

INSTRUCTION MANUAL

Elisa Baby-PICC®

The simulator is ideal for techniques and skills in vascular access and intravenous therapy. The newborn Elisa Baby-PICC® is made of semi-flexible and non-toxic material. It measures approximately 52cm in height and weighs 2.8 kg.

The main characteristic is the multi-functionality, since in a single manikin, it is possible to simulate the techniques of peripheral venous access, central venous access by peripheral access (CCIP / PICC), central venous access via umbilical and other techniques necessary for the development of intravenous therapy with safety for the newborn.

The skin of the head, arms and leg allow visualization of the underlying blue veins. Venous puncture is followed by reflux of artificial blood, which confirms the success of the simulation.

The outside diameter and texture of the vessels have been developed to provide the most realistic feel and appearance possible.

(CCIP / PICC): Allows flexibility in training, having in a single simulator the possibility of introduction and progression of the PICC catheter and access to other veins containing artificial blood. Just mount it with the different systems.

It is the only model that allows the introduction and progression of the PICC catheter at predefined points (arm and leg).

The umbilicus allows the access of the umbilical vein and the installation of catheter. The correct procedure is also verified by the reflux of blood. The correct anatomy facilitates the catheter attachment with tape around the navel.

The veins that can be accessed are: temporal vein; external jugular vein; basilic vein; cephalic vein; umbilical veins and saphenous vein.

This newborn simulator allows vascular access simulation of the following techniques:

- Adoption of aseptic measures;
- Technique of implementation, maintenance and removal of CCIP / PICC;
- Blood collection;
- Infusion of solutions;
- Bandage;
- Fixation and removal of catheters and adhesive tapes;
- Care of the puncture point;
- Application of local anesthetic to prevent pain related to venipuncture in the baby;
- General care with the baby in intravenous therapy;
- Peripheral venous puncture with needle catheter devices (butterfly); catheter under needle;
- Installation of central venous catheters by peripheral access (CCIP / PICC);
- Installation of umbilical catheters;
- Introduction of nasal and oral tubes;

In addition to the above techniques, it still allows the simulation of nasal and gastric catheterization.



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The Elisa Baby PICC® simulator is easy to maintain.
The venous system and skin are replaceable.

Accessories:

- Unified vein system
- Metal base
- Artificial blood
- Strips (removes from any surface the spot of the simulated blood)
- Lubricant solution
- Syringes and needles
- Diaper
- Carrying case.
- PICC catheter (not attached to product)

This product was developed in partnership with the Federal University of Rio de Janeiro - Anna Nery Nursing School - Maternal and Child Nursing Department / Child Health Nursing Research Center.

The Elisa PICC baby simulator reproduces a newborn with a feminine and anatomically correct physiognomy, its weight is 2.8 kg, with 52cm of height. It has skins that cover the right and left arms, skin of the head and skin of the right leg. Metal base that serves as a support for the artificial blood bottle, simulated blood, blood stain solution, lubricant solution, instruction manual and carrying case.

The PICC catheter is not included. Simulated blood is available for purchase. The model already accompanies enough quantity for numerous uses since the blood can be reused.

It is possible to implant a PICC line in the model at two normal access points. For a greater realism the dry vein system (without artificial blood) can be used in which the practitioner trains the progression of the catheter. Do not insert liquids in this route. Lubricate the Dry Veins (Arm and Leg) system with just one drop of the SimulaCare® lubricant solution, do not use any other type of lubrication as they can produce residue in the tube lumen, compromising the progression of the PICC catheter.

SimulaCare® manufactures all of the items that make up this product and for your safety we stock all replacement items. The product design allows the user to easily replace all parts when necessary.

The simulator should only be cleaned with PH neutral soap with water or alcohol. Note: Keep away from the simulator: ballpoint pen, products or objects that can promote blemishes. For example: Scribbles made with a ballpoint pen are impossible to remove. So beware!

The logo for SimulaCare, featuring the brand name in a stylized, blue, cursive font with a registered trademark symbol.

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Is it possible to use Iodine Solution 10% on the simulator surface? Yes, but for demonstration purposes only. Do not leave the product exposed for a long period of time, as it may promote surface stains. We suggest that the iodine product should be thoroughly diluted with water.

How do I remove the residual glue from the bandage?
You can use the same solution that is normally used in the human patient.

