



# Administration of Total Parenteral Nutrition (TPN) or Central Parenteral Nutrition (CPN)

<https://www.youtube.com/watch?v=uMJEIbkToks>  
For additional education please contact your agency for assistance



## Four Steps for Performing Infusions:

- 1 Practice good hand-washing
- 2 Prepare supplies
- 3 Prepare TPN / additives / pump
- 4 De-access port

### STEP 1: PRACTICE GOOD HAND-WASHING

- Always remember to **WASH YOUR HANDS** for a full 20 seconds.

### STEP 2: PREPARE SUPPLIES

- Review your schedule to determine if you are infusing a fat bag or non-fat bag. Remove your medication from the refrigerator 2-4 hours before the infusion so that it can get to room temperature. Gather any additives you need.
- Check that your medication matches your orders. **WASH YOUR HANDS.** Clean workspace and SASH mat. **WASH YOUR HANDS.**
- Gather the following supplies and arrange **above** your SASH mat: 5-10 alcohol pads; 2 prefilled saline syringes; 1 prefilled heparin syringe (if ordered); 1 TPN bag, IV tubing; additives and supplies as noted; medication orders; 1 electronic pump; 1 carrier pouch; sharps container; small trash bag.
- WASH HANDS.** Unwrap supplies (syringes, medication bag, IV tubing) & place in correct location **on top** of the SASH mat.
- Remove any air bubbles from syringes and inspect the medication bag to make sure it matches your orders. Check the battery level on your pump. Prepare your TPN bag by removing the foil from the port. **WASH YOUR HANDS.**

### STEP 3: PREPARE TPN, ADDITIVES & PUMP

- Draw up additives and inject into the TPN bag. Remember to double check your orders and start with the smallest volume solution first. Be careful not to add any additional air to the bag by removing all extra air from the syringes. Gently swirl the bag. **WASH YOUR HANDS.**
- Unclamp all clamps on the IV line. Spike the TPN bag with the infusion tubing. Be careful to not penetrate the TPN bag.
- Turn the pump on. Load the cassette to the pump being sure it is secured. Open the slide clamp on the medication tubing. Invert the TPN bag and be sure all air has migrated to the top. Place pump on its side. Prime the tubing. Remove the cassette. Remove any additional air. Replace the cassette on the pump and prime it again.
- WASH HANDS.** Scrub the hub: clean the end cap (hub) by wrapping an alcohol pad over & around the hub for 15 sec.
- Flush your IV line with saline ("pulse flush"). Remove the empty saline syringe from the IV line. **WASH YOUR HANDS.**
- Scrub the hub. Connect your pump tubing to the hub of your IV line using a "push and twist" motion.

### STEP 4: START AND STOP INFUSION

- Make sure the settings match your orders. Press the "YES" when "Start Pump?" is noted on the screen. You will note the green "Running" on the screen confirming the infusion has begun. The pump will beep when 5 ml left in the bag. Select acknowledge to clear alarm.
- When the pump alarms, hit the Red/Green "Stop/Start" button. Turn the pump off using the power switch on the side. **WASH YOUR HANDS.** Disconnect from your IV line and be careful not to remove the blue end cap from the hub.
- Scrub the hub. Flush your line with saline. Scrub the hub and flush with heparin if it is on your orders.
- Remove the cassette and discard the empty TPN bag and tubing. Plug in the electronic pump to charge it. **WASH HANDS.**