

DOCTOR'S ORDERS Adult Parenteral Nutrition Daily Order Form

ADDRESSOGRAPH	

FOR PHARMACY USE ONLY						
Bag# Height	cm. Ideal Bo	ody Weight	_kg.			
Admission Weight	kg. BMI					
	All orders need to be	completed daily	and faxed	to the Pharmacy D	epartment	
		by 1800 to be	supplied by	2200	•	
	Central	Line/PICC	or	Peripheral	I ine	
Volume (will be maxir						
Volume (will be maxil	•	PPN volume	•		Jecilieu)	
	11 11/			_1111/24 110u13		
Non-Pro	tein Calories				Proteir	1
	ght when BMI ≥ 25, or based	on				≥ 25, or based on admission
	ight when BMI < 25)		-		eight when BM	
22 kcal/kg 25 kcal/kg	30 kcal/kg Other			1 gm/kg 1.2 gm/kg		2 gm/kg Other:
28 kcal/kg	Other			1.5 gm/kg		j Otilei.
Propofol Yes	No (Propofol = 1.1 kcal/ml	. Adjust Carbohydra	ate/Lipid Ratio	below AND decrease	Non-Protein	calories <i>above.</i>)
					1	
	Carbohydrate					
	CENTRAL LIN	IE (TPN)		RAL LINE (PPN)		
	70% / 30%		40% / 60	%		
	60% / 40% 50% / 50%					
	50% / 50%					
	Other					
STANDARD A			CUS	STOM MIX (See	Table II o	on back of form)
Sodium Chloride	70mEq /day		Sodium Ch	loride	m <u>E</u>	Eq/day
Sodium Acetate* Potassium Chloride	ØmEq 40mEq /day		Sodium Ace Potassium	Chloride	mF	Eq/day Eq/day
Potassium Acetate*	ØmEg		Potassium /	Acetate*	mE	Eq∕daý
Magnesium Sulfate Calcium Gluconate	10mEq /day 10mEq /day		Magnesium Calcium Gli	uconate	mE mE mE mM	Ēq/day Ēq/day
Sodium Phosphate	10mEq /day 10mMol /day		Sodium Pho	osphate	m/	∕lól /ďay
Potassium Phosphate MVI	20mMol /daý daily		Potassium MVI	Phosphate		Mol /daỹ aily
Trace Minerals	dailv	ived Amine Asid fo	Trace Mine	rals	da	aily
OTHER ADDITIVE		ixed Amino Acid fo			`	
OTHER ADDITIVE	.5 (For insulin rec	ommendations	see Table I	II ON DACK OF FORM	1)	
Famotidinem Humulin R ur	g/day As	scorbic Acid tamin K	mg/day			mg/aay
Trumum X ui	iits/day vi	(aniin K	_ ilig/uay	Other		
		MONI	TORING			
	(order on first TPN/PPN a		n Cardex). Dis	continue when TPN/P	PN is discont	tinued.
	Comprehensive metabolic					
 b. Day 1, Day 6, then every 7 days: Triglycerides, Prealbumin c. Day 1 and every Monday and Thursday: Ionized calcium, Phosphorus, Magnesium 						
c. Day 1 and every Monday and Thursday: Ionized calcium, Phosphorus, Magnesium d. Daily: Metabolic panel (Chem 8)						
e. Day 6, then every 7 days: Hepatic function panel						
2. Dietitian consult						
3. Daily weight, intakes/outputs						
	d glucose every 6 hours					
	ulin (per physician order) order, start at ½ of the final	rate for the first & he	ure: advance:	rate as tolerated		
	gnature			ale as ioleraleu	_Date	Time
				/ RN		
	rinted signature		เพอเฮน มา	/ RN		(Signature)



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Table I Ideal Body Weight Table (IBW)***						
Male		Ideal		Female		Ideal
height		weight		height		weight
5'	(152cm)	48.2kg		4'10"	(147cm)	40.9kg
5'1"	(155cm)	50.9kg		4'11"	(150cm)	43.2kg
5'2"	(158cm)	53.6kg		5'	(152cm)	45.5kg
5'3"	(160cm)	56.3kg		5'1"	(155cm)	47.8kg
5'4"	(163cm)	59kg		5'2"	(158cm)	50.1kg
5'5"	(165cm)	61.7kg		5'3"	(160cm)	52.4kg
5'6"	(168cm)	64.4kg		5'4"	(163cm)	54.7kg
5'7"	(170cm)	67.1kg		5'5"	(165cm)	57kg
5'8"	(173cm)	69.8kg		5'6"	(168cm)	59.3kg
5'9"	(175cm)	72.5kg		5'7"	(170cm)	61.6kg
5'10"	(178cm)	75.2kg		5'8"	(173cm)	63.9kg
5'11"	(180cm)	77.9kg		5'9"	(175cm)	66.2kg
6'	(183cm)	80.6kg		5'10"	(178cm)	68.5kg
6'1"	(185cm)	83.3kg		5'11"	(180cm)	70.8kg
6'2"	(188cm)	86kg		6'	(183cm)	73.1kg
6'3"	(191cm)	88.7kg		6'1"	(185cm)	75.4kg
6'4"	(193cm)	91.4kg		6'2"	(188cm)	77.7kg

Table II Usual electrolyte requirements In 70kg adult with normal renal function*			
Sodium	70-140mEq/day		
Potassium	70-140mEq/day		
Magnesium	10mEq/day		
Calcium	10mEq/day		
Acetate**	As needed for acid-base balance		
Chloride	As needed for acid-base balance		
Phosphorus 30mMol/day			
*Derived from ASPEN Safe Practices, 1998			
**Amino Acid formula contains Acetate			
***Derived from Nutrition Standards of Practices &			
Evidence Based Practice Guidelines (IBW)			
Men = 48.2kg for 5ft + 2.7kg for each inch > 5ft			
Women = 45.5kg for 5ft + 2.3kg for each inch > 5ft			

Table III Estimated insulin requirements for carbohydrate coverage

The ratio shown in this formula is 0.1 unit of insulin/gram of dextrose.

- 1. (Ideal wt./admission wt.) x (non-protein calories/kg) = Total non-protein calories Example: 70kg x25 non-protein calories/kg = 1750 total non-protein calories
- 2. (Total non-protein calories) x (% of carbohydrate from non-protein calories) = Non-protein calories from Carbohydrates

Example: 1750 total non-protein calories x 30% = 525 non-protein calories from carbohydrates

- 3. (Non-protein calories from carbohydrates) ÷ (3.4 calories/gram of carbohydrate) = grams of dextrose/carbohydrate Example: 525 ÷ 3.4 = 154g of dextrose
- 4. (Grams of dextrose) x (0.1 units of insulin) = units of insulin needed to cover grams of dextrose/carbohydrate Example: 154g dextrose x 0.1 units = 15 units of insulin
- ▶ This Formula is only a suggested starting point for the addition of insulin to the TPN order.
- The dosages should be adjusted based on the patient's blood sugars monitored every 6 hours until glucose levels are <200mg/dl.

Table IV Trace Minerals include:

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Zinc	1 mg
Copper	0.4 mg
Manganese	0.1 mğ
Chromium	4 mcg
Selenium	20 mcg

Monitoring:

According to the Pharmacy and Therapeutics Committee ruling from November 2005, all TPN/PPN laboratory data within the TPN/PPN panel will be ordered for every TPN/PPN regardless of denotations made by the ordering physician on the Adult Parenteral Nutrition Daily Order Form. Monitoring orders are adapted from The Science and Practice of Nutrition Support. A Case-Based Core Curriculum, 2001, American Society for Parenteral and Enteral Nutrition.

