

CAE

Healthcare

CAE Medicor User Guide

Multipurpose Skills Trainers



Disclaimer

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

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Contents

Cautions and Warnings.....	1
General Precautions.....	1
Latex Statement.....	1
Fluids.....	1
Needles.....	2
Introduction.....	3
Anatomy.....	4
Equipment Overview.....	5
Using the Training Model.....	7
Setup.....	7
Fluid Setup for Venipuncture.....	7
Fluid Setup for Urinary Catheterization.....	8
Training.....	9
Care and Maintenance.....	11
Storage and Transport.....	11
Cleaning.....	11
Cleaning the Latex Vein.....	11
Cleaning the Internal Tubing.....	12
Cleaning the Internal Injection Sponge.....	12
Cleaning the Internal Reservoir.....	12
Help and Technical Assistance.....	13

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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 model as described in this user guide.
- Use needles only. Do not use or store scissors, scalpels, box-cutters, or other sharp objects with the model.
- Do not pull on the model skin. This can cause the skin to tear.
- Do not expose the model to sunlight for prolonged periods.
- Do not use or store the model near a heat source.
- Avoid contact with materials that can discolor the model.
- Do not use chemical solvents on the models.
- Clean the model with water and a light soap solution only. Do not immerse 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 information on additional 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 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 MultiPad 1
- CAE Medicor MultiPad 2
- CAE Medicor MultiCube

These models are intended as platforms for the practice of a variety of clinical skills.

MultiPad 1 supports venipuncture, IV, and phlebotomy skills with fluid flow, as well as suturing and injection.



CAE Medicor MultiPad 1

MultiPad 2 supports catheter and medication insertions, plus wound care and suturing.



CAE Medicor MultiPad 2

Introduction

MultiCube supports suturing, injection, venipuncture with flashback, catheter insertion with fluid flow, and wound care.



CAE Medicor MultiCube

Anatomy

The Multipad and Multicube models are constructed with realistic CAE MedicSkin and are offered in three different skin tones. The anatomy of each model is as follows:

- Multipad 1
 - Three different wounds
 - Injection pad with reservoir (40 mL capacity)
 - Latex vein
- Multipad 2
 - One laceration
 - One open wound with tunneling
 - Female genitalia with vaginal and urethral openings
 - Anus
- Multicube
 - Latex vein
 - Injection pad with sponge
 - One laceration
 - One open wound with tunneling
 - Female genitalia with vaginal and urethral openings

The latex vein on MultiPad 1 and MultiCube tubes has a female Luer lock connector to work with equipment that has a male Luer lock connector. Users must infuse fluid to prepare these skills trainers 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 supply bag with tubing (MultiPad 1 only)
- Simulated blood powder sample (MultiPad 1 and MultiCube only)
- Urinary bottle (MultiCube only)
- Simulated urine powder (MultiCube only)
- Syringe with tubing (MultiCube only)

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

- Procedure equipment per local protocol

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

- Simulated blood powder
- Replacement syringes with tubing
- Replacement fluid bags with tubing

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Using the Training Model

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

Setup

Follow the guidelines below to unpack and set up your 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 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 on a very stable table or similar 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 for Venipuncture

Applies to Multipad 1 and MultiCube only

To begin, mix the simulated blood fluid:

1. Put the simulated blood powder into the included bottle.
2. Fill the bottle with 20 mL of distilled water.
3. Close the bottle tightly to avoid any leakage.
4. Shake the bottle vigorously for approximately 30 seconds.
5. Let the bottle stand for 5 minutes. The solution should now have a viscous consistency and is ready for use.

Using the Skills Trainer

To complete the setup for MultiPad 1:

1. Close clamps on both ends of the latex vein that extends from the MultiPad.
2. Attach the supplied IV tubing to the fluid bag and close roller clamp.
3. Fill the fluid bag with simulated blood fluid. Distilled water may also be used.
4. Prime the IV tubing: Hold the end of the tubing over a container or sink, and open the roller clamp to allow the fluid to flow through the tubing. Allow it to flow until any air bubbles are out, then close the roller clamp.
5. Attach the tubing to the latex vein and open the clamp closest to the connection. Leave the clamp on the other side of the latex vein closed.
6. Slowly open the roller clamp and let the fluid flow until it fills the latex vein.
7. Adjust the roller clamp for a fluid flow of one drop per second.

Setup is now complete to practice venipuncture, IV, and phlebotomy skills on MultiPad 1. Close the roller clamp when training is complete.

To complete the setup for MultiCube:

1. Close clamp on one end of the latex vein that extends from the MultiPad.
2. Fill the syringe with simulated blood fluid. Distilled water may also be used.
3. Connect the syringe to the latex vein and infuse fluid to fill the latex vein. Leave the clamp on the other side of the latex vein closed.

Setup is now complete to practice venipuncture on MultiCube.

Fluid Setup for Urinary Catheterization

Applies to MultiCube only

To begin, mix the simulated urine:

1. Put the simulated urine powder in the included bottle.
2. Fill the bottle with 20 mL of distilled water.
3. Close the bottle tightly to avoid any leakage.
4. Shake the bottle vigorously for approximately 30 seconds to dissolve powder.
5. The solution should be now ready for use.

To complete the setup, with the lid still on, place the urine bottle upside-down into the hole located on the side of the MultiCube above the female genitalia. MultiCube is ready for catheterization practice.

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.

CAE Medicor products do not teach procedures or techniques. Use your local protocol and equipment for practice, and follow your institution's policies and guidelines.

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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.

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.

Cleaning the Latex Vein

Applies to MultiPad 1 and MultiCube only

Flush the simulated blood fluid from the MultiPad 1 and MultiCube latex vein after each training use to avoid product damage.

To flush and clean the internal tubing:

1. Prepare a fluid bag and IV tubing.
2. Make sure the clamps are securely closed, then fill the fluid bag with distilled water.
3. Connect the IV tubing to the latex vein.
4. Place the skills trainer in a sink or hold over an empty container.

Care and Maintenance

5. Open the clamps on both sides of the latex vein.
6. Open the clamps on the fluid bag and tubing.
7. Allow all the distilled water to flow through the latex vein.
8. Close the clamps on the fluid bag and IV tubing.
9. Refill the fluid bag and repeat until the fluid runs clear into the container.
10. Disconnect the separate fluid bag from the arm and allow to dry completely before storage.

Cleaning the Internal Tubing

Applies to Catheterization Models only

When training is complete, follow these steps:

1. Disconnect the urinary bottle.
2. Hold the model over a sink or empty container and allow to drain completely.
3. Rinse and drain again as needed.
4. Allow the model to dry completely before storing.

Cleaning the Internal Injection Sponge

Applies to MultiCube only

MultiCube has a sponge insert under the injection pad. When training is complete, or anytime the sponge is full, follow these steps:

1. Remove the injection pad skin.
2. Remove the sponge from from MultiCube.
3. Rinse and squeeze out the sponge.
4. Allow the sponge to dry completely before replacing into MultiCube.

Cleaning the Internal Reservoir

Applies to MultiPad 1 only

MultiPad 1 has an internal reservoir under the injection pad. When training is complete, or if the capacity of 40 mL has been injected, follow these steps:

1. Remove the cap of the reservoir on the back of the MultiPad 1.
2. Hold the opening over a sink or empty container and allow to drain completely.

3. Rinse and drain again as needed.
4. Replace the cap and continue with training, or let the reservoir to dry completely before replacing the cap and storing.

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.

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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.

Customer Support Headquarters - United States

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

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Email: srqcustomerservice@cae.com

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Monday - Friday from 8:00 a.m. to 5:00 p.m. ET

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