

# RediStik®

## Wearable PIV Trainer

A COLLABORATION BETWEEN

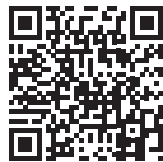
SAWBONES®

AND



Texas Children's  
Hospital®

Video Set-Up  
Instructions



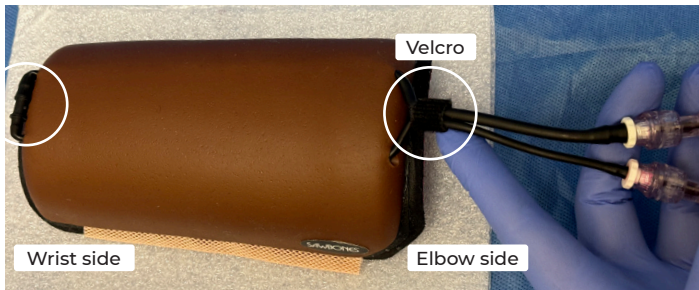
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# 1. SET-UP INSTRUCTIONS

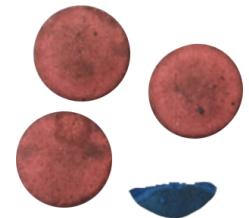
Video Set-Up Instructions



- Step 1** Remove trainer from foam protector, Pat dry or rinse old blood from skin, dry skin, then brush baby powder on skin if skin feels tacky or greasy. (Can do this at end of use or before use)
- Step 2** Ensure veins are tight on the wrist side and Velcro is tight as well as pushed toward skin on the elbow side. (prevents veins from rolling too much)



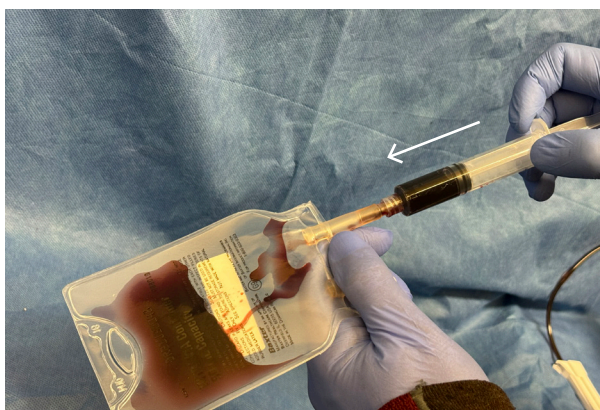
- Step 3** Create simulation blood: 50ml water + 3 Red Tabs + 1/8<sup>th</sup> blue tab (formula creates dark blood that is easy to see in catheter flash). Blood does not mold in storage. Can leave primed with line/bag attached to trainer during storage or de-prime blood if desired.



- Step 4** Two options to Fill IV bag with simulation blood:

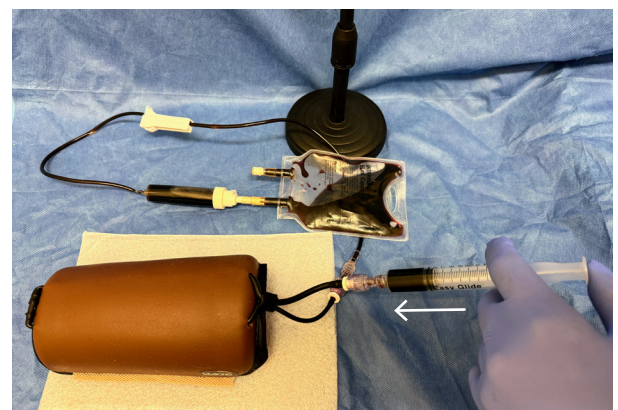
**A. Add blood directly to IV bag using syringe:**

Puncture seal in port with extension tubing spike, remove spike and fill IV bag using syringe, next re-spike IV bag and connect IV tubing to injection cap on the end of the vein.



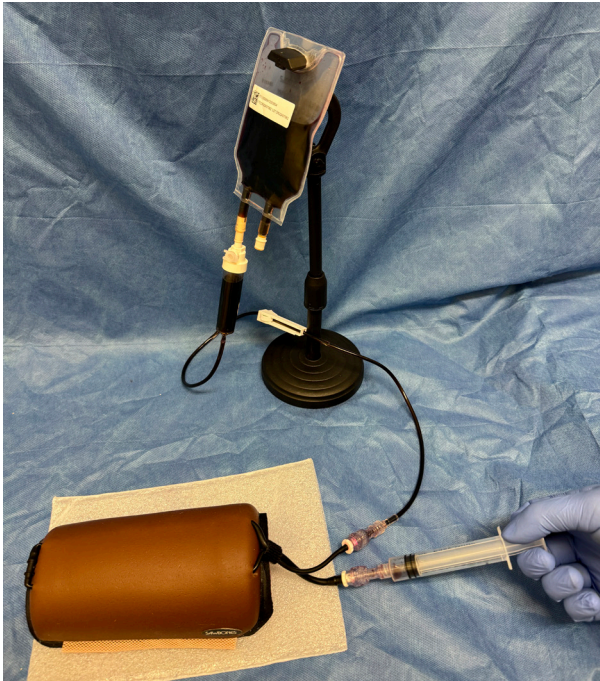
**B. Adding blood from injection cap on vein:**

Connect syringe filled with blood to injection cap and push SLOWLY while IV bag is positioned below or level with the trainer: [If push too fast this will increase pressure in the veins and blood will seep out of previously punctured holes.]



