Four Steps for Performing Infusions:

1. Practice good hand-washing
2. Prepare supplies
3. Prepare IV line
4. Start and stop infusion

Medication(s) 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 when instructed.
  ❖ Soap and water is always preferred. If soap and water are not available, hand sanitizer is acceptable.
  ❖ 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

☐ Note the amount of time your medication should be left at room temperature: _________ MIN  HR  NAP

☐ Note the time to remove the medication from refrigerator (if refrigerated): ___________ AM  PM  NAP
  ❖ Remove medication from refrigerator BEFORE the infusion. Follow your medication recommendations.
Your medication will infuse at the correct rate if administered at room temperature. If administered while cold, you will feel the medication as it infuses AND the infusion may take longer.

Do NOT attempt to warm the medication by other means.

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 if soap and water are not available.
- Wash for 20 seconds (hum the Happy Birthday song twice) or rub with hand sanitizer until your hands are dry.

Clean your workspace and SASH mat with cleaning solution (alcohol/sanitizing wipes or Lysol + 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 if soap and water are not available.
- 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 SASH mat yet):

- 4—5 alcohol pads (to clean your supplies and hub (IV line tip)
- 2 prefilled saline syringes (to clear your IV line and remove any leftover medication)
- 1 prefilled heparin syringe (to clear your IV line and prevent blockage; your nurse will tell you if you need it)
- Medication bag (kit of two at room temperature)
- Medication orders (to check the rate needed to infuse your medication)
- 2 set of dial-a-flow tubing (can be reused within a 24-hour period for infusions with the SAME medication)
- 1 IV pole (to hang your IV medication from)

Arrange your alcohol pads, wrapped prefilled syringes, medication bag and dial-a-flow tubing above your SASH mat in their respective location. Do not place any of these items on top of your SASH mat yet.

- “S” = Saline
- “A” = Administer or Antibiotic (includes your medication bag, dial-a-flow tubing and red cap)
- “S” = Saline
- “H” = Heparin

WASH YOUR HANDS.

- Soap and water are preferred, hand sanitizer optional if soap and water are not available.
- 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 (if prescribed). Place the syringes in the correct location on top of your SASH mat.

Check the unwrapped syringes for any air bubbles. If there are air bubbles, do the following:

- Remove the protective cap from the syringe and place the cap flat-side down on your SASH 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 up to let the air bubble out.
Once the air is removed, pick up the protective cap from the table and put the cap back on the end of the syringe. Place the syringe back in its spot on the SASH mat. Repeat for the other syringes.

- Remove your medication bags from the plastic wrapping. Place the unwrapped medication bag over the “A” on top of your SASH mat.
- Remove the dial-a-flow tubing from the plastic wrapping. Close the clamp on the dial-a-flow tubing and place over the “A” on top of your SASH mat.
- Do not unwrap the red cap yet. Keep it above the “A” on your SASH mat.
- Raise your IV pole as high as it goes.

- ‘Spike the bag’ in order to attach the dial-a-flow tubing to your medication bag (you will spike both bags at this time):
  - Turn the dial (called a flow-regulator) on your dial-a-flow tubing until the green line is on “open.”
  - Pull the plastic protective tab off the medication bag. Just pull. Do not twist.
  - Remove the clear protective cap from the spike (located on your dial-a-flow tubing).
    - Make sure the spike does not touch anything. If the spike touches anything, throw that tubing set away and begin again with a new tubing set.
  - Insert the tubing spike into the medication bag (where the tab was removed).
    - Use a “push and twist” motion (like putting a key into an ignition).
    - You will know the bag is spiked when you see the tip of the spike in the medication bag. You can confirm the bag is spiked by squeezing the chamber to add medication to the chamber.

- WASH YOUR HANDS.
  - Soap and water are preferred, hand sanitizer optional if soap and water are not available.
  - Wash for 20 seconds (hum the Happy Birthday song twice) or rub with hand sanitizer until your hands are dry.

- Remove all the air in the dial-a-flow tubing by running fluid through it from the medication bag. You will need to do this to both bags. This is called priming the tubing:
  - Hang the medication bag on the IV pole.
  - Squeeze the drip chamber until it fills halfway.
  - Open the white clamp on the dial-a-flow tubing. The medication will run through the dial-a-flow tubing.
  - Close the white clamp on the dial-a-flow tubing as soon as you see medication drip out of the end.
  - Change the dial-a-flow rate from “open” to the rate on your medication orders. Rate: __________

- Get comfortable to prepare your IV line.

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**STEP 3: PREPARE IV LINE**

- WASH YOUR HANDS.
  - Soap and water are preferred, hand sanitizer optional if soap and water are not available.
- Wash for 20 seconds (hum the Happy Birthday song twice) or rub with hand sanitizer until your hands are dry.

