# Icon of an iv drip Icon of infusion bagFour Steps for Performing Infusions:



Performing Home Infusions with an

Elastomeric (Eclipse) Device

### Use this teach sheet to walk you through your infusions. Check with your home infusion nurse to see whether any steps do not apply to you.

# PRACTICE GOOD HAND-WASHING 2- PREPARE SUPPLIES 3- PREPARE IV LINE 4 START AND STOP INFUSION

**Medication(s) to infuse:**

Time to Infuse:

Time to Infuse:

**Home Infusion Nurse (name, #):**

**Home Infusion Pharmacist (name, #):**

| ****STEP 1: PRACTICE GOOD HAND-WASHING**** |
| --- |
| Always remember to WASH YOUR HANDS for a full 20 seconds.   * Soap and water is always preferred (hand sanitizer optional). * Make it a habit to wet your hands, apply soap, and lather for 20 seconds (hum the Happy Birthday song twice). * If using hand sanitizer, rub a dime-sized amount between your hands until dry. Never wave or blow on your hands to speed up drying. * Remember, if you are using gloves, you must still wash your hands. * Washing your hands helps reduce your chance of infection. |

|  |
| --- |
| ****STEP 2: PREPARE SUPPLIES**** |
| Note the time to start the infusion:       AM / PM Additional doses: |
| Note the amount of time your medication should be left at room temperature:       MIN HR NA |
| Note the time to remove the medication from refrigerator (if refrigerated):       AM PM NA   * Remove medication from refrigerator BEFORE the infusion. * Your medication will infuse at the correct rate if administered at room temperature. * Do NOT attempt to warm the medication. |

|  |
| --- |
| ****STEP 2: PREPARE SUPPLIES (CONTINUED)**** |
| Double-check your medication to confirm the following information before the infusion:   * \_\_\_ Medication has my name and date of birth. * \_\_\_ Medication name is correct. * \_\_\_ Medication dose is correct. * \_\_\_ Medication is not expired. * *If any of this information is incorrect, stop and call your home infusion pharmacist immediately.* |
| WASH YOUR HANDS.   * Soap and water are preferred (hand sanitizer optional). * Wash for 20 seconds (hum the Happy Birthday song twice) or rub with hand sanitizer until your hands are dry. |
| Clean your workspace and SAS/H mat with alcohol pads, sanitizing wipes, or cleaning solution with paper towels.   * Select a dry, hard work surface to set up your medication and supplies. |
| WASH YOUR HANDS.   * Soap and water are preferred (hand sanitizer optional). * Wash for 20 seconds (hum the Happy Birthday song twice) or rub with hand sanitizer until your hands are dry. |
| Gather the following supplies and place on your workspace (do not put on top of your SAS/H mat yet):   * \_\_\_ 4—5 alcohol wipes (to clean your supplies and hub (IV line tip)) * \_\_\_ 2 saline syringes (to clear your IV line and remove any leftover medication) * \_\_\_ 1 heparin syringe (to clear your IV line and prevent blockage; your nurse will tell you if you need it) * \_\_\_ 1 medication-filled medication ball (at room temperature) * \_\_\_Medication orders (to confirm the medication is infusing within the infusion time prescribed in your orders) |
| Arrange your alcohol wipes, syringes, and medication above your SAS/H mat in their respective location. Do not place any of these items on top of your SAS or SASH mat yet.   * “S” = Saline * “A” = Administer or Antibiotic (your elastomeric device) * “S” = Saline * “H” = Heparin if prescribed (most patients do not need heparin) |
| WASH YOUR HANDS.   * Soap and water are preferred (hand sanitizer optional). * Wash for 20 seconds (hum the Happy Birthday song twice) or rub with hand sanitizer until your hands are dry. |
| Unwrap both saline syringes and the heparin syringe. Place the syringes in the correct location on top of your SAS/H mat. |
| Remove your medication ball from the plastic wrapping. Place the medication ball in the correct location (“A”) on top of your SAS or SASH mat. |
| Inspect the medication ball for any leaks, damage or discoloration. The medication should be clear. |
| Remove any paper tabs from the medication ball tubing. Keep the clamp on the eclipse ball tubing closed. |
| Sit down to prepare your IV line. |

| ****STEP 3: PREPARE IV LINE**** |
| --- |
| WASH YOUR HANDS.   * Soap and water are preferred (hand sanitizer optional). * Wash for 20 seconds (hum the Happy Birthday song twice) or rub with hand sanitizer until your hands are dry. |
| Check the unwrapped syringes for any air bubbles. If there are air bubbles, do the following:   * \_\_\_ Remove the protective cap from the syringe on the first “S” of your SAS/H mat and place the cap flat-side down on your SAS/H mat. * \_\_\_ Hold the syringe with the end up and plunger at the bottom. * \_\_\_ Pull back on the syringe plunger slightly to break the seal. You will be able to see the air bubble in the syringe. * \_\_\_ Slowly push the plunger to let the air bubble out. Do not put the syringe down. |
| ‘Scrub the hub.’ Clean the end cap (hub) by wrapping the alcohol square over and around the sides for at least 15 seconds with a scrubbing motion. Then let it dry.   * Use the first alcohol wipe above your SAS/H mat (the one before the first “S”). * Once you have cleaned the hub, hold the hub with two fingers. Keep the hub from touching anything else. * If your hub touches anything, wash your hands and scrub the hub again with a new alcohol square*.* |
| Flush your IV line with saline (“pulse flush”):   * \_\_\_ Hold the hub in one hand. Grasp the saline syringe with your other hand. * \_\_\_ Screw the syringe onto the hub using a “push and twist” motion. It’s like putting a key into an ignition. * \_\_\_ Once the syringe is connected to the hub, open the clamp on your IV line and slowly push 1 to 2 mL of saline at a time. Stop and push 1 to 2 mL more. Repeat this “pulse flush” until the saline syringe is empty. Flushing this way each time helps keep your IV line from getting clogged. * \_\_\_ If you have trouble flushing your IV line, make sure the clamp on your IV line is open. *If your clamp is open and you are still having trouble, stop and call your home infusion nurse.* |
| Remove the empty saline syringe from your IV line. Throw it away. Do not remove the hub from your IV line. |
| Before connecting your medication tubing to the hub of your IV line, double-check the three questions found across the top of your SAS/H mat.   1. Did you check the prescription? 2. Did you check the expiration or “Do Not Use After” date? 3. Did you wash your hands? |
| WASH YOUR HANDS.   * Soap and water are preferred (hand sanitizer optional). * Wash for 20 seconds (hum the Happy Birthday song twice) or rub with hand sanitizer until your hands are dry. |
| ‘Scrub the hub’ of your IV line with a NEW alcohol square for at least 15 seconds.   * Use the second alcohol wipe above your SAS/H mat (the one before the “A”). * Once you have cleaned the hub, hold the hub with two fingers. Keep the hub from touching anything else. * If your hub touches anything, wash your hands and scrub the hub again with a new alcohol square. |
| Connect your medication ball tubing to the hub of your IV line:   * \_\_\_ Hold the hub in one hand. Find the end of the medication tubing. Remove the medication tubing cap. * \_\_\_ Connect the medication tubing to the hub of your IV line. Use the same “push and twist” motion as before. |

