

Nasco
Life/form®

**INFANT CHEST SKIN WITH
UMBILICUS AND
ECG MONITORING SITES
LF03710U
INSTRUCTION MANUAL**



Life/form® Products by NASCO

About the Simulator...

The **Life/form**® Infant Chest Skin with Umbilicus and ECG Monitoring Sites is an exciting training aid for practicing and demonstrating umbilical clamping, cutting, and cannulation of the newborn. This simulator combines visual and tactile realism to provide students with the most realistic training possible. The umbilicus allows students to practice clamping, cutting, and aspirating blood, making the use of the simulator a realistic training exercise. The ECG Monitoring System allows rhythms to be detected at four ECG sites.

With proper care, this **Life/form**® simulator will provide years of reliable service. Please read the instructions carefully.



List of Components:

1. **Life/form**® Infant Chest Skin with Umbilicus and ECG Monitoring Sites
2. Umbilicus with Latex Adapter Tube and Ramp Clamp
3. 5 Umbilical Replacements
4. $\frac{3}{8}$ " Drill Bit
5. Venous Blood, 1 pint
6. IV Bag
7. 2 Small Towelettes
8. 6 Umbilical Clamps

Setup:

The *Life/form*® Infant Chest Skin with Umbilicus and ECG Monitoring Sites has been designed to replace the standard outer chest skin on the Resusci® Baby* brand CPR Manikins.

Resusci® Baby* Installation Instructions:

Removing the Regular Chest Skin:

In order to install the Infant Chest Skin with Umbilicus and ECG Monitoring Sites, you must first remove the outer skin that is currently in place on your CPR



Manikin.

Figure 1

Chest Plate Preparation:

Lift out the lung plate and chest plate assembly (Figure 1). Once you have removed the lung plate from your Resusci® Baby* you must determine which style the lung plate is.

If you have a lung plate like the one in Figure 2, you may proceed to "Installing the Umbilicus" on



page 4.



Figure 2

Figure 3

If you have a lung plate like the one in Figure 3, follow the steps below.

You will need to locate the $\frac{3}{8}$ " drill bit included with your *Life/form*® Simulator, and a standard electric $\frac{3}{8}$ " household drill (not included).

Turning the lung plate over, you will find two circular depressions on the lower end of the lung plate (Figure 4).

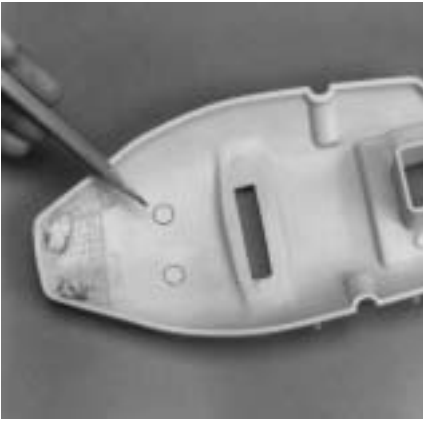


Figure 4



Figure 5



Figure 6

By measuring, find the center between the two circles and mark it with a pencil (Figure 5).

Carefully drill a $\frac{3}{8}$ " hole through the lung plate in the marked location (Figure 6). (Be sure to wear safety glasses during this step.)



Figure 7A



Figure 7B

Be sure the hole is nice and smooth and no burrs are present. You may remove any burrs with a file or by trimming carefully with a scalpel (Figures 7A and 7B).

Installing the Umbilicus:



Figure 8

Once the lung plate and chest plate assembly have been removed, thread the umbilicus up through the lung plate assembly so about two inches are protruding (Figure 8).

Next, coil the extra umbilicus under the plate with the small latex tubing coming out of the right hand side of your Resusci® Baby*.



Figure 9

Now install your lung and chest plate assembly back into the body (Figure 9).



Figure 10

Finally, snap the top four connections down on your new chest skin, thread the umbilicus through the hole in the chest skin (Figure 10), and finish attaching the skin. Push the umbilicus down so only about one inch is protruding.

General Instructions for Use:



Figure 11

A. Preparing the Synthetic Blood:

Concentrated blood colorant is provided. Fill the 16-oz. container with tap water for the proper dilution (Figure 11).

*RESUSCI® BABY IS A TRADEMARK OF LAERDAL MEDICAL CORPORATION.



Figure 12

B. Hanging the IV Bag:

Hang the bag at an 18" height.

C. Filling the IV Supply Bag:

Pour the diluted *Life/form*® "blood" into the IV bag (Figure 12). Distilled water can be used in place of synthetic blood, and is recommended. Be certain the clamp on the tubing is closed before filling.



Figure 13

D. Connecting the IV Bag to the Umbilicus:

The umbilicus is supplied with a special connector that fits the umbilicus tubing and the IV tubing. Insert the connector from the IV tubing into the tubing coming from the umbilicus as shown (Figure 13).



Figure 14

E. Filling the Umbilicus System:

1. Hold a towel or container near the open end of the umbilicus.
 2. Carefully open the clamp and allow the liquid to slowly flow through the system until a steady stream exits all three holes at the umbilicus end.
- NOTE:** Careful adjustment of the ramp clamp is needed to supply a steady stream of "blood" during aspiration procedures (Figure 14).

Procedures that can be Performed on this Simulator:

A. Blood Aspiration:

The *Life/form*® Infant Chest Skin with Umbilicus and ECG Monitoring Sites is now ready for aspiration practice. The "blood" flow is controlled by careful adjustment of the ramp clamp.

