Healthcare

CAE Blue Phantom User Guide

BPOB1220 Transvaginal Ultrasound Training Model, general pathology
BPOB1801 Transvaginal Ultrasound Training Model, sonohysterography and sonosalpingography
BPOB1227 Transvaginal Ultrasound Training Model, ectopic and intrauterine pregnancy

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BPOB1801 Transvaginal Ultrasound Training Model, sonohysterography and sonosalpingography

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 Blue Phantom™ ultrasound training model. Use this product only as described in this guide. If you use the product incorrectly, it may be unsafe and will void your warranty. Keep this information for future reference.

General Precautions

- Make sure the training model is set up on a stable, sturdy work surface such as a bed, stretcher, or table that will not collapse and cause injury to users.
- Heavier training models should be placed on a patient bed or stretcher rated to support such weight.
- Place the model on smooth surfaces only. Rough or uneven surfaces can leave impressions on the skin and damage the model.
- Do only the procedures supported by each product as described in this guide.
- Do not use needles. This model is not designed for punctures or other needle access. Using needles can cause injury and will void the warranty.
- Do not use or store other sharp objects such as scissors, scalpels, or box-cutters with the training model.
- Do not pull on the training model skin. This can cause the skin to tear.
- Do not mark directly on the training model as this will permanently damage it.
- Do not insert any objects or tools into the model except for the equipment, accessories, or medical supplies intended for use with this 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-Free

- All CAE Blue Phantom training models, products, and accessories are manufactured only of materials that do not contain latex.

Service and Repair

- The CAE Blue Phantom training models are not user-serviceable. Only a trained technician may open or disassemble the product.
- Unauthorized use or handling of the model may void the warranty.
- If you have a problem with your product, contact CAE Customer Support.

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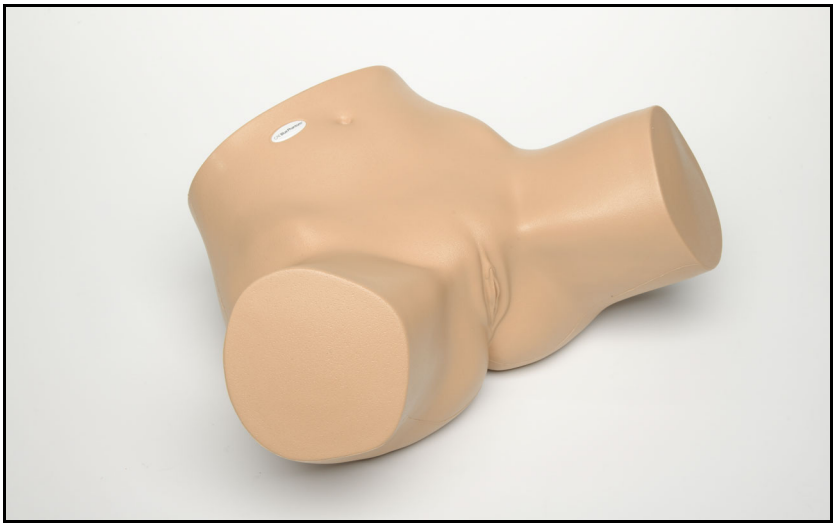
Introduction

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

- CAE Blue Phantom Transvaginal Ultrasound Training Model, general pathology (BPOB1220)
- CAE Blue Phantom Transvaginal Ultrasound Training Model, intrauterine and ectopic pregnancy (BPOB1227)
- CAE Blue Phantom Transvaginal Ultrasound Training Model, sonohysterography and sonosalpingography (BPOB1801)

These models are intended as platforms for the practice of endovaginal ultrasound examination.



Ultrasound Training Model

Anatomy

CAE Blue Phantom training models are constructed using our patented Simulex™ ultrasound tissue which has imaging characteristics that mimic human tissue. The models contain skeletal components so the user will encounter the same imaging landmarks as in a human patient.

General Pathology Model (BPOB1220)

This anatomy of this model includes the following elements:

- Endovaginal and cervical canal
- Bladder with bladder wall
- Uterus with prominent endometrium
- Multiple uterine fibroids
- Free fluid in cul-de-sac

- Two patent fallopian tubes
- Left and right ovaries with follicles, an ovarian cyst, and a large ovarian mass
- Broad ligaments
- Bowel and colon

Intrauterine and Ectopic Pregnancy Model (BPOB1227)

This anatomy of this model includes the following elements:

- 7 week fetus with amniotic sac and placenta
- Endovaginal canal
- Bladder with bladder wall
- Cervix
- Uterus with intrauterine pregnancy
- Endometrium
- Extratuerine pregnancy
- Left and right ovaries with follicles
- Corpus luteum cyst
- Free fluid in cul-de-sac
- Broad ligaments
- Maternal bowel and colon

Sonohysterography and Sonosalpingography Model (BPOB1801)

This anatomy of this model includes the following elements:

- Endovaginal canal (non-imaging)
- Cervix
- Cervical canal
- Uterus with fibroid
- Two patent fallopian tubes
- Bowel

As a platform for sonohysterography and sonosalpingography, this model supports the introduction of saline, as needed, as part of these procedures. The internal fallopian tubes are continuous with two fallopian tube extensions that exit the model, allowing fluid to flow. Additional equipment, such as a catheter, is required to infuse fluid.