**Step 5** Two options included to hold IV bag with blood:

**A.** Table top holder, make sure to extend fully which is about 14" above the table top.



**B.** Shoulder harness: adjust metal ring so the IV bag is at clavicle level as this will be about 14" above IV trainer on your arm.

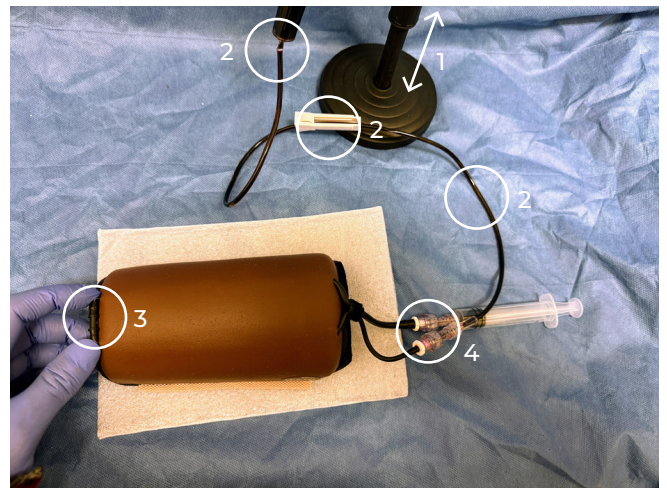


**Bag Height Tips:** IV bag positioned approximately 14 inch above trainer will produce a great flash when entering the vein lumen. Bag positioned too low will create a slower flash – bag positioned too high may leak out through punctured veins easier because of increase gravity.

**Step 6** Important to ensure the IV line is open and not compressed/kinked. Connect the empty syringe to the injection cap and pull back to prime blood into veins. Repeat until pulling blood into the syringe.

If you get blood return the trainer is working. If not troubleshoot with below:

1. Ensure IV blood bag is ~14" above trainer
2. Extension tubing compressed/kinked from roll clamp and folding in storage
3. Blockage of debris on wrist side with barb connector (flush water or blood through trainer while moving barb fitting)
4. Injection cap at end of veins no longer working properly or the IV tubing is not properly connected to injection cap.



## 2. OTHER CONFIGURATIONS



### Simulation with patient on stretcher or on ground for trauma

If blood bag is on patient's chest above the trainer, you will get appropriate blood flash.



### Simulation for push/pull bolus continuous fluids, or frequent blood return checks for chemo push

**Step 1** Connect an extra extension set and empty IV bag to injection cap. (extra extension & IV bag not included)

**Step 2** Place empty IV bag below the trainer for fluid collection.

**Step 3** Control infusion rate by roller clamp.

## 3. VEIN REPLACEMENT

- Replacement veins included in the kit
- Reusable parts: Velcro wrap, 2 injection caps, vein connector (on wrist side)
- Parts in kit to change veins: Reusable 10cc syringe, reusable alligator forceps, lubricating jelly packets

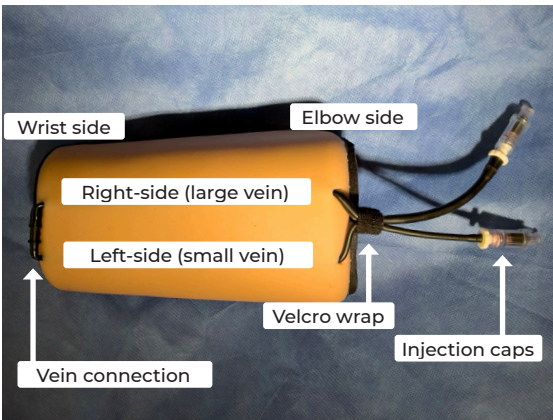
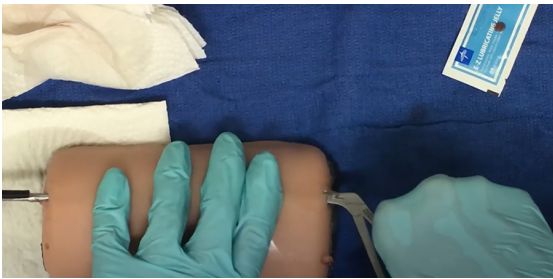
### When to replace veins

When you experience veins weeping consistently with IV bag in recommended position (14" above trainer), use the directions below to replace the veins.