Limited Warranty

SimulaCare warrants its products if any product is found to contain defective material or workmanship within one year of the invoice date. The product will be repaired or replaced. This warranty does not extend to any item that has been subjected to abuse, neglect, accident or improper installation or application. Nor does it extend to products repaired or altered outside of the manufacturer's facility.

Please provide proof of purchase such as your original invoice when you call or email us in advance for an RA (Return Authorization) number.

Unfortunately, we cannot accept returns without the RA number. Certain defective products and notification of defects may also be sent to the authorized SimulaCare distributor where you purchased the product. Customer is responsible for all costs related to shipping.

SimulaCare is responsible for the safety, reliability and performance of your product only when:

- The repair and modification service is performed by SimulaCare or authorized personnel
- The product is used correctly in strict compliance with the instructions for use.

SimulaCare shall not be liable under this warranty for any incidental or consequential damages and unauthorized repairs and modifications that have been attempted or carried out on the product or any part thereof that has been damaged by accident, misuse or abuse.

This warranty does not cover parts with normal wear, breakage, blemishes, discolorations, and other cosmetic irregularities that prevent the natural degradation of the product.

All parts of the mannequin are replaceable. They can be easily identified in the parts list.

Should any component break or wear, we may request replacement to SimulaCare or your local distributor.

Since the SimulaCare - Elisa PICC manikin is easy to assemble and dismantle, many repairs can be carried out by the owner; If there is any problem, we will be happy to assist you.

Product specifications are subject to change without notice.



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MAINTENANCE

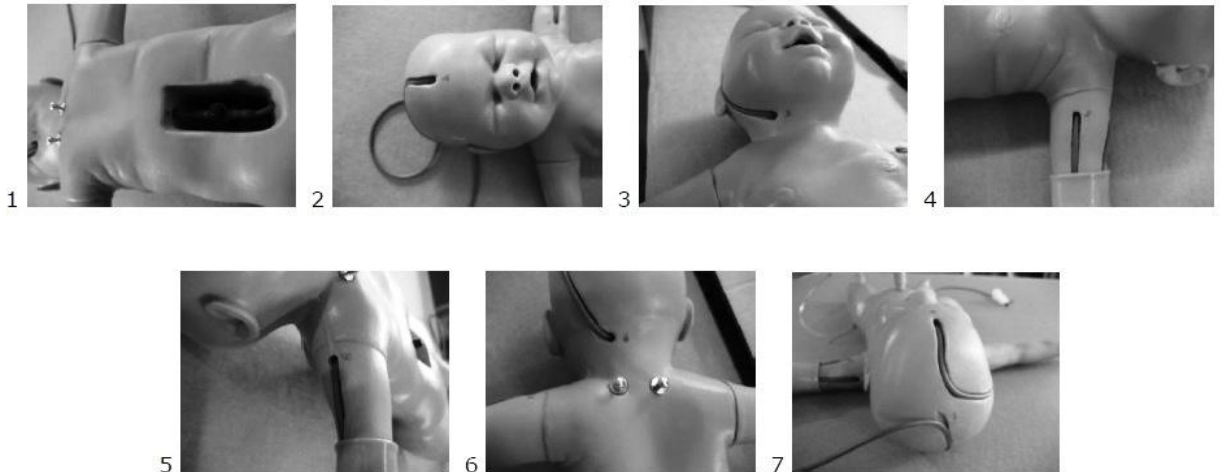
Preventive maintenance is the best way to ensure long-term and trouble-free operation. You must perform a general inspection at regular intervals.

PERIODIC CLEANING

Periodically wash all parts using water and PH neutral soap.

CHANGING SKINS AND VEINS:

- 1) Skin replacement is extremely simple. When changing the new skin, lubricate it in the interior with a little liquid Vaseline or detergent. In order to diminish the friction between the plastic surfaces, push the skin carefully as if placing a glove. If the veins move from the channels, secure them with a thin strip of tape and try to insert it again.
- 2) Remove the used vein system by analyzing the numeric path and reinstall it, or follow step-by-step instructions from the images below: Beginning vein entry by number 1 (back region):



If you feel resistance to continue the replacement of the new vein system, check if the manikin's internal tubes are not humid.

Do not introduce any lubricant into the dry vein system as this may impair the passage of PICC catheter (which should be new and free of any residue on its surface).

