



Feline Tech Simulator

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Feline Tech Simulator

1. Feline Tech Simulator Care, Handling and Maintenance

The VSI Feline Tech Simulator is a fully assembled, medium-sized model feline designed for realistic veterinary training. It features multiple replaceable parts and components to support a variety of procedures, including venipuncture, dental, and radiology.

1.1 Delivery Content

- Medium-sized Feline
- Jugular, cephalic, and medial saphenous veins
- Venipuncture fluid and bag
- Replacement venipuncture tubing
- Feline tongue
- Feline hide
- Scaling dental maxilla and mandible
- Simulated calculus
- Radius bones with normal, transverse break and oblique fracture
- Caudal vertebra bones with normal and transverse fracture

1.2 Cleaning

The Feline Tech simulator is constructed from high-grade silicone to replicate the precise texture and make it more realistic. All components, both hard and soft, should be cleaned periodically using a mild, water-based detergent and warm water. Never use harsh chemicals or cleaners. All internal components can be damaged by rough handling.

1.3 General Maintenance

Periodically inspect the unit for any damaged components. If any of the soft components become damaged, they can be repaired with any aquarium grade silicone adhesive (preferably clear), or VSI can supply a repair kit. If they are not repairable, any damaged components may be ordered from VSI.

Your Feline Tech simulator is shipped with modular components securely packaged to protect them during transit.

Carefully unwrap all components from their protective bubble packaging. These modular pieces are designed for straightforward integration into the main body prior to your first training session.

In order to provide a realistic training experience, the simulator features highly detailed anatomical modeling. Because of this, it requires careful handling and specific storage conditions to prevent tearing or puncture.

- Avoid using sharp instruments near the skin unless specified by a training protocol.
- Store the model in a relaxed position without tightly compressing the silicone tissue, which can cause permanent deformation over time.

1.4 Positioning

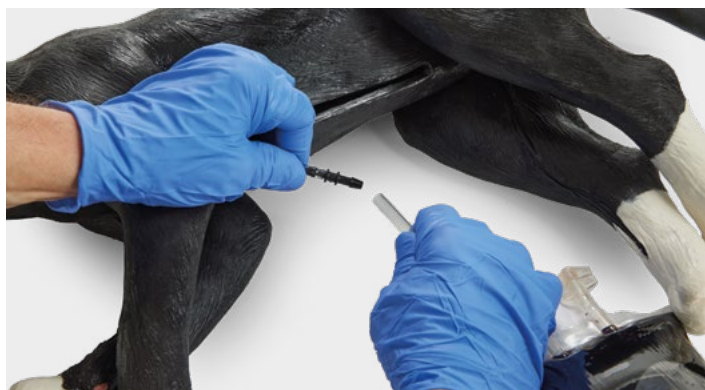
The VSI Feline Tech model is designed for practicing radiographic positioning, endotracheal intubation techniques, dental scaling, positioning/restraint, bandaging, as well as blood venipuncture and catheterization.

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2. Tubing, Venipuncture and Catheterization

The Feline Tech Simulator allows students to practice blood draws from the jugular, cephalic, and medial saphenous; and intravenous catheterization to the cephalic and medial saphenous. VSI has conducted venipuncture and catheterization testing on the feline venipuncture tubing using 25-gauge needles. Smaller needle sizes are recommended for training and repeated use, as they help extend the usable lifespan of the venipuncture tubing by allowing for a greater number of punctures.

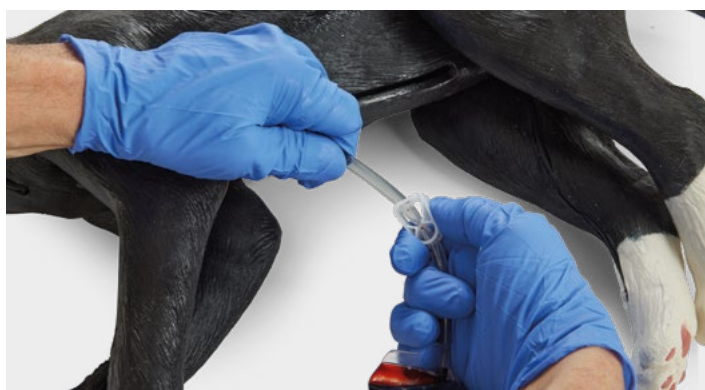
Before using the cephalic vein for the first time:



1. Connect the blood bag to the clear tubing located inside the simulator.



2. Open the bag clip to allow fluid flow.



3. Use a 10cc syringe with a 25g needle to draw air from the line.
When starting the vein system, continue drawing air until you see a flashback of blood.