B. Cutting the Umbilicus:

The *Life/form*® Infant Chest Skin with Umbilicus and ECG Monitoring Sites Simulator allows the student to practice clamping and cutting the umbilicus. The umbilicus may be drawn out of the body to the desired length for trimming. **NOTE:** When the umbilici are used up, order the Umbilicus Replacements (LF03642U) on page 7.

C. Clamping the Umbilicus:

The *Life/form*® Infant Chest Skin with Umbilicus and ECG Monitoring Sites is perfect for practicing umbilicus clamping and umbilicus clamp removal.

Causes for Failure in Function:

IV infusion may not flow if the bag isn't high enough, if the clamp isn't open, or if the latex tubing is kinked or pinched.

A. During the Procedure of Drawing "Blood," if the "Blood" Cannot be Aspirated:

1. The clamp on the IV tubing may not be open.
2. Air could be trapped in the umbilicus system. Simply flush the system slowly, draining some "blood" or distilled water, whichever you are using, until all the air bubbles are eliminated.
3. Check for possible kinks in the system.

Care of the Simulator:

This training simulator has been designed to provide the greatest possible durability and lowest maintenance while not compromising the realism of use. The following are some suggestions for helping you yield the maximum life from this unique simulator.

A. Before Storing the Infant Chest Skin with Umbilicus and ECG Monitoring Sites:

1. Drain the umbilicus by raising the body over the height of the IV bag and then opening the ramp clamp. Allow the blood to flow back past the bag clamp, then close the clamp.

2. Disconnect the IV bag and pour the fluid back into the container.
3. If synthetic blood was used, flush out both the bag and umbilicus with clean water and allow them to dry.

B. Umbilicus Replacement:

After the length of umbilicus is used up it will need replacing. The simulator comes with five additional umbilici. To replace the used umbilicus with a new piece, do the following:



Figure 15

1. Make sure the clamp on the IV bag is closed.
2. Disconnect the old umbilicus from the latex tubing (Figure 15).



Figure 16

3. Attach the new umbilicus by sliding it inside the tube (Figure 16).
4. Reinstall the umbilicus as described earlier.

Supplies/Replacement Parts for the Infant Chest Skin with Umbilicus:

- LF00845U** *Life/form*® Venous Blood, 1 quart
- LF00846U** *Life/form*® Venous Blood, 1 gallon
- LF01022U** Fluid Supply Stand
- LF01130U** Intravenous Fluid Bag
- LF03642U** Umbilicus Replacements (10 pk)
- W09919U** REN Cleaner

Other Available *Life/form* Simulators

- LF00698U** Adult Injectable Arm (White)
LF00856U Female Catheterization
LF00901U Prostate Examination
LF00906U Ostomy Care
LF00929U Surgical Bandaging
LF00957U Enema Administration
LF00958U Pediatric Injectable Arm
LF00961U Intramuscular Injection
LF00984U Breast Examination
LF00995U Arterial Puncture Arm
LF00997U Adult Injectable Arm (Black)
LF00999U Pediatric Injectable Head
LF01008U Intradermal Injection Arm
LF01012U Heart Catheterization (TPN)
LF01019U Ear Examination
LF01020U Supplementary Ear Set
LF01025U Male Cath-Ed I
LF01026U Female Cath-Ed II
LF01027U Peritoneal Dialysis
LF01028U Suture Practice Arm
LF01036U Spinal Injection
LF01053U Cross-Sectional Anatomy, Torso, Head
LF01054U Cross-Sectional Anatomy, Head
LF01062U Pelvic, Normal & Abnormal
LF01063U Stump Bandaging, Upper
LF01064U Stump Bandaging, Lower
LF01069U Cervical Effacement
LF01070U Birthing Station
LF01082U Cricothyrotomy
LF01083U Tracheostomy Care
LF01084U Sigmoidoscopic Examination
LF01087U Central Venous Cannulation
LF01095U Blood Pressure Arm
LF01108U Intraosseous Infusion Simulator
LF01142U Auscultation Trainer
LF01162U Venatech IV Trainer
LF03000U CPARLENE® Series
LF03601U Adult Airway Management Trainer
LF03602U Adult Airway Management on Manikin
LF03603U Adult Airway Management Head Only
LF03609U Child Airway Management Trainer
LF03610U Child Airway Management Trainer Head Only
LF03611U Child Defibrillation Chest Skin
LF03612U Child IV Arm
LF03613U Child Blood Pressure Arm
LF03614U Child Intraosseous Infusion/Femoral Access Leg Only
LF03615U Complete Child *CRiSis*™ Update Kit
LF03616U Child *CRiSis*™ Manikin
LF03617U Deluxe Child *CRiSis*™ Manikin with Arrhythmia Tutor
LF03620U PALS Update Kit
LF03621U Infant Airway Management Trainer Head Only
LF03622U Intraosseous Infusion Right Leg
LF03623U Infant Airway Management Trainer
LF03626U Child Femoral Access Injection Pad Replacement
LF03632U Child Intraosseous Infusion/Femoral Access Leg on a Stand
LF03633U Child Airway Management Trainer with Torso
LF03693U **Basic Buddy** CPR Manikin
LF03699U "Airway Larry" Airway Management Trainer
LF03720U **Baby Buddy** Infant CPR Manikin
LF03953U *CRiSis*™ Manikin
LF03955U Deluxe *CRiSis*™ Manikin
LF04001U *GERi*™ Nursing Manikin
LF04020U *KERi*™ Nursing Manikin
LF04021U *KERi*™ Basic Manikin
LF04022U *KERi*™ Advanced Manikin
LF04030U *GERi*™ Advanced Manikin
LF04040U *GERi*™ Basic Manikin

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