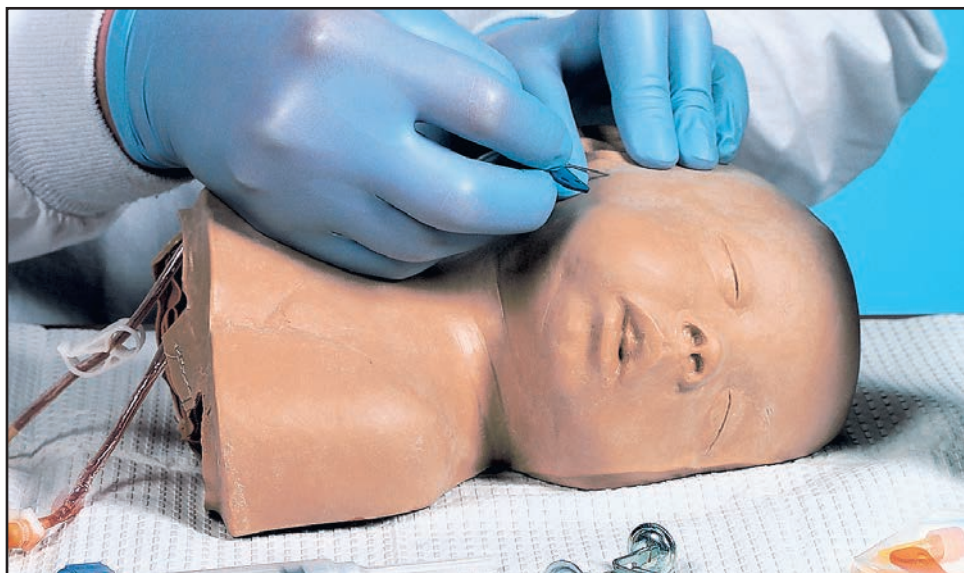

PEDIATRIC INJECTABLE TRAINING HEAD SIMULATOR LF00999U INSTRUCTION MANUAL



WARNING: Product contains dry natural rubber.

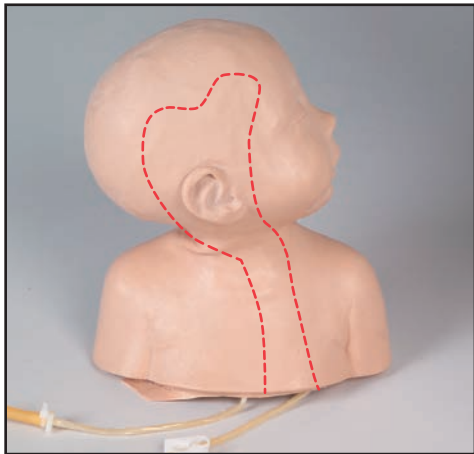
About the Simulator

The **Life/form®** Pediatric Injectable Training Head Simulator is a dramatic and exciting training aid for practicing and demonstrating intravenous therapy on the newborn. Visual and tactile realism are combined in this simulator to provide students with the most realistic training possible for temporal and jugular puncture. A special, extremely thin, synthetic skin and rubber tubing, with appropriately small lumen and thin walls, make the use of the **Life/form®** Pediatric Injectable Training Head Simulator a realistic training exercise.

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

List of Components

- IV Bag
- 2 Infusion Sets
- 3 cc Syringe
- **Life/form®** Venous Blood — 1 Pint
- 2 Small Towels
- 1 Clamp



Internal Structure

The diagram above shows the position of tubing embedded within the head to simulate veins. The tubing is superficial in its full length, offering a wide selection of injection sites. Careful palpation should allow the student to locate the veins.

General Instructions for Use



A. Prepare Synthetic Blood

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



B. Fill IV Supply Bag

Pour diluted **Life/form®** Blood into IV container. Hang bag at 18" height.

C. Connect to Head

Insert connector from IV tubing into tubing coming from head. Connect as shown. Be certain the clamp on the IV tube is closed.



