



BIOTME® Ultrasound Blocks

Instruction Manual

Covers BIOTME® products from the **ARB200–600** series





Thank you for purchasing this BIOTME® – Ultrasound Block from Adam,Rouilly.
Please read this instruction manual carefully and retain it for future reference.

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Cover image photographed at Aston University Medical School

Let us walk you through it
Watch the video now

Visit our YouTube Channel:
<https://www.youtube.com/AdamRouilly>



Safety and Precautions



Do not store the simulator near heat or where it may experience extremes in temperature and humidity.



For all **vascular access** products, use only new 22G or smaller needles/access devices. Larger needles may cause wear and reduce the material's ability to conceal needle tracks.



For ARB500 and ARB500/50 Breast Pathologies models, use only new 14G or smaller needles. Larger needles may cause wear and reduce the material's ability to conceal needle tracks.



For ARB206 and ARB206/50 Ultrasound Simulators with Foreign Bodies – this model is for identification only; do not puncture or pierce.



The cover forms a storage receptacle for the product. Replace cover after each use.



Ensure that all needles and access devices are removed once training is complete. Leaving devices inside the model may cause damage, decrease durability and invalidate your guarantee.



Do not leave or store anything on top of the simulator. Doing so could cause accelerated wear. Always replace the cover after use.



Always wipe down the simulator after each training session.



On interventional models, needle traces disappear within a few days after practice (when used with 22G or smaller needles).



Replace the vein caps after refilling. Do not use the simulator without vein caps fitted.

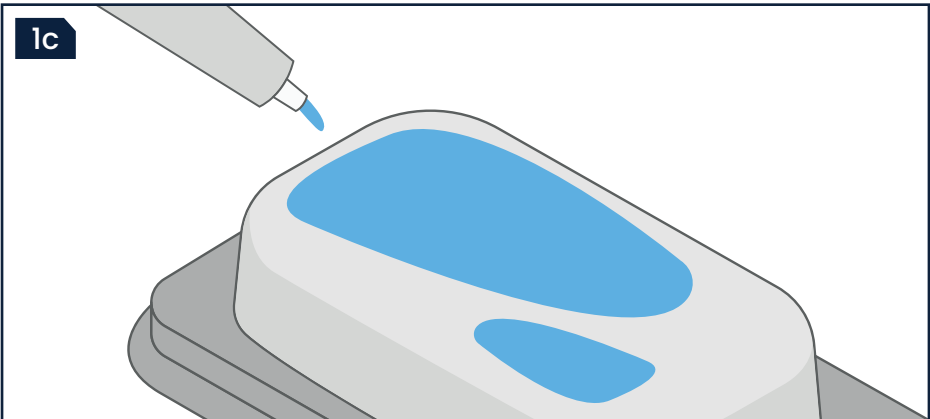
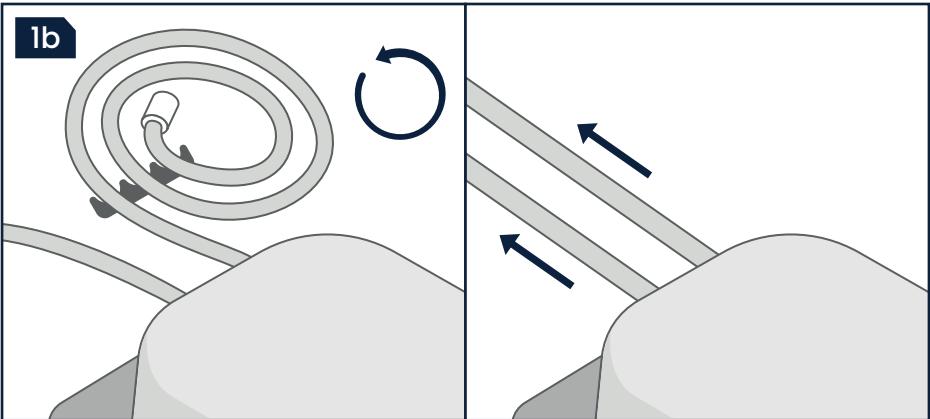
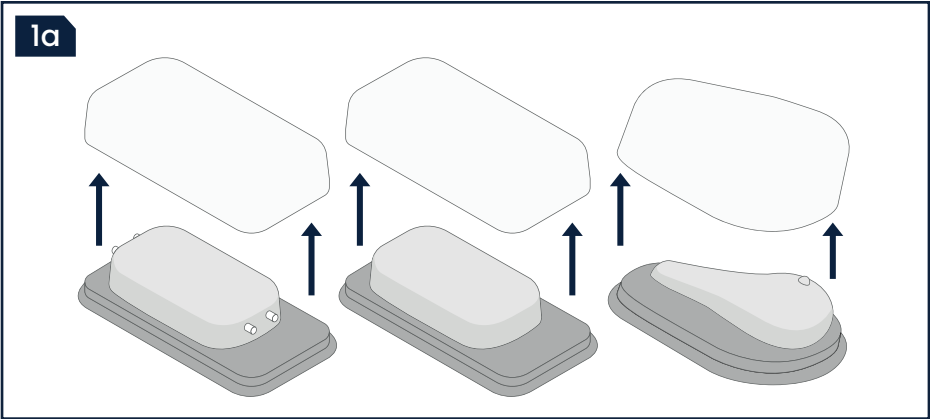


