**Other Available Life/form Simulators**

- LF00698U Adult Injectable Arm (White)
- LF00856U Female Catheterization
- LF0091U 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
- LF1008U Intradermal Injection Arm
- LF1012U Heart Catheterization (TPN)
- LF1019U Ear Examination
- LF1020U Supplementary Ear Set
- LF1025U Male Cath-Ed I
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- LF1027U Peritoneal Dialysis
- LF1028U Suture Practice Arm
- LF1036U Spinal Injection
- LF1037U Hemodialysis Arm
- LF1062U Pelvic, Normal & Abnormal
- LF1063U Stump Bandaging, Upper
- LF1064U Stump Bandaging, Lower
- LF1069U Carpal Efferent
- LF1070U Birthing Station
- LF1082U Cricothyrotomy
- LF1083U Tracheostomy Care
- LF1084U Sigmoidoscopic Examination
- LF1087U Central Venous Cannulation
- LF1095U Blood Pressure Arm
- LF1108U Intravenous Infusion Simulator
- LF1112U Advanced IV Arm
- LF1139U Advanced IV Hand
- LF1142U Auscultation Trainer
- LF1162U Venatech IV Trainer
- LF3000U CARLENE® Series
- LF3601U Adult Airway Management Trainer
- LF3602U Adult Airway Management on Manikin
- LF3603U Adult Airway Management Head Only
- LF3609U 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 Intravenous 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 Intravenous Infusion Right Leg
- LF03623U Infant Airway Management Trainer
- LF03626U Child Femoral Access Injection Pad Replacement
- LF03632U Child Intravenous 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
- LF03772U Baby Buddy Infant CPR Trainer
- LF03720U Basic Buddy CPR Manikin
- LF03953U CRiSis™ Manikin
- LF03955U Deluxe CRiSis™ Manikin
- LF03965U Deluxe “Plus” CRiSis™ Manikin
- LF04001U GERI™ Nursing Manikin
- LF04020U KERI™ Basic Manikin
- LF04021U KERI™ Advanced Manikin
- LF04030U GERT™ Advanced Manikin
- LF04040U GERT™ Basic Manikin
- LF06001U CPR Prompt™ Adult/Child Manikin
- LF06012U CPR Prompt™ Infant Manikin
- LF06200U CPR Prompt™ Keychain Rescue Aid
- LF06200U CPR Prompt™ Rescue and Practice Aid

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**Nasco Life/form®**

**INFANT INJECTABLE TRAINING LEG**

**LF03636U**

**INSTRUCTION MANUAL**

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About the Simulator . . .

The *Life/form®* Infant Injectable Training Leg Simulator is an exciting training aid for practicing and demonstrating intravenous puncture of the newborn. Visual as well as tactile realism has been designed into this training aid to provide students with the most realistic training possible in developing skills for infant venipuncture. A special, ex-tremely thin synthetic skin is paired with rubber tubing with a small lumen and thin walls to make the *Life/form®* Infant Injectable Training Leg Simulator the most realistic means of training medical personnel available.

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 Injectable Training Leg
2. 3 cc Syringe
3. *Life/form®* Venous Blood — 1 Pint
4. 2 IV Bags w/Clamps
5. Pinch Clamp
6. Winged Infusion Set
7. 22 gauge needle
8. 2 Towels

Internal Structure:

Figures 1 & 2 on this page show the position of the tubing embedded within the leg to simulate veins. The tubing is superficial in its full length, offering a selection of injection sites. Careful palpation will allow the student to locate the veins.

Set Up:

The *Life/form®* Infant Injectable Training Leg has been designed to replace the standard leg on the Resusci® Baby* CPR manikins.

Supplies/Replacement Parts for the Infant Injectable Training Leg:

- LF00845U *Life/form®* Venous Blood — 1 Quart
- LF00846U *Life/form®* Venous Blood — 1 Gallon
- LF01022U Fluid Supply Stand
- LF01130U Intravenous Fluid Bag
- LF03639U Infant Leg Replacement Skin and Veins Kit
- LF03640U Infant Leg Replacement Veins Set
- LF01099U Vein Tubing Sealant Kit
- W09919U REN Cleaner

E. Skin Replacement:

After prolonged use for injections, the skin and veins on your training leg will show track marks and need replacing with the Infant Leg Skin and Vein Replacement Kit.