- ‘Scrub the hub.’ Clean the end cap (hub) by wrapping the alcohol pad over and around the sides for at least 15 seconds.
  - Use the first alcohol pad above your SASH 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 pad.

- Flush your IV line with saline (“pulse flush”):
  - Hold the hub in one hand. Grasp the saline syringe on the first “S” of your SASH 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.

- Before connecting your dial-a-flow tubing to the hub of your IV line, double-check the three questions found across the top of your SASH 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 if soap and water are not available.
  - 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 pad for at least 15 seconds.
  - Use the second alcohol pad above your SASH 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 pad.

- Connect your dial-a-flow 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.

- Before starting the infusion, make sure your IV pole is extended. This way, the medication bag stays your heart during the infusion.
- If the bag is below your heart, it can slow the infusion and cause blood to back up in the IV line. If you notice this, don’t panic. Stop and call your home infusion nurse for help.

☐ Open the clamps on your IV line and dial-a-flow tubing. Medication will begin to drip through the drip chamber.

☐ Adjust the rate on your dial if you have not done so already. Turn the numbers on the dial to match the rate on your medication orders.

☐ Rest and relax! The first bag of medication will infuse for a varying amount of time, depending on the time prescribed by your doctor and on how warm the medication was. When the drip chamber is less than half-full, you should stop the infusion by twisting the dial a flow to off.

☐ WASH YOUR HANDS.
  ❖ Soap and water are preferred, hand sanitizer optional if soap and water are not available.
  ❖ Wash for 20 seconds (hum the Happy Birthday song twice) or rub with hand sanitizer until your hands are dry.

☐ 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.

☐ Discard the used tubing in the trash

☐ Scrub the hub’ of your IV line with a NEW alcohol pad for at least 15 seconds.
  ❖ Use the second alcohol pad above your SASH 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 pad.

☐ Connect your dial-a-flow tubing of the second bag 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.

☐ Before starting the infusion, make sure your IV pole is extended. This way, the medication bag stays your heart during the infusion.
  ❖ If the bag is below your heart, it can slow the infusion and cause blood to back up in the IV line. If you notice this, don’t panic. Stop and call your home infusion nurse for help.

☐ Open the clamps on your IV line and dial-a-flow tubing. Medication will begin to drip through the drip chamber.

☐ Adjust the rate on your dial if you have not done so already. Turn the numbers on the dial to match the rate on your medication orders.

☐ Rest and relax! The second bag of medication will infuse for a varying amount of time, depending on the time prescribed by your doctor and on how warm the medication was. When the drip chamber is less than half-full, you should stop the infusion by twisting the dial a flow to off.
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.

Discard the used tubing in the trash.

**WASH YOUR HANDS.**
- Soap and water are preferred, hand sanitizer optional if soap and water are not available.
- 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 pad for at least 15 seconds.
- Use the third alcohol pad above your SASH 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 pad.*

Flush your IV line with saline again via the “pulse flush” method by doing the following:
- While holding your hub in one hand, grasp the saline syringe on the second “S” of your SASH 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 (like putting a key into an ignition).
- Once the syringe is connected to the hub, make sure the clamp on your IV line is open. 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.
- *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 empty saline syringe from your IV line using a gentle “twist and pull” motion. Throw it away in your trash. Be careful, and do not remove the hub from your IV line.

If you are not using heparin, close the clamp on your IV line and **WASH YOUR HANDS** for a full 20 seconds.

If you are using heparin, ‘scrub the hub’ of your IV line using a NEW alcohol pad for at least 15 seconds.
- Use the last alcohol pad above your SASH mat (the one before the “H”).
- Once you have cleaned the hub, hold the hub with two fingers to avoid contaminating the hub with other surfaces.
- *If your hub does touch anything, wash your hands and scrub the hub again with a new alcohol pad.*

Flush your IV line with heparin via the “pulse flush” method by doing the following:
- Hold your hub in one hand. Grasp the heparin syringe on the “H” of your SASH 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 empty heparin syringe from your IV line using a gentle “twist and pull” motion. Throw it away in your trash. Be careful, and do not remove the hub from your IV line.

Close the clamp on your IV line.
Make a habit to:

- Find a **CLEAN WORKSPACE** to perform infusions and store supplies.
- **WASH YOUR HANDS** for at **LEAST 20 seconds.**
  - Soap and water preferred (use hand sanitizer if soap or water are unavailable).
  - Hum the Happy Birthday song twice.
- **CHECK YOUR MEDICATION** to confirm:
  - Your name and date of birth **AND** the dose, expiration date and medication name.
- **REMOVE YOUR MEDICATION** from the refrigerator **BEFORE** the infusion.
- **FOLLOW THE SASH PROTOCOL:**
  - Saline flush → Administer medication → Saline flush → Heparin flush

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