsion. See manufacturer's product information for dosing of other ILE products.
ILE = Lipid Injectable emulsion
GPI = glucose infusion rate; GPI calculation (mg/kg/min) = (dextrose (g/d) × 1000) / (24 (h/d) × 60 (m/h) × weight (kg))

TABLE 6. PN ELECTROLYTE AND MINERAL DAILY DOSING*

	Preterm Neonates	Infants/Children	Adolescents & Children Greater than 50 kg
Sodium	2-5 mEq/kg	2-5 mEq/kg	1-2 mEq/kg
Potassium	2-4 mEq/kg	2-4 mEq/kg	1-2 mEq/kg
Calcium	2-4 mEq/kg	0.5-4 mEq/kg	10-20 mEq
Phosphorus	1-2 mmol/kg	0.5-2 mmol/kg	10-40 mmol
Magnesium	0.3-0.5 mEq/kg	0.3-0.5 mEq/kg	10-30 mEq
Acetate	As needed to maintain acid base-balance		
Chloride	As needed to maintain acid base-balance		

*Use caution in prescribing calcium and phosphorus related to compatibility.

TABLE 7. PN DAILY MULTIPLE VITAMIN PRODUCT DOSING

Manufacturer Recommendations†		NAC-AMA Recommendations‡	
Weight (kg)	Dose (mL)	Weight (kg)	Dose (mL)
Less than 1	1.5	Less than 2.5	2 mL/kg
1 to less than 3	3.25	Greater than or equal to 2.5	5 mL
Greater than 3	5		

† Infante Pediatric (Baxter) and MVI Pediatric (Mylan)
‡ Nutrition Advisory Group-American Medical Association

TABLE 8. PN TRACE ELEMENT DAILY DOSING*

Trace Element	Preterm Neonates	Term Neonates 3-10 kg	Children 10-40 kg	Adolescents Greater than 40 kg
Zinc	400 mcg/kg	250 mcg/kg	50 mcg/kg (max 5000 mcg/d)	2-5 mg
Copper	20 mcg/kg	20 mcg/kg	20 mcg/kg (max 500 mcg/d)	200-500 mcg
Manganese	1 mcg/kg	1 mcg/kg	1 mcg/kg (max 50 mcg/d)	40-100 mcg
Chromium	0.05-0.3 mcg/kg	0.2 mcg/kg	0.2 mcg/kg (max 5 mcg/d)	5-15 mcg
Selenium	2 mcg/kg	2 mcg/kg	2 mcg/kg (max 100 mcg/d)	40-60 mcg

*Note: These requirements are different than the multi-trace element products currently available in the U.S.

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