Visit [sawbones.com](http://sawbones.com) for more information, including set-up videos and skills overview.



save all of these parts



### How to replace veins

### Vein Replacement Video Instructions



**Step 1** Disconnect both veins from the Velcro, vein connector, and injection caps (save all of these parts).

**Step 2** Pull out used veins.

**Step 3** Wash thoroughly under a sink through the vein channel openings and through punctures in the skin to remove blood.

**Step 4** **Ensure the vein openings are well lubricated prior to pulling new veins through the openings.** Place jelly packet in 10cc syringe by pulling out plunger, squeeze in jelly and replace plunger in syringe. Place lubricating jelly into both vein openings.

**Step 5** Guide alligator forceps through vein opening (enter elbow side with alligator forceps, exit wrist side). **If the forceps are not easily sliding through the vein channel, please work in more lubricating jelly.**

**Step 6** Grasp new vein (wrist side) with alligator forceps

**Step 7** Stabilize trainer and pull vein through the opening. The large vein is a tighter fit than the small vein. It is helpful to have someone hold the trainer while you pull the vein through with the alligator forceps while using your other hand to help guide the vein from the opposite side.

**Step 8** After both veins are replaced, connect veins at wrist end with “reusable” vein connector.

**Step 9** Connect “reusable” injection caps to large and small vein.

**Step 10** Wrap “reusable” Velcro tight around both veins and slide close to trainer ensuring the wrist side and elbow side veins are tight as this prevents veins from rolling.

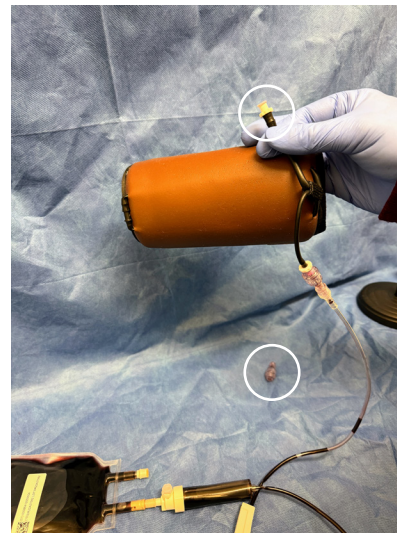
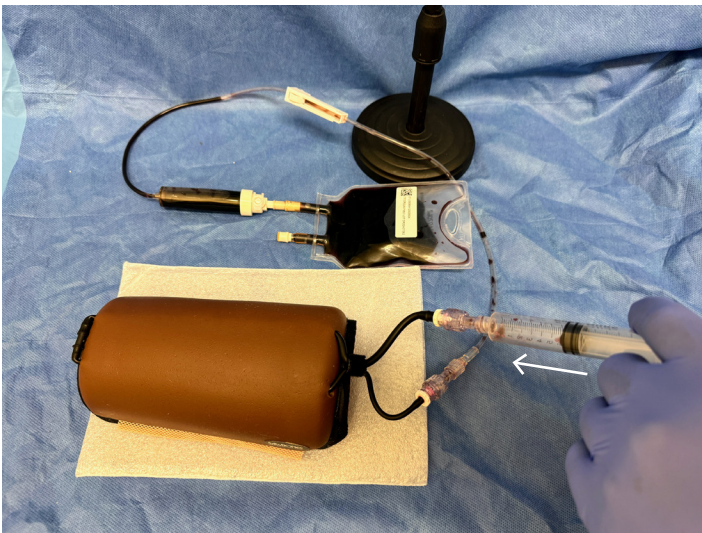
## 4. CARE & STORAGE RECOMMENDATION

- Blood does not mold in storage. Can leave blood in Trainer during storage or de-prime blood if desired.
- Wash skin with water if soiled from blood. Pat dry and apply baby powder to prevent skin from feeling tacky.
- Applying alcohol or CHG will not damage skin but will cause skin to feel tacky. Apply baby powder to bring skin back to original feel.
- Securement dressing safe on skin and will not leave adhesive residue once removed. Dressings will adhere to skin better if apply alcohol or CHG on skin prior to dressing application.
- Recommend occasionally flush out veins with water before or after use to remove possible debris that may clog veins/ connections.
- Store trainer in white foam envelope. Avoid heavy or pointed objects pressing on trainer in storage.



### De-Priming options:

1. You can leave primed with line/bag attached. To De-prime lower bag below trainer, attach 10cc syringe to injection cap and push air in to flush out blood into bag.
2. Lower bag below trainer and remove injection cap. Replace injection cap for next simulation.



## 5. CONTACT AND REORDER

**Contact:** michael@redistik.com

**Order/reorder:** visit sawbones.com

**Sawbones Customer Service USA** (servicing North America, South America, Asia and Australia):  
(206) 463-5551 / info@sawbones.com, 6 am – 5 pm, PT

**Sawbones Customer Service EMEA** (servicing Europe, Middle East and Africa):  
+46 40 650 7000 / info@sawbones.se, 8 am – 5 pm, CET

Visit [sawbones.com](http://sawbones.com) for more information, including set-up videos and skills overview.