

## **Clinimix 5/15 TPN Process:**

- 1. Determine if Appropriate: See Formweb for Guidelines and Indications of TPN**
- 2. Notify the physician:**
  - a. If tpn is inappropriate
  - b. If physician has not already been notified of shortage and current protein limitations
    - i. See excel file located on G drive in " TPN Stuff" folder for current physicians notified. Once notified, please add to this list the name and date the physician was notified
- 3. Use the new tpn calculator for Clinimix 5/15(Coming to formweb, now on G-drive under calculators and "tpn stuff"):**
  - a. Enter info at the top of calculator as usual
  - b. You will have options for:
    - i. Protein Goals:
      1. Will be minimal due to volume needed
      2. Smaller goals of 1.2 to 1.5 g/kg
      3. You will need to pick the highest protein goal with the appropriate volume and carbohydrate needs for your patient.
    - ii. Fat percentage(can use up to max of 1g/kg as needed, helpful to replace unwanted carb kcals)
    - iii. Initial CHO(this is for calculating day one tpn and other formulas that are not at goal rate) Day one should not contain more than 1 mg/kg/min(would prefer 0.6 to 0.8 mg/kg/min if possible)
    - iv. Calculator will show two formulas one that corresponds to initial CHO box and your 100% goal
    - v. Note: the box CHO(Extra) is for additional carbohydrates needed in excess of what the clinimix solution contains that corresponds to the protein amount ordered. You will not add additional carbs on day one or if this number is negligible.
    - vi. Calculator will also display fluid needs based on a 30 to 40 ml/kg formula to help guide you in volume assessments
- 4. The order sheet should be filled out:**
  - a. List the strength and volume of Clinimix to be used and include the grams of protein/day and the dextrose g/day
  - b. If any additional dextrose is needed add this number to the Dextrose Field then under that field put total of dextrose/day total (Clinimix plus extra)
  - c. Fill in the Lipids Field with grams per day of lipids needed.
  - d. Electrolytes are still per day. Clinimix 5/15 does not contain electrolytes. Proceed as usual. ( Note: Phosphorus/Calcium precipitation occurs faster with lower percent AA solution-so you will likely have to remove calcium for high phosphorus requirements)
  - e. You will have to submit tpn formula to Tim and contact him for a rate. The rate of the tpn may not be a whole number. They should round to only one decimal place if needed. (You may have numbers like 67.8 ml/hr. Please use this exact rate)
- 5. Home TPN transitions:**
  - a. Please be sure and try to contact the home infusion provider. Some infusion companies are able to provide full protein formulas. Please write an appropriate home tpn formula in this case. Discussing shortages early in the discharge process should be done.