| ****STEP 4: START AND STOP INFUSION**** |
| --- |
| Open the clamps on your IV line and medication ball tubing. |
| Rest and relax! The time it takes your medication to infuse is based on the time prescribed by your doctor and on the medication temperature. You will know your infusion is complete when no bulges are present in the inner column of the ball. The balloon inside the ball will deflate.   * If your medication is not infusing in the time prescribed in your medication orders, then *contact your home infusion nurse or pharmacist.* |
| Once your infusion is complete, WASH YOUR HANDS.   * Soap and water are preferred (hand sanitizer optional). * Wash for 20 seconds (hum the Happy Birthday song twice) or rub with hand sanitizer until your hands are dry. |
| Close the clamp on the medication ball tubing to stop the infusion. |
| Disconnect your medication tubing from your IV line. Grasp the end cap (hub) of your IV line with one hand while using your other hand to unscrew the tubing. Do this until it is disconnected from the hub. Do not remove the hub from your IV line. Throw the ball and tubing in the trash. |
| Check the unwrapped syringes for any air bubbles. If there are air bubbles, do the following:   * Remove the protective cap from the syringe on the first “S” of your SAS/H mat and place the cap flat-side down on your SAS/H mat. * Hold the syringe with the end up and plunger at the bottom. * Pull back on the syringe plunger slightly to break the seal. You will be able to see the air bubble in the syringe. * Slowly push the plunger to let the air bubble out. Do not put the syringe down. |
| ‘Scrub the hub’ of your IV line with a NEW alcohol square for at least 15 seconds.   * Use the third alcohol wipe above your SAS/H mat (the one before the second “S”). * Once you have cleaned the hub, continue to hold the hub. Do not let it touch other surfaces. * *If your hub does touch anything, wash your hands and scrub the hub again with a new alcohol square.* |
| Flush your IV line with saline (“pulse flush”):   * Hold the hub in one hand. Grasp the saline syringe on the first “S” of your SAS/H mat with your other hand. * Remove the protective cover on the saline syringe. Screw the syringe onto the hub using a “push and twist” motion. It’s like putting a key into an ignition. * Once the syringe is connected to the hub, open the clamp on your IV line and slowly push 1 to 2 mL of saline at a time. Stop and push 1 to 2 mL more. Repeat this “pulse flush” until the saline syringe is empty. Flushing this way each time helps keep your IV line from getting clogged. * If you have trouble flushing your IV line, make sure the clamp on your IV line is open. *If your clamp is open and you are still having trouble, stop and call your home infusion nurse.* |
| Remove the empty saline syringe from your IV line. Throw it away. Do not remove the hub from your IV line. |
| If you are not using heparin, close the clamp on your IV line. WASH YOUR HANDS for 20 seconds. |

|  |
| --- |
| **STEP 4: START AND STOP INFUSION **(CONTINUED)**** |
| If you are using heparin, clear the air bubbles as you did with the saline. Then flush your IV line with heparin (“pulse flush”):   * Hold your hub in one hand. Grasp the heparin syringe on the “H” of your SAS/H mat with your other hand. * Remove the protective cover on the heparin syringe. Screw the syringe onto the hub using a “push and twist” motion (like putting a key into an ignition). * Check that the clamp on your IV line is open. Slowly push 1 to 2 mL of heparin at a time. Stop and push 1 to 2 mL more. Repeat this “pulse flush” until the heparin syringe is empty. * If you have trouble flushing your line, check to make sure the clamp on your IV line is open. *If your clamp is open and you still have difficulty, stop and call your home infusion nurse.* |
| Remove the heparin syringe from your IV line. Throw it away in your regular trash. Do not remove the hub from your IV line. |
| Close the clamp on your IV line. |
| WASH YOUR HANDS.   * Soap and water are preferred (hand sanitizer optional). * Wash for 20 seconds (hum the Happy Birthday song twice) or rub with hand sanitizer until your hands are dry. |
| Congratulations! You have successfully infused your medication! |

***Disclosure:*** *This project was funded under grant R01HS027819 from the Agency for Healthcare Research and Quality (AHRQ), U.S. Department of Health and Human Services (HHS). The authors are solely responsible for this document’s contents which should not be interpreted as an official position of AHRQ or of HHS.*