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LIST OF COMPONENTS INSTALLED AND INCLUDED WITH THE SIMULATOR:

- 1 Carrying bag
- 1 Chromed metal base (artificial blood bottle holder)
- 1 plastic bottle for simulated blood
- 2 Artificial blood refills
- 1 Stain remover solution
- 1 Lubricant solution
- 1 Instruction manual
- 1 Set of skins (head, right and left arms and leg)
- 1 Vein System

PREPARING THE SIMULATOR FOR USE:

- 1 - Remove the simulator by releasing the Velcro strap
- 2 - Remove the vial with the simulated blood concentrate and add 150 ml of distilled water and mix well.
- 3 - Place the simulator on a level surface.
- 4 - With the pipe attached, make sure the pipe clamp is closed.
- 5 - Hang the bottle of blood in the holder, do not cut the tubes as they are sized for the correct pressure that the fluid should have. If you feel resistance from blood flow, lightly squeeze the vial or check the vein system to see if there is no clogged spot.
- 6 - Join the tube that leaves the head to the equipment containing the simulated blood and insert a catheter with the cap closed into the navel in order not to leak the blood through the navel.
- 7 - Open the tap on the tube and let the blood flow through the system.
- 8 - Raise the whole bottle assembly gently with blood above your head to aid in the flow of the liquid, and control the roller cock coming out of the mannequin's feet until the blood leaks.
- 9 - Position the foot tubing on a sink or container and gradually set the veins with simulated blood slowly open the equipment clamp. Allow the simulated blood to run through the system until no air bubbles are in the tubing.
- 10 - The equipment can now be lowered, placed on the hook of the metal base.
- 11 - Join a 16Fr or 18Fr Catheter IV to a syringe (with the needle removed). Insert the catheter into the umbilical vein approximately one inch. Aspirate slowly and withdraw the catheter from the umbilical vein. It may be necessary to repeat this procedure to remove all air and to prepare the umbilical vein for the simulated blood.



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VEIN SYSTEM CARE AND HYGIENIZATION:

- 1 - After the end of each simulation, disconnect and drain the fluid from the piping and store in a cool place, as it can be reused.
- 2 - With a syringe filled with water, connect the tubing and wash the system by removing the navel and let the liquid pass freely until the reddish color of the blood disappears.
- 3 - Stains generated by non-pigmented agents can be removed by washing with PH neutral soap and warm water.
- 4 - The model can return to the case after it is completely dry.
- 5 - The body resists to stain with the use of Iodine Solution 10%. The product will gradually stain the skins with repeated use of appropriate techniques in the preparation of site. If this is of interest, water can be used to eliminate blemish. Vein and skin life magnified through the use of small gauge needles (20 g or smaller), proper care and storage. Frequent use makes it necessary to replace the vein and skin. (See replacement parts for Elisa PICC Baby ® simulator)

TROUBLESHOOTING:

Problem: There is no blood in the vein.

Solution: Verify that blood has run through the system and has reached the navel. Visually inspect the vein tubing and check if it is not twisted.

Problem: Unable to insert liquids.

Solution: Check steps on preparing the simulator for use. Make sure the fluid bag does not contain more than 250 ml of simulated blood.

Problem: Unable to insert the umbilical catheter.

Solution: Look at the back of the model and check if there is no twisting in the tube. Put some Vaseline into the catheter and insert it again.

ADDITIONAL CHARACTERISTICS

- Measurement of the appropriate feeding tube using anatomical reference points
- Practice of placing and securing nasal cannula
- Upper airway suction



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LIST OF REPLACEMENT PARTS:

- Cat. No. 424 - WHOLE BODY (WITHOUT SKIN AND VEIN)
- Cat. No. 425 - COMPOSITE SKIN SET (HEAD SKIN, RIGHT ARMS - LEFT AND LEG)
- Cat. No. 426 - VEIN SYSTEM
- Cat. No. 427 – BELLY BUTTON WITH 3 WAY SYSTEM
- Cat. No. 428 - METAL BASE
- Cat. No. 429 - SUITCASE FOR TRANSPORTATION
- Cat. No. 420 - BLOOD ARTIFICIAL BOTTLE WITH 150 ML
- Cat. No. 421 - LUBRICANT BOTTLE SOLUTION WITH 150 M
- Cat. No. 422 – STAIN REMOVAL SOLUTION BOTTLE WITH 150 ML



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