



Piglet Restraint Jugular Blood Draw

Piglet Restraint Jugular Blood Draw

Content

1. Piglet Restraint Jugular Blood Draw Care, Handling and Maintenance	3
1.1 Delivery Content	3
1.2 General Maintenance	3
1.3 Cleaning	3
2. Operation and Use	3
2.1 The Veins	3
2.2 Venipuncture Tubing Replacement	4
2.3 Restraint	5
3. Replacement Parts	5

Piglet Restraint Jugular Blood Draw

1. Piglet Restraint Jugular Blood Draw Care, Handling and Maintenance

The VSI Piglet Restraint and Blood Draw Simulator is an excellent bridge for veterinary students to practice essential clinical skills in a controlled environment while addressing the unique requirements associated with swine. Designed with accuracy and functionality in mind, the Piglet Restraint and Blood Draw Simulator is realistic in both size and conformation.

The model is equipped with a replica steel articulating skeleton which allows it to be placed in a variety of positions allowing students to gain the confidence needed to perform differing restraint positions and blood draws in a controlled setting, replica jugular veins and a simulated blood source within the body cavity for ease of use. The model is also made of easily cleanable high-grade silicone and durable hooves for realistic architecture.

1.1 Delivery Content

- Life-size piglet simulator
- VSI Blood Bag
- Piglet Veins (10 pcs)
- Piglet Hide Cover

1.2 General Maintenance

The model's unique characteristics give the skin a relatively delicate nature, which requires care in handling and storage to avoid damage. Routine inspection is essential – if any of the components become damaged they can be repaired with any aquarium-grade silicone adhesive (preferably clear) or VSI's Silicone Repair Kit. If they are not repairable, most components can be ordered and replaced.

1.3 Cleaning

When cleaning the model, use a mild detergent and water with a soft cloth, avoiding any harsh chemicals, solvents, or abrasives; and allow to fully air-dry before storing. Rubbing Alcohol can also be applied to a soft cloth and wiped across the model in order to remove any unwanted debris on the silicone.

2. Operation and Use

2.1 The Veins

The jugular veins are represented by thin-walled latex tubing. This material is of a very specific dimension and available as a replacement part for the Piglet Restraint and Blood Draw Simulator. The latex composition of these veins is UV sensitive which should be protected from sunlight and stored in a cool, dry environment. The veins require replacement once repeated needle punctures result in leakage or fluid weeping. Please note that smaller needle sizes are preferred for practice as this allows the most punctures out of the venous tubing - VSI recommends using 25g needles.

Filling the Veins with Simulated Blood

1. Open the blood bag clip to allow fluid flow.
2. Insert a 10 cc syringe with a 25 G needle into the distal tubing.
3. Draw air from the line until a flashback of simulated blood is visible.
4. Once the veins are filled, the simulator is ready for venipuncture practice.

Emptying the Venous System for Storage

1. Fill a syringe with air only and insert the needle into the distal tubing.
2. Inject air into the tubing to push any simulated blood from the veins back into the blood bag.
3. Ensure the veins are emptied to help prevent clotting during storage.



Note: The blood bag (1025663) is available from VSI as a replacement item.



Note: Store the simulator in a cool, dry location when not in use for extended periods.

Piglet Restraint Jugular Blood Draw

2.2 Venipuncture Tubing Replacement

1. Fill a syringe with air only and insert the needle into the distal tubing.
2. Inject air into the tubing to push any simulated blood from the veins back into the blood bag.



3. Once the veins are empty, unzip the hide, close the blood bag clip, and disconnect the blood bag from the venous tubing.

4. Remove the silicone vein insert and the blood bag from the model through the opening on the back.

5. Remove the venipuncture tubing from the grooves of the silicone vein insert and disconnect the existing venipuncture tubing from the connectors.



6. Attach the replacement tubing to the connectors.

7. Press the venipuncture tubing firmly into the grooves of the silicone vein insert.

8. Reinstall the silicone vein insert into the model. Baby powder may be applied to reduce the tackiness of the silicone during installation.



9. Connect the venous tubing to the blood bag and reinsert the blood bag into the body cavity.

10. Open the blood bag clip and close the hide.

11. Insert a needle with syringe into the distal tubing and draw air out of the tubing until a flashback of simulated blood is visible.

Piglet Restraint Jugular Blood Draw

2.3 Restraint

The simulator is fully articulated and allows students to practice the restraint techniques commonly used for safe handling and jugular venipuncture. Three primary restraint positions can be performed:

Dorsal Recumbency

The standard position for jugular venipuncture and blood collection from the cranial vena cava or jugular furrow.

1. Place the piglet on its back (dorsal recumbency)
2. Draw the forelimbs caudally (toward the tail) to expose the thoracic inlet.
3. Extend and stabilize the head to create a straight line along the jugular groove.

Sternal Recumbency

Used for physical examinations and alternative injection sites.

1. Position the piglet upright on its chest.
2. Support the body against a flat surface.
3. Cup the piglet under the jaw to stabilize and control the head.
4. Maintain the position for examination or injection procedures.

Suspended Vertical Restraint

Traditional two-hand forelimb hold for quick clinical assessments.

1. Lift the piglet by securely gripping both forelimbs close to the body.
2. Hold the piglet in a vertical position.
3. Support the piglet's back against the handler's torso or legs.
4. Maintain the position to expose the ventral neck and chest areas.



3. Replacement Parts

Blood Bag	1025663
Piglet Veins	1025665
Piglet Hide Cover	1025664

07/2026

IF YOU HAVE ANY QUESTIONS OR NEED SUPPORT, PLEASE SCAN HERE



3B Scientific Group

Headquarters · Ludwig-Erhard-Strasse 20 · 20459 Hamburg · Germany · 3bscientific.com