

## 12.11 INTRAVENOUS INFUSION OF TOTAL PARENTAL NUTRITION (TPN) CCT PARAMEDICS

- These procedures/interventions shall only be performed by paramedics with CCT-P (Critical Care Transport-Paramedic) training and designation.
- Patients shall be placed and maintained on cardiac and pulse oximetry monitors during transport.
- Signed transfer orders from the transferring physician must be obtained prior to transport and must provide for maintaining the **Total Parental Nutrition infusion (TPN)** during transport.
- If medication administration is interrupted (infiltration, accidental disconnection, malfunctioning pump, etc.), the CCT-P may restart the IV line as delineated in the transfer orders.
- If the medication is infiltrated the CCT-P may **NOT** restart the infusion. **TPN may only be delivered through a central line.**
- The following parameters shall apply to all patients with pre-existing **TPN** infusions:
  1. **TPN** concentration will not exceed a 3:1 solution mixture.
  2. Infusion rates must remain constant during transport with no regulation of rate being performed by the CCT-P, except for the discontinuation of the infusion (e.g. as in case of infiltration).
  3. All patients who have insulin as part of the **TPN** solution shall have documentation of the most recent blood glucose level.
- Vital signs are to be monitored as indicated in the transfer orders, not less frequently than every 15 minutes.
- If pump failure occurs and cannot be corrected, the paramedic is to discontinue the Total Parental Nutrition infusion and notify the transferring physician or the base hospital physician if the transferring physician is not available.
- **TPN** solution with Lipid emulsion must be infused through special filtered intravenous tubing compatible with the CCT-P infusion device.
- **TPN** solution IV lines shall not be used for any medication or fluid administration.