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Equipment Overview

The following items are included with your shipment:

- Ultrasound training model
- Soft storage case
- Privacy skirt

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

- Ultrasound system with endovaginal transducer
- Ultrasound gel

CAE Blue Phantom training models are compatible with any diagnostic ultrasound system. General frequency ranges for diagnostic ultrasound imaging are 2-20MHz.

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Using the Training Model

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

Setup

Follow the guidelines below to unpack and set up your CAE Blue Phantom 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.
2. Unpack the equipment:
    - Remove the training model from its shipping container. For heavier models, use proper lifting techniques to prevent bodily injury.
    - Review the equipment, accessories, and supplies to make sure all necessary pieces are present. See the *Equipment Overview* section of this guide for a list of items included with this model.
3. Set up for training:
    - Put the model on a stable patient bed, stretcher, or table.
    - Prepare your ultrasound system and equipment.
    - Gather any procedural equipment and supplies.

The Privacy Skirt

To dress your training model:

1. Lay the privacy skirt on a table with the logo facing down.
2. Place the model in the supine position in the center of the privacy skirt.
3. Wrap the skirt around the hips of the model and secure with Velcro strips. If the skirt is properly oriented, the two ends of the skirt will lie flat between the model's legs.

The privacy skirt can be cleaned if needed. See the *Care and Maintenance* section for instructions.

Training

Our training models are the essential practical component to complement your ultrasound training curriculum and provide a realistic simulation experience to practice technique and ultrasound-guided procedures.

Ultrasound Scanning

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

To use this transducer on a training model, you must lubricate both the transducer and the vaginal canal of the training model with ultrasound gel. This additional step is necessary because unlike live patients, the training model does not have natural lubrication. Ensure the length of the transducer is well-lubricated prior to inserting into the training model.

Transducer covers are often used in exams with real patients. Transducer covers are not necessary when using a training model, but you may use them for realism if desired. If you use a transducer cover, follow these steps:

1. First, cover the tip of the transducer with gel.
2. Next, place the transducer cover over the endovaginal transducer.
3. Then apply gel to the sheathed transducer in adequate quantities so that the probe slides easily into the model. Add more gel as needed.

Buildup of dried ultrasound gel should not impair echocardiographic imaging and can easily be cleaned from the model. For instructions, see the *Care and Maintenance* section of this user guide.

⚠ CAUTION

You must lubricate the endovaginal transducer and the vaginal canal of the training model with ultrasound gel, or damage to the model will occur.

To conduct a transvaginal ultrasound examination with your training model:

1. Place the model in the appropriate position for scanning.
2. Place ultrasound gel on the transducer in adequate quantities so that the probe slides easily into the model. Add more gel as needed.
3. Adjust the ultrasound system controls per your training protocol and the manufacturer's instructions. Optimize the image with the ultrasound controls as needed.

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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: 45 to 85 °F (7 to 29 °C)
- Store the model in its included storage case.
- Do not store in contact with other models or hard objects as the pressure can damage the Simulex tissue. Do not stack multiple training models on top of each other.
- Transport the model securely so it does not fall.

Cleaning

To maintain the product skin for the lifespan of the product, clean the exterior of the model after each use. Follow these steps:

1. Mix one cup of tap water with ¼ teaspoon of mild liquid soap (such as dish soap).
2. Gently clean the model 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. After the model has dried completely, lightly coat the external surface of the model with baby powder and dust off any excess.

Internal Cleaning

Clean the inside of the model every six months, or anytime you notice a reduced quality of the echocardiographic image. Follow these steps:

1. Purchase a feminine douche product from a drugstore or your preferred retailer.
2. Follow the product manufacturer's instructions to prepare the douche for use.
3. With your model in the supine position, insert the cleaning tip into the vaginal opening.
4. Deliver half the cleanser into the model. Reserve the other half for the next cleaning.
5. Carefully tilt the model upright so the contents can drain. You do not need to swab out the cavity of the model after cleaning, but the model must remain in the upright position to drain and dry.
6. Use paper towels to remove any remaining gel that empties from the vaginal cavity.

Cleaning the Privacy Skirt

To clean the privacy skirt:

1. Place the skirt in a washing machine on the gentle cycle using cold water only. Warm or hot water will damage the fabric.
2. Do not add any laundry soap or detergent. Detergents will damage the fabric.
3. Hang or lay out flat to air-dry. Do not tumble-dry. Heat will damage the fabric.

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.

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