You are caring for the following clients

<table>
<thead>
<tr>
<th>Bed</th>
<th>Client report</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>72 y/o fem CVA day 2 PMH HTN, CAD, DM, A fib with a triple lumen catheter to the right internal jugular (RIJ) with an occlusive dressing dated for 7 days ago and an order to flushed unused ports as per hospital protocol whose IV infusing to the white port who has just received an order for TPN at 2pm.</td>
</tr>
</tbody>
</table>

1. Review the MD orders attached and identify what, if anything needs to be clarified:

2. What concerns arise due the timing of the orders?

3. What concerns arise to the client’s medical history?

4. What assessments should be made before initiating TPN?

5. What changes to the blood sugar monitoring and insulin orders should the nurse expect?

6. Review the procedures to restore patency to CVADS.
   Total Parenteral Nutrition

7. The TPN becomes available, perform baseline blood glucose monitoring and initiate TPN and lipids.

8. On repeated measure the client’s blood glucose is 450, what action would you take?
**SUFFOLK HOSPITAL**
*Department of Pharmacy*

Parenteral Nutrition Orders

**DATE:** ________________  **TIME:** ________________

1. A NEW ORDER MUST BE COMPLETED FOR ALL CHANGES.
2. RENEWALS MUST BE WRITTEN DAILY BEFORE 3 P.M.
3. NEW ORDERS WRITTEN AFTER 3 P.M. WILL BE STARTED THE FOLLOWING DAY.

### Parenteral Solutions

<table>
<thead>
<tr>
<th>XX☐ Standard Central Vein Formula (1020 calories) <strong>without electrolytes</strong></th>
<th>☐ Peripheral Formula (340 calories) <strong>without electrolytes</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>500 mL 50% Dextrose plus 500 mL 8.5% Crystalline Amino Acids (Final concentration 25% Dextrose and 4.25% Amino Acid)</td>
<td>500 mL 10% Dextrose plus 500 mL 8.5% Crystalline Amino Acids (Final concentration 5% Dextrose and 4.25% Amino Acid)</td>
</tr>
</tbody>
</table>

| ☐ Standard Central Vein Formula (1020 calories) **with electrolytes** | ☐ Peripheral Formula (245 calories) **with electrolytes (ProcalAmine®)** |
| (mEq/liter) Na⁺ 25; K⁺ 40; Mg²⁺ 8; Cl⁻ 33; Acetate 41; Ca²⁺ 5; Gluconate 5 | 1000 mL 3% Glycerol and 3% Amino Acids with Electrolytes (mEq/liter) Na⁺ 35; K⁺ 24; Mg²⁺ 5; Cl⁻ 41; Acetate 47 (mM/liter) Phosphate 3.5 |

| ☐ Renal Failure Formula Max 2400 mL/day (1190 calories) | ☐ Hepatic Formula (850 calories) |
| 500 mL 70% Dextrose plus 250 mL 5.4% NephrAmine® (Final concentration 47% Dextrose and 1.8% NephrAmine) | 500 mL 50% Dextrose plus 500 mL 8% HepatAmine® (Final concentration 25% Dextrose and 4% HepatAmine) |

### Orders Per 24 Hours

<table>
<thead>
<tr>
<th>Total Volume per 24 hrs</th>
<th>☐ 1 Liter</th>
<th>☐ 2 Liters</th>
<th>☐ 3 Liters</th>
<th>☐ 4 Liters</th>
</tr>
</thead>
</table>

Number of liters to contain electrolytes  ☐ 1 Liter  ☐ 2 Liters  ☐ 3 Liters  ☐ 4 Liters

Vitamin and mineral formulation  ☐ Yes  ☐ No  (MVI to one liter daily, Folic acid 1 mg, Zn 4 mg, Cu 1 mg, Mn 0.4 mg)

**If ADDITIONAL ELECTROLYTES are required, please order in this section:**

- Sodium Chloride  ______ mEq/liter
- Potassium Chloride  ______ mEq/liter
- Potassium Phosphate  ______ mEq/liter
- Magnesium Sulfate  ______ mEq/liter
- Other  _____________________________  (500 mg of magnesium sulfate = 4.06 mEq)

**ADDITIONAL ELECTROLYTES IN**  ☐ 1 Liter  ☐ 2 Liters  ☐ 3 Liters  ☐ 4 Liters

**REGULAR HUMAN INSULIN**  ______ 15  units per liter

**XX☐** 500 mL of 20% Fat Emulsion Today. (2 kcal./mL)

M.D. Signature:  Dr. Chocolate 2/2/09

R.N. (PLEASE PRINT)