Only the black tubing is designed for replacement. The clear tubing should remain securely installed inside the model.

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2.1 Venipuncture Tubing Replacement

To properly replace the venipuncture tubing, follow these steps:



1. Insert a syringe into the distal limb tubing and draw air through the line to flush the remaining fluid back into the blood bag.



2. Once the veins have been emptied, close the venipuncture fluid bag using the clamp located on the bag itself.



3. Detach the black tubing from the barbed fitting in the paw and gently lift it until the clear tubing near the top of the limb is exposed.



4. Connect Replacement Tubing:
 - a. Each replacement piece is pre-cut to fit.
 - b. Connect one end of the new black latex tubing to the clear tubing at the top of the limb.
 - c. Roll the small black band over the connection to secure it.
 - d. Attach the opposite end to the barbed fitting in the paw and secure with another black band.



5. Lay the venipuncture tubing neatly into the groove of the limb, then re-cover the area with the Lycra hide covering.



6. Open the tubing clamp on the fluid bag to allow fluid flow. Insert a needle and syringe into the line to draw out any excess air.

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3. Intubation

The simulator is designed for practicing feline endotracheal intubation. The model includes a detailed laryngopharynx component, a realistic tongue, and soft tissue structures to replicate the experience of real intubation procedures for veterinary training.

*The recommended endotracheal tube size for this feline model is 3.5 mm.



Always apply a gentle technique and use lubricant during intubation to prevent damage to the internal silicone components.

4. Dentistry Modules

The VSI Feline Tech Simulator includes realistic dental anatomy components that allow users to perform a range of common feline dental procedures for veterinary training.

Functions & Training Tasks

With the dentistry modules, learners can:

- Perform dental cleanings using standard veterinary instruments including an ultrasonic scaler.
- Practice dental charting to identify and document oral health conditions.
- Perform periodontal probing for assessing gingival pockets and overall dental health.

The included scaling dental maxilla and mandible components are designed to mimic feline oral structures and provide hands-on experience in preventive dental care and diagnostics.

4.1 Maxilla Installation



1. Hold the upper lips just below the model's nose on both sides. Gently pull the muzzle upward and backward (caudally) to reveal the mounting surface and rails of the maxilla inside the mouth.



2. Use your thumb and index finger to gently spread the upper lips, creating space to insert the maxilla.



3. Align the mounting rails on the model's head with the slots on the maxilla. Carefully slide the maxilla downward into the mouth (caudally) until it stops and fits securely. *Be cautious to avoid pinching or tearing the inner lip during this step.



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4. Gently pull the nose/skin forward to ensure the maxilla mounting tab fits snugly into the pocket within the nose skin.



A small amount of petroleum jelly may be applied to the mounting area to ease installation.



4.2 Maxilla Removal

1. Hold the upper lips on both sides of the nose and gently pull the muzzle backward (caudally) until the maxilla's mounting tab detaches from the underside of the nose. The nose and lips will remain flipped inside-out during this process.
2. Avoid pushing the nose downward beyond the point where the mounting plate is exposed to prevent damage to the model.
3. Brace the sides of the maxilla and carefully pull upward to remove it from the head.

4.3 Mandible Installation

For installation of the mandible, line up the two stainless steel mounting pins with the corresponding holes in the dentary.



1. Apply gentle dorsal pressure to the intermandibular space (suprahyoid region) while sliding the mandible caudally onto the two pins until it stops.



2. Check that the tongue mount is sitting comfortably inside the mandible and that the silicone is not caught under the mandible.



3. Gently pull the distal portion of the lower lip forward (rostral direction) and attach onto the mandible mounting flange.



4. To install the tongue, simply put over top the white oval piece medially on the mandible. A small amount of petroleum jelly can be used to ease the installation.

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4.4 Mandible Removal

1. Gently pull the tongue upward to detach it from the front plastic mounting post.
2. Pull the distal portion of the lower lip forward and downward (ventrally) to free it from the mandible mounting flange.
3. Using your thumb and index finger, grasp the mandible and pull it forward (rostrally) until it slides off the two stainless steel mounting pins. You may need to gently move it side to side during removal.



Avoid using excessive force or torque on the dentary, as this may damage the mandible or metal pins.

