

TABLE 1. MACROELEMENTS

Patient Clinical Condition	Parenterally Administered (g/kg/d)	Total Energy (kcal/kg/d)	IN Recommendations		
			Essential (mg/kg/d)	Non- essential (g/kg/d)	Fluid (mL/kg/d)
Stable	0.8-1.0	20-30	0.5	1	20-30
Critically ill, injured, obese	1.2-2.0	20-30	1-2	1-2	Minimum to prevent electrolyte abnormalities
Minimum Parenteral Nutrition Requirements for Stable	Parenterally Administered (g/kg/d)	Total Energy (kcal/kg/d)			
Threonine (non-lysis)	1.0-1.5				
Valine	1.0-1				
Open abdomen	Additional 0.5-1.0 g/d essential				
Acute kidney injury	0.8-1.0				
Essential amino acid replacement therapy	Additional 0.2 g/kg/d and to meet 0.7 g/kg/d				
Chronic kidney injury with nephrotoxic medications	1.2				
Weight losses	1.2-2 based on "goal" weight and response				
Notes	0-1.5 (based on BMI)	20-30 (based on BMI)			

BMI = body mass index

Threonine is essential in neonates. For pediatric use, dosing at 0.5 g/kg/d is reported (pediatric data not considered in this review) (10).

TABLE 2. ELECTROLYTE AND MINERAL

Element	Estimated Daily Requirement	Factors that increase needs
Calcium ^a	50-100 mg/d	High sodium intake
Magnesium	8-20 mg/d	Diuretics, medications, sweating
Phosphorus ^a	20-40 mg/d	High sodium intake, sweating
Sodium	0.2-0.5 mEq/kg ^b	Diuretics, sweating, ill patients, ill wounds
Potassium	0.2-0.5 mEq/kg ^b	Diuretics, sweating, ill patients, ill wounds, medications, sweating
Chloride	As needed to maintain acid-base balance	Renal insufficiency, metabolic alkalosis, ill wounds or transfusions
Urea	As needed to maintain acid-base balance	Metabolic alkalosis, volume depletion

^aNot needed if providing calcium and phosphorus orally to completion.

^bIN recommendations.

TABLE 3. DAILY REQUIREMENTS FOR ADULT PARENTERAL NUTRITION^a

Element	Estimated Daily Requirement
Threonine (g)	8 mg
Valine (g)	10 mg
Valine (g)	10 mg
Protein (g)	500 mg
Essential amino acid	10 mg
Phenylalanine (g)	8 mg
Cysteine (g)	8 mg
Valine	40 mg
Essential amino acid	100 mg
Threonine (g)	100 mg
Valine (g)	1 mg
Valine (g)	10 mg
Threonine (g)	100 mg

^aEssential amino acids, which contribute to nitrogen and to amino acid balance, for the parenteral nutrition solution should be 14 percent of total requirements.

TABLE 4. DAILY REQUIREMENTS FOR ADULT PARENTERAL TRACE ELEMENTS^a

Trace Element	Estimated Daily Requirement
Chromium	1-10 mg
Copper	0.1-0.2 mg
Manganese	50 mg
Selenium	40-100 mg
Zinc	1-5 mg

^aEssential and non-essential amino acids are 14 percent of amino acid balance.

^bIN. These requirements are different for the pediatric population (pediatric dosing available in the IN).

Aspen Parenteral Nutrition Guidelines

Sharon M. Weinstein, Mary E. Hagle



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Dietitian's Handbook of Enteral and Parenteral Nutrition Annalynn Skipper, 2012 This thoroughly revised and updated Third Edition of a bestselling handbook provides comprehensive coverage of systems approaches to medical nutrition therapy Designed for graduate nutrition students dietetic interns and practicing dietitians this authoritative handbook provides a solid foundation in and reference to the nutrition support field Expert contributors present a practical approach to the delivery of parenteral and enteral nutrition It covers all of the basics nutritional assessment nutrition management monitoring and complications and formulas as well as new topics wound healing trauma and critically ill obese patients This is the first textbook to fully integrate the Nutrition Care Process into enteral and parenteral nutrition content as specified in the 2008 Commission on Accreditation of Dietetic Education Standard II The Nutrition Care Process content is updated to reflect changes from the 2011 edition of the International Dietetics and Nutrition Terminology

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