Please treat the simulator with the same care you would a patient.

Spares & Repairs

ARB600 Mock Blood Refill Kit

Before Use



Preparing The Model For Use

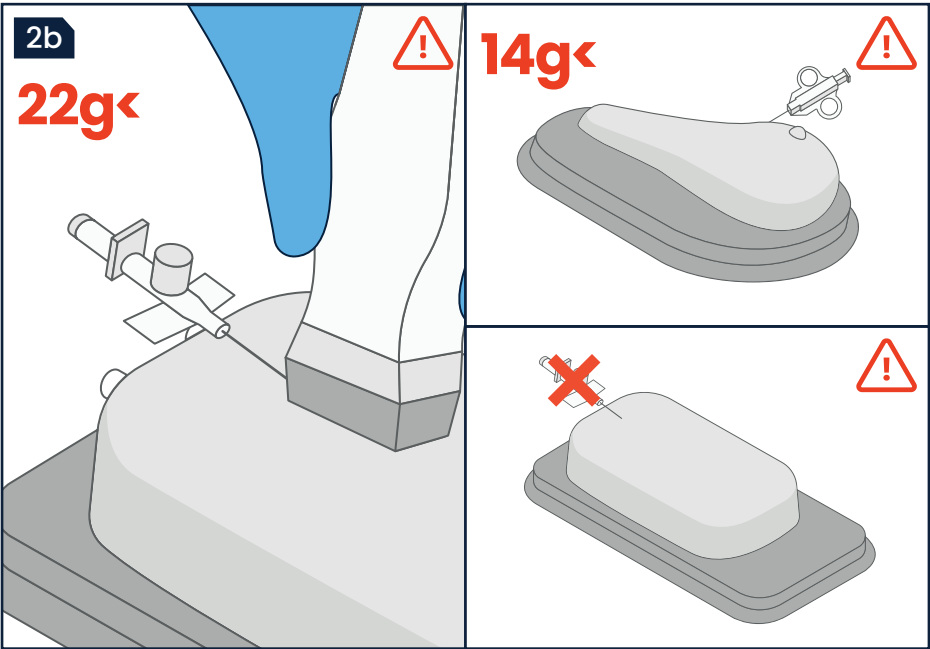
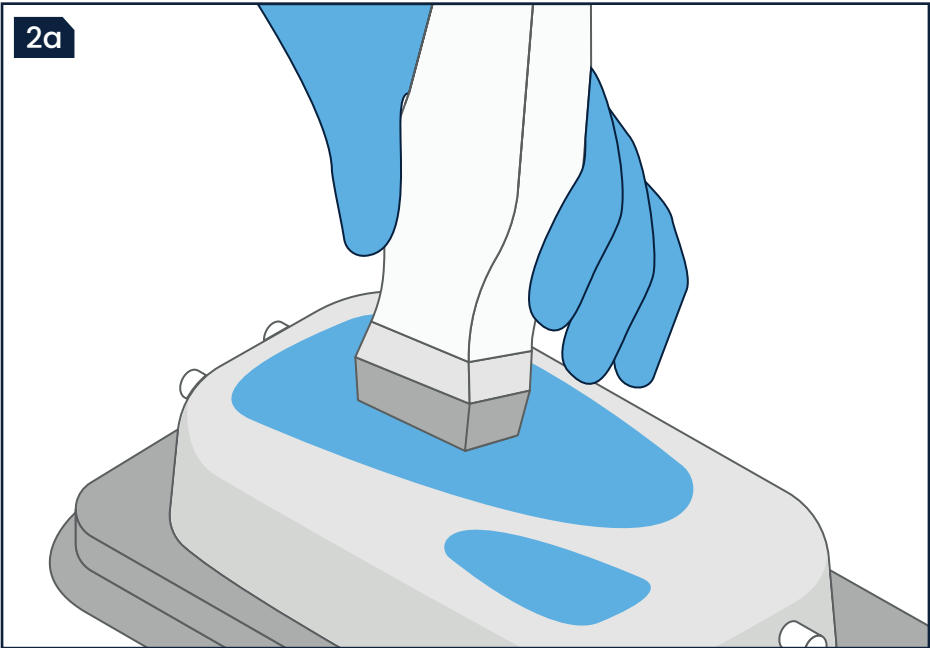
1a Remove the protective plastic cover from the model.

