

Supplies needed:

- TPN Bag
- TPN Additives
- 60 mL Syringe _____
- 10 mL Syringe _____
- 5 mL Syringe _____
- 3 mL Syringe _____
- 1 ml Syringe _____
- Filter Needle _____
- Needles – Size _____
- Curlin Pump(s)
- Curlin Tubing with 0.2 micron filter (white) for TPN
- Curlin Tubing with 1.2 micron filter (blue) for Lipids
- “C” Batteries and/or Curlin AC Adapter
- Y Connector Tubing
- Anti-siphon Valve
- Gloves
- Alcohol Pads
- Sharps Container

TPN Additives:

Multi-Vitamins	_____	mL	Bottle: Single Use	Mutli-Use
Vitamin K	_____	mL	Bottle: Single Use	Mutli-Use
Zantac	_____	mL	Bottle: Single Use	Mutli-Use
Vitamin C	_____	mL	Bottle: Single Use	Mutli-Use
Levocarnitine	_____	mL	Bottle: Single Use	Mutli-Use
Heparin (100 units/mL or 1000 units/mL)	_____	mL	Bottle: Single Use	Mutli-Use
_____	_____	mL	Bottle: Single Use	Mutli-Use
_____	_____	mL	Bottle: Single Use	Mutli-Use
_____	_____	mL	Bottle: Single Use	Mutli-Use
_____	_____	mL	Bottle: Single Use	Mutli-Use

ADDING ADDITIVES TO TPN:

1. Clean and set up your work area.
2. Wash hands with soap and water and gather supplies.
3. Take the TPN bag out of the refrigerator _____ hours before preparing the infusion.
4. The additives may be added to the TPN and left at room temperature up to _____ hours before the infusion is to begin.
5. Inspect the fluid in TPN bag to make sure it is not discolored or cloudy and the date is not expired and that it has your child’s name on it.
6. Lay the TPN bag on the clean surface, prop the end of the bag with the rubber stopper so it is not touching the surface.
7. Lay out additives with medication bags to verify correct doses to be drawn up.
8. Put gloves on and clean the rubber stopper on TPN bag with an alcohol pad for 15 seconds and allow it to air dry.
9. Draw up each additive per the prescription and compare it with the label on the bag it came in. Check the dosage again with the

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label on the TPN bag. Make sure the right patient, right medicine, right route, right time, and right dosage is marked on the bag.

10. If the additive is in a **vial** (bottle with rubber top):

- Remove the plastic protective cap and clean the top with alcohol pad for 15 seconds.
- In a syringe with a needle, draw up the same amount of air as the amount of medicine needed.
- Inject the air into the vial.
- With the needle still in the vial, turn the vial upside down and pull out the amount of medicine into the syringe ordered by your child's doctor.
- Check the label on the medicine and the TPN bag to make sure they are the same before you put the medicine into the TPN bag.

11. If the additive is in an **ampule** (all glass container):

- Wrap an unopened alcohol pad around the top of the ampule and snap the top off away from you.
- Take a syringe with a filter needle and insert it into the ampule and draw up the amount of medicine into the syringe ordered by your child's doctor.
- Once the correct amount of medicine is in the syringe, take the

filter needle off and replace with a regular needle.

- Check the label on the medicine and the TPN bag to make sure they are the same before you put the medicine into the TPN bag.

***Take special care not to puncture the bag with the needle while injecting the medicine.**

- Once the additive has been added to the TPN bag, gently knead the bag to mix the additive with the TPN.

PREPARING TPN AND LIPIDS FOR INFUSION:

1. Clean connection on the Y Connector with an alcohol pad.
2. Attach the tubing with the white filter to one side of the Y Connector and attach the tubing with the blue filter to the other side of the Y Connector.
3. Using the tubing with the white filter, spike the TPN bag and prime the TPN through the tubing until it comes to the end.
4. Using the tubing with the blue filter, spike the Lipid bag and prime the Lipid through the tubing until it comes to the end.
5. Add the anti-siphon valve to the end of the Y Connector.
6. Place the TPN tubing into the Curlin Pump labeled "TPN".
7. Place the Lipid tubing into the Curlin Pump labeled "Lipids".

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WHEN YOU ARE READY TO BEGIN THE INFUSION:

1. Wash your hands with soap and water.
2. Get the prefilled syringe of Normal Saline
3. Clean the end of the needleless cap on your child's line for 15 seconds with an alcohol pad. Allow the alcohol to dry, do not blow on cap.
4. Flush the line with Normal Saline.
5. Clean the cap with alcohol for 15 seconds and allow to dry.
6. Connect the IV tubing with the anti-siphon valve to the needleless cap on your child's line.
7. Turn the Power on both of the Curlin Pumps by pressing the "ON/OFF" button.
8. The Curlin Pump will go through a self test and then it will read "Program". Press "Yes".
9. The next screen reads "Repeat RX". Press "Yes". (*DO NOT select "Resume" unless the pump was paused to fix a problem like clearing the line of air or resolving an occlusion.)
10. The pump will then run through the preset settings of dose and rate.
11. Make sure all lines are unclamped and press "Run/Pause" button to begin infusion.

WHEN THE INFUSION IS COMPLETED:

1. Wash your hands with soap and water.
2. Push the "Run/Pause" button to place the pump on HOLD and then press the "ON/OFF" button to turn the pump OFF.
3. Clamp tubing.
4. Unscrew the anti-siphon valve from your child's needleless cap.
5. Clean the cap with alcohol pad for 15 seconds and allow it to dry.
6. Flush with Normal Saline and then with the Heparin.
7. Throw away the TPN bag, Lipid bag and tubing.

CURLIN PUMP TIPS:

- Once the yellow oval tab is broken off the tubing, you will need to depress the spring button on the yellow rectangle on the tubing to manually prime the TPN or Lipid. You could place tubing in the pump and let the pump prime the tubing.
- Always press "Run/Pause" button before turning off the pump.
- If the occlusion alarm beeps, press the "Run/Pause" button and check the tubing for crimps, kinks, or closed clamps. Work your way from the patient to the pump. Once the problem is fixed, press "Resume" to restart the infusion.

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