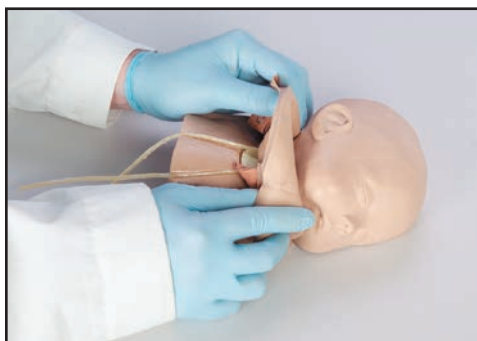
D. Fill Venous System

1. Hold open tubing end over container.
2. Open clamp and allow **Life/form®** Blood to flow through system until steady stream exits through open tubing end.
3. Place pinch clamp on open tubing end.



E. Ready for Use

The **Life/form®** Pediatric Injectable Training Head Simulator is now ready for use. The flow control clamp should be left open during use. Venous pressure is altered by varying the height of the supply bag. A height of 18" is a good starting point. Excessive height may cause leakage through previous puncture sites. Needle size should be kept as small as possible to minimize damage to the skin and tubing. Refer to page 1 for identification of vein sites.



F. Skin Replacement

1. Remove used skin from head of model.
 - a. Open snaps on head.
 - b. Lubricate EXTERIOR of skin with **Life/form®** Simulator Lubricant.
 - c. Peel skin off by turning inside out.
 - d. Remove old tubing.
2. Install new tubing. Place new section of tubing in channel of core. Be certain equal portions of tubing protrude from the base of the model.
3. Pour **Life/form®** Simulator Lubricant (LF00985U) inside of skin and swish around to coat all inside surfaces.



CAUTION: The thin **Life/form®** Skin used to provide realism is tender. Care must be taken not to stretch or tear the material when installing.

4. Install new skin.
 - a.) Slide open end of skin over core.
 - b.) Grasp the skin with both hands and slide over core.
 - c.) Check tubing location. If tubing has moved from channel, try to work into place by palpating through skin. If unsuccessful, peel skin back (invert) until tubing can be replaced properly, then roll skin over core.
 - d.) Draw skin snugly into place.
 - e.) Snap closed.
5. Rinse.

Wash excess lubricant from exterior of skin. The **Life/form®** Pediatric Injectable Training Head Simulator is now fully reconditioned and ready to train hundreds of new medical personnel.

Procedures That Can Be Performed on This Simulator

An invaluable tool for demonstrating and practicing infusions and injections in the temporal and jugular veins of a newborn to 12-month-old infant.

Care of Simulator

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

A. 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 20-gauge or smaller needles be used. Always use sharp needles, since dull or bent needles cause excessive tearing.

B. Distribution of Punctures

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

C. Tubing Sealant

The Vein and Artery Tubing Sealant Kit (LF05126U) has been developed for use with **Life/form®** Injectable Simulators. The sealant will effectively seal punctures in tubing.

D. Skin Replacement

After prolonged use for injections, the skin on your training head will show track marks and need replacing. Use Pediatric Head Replacement Skin Kit (LF01003U).

E. Height of IV Container

Fluid pressure increases as the height of the container increases. A height of 18" above the head provides a realistic "flashback." Elevating the bag higher raises the pressure and will cause leakage through previous puncture holes.

F. IV Solutions

Use only water or **Life/form®** Venous Blood. Use of other solutions may block the tubing.

G. Cleaning

Use a mild solution of Ivory® liquid detergent and water to clean surface of skin. Nasco Cleaner (LF09919U) will remove stubborn stains from simulator. Simply spray soiled areas and wipe clean with a soft cloth or paper towel.

H. Site Preparation

Clean water is recommended for swabbing injection sites and will help lubricate the skin surface to minimize damage from punctures. Alcohol, iodine, or other antiseptics are not recommended as they will stain the skin permanently.

