

How to administer enteral nutrition using a Kangaroo Joey pump with a feed and flush bag

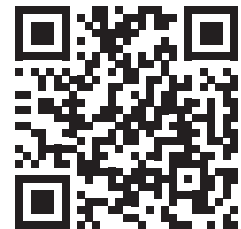
Supplies needed for infusion

- ☐ 60 ml syringe
- ☐ Feeding formula
- ☐ Feeding pump
- ☐ 1 Pump feeding with flush bag
- ☐ IV pole or backpack
- ☐ Water and container
- ☐ Clean towel or paper towels

Start infusion

1. Setting up for feeding pump for feed with flushing bag:
 - a. Wash your hands with warm soapy water for at least 20 seconds and dry thoroughly.
 - b. Clean your work area using a cleaning wipe or soap and water or lay down a clean towel to place supplies on.
 - c. Always keep the patient's head elevated at 30° to 45° (or higher) at the start of feeding and remain elevated throughout the duration of feeding. Once feeding is complete, patient should remain at a 30° to 45° angle for a minimum of 30 minutes.
 - d. Insert 60 ml syringe into the water container and pull up the amount of water needed to flush.
 - e. Open the feeding cap on your feeding tube, insert the syringe into the feeding tube at an angle, open clamp on tube (if present) and gently push the syringe plunger to allow water to slowly flush through the tube. Always flush with water prior to starting feeding to ensure the feeding tube is working.

**Training video
available!**



Scan the QR code using the camera
on your smart phone or tablet to
watch a quick instructional video.

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2. Load the feeding set: (see diagram)

- Open the blue door on top of pump to insert the feeding set (two bags with attached tubing).
- Thread the stretchy tubing around the black wheel and through the groove. The purple tab will be facing up. Close the blue door (lid will close easily if tubing loaded correctly).
- Shake the formula and wipe the lid off before opening.
- Fill the purple feed bag with formula. Gently squeeze the bag to remove most of the air and close the lid on top of bag.
- Fill the blue bag with ordered amount of water. Gently squeeze the bag to remove most of the air and close the lid on top of the bag.
- Hang both bags on IV pole.



Grasp thumb tab on valve and insert firmly into left pocket. Press down on thumb tab to ensure valve is fully seated. Thumb tab should align with slot in blue door. Blue door will not close if tab is not fully seated.



Grasp black ring retainer, gently wrap tubing around rotor, insert retainer directly into right pocket. **DO NOT OVERSTRETCH TUBING.**



Once the feeding set is loaded, close the door. The pump is now ready for normal operation.

3. To set up pump settings:

- Press the "Power" button in the lower right-hand corner to turn the pump on.
- In order to achieve proper accuracy, the fluid line in the feeding set must be six inches above the top of the feeding pump, when initiating the feeding cycle.
- Select → "Keep Settings" or → "Clear Settings"
 - "Keep Settings"** is for day to day use with the same feeding regime.
 - "Clear Settings"** is only selected for the initial set up and/or if your prescriber has ordered a change in the rate for your feeding and/or flush.

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- d. Select → “Adjust Feed” then → “Feed Rate” use the buttons on the left to program the pump from 1 to 400 in increments of 1 ml. Select → “Enter” when the desired rate is set.
- e. Select → “Adjust Flush” then → “Flush Volume” to set the volume of water per flush cycle to be administered from 10 to 500 in increments of 1 ml. Select → “Enter” when the desired rate is set.
- f. Select → “Flush Interval” to define the time interval between the start of each flushing cycle from 1 to 24 hours in increments of 1 hour. Select → “Enter” then select “Done”.
 - The “Volume To Be Delivered (VTBD)” Rate is an optional feature. It is not necessary to set the “VTBD” Rate for the pump to operate.

4. Priming the Pump

- a. Select → “Prime Pump” to access the pump priming options.
- b. Select → “Hold to Prime Flush”, keep holding until the water has run through the tubing and you can visualize the water in the tubing below the pump.
- c. Hold end of tubing over a cup or the sink, Select → “Hold to Prime Feed”, until the feeding reaches the end of the tubing, release button, then press → “Done”.

5. Starting the Feeding Pump:

- a. Select → “Run”. You will notice a small drop  scrolling down the screen.

6. Re-Priming the Pump After the Feed Bag empties (only necessary if you have to add more formula to the bag to complete your feeding in a 24 hour period).

- a. A pump set bag that has been emptied will trigger the Feed Error screen. In this condition the pump set bag can be refilled to continue the feeding, but only after the pump set has been re-primed.
- b. Disconnect the feeding line from the patient.
- c. Refill the bag.
- d. Press → “Continue” to begin the pump running.
- e. Press → “Hold”, then press → “Adjust Settings”, then press → “Prime Pump”.
- f. Press → “Hold To Prime Flush” until the water has reached the valve in the pump.
- g. Press → “Hold To Prime Flush” until formula reaches the stepped connector at the end of the set.
- h. Press → “Done”, then select → “Run”.

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7. Feeding is complete / stopping the pump:
 - a. Once feeding is completed, press and hold the “Power” button until the pump shuts off.
 - b. Disconnect feed-flush line from feeding tube.
 - c. Insert 60 ml syringe into the water container and pull up the amount of water needed to flush.
 - d. Insert the syringe into the feeding tube at an angle, open clamp on tube (if present) and gently push the syringe plunger to allow water to slowly flush through the tube. Always flush with the ordered amount of water, which may require more than one syringe of water.
 - e. Pull the syringe plunger apart from syringe and wash with warm soapy water and air dry.
 - f. Discard all supplies in the regular trash.