1b On models with extended vein capacity for introducers/cannulas, unclip and unfurl the vein extensions.

Retain the clips for storage.

1c To achieve optimal sonographic performance, ultrasound gel must be applied to the model.

During Use



Ultrasound Image Optimisation

2a

Models are constructed from an echogenic material which provides a realistic anatomical image under ultrasound. Adjustments in gain, depth etc. may be required as in real life.

2b

For best results, comply with the recommended devices during use:



For all **vascular access** products, use only new 22G or smaller needles/access devices. Larger needles may cause wear and reduce the material's ability to conceal needle tracks.

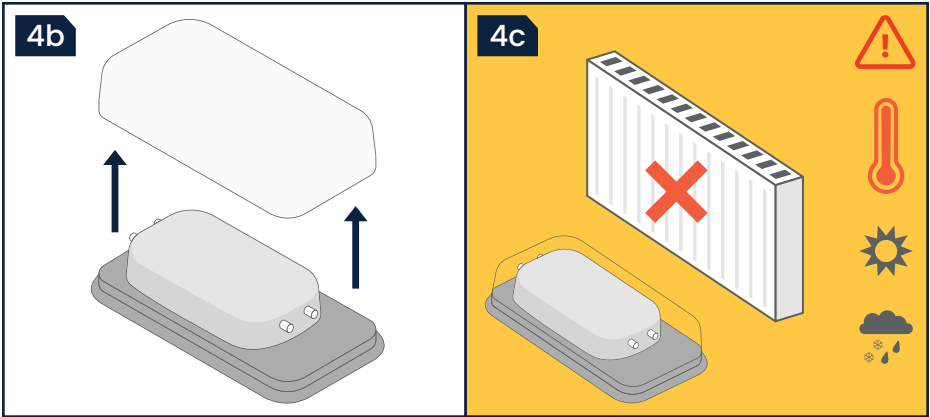
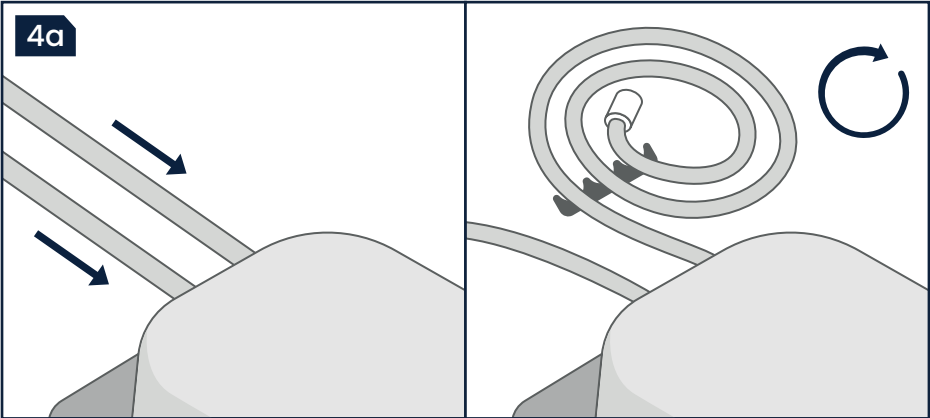
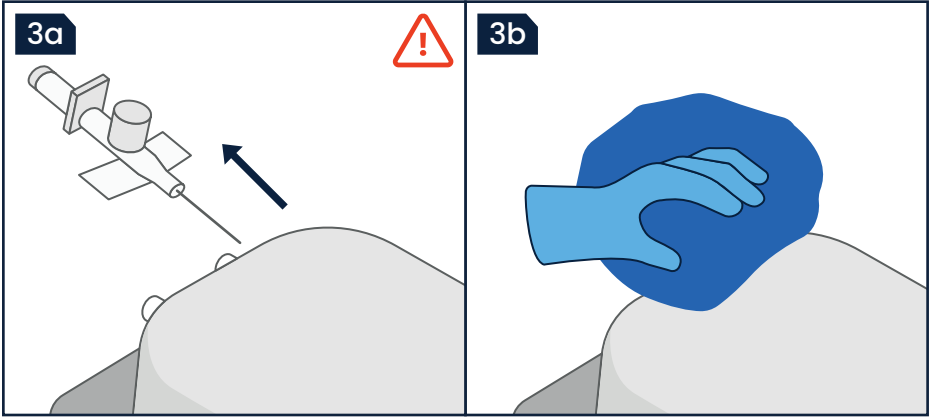


