

VATA

Realism in Clinical Simulation

Penny Pediatric **Intraosseous Trainer – 4130/4131** **USER MANUAL**



308 South Sequoia Parkway, Canby, Oregon 97013 USA
ph. 503.651.5050 | fax 503.651.5052 | info@vatainc.com | vatainc.com

Thank you for your purchase of **VATA's Penny Pediatric Intraosseous Trainer – 4130/4131.**

Penny Pediatric Intraosseous Trainer – 4130/4141 was developed to provide clinicians with a realistic model to facilitate instruction, understanding, and practice of starting an IO access on a pediatric patient. Penny is one of the only pediatric IO models currently on the market that allows accessing both the tibia and femur.

The **Penny Pediatric Intraosseous Trainer** includes a realistic leg molded from a three-year-old with the following features:

- **Reversible tibia and femur bones:** Double the practice opportunities with bones that are reversible allowing you to flip over for a “new” bone
- **190+ IO attempts included:** 8+ accesses per side of each bone
- **Replaceable, anatomically accurate skin:** Molded from a 3-year-old's leg for unparalleled realism, featuring a palpable knee cap.
- **Aspirate and flush functionality:** Practice essential procedures like fluid aspiration and site flushing.

Penny Pediatric Intraosseous Trainer allows various medical professionals to develop IO skills with an anatomically correct model, allowing them to get necessary practice before performing the procedure on patients. This cost-effective model can be used as a wet or dry model to fit your training needs.



Product Components

- 1 8oz simulated blood
- 2 5-pack replacement femur bones—4137
- 3 Wax to fill access holes
- 4 Tubing adapter
- 5 Syringe
- 6 Pediatric leg base
- 7 Knee insert with palpable patella—4132
- 8 Fluid bag with stopcock (x2)—2367
- 9 5-pack replacement tibia bones—4136



Set-Up Instructions



1. To fill the tibia and femur bones, reconstitute the blood following the instructions on the bottle. Attach the provided adapter to the syringe and fill with **VATA** simulated blood.

2. Loosen (*but do not remove*) the vent cap on the bone to allow the air to escape when filling.



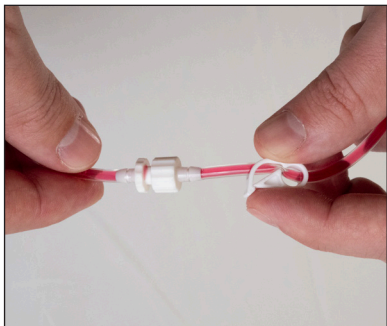
3. Attach syringe to the bone tubing and slowly fill with **VATA** simulated blood making sure the vent cap is pointed up and pinch clamp is open. The tibia will need approximately 11cc and the femur 12cc.

NOTE: Only fill bones you intend to use during the current training session.



4. When you see simulated blood starting to come out of the vent, stop filling and tighten the vent cap. Wipe up any excess blood.

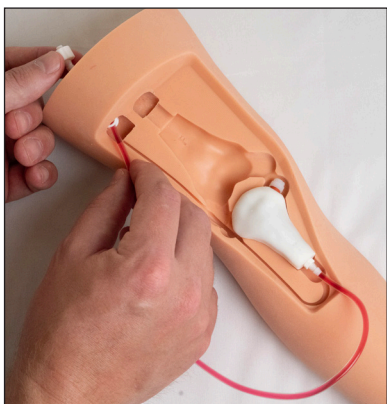
Set-Up Instructions



5. Close pinch clamp on the tubing. Disconnect the bone tubing and syringe adapter. Repeat this process with any additional bones you plan to use during your training session.

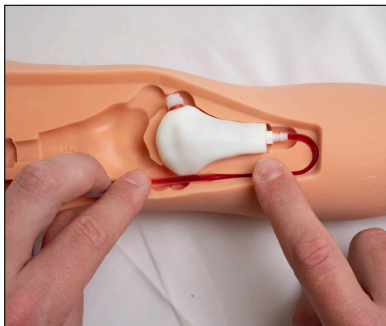


6. Connect the syringe directly to the supplied blood bag and fill with 30cc–40cc of VATA simulated blood, close stopcock, and disconnect syringe.



7. To place the bones in the model, start with the tibia by first threading the tubing through the lateral hole.

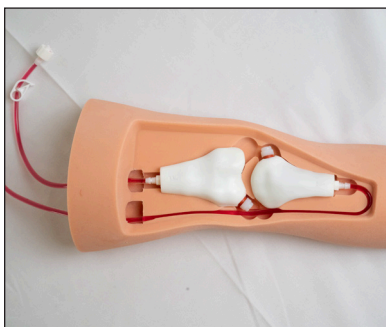
Set-Up Instructions



8. Next press the tubing into the groove making sure the tubing is correctly set all the way in.

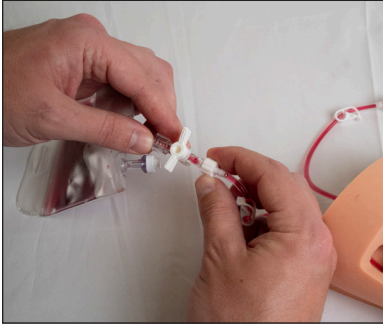


9. Next place the femur in the model by threading the tubing through the hole and laying the bone in the recessed area.



10. With both bones in the model it should look like this.

Set-Up Instructions



11. Attach the tubing from each bone to its own blood bag and then open each stopcock and pinch clamp to allow fluid to flow to and from the bags.