*RESUSCI® BABY IS A TRADEMARK OF LAERDAL MEDICAL CORPORATION.*
Now open both bag clamps and adjust the infusion rate with the clamp on bag A. Should bag B fill (Figure 13), simply close the clamps on both bags, unhook them (be aware of some leakage) and switch each to the other’s position. Hook them up and open both clamps. Bag B is now the supply bag. This switch can be done as often as desired. NOTE: Always regulate the flow of “blood” from the bag on the stand, and open the other bag clamp. To draw blood again, simply close the clamp on the bag which is lying down.

Causes for Failure in Function:

During the procedure of drawing “blood,” if blood cannot be aspirated:

A. The clamp on the IV tubing of the infusion bag may not be opened.

B. Air could be trapped in the venous system. Simply flush the system slowly, draining some “blood” or distilled water, whichever you are using, until all air bubbles are eliminated.

C. If these measures do not unclog the venous system try using a large (50 cc) syringe to force fluid through the tubing.

D. If none of these measures work, peel off the skin to the ankle. DO NOT REMOVE IT FROM THE TOES. Examine all the tubing for possible kinks. Generously cover the inside of the leg with baby powder and pull the skin back over the leg core.

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 Leg:

1. Disconnect the IV bag and pour the fluid back into the container.
2. Rinse the IV bag.
3. Drain the leg. Open the pinch clamp and tip the leg up until the fluid is removed. Flush the leg with water. Rinse off the exterior of the leg and dry. Return the leg to storage.

B. Needles:

Hypodermic needles are actually small cutting tools. Puncturing the skin and vein with needles results in small cuts or slits which will eventually lead to deterioration. The larger the needles, the larger the cuts made in the skin and the shorter the life of the simulator. It is recommended that 22-gauge or smaller needles be used. Always use sharp needles. Dull or bent needles cause excessive tearing.

C. Distribution of Punctures:

The vein is in contact with the skin from the point it enters the leg to the point of exit. If the injections are distributed along the length of the vein, without deviation from acceptable practice, the product will last longer.

D. Tubing Sealant:

A Vein Tubing Sealant Kit (LF01099U) has been developed for use with Life/form Injectable Simulators. It will effectively seal punctures in the tubing.

General Instructions for Use

A. Preparing the Synthetic Blood:

Concentrated blood colorant is provided. Fill the 16 oz. container with tap water for the proper dilution (Figure 3).

B. Filling the IV Supply Bag:

Be certain the clamp on the IV bag is closed before filling. Pour the diluted Life/form® “blood” into the IV bag (Figure 4). Hang the bag at 18” height.

C. Attaching the Leg to the Body:

Place the Resusci® Baby® on a flat surface such as a tabletop. Remove the baby’s clothing and unhook the body skin at the three points along the torso. Roll the skin back over the chest. Now lift up on the inner cover just enough to get in and snap out the standard leg (Figures 5 & 6). When this is done, simply snap the venipuncture right leg into place. Drop the inner cover and replace the skin and clothing.

RESUSCI® BABY IS A TRADEMARK OF LAERDAL MEDICAL CORPORATION.
E. Filling the Venous System:
1. Slide the pinch clamp over the free tubing end and place the tubing end over a container.
2. Open the IV bag clamp and allow Life/form® “blood” to flow through the system until a steady stream exits without bubbles through the open tubing end (Figure 8).
3. Close the pinch clamp on the open tubing end.

Figure 8

G. Preparing the Leg for Intravenous Infusions:
1. Hang both IV bags (not more than 18" high) and close the clamps at the ends of both IV bags. Fill bag A with synthetic blood and bag B with distilled water (infusion) (Figure 10).
2. Appropriate intravenous infusion needles (or butterflies) should be used.
3. The self-sealing simulated veins lend themselves very well to the practice of starting IV infusions, and IVs can be started where indicated in Figures 1 & 2. Cleanse the sites with distilled water only.
4. Attach the adapter end of the bag A IV tubing into the leg tubing connector.
5. Place the other leg tubing end in a basin or jar, and “flush” the vascular system by opening the clamp. Allow the infusion to pass through the system until air bubbles are eliminated. Shut off the flow at the leg tubing with a pinch clamp.