For **ARB500 and ARB500/50 Breast Pathologies models**, use only new 14G or smaller needles. Larger needles may cause wear and reduce the material's ability to conceal needle tracks.



For **ARB206 and ARB206/50 Ultrasound Simulators with Foreign Bodies** – this model is for identification only; do not puncture or pierce.

After Use



Cleaning

3a Remove any devices used in training.



Ensure that all needles and access devices are removed once training is complete. Leaving devices inside the model may cause damage, decrease durability and invalidate your guarantee.

3b Wipe the simulator clean of any excess ultrasound gel, artificial blood etc. from training.

Simulator can be gently cleaned with a mild soap solution.

Storage

4a On models with extended vein capacity for introducers/cannulas, reclip and refurl the vein extensions.

Reapply the storage clips.

4b The cover forms a storage receptacle for the product. Replace cover after each use.

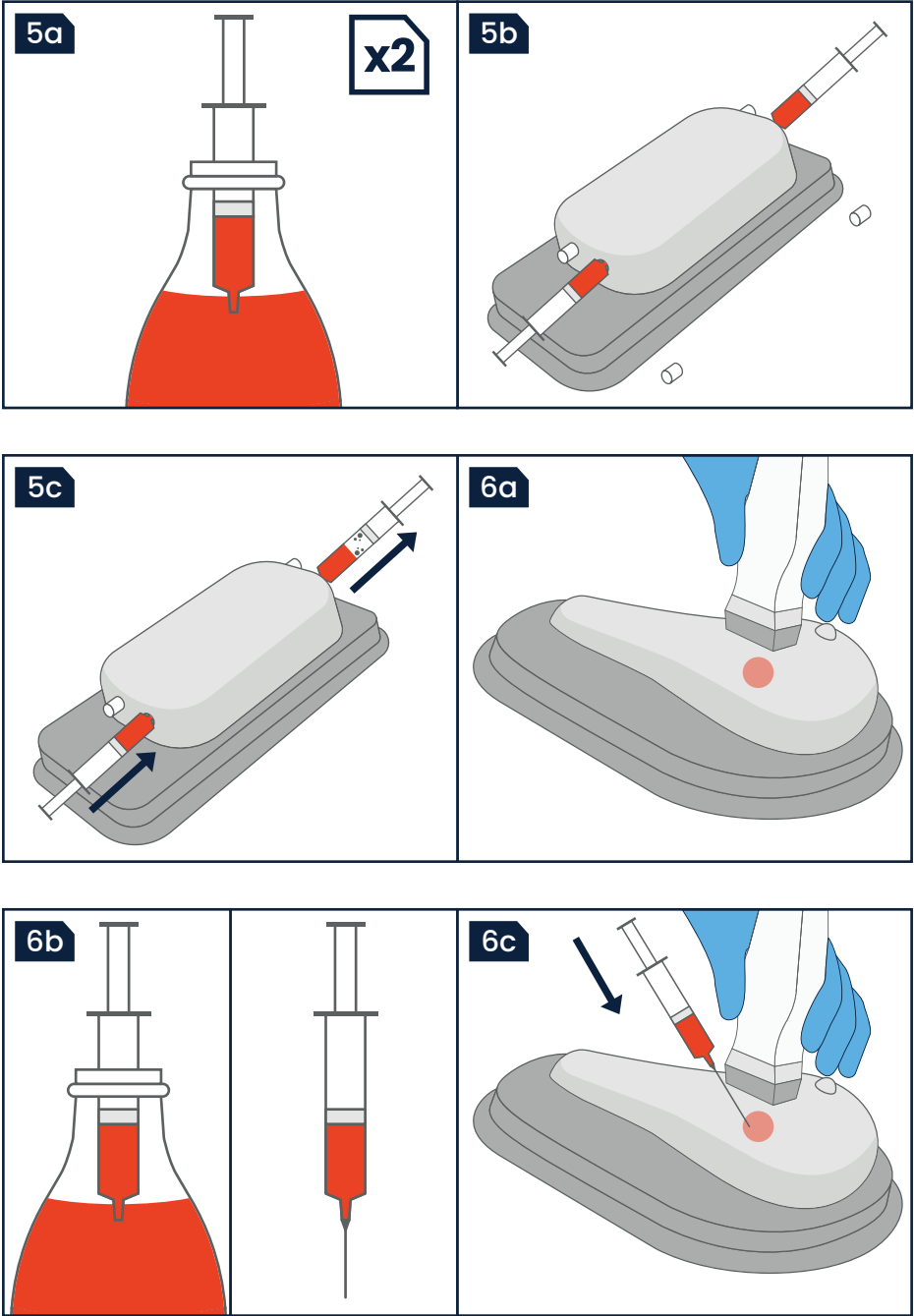
Do not leave or store anything on top of the simulator. Doing so could cause accelerated wear. Always replace the cover after use.

4c Store the trainer carefully.



Do not store the simulator near heat or where it may experience extremes in temperature and humidity.

After Use: Refilling Blood



Blood Refill For Vascular Access Models

Models come pre-filled with artificial blood but will require refilling depending on how they are used and how much blood is removed during procedures. To refill, please order [ARB600 Mock Blood Refill Kit](#). On simulators with multiple veins, the refilling procedure is the same for all veins in the simulator.

- 5a** Draw mock blood from the bottle into both syringes.
