

MEMORIAL HEALTH CARE SYSTEM — ENTERAL NUTRITION FORMULARY

	STANDARD TUBE-FEEDING FORMULAS				SPECIALTY FORMULAS					ORAL SUPPLEMENTS					
Category	High Calorie, High Protein	High Protein With Fiber	Very High Protein	Calorie and Protein Dense	Diabetes	Renal (Dialysis)	COPD	Peptide-Based Elemental, High Protein	Peptide-Based Elemental	Immune Health	Muscle, Heart, Immune System, Bone Support	Clear Liquid	Diabetes	Renal (Predialysis)	Renal (Dialysis)
Product Name	Osmolite® 1.5 Cal	Jevity® 1.2 Cal	Promote®	TwoCal® HN	Glucerna® 1.2 Cal	Nepro® with Carb Steady®	Pulmocare®	Vital AF 1.2 Cal®	Vital® 1.5 Cal	Ensure® Immune Health*	Ensure Complete™	Ensure Clear®	Glucerna® Therapeutic Nutrition Shake	Suplena® with Carb Steady®	Nepro® with Carb Steady®
Cal/mL	1.5	1.2	1.0	2.0	1.2	1.8	1.5	1.2	1.5	1.06	1.5	1.01	0.93	1.8	1.8
Nutrient Values per	1 L	1 L	1 L	1 L	1 L	1 L	1 L	1 L	1 L	8 fl oz	8 fl oz	6.7 fl oz	8 fl oz	8 fl oz	8 fl oz
Protein (g)	62.7	55.5	62.5	83.5	60	81	62.6	75	67.5	9	13	7	9.9	10.6	19.1
Protein Source	Sodium and calcium caseinates, Soy protein isolate	Sodium and calcium caseinates, Soy protein isolate	Sodium caseinate, Soy protein isolate	Sodium and calcium caseinates	Sodium caseinate, Soy protein isolate, Milk protein concentrate	Calcium, magnesium, and sodium caseinates, Milk protein isolate	Sodium and calcium caseinates	Whey protein hydrolysate, Hydrolyzed sodium caseinate	Whey protein hydrolysate, Partially hydrolyzed sodium caseinate	Milk protein concentrate, Soy protein isolate, Pea protein concentrate	Sodium caseinate, Milk protein concentrate, Soy protein isolate, Whey protein concentrate	Whey protein isolate	Sodium and calcium caseinates, Soy protein isolate	Milk protein isolate, Sodium caseinate	Calcium, magnesium, and sodium caseinates, Milk protein isolate
Fat (g)	49.1	39.3	26	90.5	60	96	93.3	53.9	57.1	6	11	0	8.6	22.7	22.7
Fat Source	High oleic safflower oil, Canola oil, MCTs	Canola oil, Corn oil, MCTs	Soy oil, MCTs, Safflower oil	High oleic safflower oil, MCTs, Canola oil	High oleic safflower oil, Canola oil, Marine oil	High oleic safflower oil, Canola oil	Canola oil, MCTs, Corn oil, High oleic safflower oil	MCT/Marine oil structured lipid, MCTs, Canola oil, Soy oil, DATEM	Canola/MCT structured lipid, Canola oil, MCTs, DATEM	Soy oil, Canola oil, Corn oil	Canola oil, Corn oil	NA	High oleic safflower oil, Canola oil	High oleic safflower oil, Canola oil	High oleic safflower oil, Canola oil
Carbohydrate (g)	203.6	169.4	130	218.5	114.5	161	105.7	110.6	187	42	51 (52 Choc.)	43	29.3	46.4	37.9