4.5 Artificial Calculus Information

Ingredients:

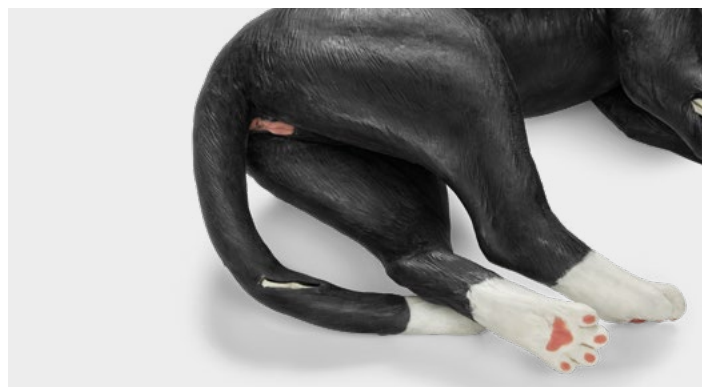
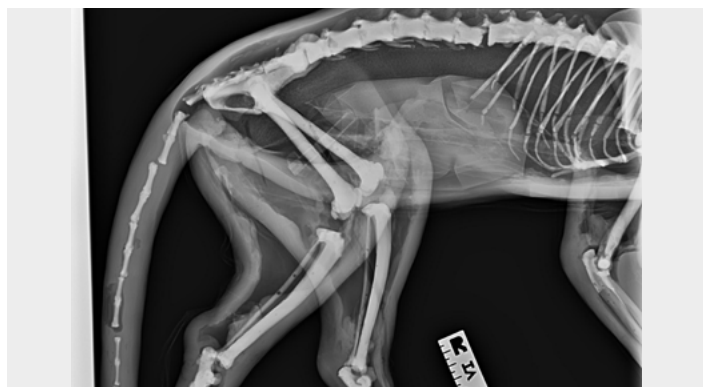
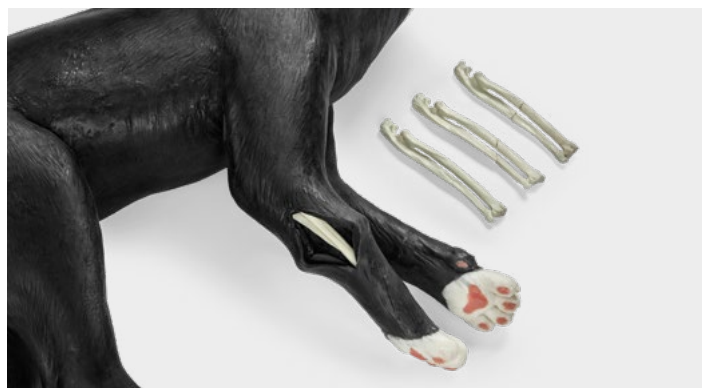
Dental Stone, Acetone, Intro Cure 20 Clear (polyurethane coating).



- Avoid breathing in dust (wear a mask when scaling and performing other procedures), and rinse immediately if there is any contact with eyes or skin.
- **Contents are flammable**; keep away from heat and flame.

5. Radiology Bones

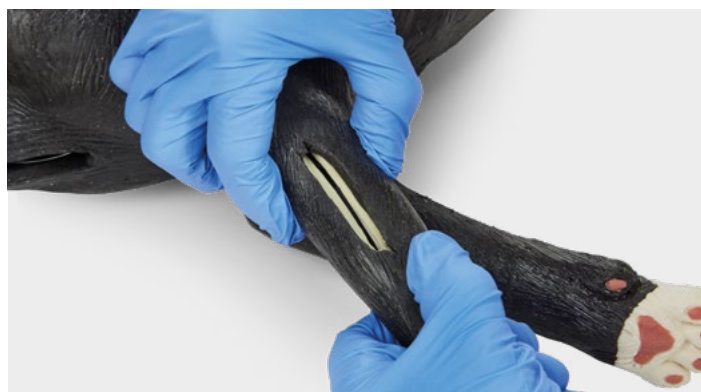
The Feline Tech Simulator features a fully radiographable skeleton encased in durable silicone skin. It includes interchangeable normal and fracture bone sets for the radius and caudal vertebrae, with the radius featuring oblique and transverse fractures and the caudal vertebrae featuring a transverse fracture.



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5.1 Installation

1. To access the bones, gently remove the hide covering by separating the Velcro closures.
2. Open the corresponding silicone access point by carefully pulling apart the edges. Each bone is friction-fitted into place and may require a slight side-to-side motion for removal.



The internal skeletal components are delicate. Handle all parts with care to avoid damage during installation or removal.

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



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