Figure 10

6. Insert an IV needle (or butterfly) into the vein. “Flashback” will indicate a proper insertion.
7. Close the clamp on IV bag A and remove the pinch clamp from leg tubing at the basin.

Figure 11

8. Attach the latex needle adapter to the IV needle (or butterfly) and bag B IV tubing. Open the clamp on the bag B. (Figure 11 shows only the correct attachment of the latex needle adapter. During the actual procedure the butterfly needle would have already been inserted into the vein at this point.) Proof of proper procedure will then be evidenced by the flow of infusion fluid from the IV bag B. Control the flow rate with the clamp on IV bag B. This fluid can be reused.

H. Recommended Procedures for Simultaneous Blood Drawing and IV Infusions:
Use two IV bag kits:
Hook up and install IV bag A as shown in Figure 12.

1. Drawing Blood — Begin with synthetic blood (or distilled water) in bag A. Do not hang bag A more than 18" over the level of the simulator. “Flush” the system by allowing fluid to flow into a collection dish until all the bubbles in the tubing are gone. Close the mini clamp on the tubing running to the dish. The system is now full of “blood” and pressurized. Blood can now be drawn anywhere along the pathway of the vein.
2. Intravenous Infusion — Insert the butterfly into the lumen of the vein. Proof of a correct insertion is evidenced by a flashback of “blood.” Now close the clamp on bag A, remove it, and reattach it to the butterfly using the 2” latex adapter. Take bag B (empty) and attach it where bag A had been connected and lay it by the simulator, making sure the mini clamp is closed.
E. Filling the Venous System:
1. Slide the pinch clamp over the free tubing end and place the tubing end over a container.
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7. Close the clamp on IV bag A and remove the pinch clamp from leg tubing at the basin.
8. Attach the latex needle adapter to the IV needle (or butterfly) and bag B IV tubing. Open the clamp on the bag B. (Figure 11 shows only the correct attachment of the latex needle adapter. During the actual procedure the butterfly needle would have already been inserted into the vein at this point.) Proof of proper procedure will then be evidenced by the flow of infusion fluid from the IV bag B. Control the flow rate with the clamp on IV bag B. This fluid can be reused.

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**Figure 3**

**General Instructions for Use**

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**B. Filling the IV Supply Bag:**

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**C. Attaching the Leg to the Body:**

Place the Resusci® Baby* on a flat surface such as a tabletop. Remove the baby's clothing and unhook the body skin at the three points along the torso. Roll the skin back over the chest. Now lift up on the inner cover just enough to get in and snap out the standard leg (Figures 5 & 6). When this is done, simply snap the venipuncture right leg into place. Drop the inner cover and replace the skin and clothing.

**Figure 5**

**Figure 6**

**Figure 7**

**D. Connecting the Leg to the IV Supply Bag:**

The leg is supplied with a special connector that fits the leg tubing and IV tubing. Insert the IV tubing into the tubing coming from the leg as shown (Figure 7).

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About the Simulator . . .

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2. 3 cc Syringe
3. Life/form® Venous Blood — 1 Pint
4. 2 IV Bags w/Clamps
5. Pinch Clamp
6. Winged Infusion Set
7. 22 gauge needle
8. 2 Towels

Internal Structure:
Figures 1 & 2 on this page show the position of the tubing embedded within the leg to simulate veins. The tubing is superficial in its full length, offering a selection of injection sites. Careful palpation will allow the student to locate the veins.

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After prolonged use for injections, the skin and veins on your training leg will show track marks and need replacing with the Infant Leg Skin and Vein Replacement Kit.

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**INFANT INJECTABLE TRAINING LEG**
**LF03636U**
**INSTRUCTION MANUAL**