Carbohydrate Source	Corn maltodextrin	Corn maltodextrin, Corn syrup solids, Dietary fiber	Corn maltodextrin, Sugar	Corn syrup solids, Corn maltodextrin, Sugar, Dietary fiber	Corn maltodextrin (including Fibersol®), Isomaltulose, Fructose, Sucromalt, Glycerine, Dietary fiber	Corn syrup solids, Sugar, Corn maltodextrin (including Fibersol), Glycerine, Dietary fiber	Sugar, Corn maltodextrin	Corn maltodextrin, Dietary fiber	Maltodextrin, Sugar, Dietary fiber	Sugar, Corn maltodextrin, Dietary fiber (Choc. also has cocoa powder)	Corn maltodextrin, Sugar, Dietary fiber	Sugar, Corn syrup solids	Corn maltodextrin (including Fibersol), Maltitol syrup, Fructose, Dietary fiber (Choc. also has cocoa powder)	Corn maltodextrin (including Fibersol), Isomaltulose, Sugar, Glycerine, Dietary fiber	Corn syrup solids, Sugar, Corn maltodextrin (including Fibersol), Glycerine, Dietary fiber
Osmolality (mOsm/kg H ₂ O)	525	450	340	725	720	745	475	425	610	630 (640 Choc.)	780 (845 Choc.)	796	530	780	745
mL to meet 100% RDIs†	1000	1000	1000	948	1250	944	947	1185	1000	948	NA	NA	NA	944	944
Fiber (g)	0	18	0	5	16.1	12.6	0	5.1	6	3	3	0	2.4 (3.4 Choc.)	3	3
Sodium (mg)	1400	1350	1000	1450	1110	1060	1310	1266	1500	200 (190 Choc.)	240	35	210	190	250
Potassium (mg)	1800	1850	1980	2440	2020	1060	1960	1688	2000	370 (390 Choc.)	560 (700 Choc.)	35	370 (430 Choc.)	270	250
Calcium (mg)	1000	1200	1200	1050	800	1060	1060	844	1000	300	350	40	250	250	250
Phosphorus (mg)	1000	1200	1200	1050	800	720	1060	844	1000	250	350	200	250	170	170
Magnesium (mg)	400	400	400	425	320	210	425	338	400	100	100	8	100	50	50
Vitamin K (mcg)	80	80	80	85	100	85	85	68	80	20	20	16	20	20	20
% Water	76	81	84	70	81	73	79	81	76	83	76	84	84	74	73
Indications for Use	Can be sole source; increased calorie and protein needs or limited volume tolerance; long- or short-term tube feeding	Can be sole source; long- or short-term tube feeding	Can be sole source; low caloric needs and those at risk for protein-energy malnutrition or pressure ulcers	Can be sole source; low-volume feeding, stress, Med Pass programs	Can be sole source; diabetes or abnormal glucose tolerance from metabolic stress	Can be sole source; designed for people on dialysis (stage 5 CKD)	Can be sole source; designed for people with COPD, cystic fibrosis, or respiratory failure who may benefit from a high-calorie, modified carbohydrate and fat formula	Peptide-based elemental advanced formula with ingredients to help manage inflammation and promote GI tolerance	Calorically dense, peptide-based, elemental formula for patients experiencing malabsorption, maldigestion, or impaired GI function and/or symptoms of GI intolerance	For patients at nutritional risk, with weakened immune system, or experiencing involuntary weight loss; interim sole-source nutrition	Balanced nutrition for targeted muscle, heart, immune system, and bone support; not for sole-source nutrition	Clear-liquid, pre- and post-op, bowel-prep, fat-malabsorptive, and fat-restricted diets; not for sole-source nutrition	Diabetes or abnormal glucose tolerance; not for sole-source nutrition	Can be sole source; designed for people with chronic kidney disease (stages 3 and 4)	Can be sole source; designed for people on dialysis (stage 5 CKD)

