



**TOTAL PARENTERAL NUTRITION
ORDERS**

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IMPRINT PATIENT PLATE WITHIN THIS BOX

FAX ORDERS TO PHARMACY ASAP

Total Parenteral Nutrition

Allergies: _____ **Ht:** _____ **Wt:** _____

Please Indicate Route: Central Line/PICC Line Peripheral Line (Dilute bag with sterile water to Dextrose concentration of 10%)
(Check one)

Indication for TPN: Bowel Obstruction Fistula/Abscess Ileus Inflammatory Bowel Disease
(Check one) Malabsorption/Maldigestion Pancreatitis Short Bowel
 Other: _____

Please check one below or fill in the Custom Column – Quantities are a 24 hour supply.

	<input type="checkbox"/> Standard	<input type="checkbox"/> Renal	<input type="checkbox"/> Liver	Custom
Amino Acids	1.5 GM/Kg	1 GM/Kg	1 GM/Kg	GM/Kg
Dextrose	4 GM/Kg	4 GM/Kg	4 GM/Kg	GM/Kg
Calcium	12 mEq	12 mEq	12 mEq	mEq
Magnesium	16 mEq	0 mEq	16 mEq	mEq
Sodium	80 mEq	20 mEq	40 mEq	mEq
Potassium	80 mEq	0 mmol	70 mEq	mEq
Phosphate	20 mmol	0 Meq	20 mmol	mmol
Acetate	50 mEq	10 mEq	40 mEq	Min max balance
Chloride	80 mEq	10 mEq	40 mEq	Pharmacy to Adjust
Multivitamins (Infuvite Adult_	10mL (100% RDA)	10mL (100% RDA)	10mL (100% RDA)	mL
Trace Elements (MTE-5 Conc.)	1 ml (100% RDA)	1 ml (100% RDA)	1 ml (100% RDA)	mL
Lipids	1 GM/Kg	1 GM/Kg	1 GM/Kg	GM
Insulin	Units	Units	Units	Units

Routine TPN Orders: (See Next Page for Additional Information including Wt. Calc.) TPN Rate: _____ ml/hr

- Nutrition consult and monitoring. Pharmacist to adjust TPN per dietician's recommendations
- Initial TPN rate at 30ml/hour for 12 hours. If no evidence of refeeding shifts after 12 hours, increase rate to goal.
** See next page for definition of refeeding syndrome

- Daily weights every AM
- 24 hour urine collection for UUN every Sunday (Starting at 0400)
- Prealbumin, CRP & Triglyceride prior to Initiation of TPN on day 1, then every Monday & Thursday
- CMP, Mag, Phos on day 1, day 2. and day 3, then twice weekly on Monday & Thursday
- Infuse 10% Dextrose at same rate for any delay in TPN
- Blood Glucose to be checked every 6 hours.

For non-critical care patients, if Blood Glucose greater than 180. call MD for insulin orders
For critical care patients (including PCU), if Blood Glucose greater than 120mg/dL.

Start Insulin Infusion Orders (place signed copy in chart) Call MD for Insulin Orders

- Discontinue Routine TPN orders and Labs after TPN discontinued

Additional TPN
Orders: _____

Physician's Signature: _____ Date/Time: _____



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Ward Clerk Signature: _____ Date/Time: _____ Nurse's Signature: _____ Date/Time: _____

TPN INFORMATION SHEET

- Calculating patient's weight for TPN:
Use Actual Body Weight for all TPNs unless Actual Body Weight is greater than 120% of Ideal Body weight (IBW)
Then use Adjusted body weight based on the formula below:

Adjusted Body Weight: (Actual Body Weight – IBW) X 0.25 + IBW

Maximum Allowable Calcium & Phosphate Concentrations In Amino Acid (AA) Solutions*				
	AA 1-2%	AA 2.1-3%	AA 3.1-4%	AA 4.1% or greater
Ca mEq/L	P mmol/L	P mmol/L	P mmol/L	P mmol/L
2	35	40	40	40
5	12	40	40	40
8	7	15	20	30
10	5	10	15	20
12	3	8	10	15
15	3	6	8	9
18	0	5	5	7
20	0	0	5	7
22	0	0	0	6
25	0	0	0	5
28	0	0	0	0

* If the Amino Acid concentration is less than 1%, only one of the following minerals (Ca, Phos, Mg) can be added to the TPN solution. If the amount of Ca or Phos to be added to the solution is between two numbers listed on this table, choose the corresponding amount at the next lower level.

Refeeding Syndrome:
Occurs when a patient is less than 85% of usual weight or has a recent history of significant weight loss or poor oral intake. Repeated drops in phosphate, potassium, calcium, and/or magnesium may occur, which are life-threatening. The TPN rate should not be increased to goal. Please contact Pharmacy & Clinical Nutrition immediately for appropriate adjustments and monitoring.

Composition of Trace Elements (MTE-5)	
Zinc	5 mg
Copper	1 mg
Manganese	0.5 mg
Chromium	10 micrograms
Selenium	60 micrograms

Maximum Dextrose-AA Combination	
Dextrose 10%	7.5% AA
Dextrose 15%	7% AA
Dextrose 20%	6.5% AA
Dextrose 25%	6% AA
Dextrose 30%	5% AA
Dextrose 35%	4.5% AA
Dextrose 40%	4% AA

Composition of MVI (Infuvite Adult)	
Vitamin A	3,300 International Units
Vitamin C	200 mg
Vitamin D	200 International
Thiamine (B ₁)	6 mg
Riboflavin (B ₂)	3.6 mg
Pyridoxine (B ₆)	6 mg
Niacinamide	40mg
Dexpanthanol	15mg
Vitamin E	10 International Units
Vitamin K	150 micrograms
Folic Acid	600 micrograms
Biotin	60 micrograms
Cyanocobalamin (B ₁₂)	5 micrograms

TPN Monitoring Guidelines	
CMP	Day 1, 2, & 3 then every Mon. and Thurs
Prealbumin	Prior to initiation on Day 1, then every Mon. & Thurs.
Triglyceride	Prior to initiation on Day 1, then every Mon. & Thurs.
24 hour UUN	Every Sunday
Weights	Daily
Blood Glucose	Every 6 hours