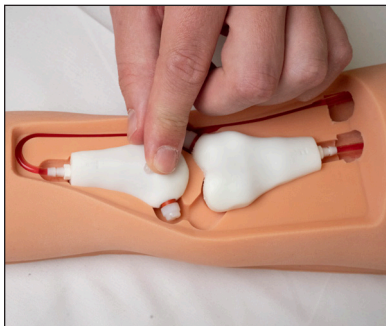


12. Place the skin insert over the bones and the model is now ready for use.



13. To access the model, use any appropriate IO device and access just as you would on an actual patient. Once you have accessed the tibia or femur you may aspirate to confirm your placement and infuse fluid into the bone.

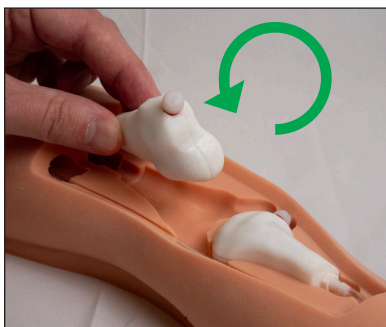
Set-Up Instructions



14. After you have accessed the bone and removed your IO device, remove the skin and take a small piece of the supplied wax, roll into a ball, and press firmly into the hole to prevent fluid leaking on additional accesses.



15. Ensure wax piece is firmly pressed into previous access hole and replace skin to access again.



16. When there is no longer room on the surface on the bone being accessed, flip it 180° to use the other side of the bone. Once both sides have been used completely, simply replace with a new bone.

Care & Storage Instructions

1. Drain any bones that are still usable by holding vertical over a sink, loosen the vent cap, and open the pinch clamp. Let all the fluid in the bone and tubing drain.
2. Clean the tubing lines by connecting up to a syringe with water and flushing out the remaining fluid. Leave vent cap loose and pinch clamp open to allow parts to fully dry out.
3. If model will not be used for more than two months drain the blood bags, flush with saline or distilled water, and leave the stopcock open to allow them to dry out. This will help prevent the growth of mold.
4. To clean the surface of the leg or knee skin insert, thoroughly wash with mild soap and warm water or isopropyl alcohol.
5. Pat the surface of the trainer to dry. Once dry, lightly sprinkle baby powder and wipe away the excess with a non-lint cloth.
6. Do not leave dressings on the skin surface overnight.

Helpful Hints

- Do not use food coloring or other dyes to simulate blood as these may permanently stain the trainer and will void the product warranty.
- After each use, it's best to disconnect the blood bags from the model and flush out all lines and bones with distilled water.
- To remove any residual adhesive left on the trainer from dressings, use any patient approved adhesive remover, followed by a cleaning with 70% isopropyl alcohol. When dry, gently sprinkle with baby powder and wipe off excess with a non-linting cloth.
- When not in use, it's best to store the trainer in the carrying case.
- Do not clean model with solvents or corrosive solutions. Wash model only with a mild liquid soap and warm water or isopropyl alcohol.
- If the knee insert is not sitting flush with the leg, ensure the bones are seated correctly in the leg

Parts List

The following items are available for purchase at www.vatainc.com.

Product #	Description
4130	Penny Pediatric Intraosseous Leg, Lightly Pigmented
4131	Penny Pediatric Intraosseous Leg, Darkly Pigmented
4132	Replacement Knee Skin Insert, Lightly Pigmented
4133	Replacement Knee Skin Insert, Darkly Pigmented
4136	Replacement 5-Pack Tibia Bones
4137	Replacement 5-Pack Femur Bones

You Might Also Like These Products...



**Basic Intraosseous (IO) Trainer –
4005/4006**



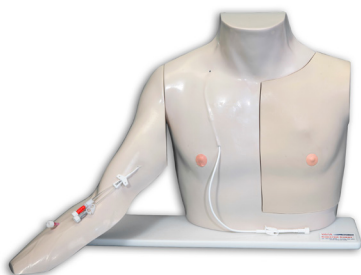
**Advanced Venipuncture Training Aid™ –
2365/2366**



**Vascular Access Ultrasound Phantom –
0705/0706**



Port - Body in a Box™ – 5010/5011



Chester Chest™ – 2400/2402