NA = Not applicable.

*Ensure Immune Health (cans) will transition to the new pea protein source beginning February 14, 2013. Ensure Immune Health (bottles) will transition to the new pea protein source beginning April 15, 2013. When inventory of the old Ensure Immune Health product is depleted, customers placing orders will automatically receive the new Ensure Immune Health product.

†mL to meet 100% RDIs for key vitamins and minerals.

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READY-TO-HANG CLOSED SYSTEM RECOMMENDED HANDLING TECHNIQUE*

Ready-To-Hang (RTH) Prefilled Enteral Feeding Containers can hang safely up to **48 hours** when a new RTH container is spiked with a new feeding set using clean technique. Using only one feeding set per RTH container helps control the introduction of microbes from touch contamination. To spike, completely pierce spike port on plastic cap with feeding set. Turn the safety screw spike clockwise until it is securely fastened.

TUBE-FEEDING INITIATION PROTOCOL*

Note: All enteral formulas will be started at full strength to minimize the risk of contamination. If a decreased strength is ordered by the physician, the appropriate full-strength rate will be initiated and documented by the Registered Dietitian. Example: 1/2 strength at 50 mL/hr = full strength at 25 mL/hr will be started.

Type	Action	Goal
Continuous Feedings:		
1.0–1.5 Cal/mL, begin at 30 mL/hr	Advance by 10 mL every 8 hr	Advance as tolerated until goal is achieved
2.0 Cal/mL, begin at 20 mL/hr		
Intermittent Feedings:		
Divide total volume into 4 feedings	Increase 50–100 mL daily	Increase as tolerated until goal is achieved
Bolus Feedings:		
Begin with gastric bolus of 100–150 mL	Increase 50–100 mL daily	Switch to Intermittent or Continuous Feeding if not tolerated

Dietary Management of Diarrhea:*

Banatrol Plus® – 1 pkt (10.75 g): 40 Cal, 9 g carbohydrate, 2 g fiber

Protein:

Pro-Stat® Sugar Free – 2 Tbsp (30 mL): 100 Cal, 15 g protein

Beneprotein® – 1 scoop or 1 pkt (7 g): 25 Cal, 6 g protein

Helps Build LBM to Support Healing:

Juven® (Unflavored) – 1 pkt (19.3 g): 70 Cal, 7 g L-glutamine, 7 g L-arginine, 1.5 g (CaHMB: calcium β-hydroxy-β-methylbutyrate)

Juven® (Flavored) – 1 pkt (24 g): 80 Cal, 7 g L-glutamine, 7 g L-arginine, 1.5 g CaHMB

Glutamine:

Glutasolve® – 1 pkt (22.5 g): 90 Cal, 15 g L-Glutamine

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Enteral Nutrition Adult (Tube Feeding) Quick Reference Guide

- Pharmacy consult.
 - Evaluate P.O. medication for liquid substitution.
 - For gastric feeding only: Reglan® administration.
- Weigh daily.
- STRICT intake & output (I&O).
- Keep head of bed at a 45-degree angle (minimum) unless contraindicated.
- If PEG, gastric tube, or NGT, check residuals every 4 hr.
 - If more than 500 mL, stop feeding for 2 hr, then recheck.
 - If residuals are still greater than 500 mL, stop feeding and call MD.
- Tube-clogging prevention.
 - Flush feeding tube every 4 hr with 30 mL of water or before and after intermittent feedings.
 - Flush feeding tube with at least 30 mL of water when feeding is stopped or after gastric residual volume is checked.
- Tube feeding clogged.
 - If tube-clogging prevention measures are unsuccessful after several attempts to flush with water, order Pancrealipase tablets crushed with 325 mg of sodium bicarbonate. Follow instructions on label. Notify MD if unresolved.
- Stop tube feeding and call physician if
 - Abdominal distension.
 - Nausea or vomiting.
- Re-consult dietitian to re-evaluate TF regimen for the following:
 - Persistent diarrhea (3–5 episodes).
 - Needs fluid restriction/feeding adjustments.
 - Tube-feeding substitution change.
- Tube-feeding/medication interaction (P.O. Meds only).
 - Dilantin® (phenytoin): Hold feeding 1 hr before and 1 hr after administration.
 - Cipro®, Levaquin®, Avelox® (fluoroquinolone): Hold feeding 1 hr before and 2 hr after administration.
 - Coumadin® (warfarin): Hold feeding 1 hr before and 1 hr after administration.

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CATHOLIC HEALTH
INITIATIVES

Memorial Health Care System

MEDICAL NUTRITION FORMULARY

ORDERING INFORMATION

- Products listed in the formulary are readily available. To request non-formulary products, the form in the non-formulary request box at the nursing unit must be completed and returned to CSR. It may take several days for a non-formulary item to be procured.
- Orders are sent to CSR.

NUTRITIONAL ASSESSMENT

- A Registered Dietitian (R.D.) is available for consultation to assist with enteral feeding recommendations. Referrals can be made electronically or by calling:

495-8368 – Memorial Hospital
495-7125 – Memorial North Park
- A nutrition assessment is completed by a R.D. on all patients receiving enteral or parenteral nutrition.
- The nutrition assessment, including calories, protein, and fluid needs of the patient that are supplied by the medical nutritional formula, is documented in the electronic medical record.

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