



Stafford County Fire and Rescue Department Blood Administration



Standard Blood Y Administration Set with a Pressure Infuser Bag

- Establish two large bore IVs.
- Identify the largest IV for infusing blood
- Attach short IV Extension Tubing to IV Catheter
- Open Blood Y Administration Set and add Qinflow CDU
- Close both upper roller clamps and lower roller clamp
- Double spike bag of NACL to one side of the Blood Y Administration Set
- Open NACL upper roller clamp
- Squeeze drip chamber half-full and flush tubing
- Attached Qinflow CDU to Patient (IV Extension Tubing).
- Attach Qinflow Warrior Base Unit cable to CDU
- Power on Qinflow Warrior Base Unit
- Close NACL upper roller clamp
- Complete Blood Inspection (refer to 2023-001 IMD *Blood Administration*).
- Blend the unit of blood by gently rotating the bag end over end.
- Spike unit of blood to other side of Blood Y Administration Set
- Open blood upper roller clamp
- Place blood in a 500ml Pressure Infuser Bag
- Open lower roller clamp and infuse blood, inflate pressure bag to increase infusion rates.
- Monitor Qinflow Warrior Base Unit display to ensure the outflow temperature is 38° C (100° F)
- After blood administration, close the blood upper roller clamp.
- Open NACL upper roller clamp and flush with a small amount of NACL
- Reassess Patient

If using IV Extension Tubing with a hep-lock or spin-lock valve, disconnect the valve and connect directly into the large bore opening. This valve narrows the administration orifice, breaks down blood components and decreases infusing rates.

You can over-whelm the warming capabilities of the CDU using a Standard Blood Y Administration Set with the Pressure Infuser Bag. Maximum blood administration rates using the CDU is 170ml/min. Decrease the rate of infusion if the outflow temperature begins to decrease.



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LifeFlow Infuser and LifeFlow Blood Y Administration Set

The LifeFlow Infuser and LifeFlow Blood Y Administration Set should be used for pediatric patients (<12yo) who require defined dose amounts, or when administering blood through an IO.

- Establish two large bore IVs.
- Identify the largest IV for infusing blood
- Attach short IV Extension Tubing to IV Catheter
- Open LifeFlow Blood Y Administration Set and add Qinflow CDU
- Close both upper roller clamps
- Open LifeFlow Infuser canopy, load syringe (with number visible, and white plunger in the blue slot
- Double spike bag of NACL to one side of the Blood Y Administration Set
- Open NACL upper roller clamp
- Squeeze drip chamber half-full, squeeze bottom of drip chamber to release the blue ball upward
- Point LifeFlow Infuser upward and cycle trigger to prime tubing
- Attached Qinflow CDU to Patient (IV Extension Tubing).
- Attach Qinflow Warrior Base Unit cable to CDU
- Power on Qinflow Warrior Base Unit
- Close NACL upper roller clamp
- Complete Blood Inspection (refer to 2023-001 IMD *Blood Administration*).
- Blend the unit of blood by gently rotating the bag end over end
- Spike unit of blood to LifeFlow Blood Y Administration Set
- A Pressure Infuser Bag shall not be used with the LifeFlow Infuser.
- Open blood upper roller clamp
- Trigger LifeFlow Infuser to infuse blood, each trigger cycle infuses 10ml
- Monitor Qinflow Warrior Base Unit display to ensure the outflow temperature is 38° C (100° F)
- After blood infusion, close the blood upper roller clamp.
- Open NACL upper roller clamp and flush the tubing with a small amount of NACL. Trigger LifeFlow Infuser to flush tubing.
- Reassess Patient

Blood can be administered through an IO however the flow rate is comparably slower than an IV. Clinicians will initially observe normal IO administration rates as the medullary cavity fills and then administration rates will decrease.