

# Adding Additives to Your TPN or Hydration Infusion

## Gather Supplies

- ✓ Ordered medication vial or ampule
- ✓ Syringe(s)
- ✓ Needle(s)
- ✓ Alcohol or antiseptic wipes
- ✓ Filter needle (only needed if medication is in an ampule)
- ✓ Sharps container

**NOTE:** Before gathering your supplies, be sure to review the TPN label to determine what (if any) additives should be added to the bag.

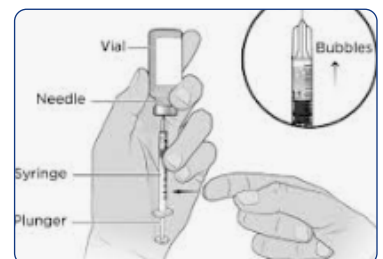
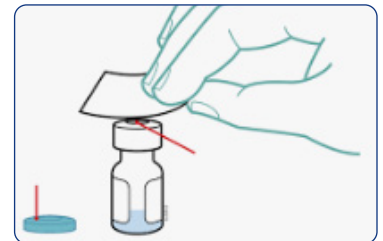
## Step 1 - Preparing an Additive Stored in a VIAL

- Remove the vial cap and clean the top of the vial with an alcohol pad for 30 seconds, allowing it to air dry completely.
- Select appropriate syringe (determined by amount of additive in the vial; for insulin use insulin syringe) and needle per instructions.
- Attach the needle to the syringe.
- Pull air into the syringe equal to the volume of fluid to be withdrawn.

**Example:** One Multivitamin vial contains 5 ml of liquid, so would pull back to 5ml line on syringe.

- Insert needle into center of rubber stopper on the vial.
- Gently push the air into the vial.
- Keeping the needle inserted into the vial, turn the vial upside down, then pull back on the plunger to remove the amount of liquid medication that equals the dose of the medication prescribed.

**Note:** If adding multivitamins and two vials exist, the same syringe may be used for both vials. Insert required amount of air into each vial.



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- h. Remove the syringe from the vial.
- i. Remove any air by pointing the syringe straight up and gently tapping on the plunger.
- j. Carefully recap the needle and set the syringe to the side.
- k. If no further additives are ordered, go to Step 3.



## Step 2 - Preparing an Additive Stored in an AMPULE

- a. Gently tap on the ampule with your finger to ensure the Additive or liquid medication is at the bottom part of the ampule.
- b. Clean the top of the ampule with an alcohol pad and then wrap the alcohol pad around the top of the ampule.
- c. Snap off the top of the ampule using a finger and thumb, by snapping away from you.
- d. Discard the top portion of the ampule in a sharps container.
- e. Place the ampule upright on a flat surface.
- f. Select the appropriate syringe and a filtered needle
- g. Attach the filtered needle to the syringe and insert the needle into the opening of the ampule.
- h. Pull back on the plunger to remove the amount of the Additive or liquid medication ordered.
- i. Remove the syringe from the ampule.
- j. Remove any air by pointing the syringe straight up (needle side up) and gently tapping on the plunger.
- k. Carefully place the cover back on the filter needle and remove the filter needle from the syringe and place in a sharps container.
- l. Place a new non-filtered needle onto the end of the syringe before adding it to the medication bag.
- m. Carefully recap the needle and set the syringe to the side.
- n. If no further additives are ordered, go to Step 3.



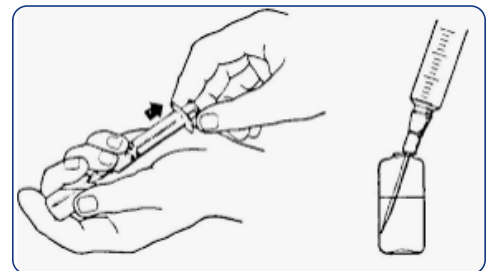
Tapping moves fluid down neck



Gauze pad placed around neck of ampule



Neck snapped away from hands



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## Step 3 - Inserting Additives or Medications into Bag

- Scrub the latex diaphragm on the bag of solution with an alcohol pad for 30 seconds and allow it to completely air dry.
- Remove the needle cover from the needle on the syringe of the prepared medication.
- Insert needle into the center of the latex diaphragm of the injection port on TPN or hydration bag. Do not puncture the bag. If the bag is punctured, do not use it.
- Inject all Additives or medications into the bag.
- Remove the needle from the bag and discard the needle and syringe into a sharps container.
- Gently roll or knead the bag to mix the Additives or medications in the solution. Do not shake.



## Step 4 - Properly Dispose of Used Supplies

Remember to properly dispose of **ALL sharp objects, needles, vials or ampules** into a sharps container provided by the infusion pharmacy.



**NOTE:** If multiple Additives are ordered, then repeat the procedure for each additive or liquid medication per physician or allowed practitioner order.