

CAE

Healthcare

CAE Medicor User Guide

Peripheral Intravenous Catheterization Hand



Disclaimer

This product is a simulation device designed for training and demonstration purposes only.

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Cautions and Warnings

Read this user guide, including all cautions and warnings, before you use your CAE Medicor™ skills training model. Use this product only as described in this guide. If you use it incorrectly, it may be unsafe and will void your warranty. Keep this information for future reference.

General Precautions

- Do only the procedures supported by the product as described in this user guide.
- Use only needles. Do not use or store other sharp objects such as scissors, scalpels, or box-cutters with the model.
- Do not pull on the training model skin. This can cause the skin to tear.
- Do not expose the training model to sunlight for prolonged periods.
- Do not use or store the training model near a heat source.
- Avoid contact with materials that can discolor the training model.
- Do not use chemical solvents on the models.
- Clean the training model with water and a light soap solution only. Do not immerse the model or use large amounts of liquid to wash it.

Latex Statement

- Currently, CAE Medicor products with tubing contain latex. Solutions to remove latex from our product line are in development.
- Users with latex sensitivity should use caution when replacing tubing.
- Please refer to the specific product details for any additional information on latex components.

Fluids

- Use only fluid solutions made with CAE Medicor powders in our products. Do not substitute any other fluid and use fluid only as directed.
- Do not use theatrical blood. Use only simulated blood created with the included powder.
- Do not modify fluid reservoirs or any other product component.
- Wear gloves when using simulated blood fluid. It will stain skin and clothes.
- Protect your eyes, skin, and clothing against accidental fluid exposure. The Material Safety Data Sheet (MSDS) is available on the CAE Healthcare website.
 - May irritate eyes or skin; flush well with water.
 - May contain pigments that stain clothing; wash immediately with cold soapy water.
- Fluids are not intended for human consumption. If accidental ingestion occurs, drink a glass of water and consult a physician.

Needles

- Use only new, sharp, unbent 22 gauge needles. Smaller needles (higher than 22 gauge) can bend during use and damage the model.
- The self-healing feature of CAE MedicSkin™ applies only to needle sticks. Healing is not guaranteed if needles larger than 22 gauge, scalpels, or other sharp implements are used to cut into or pierce the model.
- Replace needles after ten uses. Dull needles can damage the model.
- Use extreme caution when using needles during training to avoid injury.

Introduction

This user guide describes the features, use, and care of the following skills training models:

- CAE Medicor Peripheral Intravenous (IV) Catheterization Hand
- CAE Medicor Peripheral Intravenous (IV) Catheterization Hand with Bracket

These models are intended as platforms for the practice of peripheral intravenous access and phlebotomy procedures in the small veins of the hand.



CAE Medicor Peripheral IV Catheterization Hand

Anatomy

The Peripheral IV Hand is constructed of realistic CAE MedicSkin and offered in three different skin tones.

The anatomy of this model includes:

- Dorsal vein
- Cephalic vein
- Basilic vein

The model has tubes that have a female Luer lock connector to work with equipment that has a male Luer lock connector. The tubes are used to fill the vessels within the model. Users must infuse fluid to prepare the model for use. More information can be found in the *Fluid Setup* section of this guide.

Equipment Overview

The following items are included with your shipment:

- Skills training model
- Fluid input bag with integrated Dial-A-Flow and tubing
- Fluid output bag with tubing
- Simulated blood powder
- Bracket (Bracket model only)

The following additional items are required for training but not included in your purchase:

- Distilled water
- Procedure equipment per local protocol

Optional accessories or consumables for your model are available to purchase on the CAE website:

- Replacement fluid bags
- Simulated blood powder

Note: This model has a finite lifespan and does not support replacement of the internal tubing or skin.

Using the Training Model

This section has information and instructions about the setup and use of the training model and any specific procedures.

Setup

Follow the guidelines below to unpack and set up your CAE Medicor training model:

1. Open the shipping carton:
 - Use extreme caution with sharp tools, such as a box cutter, to avoid damage to the training model or any accessories.
2. Unpack the equipment:
 - Remove the training model from its shipping container.
 - Review the equipment, accessories, and supplies. See the *Equipment Overview* section of this user guide for a list of items included with this model.
3. Set up the skills training model:
 - Place the model palm facing down on a stable table or other work surface.
 - Place the model on smooth surfaces only. Rough or uneven surfaces can leave impressions on the skin and damage the model.