Notes:

- Syringes can be washed and reused for up to 1 week, then discard and use a new syringe.
- Any unused formula should be stored in the refrigerator for up to 48 hours.
- Keep the pump plugged in at all times. It takes about 8 hours to fully charge the pump. If it is necessary to unplug or if using backpack, the battery should last up to 18 hours when fully charged.
- Feeding tube sets are to be used for 24 hours only, then a new set should be used. There are times when the feeding tube set’s availability may be an issue. If that is the case the pharmacy will provide additional instructions if bags can be reused.

Kangaroo Joey pump troubleshooting guide



Symptom	Probable Cause	Corrections
Hold Error	Pump in HOLDING mode for more than 10 minutes.	Press CONTINUE to return to HOLDING screen, or press and hold the Power button to turn off. Several options are available from the HOLDING screen, such as RUN or ADJUST SETTINGS .
Flow Error	Occlusion in pump-patient line. (downstream occlusion)	Check for and correct the occlusion in the line between pump and patient. Replace Pump Set if error cannot be resolved.
Feed Error	Empty bag or occlusion in bag-pump line. (upstream occlusion)	Check for empty bag and refill, or check for and correct the occlusion in the line between the pump and feed bag. Replace Pump Set if error cannot be resolved.
Flow Error Use > 24 Hrs	Pump Set in use beyond recommended length of time.	Informational warning message blinks on upper left of screen. It is recommended that the Pump Set be replaced.
Pump Set Dislodged	Pump Set not properly loaded to pump.	Check black ring retainer (MISTIC) and valve; reload Pump Set and restart pump to continue. Replace Pump Set if error cannot be resolved.
Battery Low	Battery charge too low.	Immediately plug pump into A/C outlet to recharge battery and to provide power for the pump.
Rotor Error	Pump Set tubing not properly loaded on rotor, or some other unusual rotor operating condition.	Check that the tubing is loaded on the rotor and that is not damaged, torn, etc. Reload tubing or replace Pump Set.
System Error	General error caused by many factors. See Manual for error list.	Power down pump and attempt restart to clear error. Call customer service with screen code if error cannot be resolved.

Taking medications through your feeding tube

1. Gather supplies:

- ✓ Medications
- ✓ Pill crusher or something to crush pills
- ✓ 60 ml syringe
- ✓ Cup of warm water

2. If the medication is in a pill form

- Crush the pill into powder form
- Mix well with 10-20 ml of warm water

3. If the medication is in a capsule form

- Open the capsule
- Empty the contents into 10-20 ml warm water and mix well

4. If the medication is in a granular form

- Dilute the medication
- Flush the tube immediately after the medication with 50 ml warm water
- The granulates may clog the tube

Special tips:

- Give each medication separately
- Flush with 20-30 ml of water before and after each medication
- Do NOT mix medications
- Do NOT add the uncrushed medication directly into the feeding tube or feeding bag
- Do NOT crush any enteric coated, time released, or effervescent (bubbling) medications
- Consult with your doctor or retail pharmacists to see if any of your medications are available in liquid form or what other options are available to you.

Feeding tube site care

Steps to clean the feeding tube site:

1. Wash your hands
2. Prepare clean work surface to gather your supplies
3. Gather supplies needed to clean your feeding tube site:
 - ✓ Antibacterial soap
 - ✓ Clean washcloth
 - ✓ Cotton-tipped swabs or Q-tips
 - ✓ Warm water
 - ✓ Clean dry towel
4. Gently wash the skin starting at the tube site and work out in a circle
5. If there is a disk, gently clean under it with a soapy washcloth or cotton swab
6. Rinse well with warm water
7. Pat dry and dry completely

Special tips:

- Do not use ointment or hydrogen peroxide around the tube site
- Change the bandage or split gauze daily until the site has healed and there is no leakage, then you no longer need the gauze unless it provides you comfort
- If you have a G-tube, gently rotate the skin disk and/or pull a little on the tube. It should be able to move about $\frac{1}{4}$ inch. If it is too tight to move in and out, call your doctor.
- Never pull or rotate a J-tube
- If you experience any of the following, call your doctor:
 - Pain
 - Bleeding
 - More redness and tenderness than usual
 - Excessive drawing or fluid leaking around the tube
 - Foul smelling drainage
 - Clogged feeding tube
- If the tube comes out of place
 - Do NOT use the tube if the tube is partially out of place
 - Tape the tube to prevent any further movement
 - See your doctor as soon as possible or go to the Emergency Room

Feeding tube site care

Preventing and treating clogs:

How do I know if my feeding tube is clogged?

- ✓ Difficulty pushing water through the feeding tube using a syringe
- ✓ Not able to pull back formula from the tube using an empty syringe
- ✓ Feeding pump alarming
- ✓ Formula leaking from the feeding tube site

How do I unclog my feeding tube?

1. Wash your hands
2. Gather a cup of warm water
3. Visually inspect feeding tube for any blockage
4. Using a 60ml syringe, pull up 30 ml warm water
5. Push with 30ml of water through the syringe into to feeding tube, if resistance is met, pull back on plunger and try flushing again
6. Repeat the above step as needed, but avoid forcing water into the feeding tube
7. If the tube remains clogged, contact your doctor or go to the emergency room

Special tips:

- Use warm water 1st to unclog your feeding tube
- If you cannot unclog the feeding tube, use 1 sodium bicarbonate tablet and open 1 pancreatic enzyme from the retail pharmacy (doctor prescription is needed). Mix together in 5-10 ml of warm water
- Gently push the mixture through the tube to allow it to sit for 10 minutes to 1 hour, then attempt flushing the feeding tube with 60 ml warm water
- NEVER put a wire or any sharp objects into the feeding tube
- If the tube remains clogged, contact your doctor or go to the emergency room