

Supplementary Table 1. Daily parenteral nutrition of energy, fluid, macronutrients, and electrolyte requirements

Variable	Weight	Requirements	
Energy needs			
<1 Year		90-100 kcal/kg/day	
1-7 Years		75-90 kcal/kg/day	
8-12 Years		50-75 kcal/kg/day	
13-18 Years		30-50 kcal/kg/day	
Fluid requirement	2nd 10 kg	100 mL/kg	
	Additional kg=20 mL/kg	50 mL/kg	
	If weight > 40 kg=surface area method	20 mL/kg	
	If weight > 70 kg	1,500/m ²	
	Maximum fluids/day	manage as adults 2,300 mL for female. 2,400 mL for male.	
Protein^{a)}			
<1 Year	<10 kg	1-3.5 g/kg/day	
1-10 Years	10-20 kg	1-2.5 g/kg/day	
11-18 Years	More 20 kg	0.8-1.5 g/kg/day maximum 2 g/kg/day	
Lipids (20%)^{b)}			
	Starting dose		
1-2 Years	0.5-1 g /kg/day	Maximum	
3-11 Years	1 g /kg/day	3 g/kg/day	
12-18 Years	0.5 g /kg/day	2 g/kg/day 1 g/kg/day	
Carbohydrate IV dextrose^{c)}			
	Glucose infusion rate (GIR)	Range of GIR	
	Minimum	Maximum	
1-2 Years	4.7 mg/kg/min	12 mg/kg/min	5-12 m/kg/min
3-10 Years	4.7 mg/kg/min	10 mg/kg/min	5-10 m/kg/min
11-18 Years	1.9 mg/kg/min	8 mg/kg/min	4- 8 m/kg/min
Electrolytes			
	Infants & children	Adolescents (13-18)	
Na	2-5 meq / kg	1-2 meq/kg (60-150 meq/day)	
K	2-4 meq / kg	1-2 meq/kg (70-180 meq/day)	
Ca	0.45-4 meq / kg	10-40 meq/day	
Po4	0.5-2 mmol/kg	10-40 meq/day	
Mg	0.25-0.5 meq / kg Max 1 meq / kg	10-30 meq/day	
Cl	2-5 meq / kg	60-150 meq/day	

^{a)}1-g protein = 4 kcal/g. ^{b)}Lipids (20%) = 10 kcal/g or 2 kcal/mL. ^{c)}IV dextrose =3.4 kcal/g.