- 5b** Elevate the simulator, and unscrew the top white vein cap from the top, attach one syringe. Repeat for the lower white vein cap so that both syringes are now attached to the same vein.
- 5c** Advance the bottom syringe to add blood, whilst withdrawing any air bubbles with the top syringe. The vein is full when no more air appears in the top syringe. Remove both syringes and refit vein caps.
The model is ready for use again.

Blood Refill For Fluid Filled Cyst

The Breast Pathologies Simulator Model contains one 18mm cyst pre-filled with fluid but will require refilling depending on use. To refill, please order [ARB600 Mock Blood Refill Kit](#).

- 6a** Locate the 18mm fluid filled cyst within the model under ultrasound.
- 6b** Fill a syringe with approximately 3ml of mock blood, then attach needle.
- 6c** While guiding the needle under ultrasound, carefully refill the cyst, ensuring no air is injected from the syringe.

Sustainable Disposal Guidance



Models can be returned to us for full recycling at the end of their useful life. Please contact our Sales Team for further information.

1 Year Guarantee



This product, manufactured by Adam,Rouilly, is covered by our 1 Year Guarantee. This guarantee applies to models which have been used correctly and covers durability and functionality.

SERVING MEDICAL EDUCATION WORLDWIDE

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Adam,Rouilly has over 100 years of experience in providing quality medical models and simulators.

As part of our policy of continuous product development, the specifications of our products may change without prior notice.

Should you require further information, please contact our Sales Department, who will be pleased to assist you with your enquiry.

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