



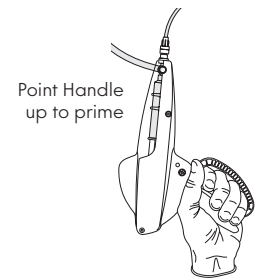
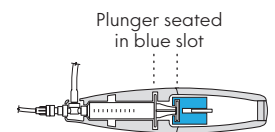
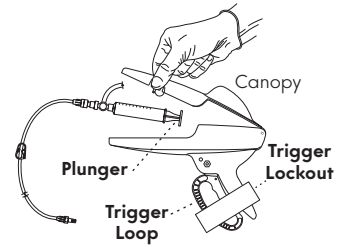
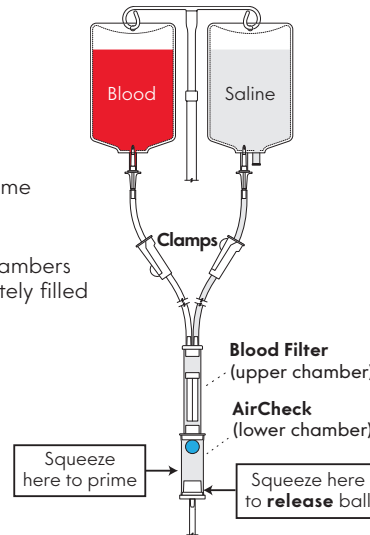
# In-Service Training Guide



Consult IFU for full use instructions, indications, and warnings.

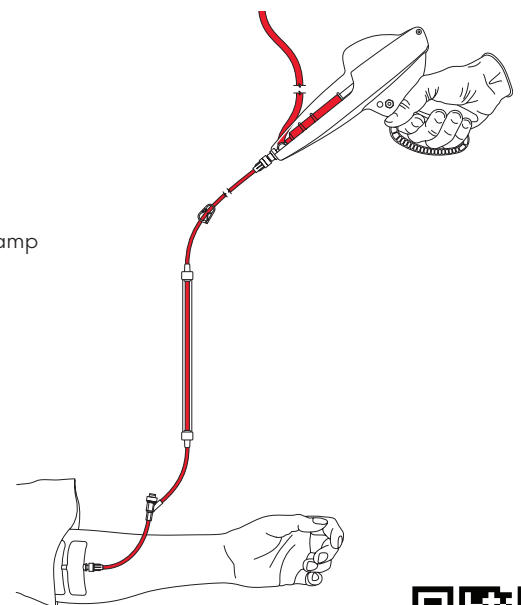
## SET UP

- Close both clamps
- Spike saline and blood bags
- Open saline clamp
- Squeeze the middle of AirCheck® to prime
- Squeeze until both upper and lower chambers (blood filter and AirCheck) are completely filled
- Release ball if necessary
- Open canopy by squeezing tabs
- Load syringe into handle
  - Numbers up
  - White plunger into blue slot
  - Demonstrate correct and incorrect methods
- Point handle up and cycle trigger loop until syringe and tubing are primed



## USING LIFEFLOW PLUS

- Attach to vascular access
- Monitor IV patency on first pulls and throughout infusion
  - Watch and feel for infiltration
- To infuse blood, close the saline clamp and open the blood clamp
- Infuse by repeatedly squeezing the trigger loop
- Stop infusing when a small volume of fluid remains in the bag
- Close clamp
- Spike new bag and open clamp
- Squeeze lower chamber to prime
- Continue infusing



TRAINING VIDEO





## IMPORTANT REMINDERS

- Cleared for use with blood, blood components (PRBCs or plasma), and crystalloid and colloid resuscitative fluids.
- Do not transfuse blood products with catheters smaller than 22G.
- LifeFlow PLUS is compatible for use with all vascular access that is rated for contrast infusion pressures (300psi).
- Do not mix citrated blood products with lactated Ringer's or with other solutions containing calcium.
- Hyperkalemia and hypocalcemia are known risks of blood transfusion. Infants may be more susceptible to the adverse effects of hyperkalemia and hypocalcemia from rapid transfusion of blood products. Closely monitor serum potassium and ionized calcium and consider treatment as necessary.
- Do not use excessive force when squeezing the trigger loop to reduce the likelihood of hemolysis.
- If infusing saline with a 24G or smaller catheter, slow down between trigger loop squeezes to limit resistance.
- The LifeFlow blood tubing has a 200 micron filter.
- **Go Slow for Better Flow.**

## LIFEFLOW PLUS TIPS

- To avoid creating a vacuum, do not drain blood bag completely.
- If ball is suctioned to the bottom of AirCheck, disconnect from patient and stop infusing.
- To reset AirCheck:
  1. Spike a new bag and squeeze AirCheck to prime.
  2. Squeeze where it says "release" until the ball floats.
  3. Check for air in the line, reprime the line if needed, then reconnect and infuse.
- Always keep AirCheck and fluid bag vertical.
- AirCheck should always remain completely filled. *Float Before You Flow.*
- If you fully compress the trigger loop (recommended), each compression will infuse approximately 10 mL of fluid.
- System generates similar pressure as a 10 mL syringe.
- Ensure IV access device is patent prior to infusion.
- Observe and monitor for vascular congestion during intraosseous (IO) use in the leg of an infant. If observed, the rate of infusion should be slowed or stopped until swelling subsides.
- Handle provides tactile feel. If trigger loop stops returning:
  1. Start at the top of tubing and check fluid bags, clamps, filter and AirCheck.
  2. Check IV for occlusion.
  3. Blood filter may be clogged. If so, get a new tubing set.
- The trigger loop is designed to break away if excessive force is applied – this is a safety feature.
- Always remove syringes and ALL additional IV tubing from needleless access on "Y" connector prior to infusing any bolus.
- Do not attempt to connect LifeFlow PLUS to a glass or rigid IV container.
- Remove from vascular access when not in use.
- Syringe cannot be twisted apart.
- Handles are single patient use only for up to 24 hours.
- With colloids, the tubing can be used on a single patient for up to 24 hours or maximum of 4 liters.
- For blood products, this device can be used on a single patient for up to 4 hours or until the filter clogs.