Fluid Setup

To begin, mix the simulated blood fluid:

1. Measure 500 mL of distilled water.
2. Check that the clamps are securely closed on the fluid bags.
3. Open the lid of the input fluid bag (included) and pour in the measured distilled water.
4. Add one packet of simulated blood powder to the distilled water.
5. Close the lid of the input fluid bag securely and shake for approximately 30 seconds or until the blood powder is completely dissolved and no particles are visible.

To complete the setup:

1. Hang the input bag on an IV pole or support 12 inches (30 cm) above the training model. Check that the clamps are securely closed.

Note: The bag must remain elevated throughout the training session.

2. Check that the clamps are securely closed on the output fluid bag.
3. Connect the output bag to the tube on the medial (pinky) side of the hand.

Using the Training Model

4. Place the output bag on a flat surface, level with the model or lower.
5. Connect the input fluid bag to the Dial-A-Flow and connect the Dial-A-Flow to the tubing on the lateral (thumb) side of the hand.
6. Start the fluid flow:
 - a. Verify that the output fluid bag is arranged at the same level or lower than the training model, while the input bag is 12-16 inches above the training model.
 - b. Verify that the cap on the output fluid bag is securely closed to avoid leakage.
 - c. Open the clamp on the tube of the output fluid bag.
 - d. Open the clamp on the tube of the input fluid bag.
 - e. Open the Dial-A-Flow on the tube of the input fluid bag to allow the flow of the simulated blood fluid.
7. Allow the simulated blood fluid to flow from the input fluid bag into the hand until simulated blood appears in the tube connected to the output fluid bag.
8. Wait until the simulated blood fluid reaches the output fluid bag and no bubbles are detected in the tubing to the output fluid bag.
9. Keep all clamps open while using the training model.
10. Adjust the Dial-A-Flow so the drip rate is at 1 drop per second to avoid emptying the input fluid bag.

Training

Our products are essential practical components to complement and enhance your training curriculum and provide a realistic simulation experience to practice the psychomotor skills needed for various procedures.

Peripheral IV and Phlebotomy Procedures

CAE Medicor products do not teach procedures or techniques. Refer to your institution or training program for more information.

Care and Maintenance

With proper care, your training model will remain in optimal condition and ready for use.

Storage and Transport

Follow these guidelines to properly store or transport your model:

- Storage temperature degree range: 64 – 77 °F (18 – 25 °C)
- Store in a dry location protected from dust and direct contact with sunlight.
- Do not store in contact with other training models or hard objects as the pressure can damage the CAE MedicSkin tissue. Do not stack multiple training models on top of each other.
- Transport the model securely so it does not fall.
- Do not carry by the tubes or use them as handles as this will damage the model.

Cleaning

To maximize the lifespan of the product, clean the product thoroughly after each use and before storage.

Note: You must flush the simulated blood fluid from the internal tubing after each training use to avoid product damage.

To clean the exterior:

1. Mix one cup of tap water with ¼ teaspoon of mild liquid soap (such as dish soap).
2. Gently clean the exterior with the soap mixture and a soft, non-abrasive sponge or cloth.
3. Rinse lightly with clean water.
4. Dab or pat with a clean, soft, lint-free cloth to dry the product after cleaning. Do not wipe or rub the skin, which can damage it.
5. Make sure the model is completely dry for storage.

To flush and clean the internal tubing:

1. Make sure the clamps on both tubes of the training model and the input and output fluid bags are securely closed.
2. Disconnect the input and output fluid bags from the hand.
3. Fill a separate fluid bag with distilled water. Make sure the clamp is securely closed.
4. Connect the separate fluid bag to the lateral (thumb) side of the hand.
5. Place the base of the hand over an empty container. Make sure the tube located on the medial (pinky) side of the hand hangs into the container.
6. Open the clamps to all tubing.

Care and Maintenance

7. Allow the distilled water to flow through the tubing into the empty container until the fluid flow stops.
8. Close the clamps on all tubing.
9. Disconnect the separate fluid bag from the hand.
10. Repeat steps 3 through 8 until the fluid runs clear into the container.

Help and Technical Assistance

For assistance, contact CAE Customer Support. Contact information for all regions is available on the back cover of this guide and on the CAE Healthcare website.



Healthcare

For more information about CAE products, contact your regional sales manager or the CAE distributor in your country, or visit caehealthcare.com.

Tel +1941-377-5562 or 866-233-6384

For customer support, please contact CAE.

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Monday - Friday from 7:00 a.m. to 6:00 p.m. ET

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