I. Storing

1. Disconnect IV supply bag and pour fluid back into storage container.
2. Rinse IV bag.
3. Disconnect administration set from head and flush set with water.
4. Drain head. Open pinch clamp and tip head up until fluid is removed. Flush tubing with water. Rinse exterior with water. Dry all surfaces.
5. Replace pinch clamps on tubing.
6. Place in plastic bag. Return all components to case.

Cautions

Solvents or corrosive materials will damage the simulator. Never place simulator on any kind of printed paper or plastic. These materials will transfer an indelible stain. Ball-point pens will also make an indelible stain.

Life/form® products are carefully designed and produced to provide the most realistic training aids possible.

Supplies/Replacement Parts for Pediatric Injectable Training Head Simulator

LF01003U	Pediatric Head Skin and Vein Replacement
LF05126U	Vein and Artery Tubing Sealant Kit
LF09919U	Nasco Cleaner
LF00845U	Life/form® Venous Blood — 1 Quart
LF00846U	Life/form® Venous Blood — 1 Gallon

Other Available *Life/form*® Simulators

LF00698U	Adult Injectable Arm (White)	LF01184U	Venatech IM & Sub Q
LF00855U	Male Catheterization	LF01193U	Special Needs Baby
LF00856U	Female Catheterization	LF03000U	CPARLENE ® Series
LF00901U	Prostate Examination	LF03601U	Adult Airway Management Trainer with Stand
LF00906U	Ostomy Care	LF03602U	Adult Airway Management Manikin
LF00929U	Surgical Bandaging	LF03609U	Child Airway Management Trainer with Stand
LF00957U	Enema Administration	LF03616U	Child CRiSis ™ Manikin
LF00958U	Pediatric Injectable Arm	LF03617U	Deluxe Child CRiSis ™ Manikin with Arrhythmia Tutor
LF00961U	Intramuscular Injection	LF03620U	PALS Update Kit
LF00984U	Breast Examination	LF03623U	Infant Airway Management Trainer with stand
LF00995U	Arterial Puncture Arm	LF03632U	Child Intraosseous Infusion/ Femoral Access Leg on a Stand
LF00999U	Pediatric Injectable Head	LF03633U	Child Airway Management Trainer Torso
LF01005U	First Aid Arm	LF03693U	Basic Buddy ® CPR Manikin
LF01008U	Intradermal Injection Arm	LF03699U	"Airway Larry" Airway Management Trainer
LF01012U	Heart Catheterization (TPN)	LF03709U	Infant CRiSis ™ Manikin
LF01019U	Ear Examination	LF03720U	Baby Buddy ™ Infant CPR Manikin
LF01027U	Peritoneal Dialysis	LF03750U	Fat Old Fred
LF01028U	Suture Practice Arm	LF03760U	Airway Management/Cricoid Pressure Trainer
LF01034U	Suture Practice Leg	LF03770U	Chest Tube
LF01036U	Spinal Injection	LF03953U	CRiSis ™ Manikin, complete
LF01037U	Hemodialysis Practice Arm	LF03955U	Deluxe CRiSis ™ Manikin
LF01038U	Episiotomy Suturing Set	LF03956U	Deluxe "Plus" CRiSis ™ Manikin
LF01042U	Suture Kit	LF03965U	Adult CRiSis ™ Auscultation Manikin
LF01062U	Pelvic, Normal & Abnormal	LF03966U	Adult CRiSis ™ Auscultation Manikin with ECG Simulator
LF01063U	Stump Bandaging, Upper	LF04000U	GERI ™/ KERI ™ Manikin Series
LF01064U	Stump Bandaging, Lower	LF04200U	Adult Sternal Intraosseous Infusion
LF01069U	Cervical Effacement	LF06001U	CPR Prompt ® Adult/Child Manikin
LF01070U	Birthing Station	LF06012U	CPR Prompt ® Infant Manikin
LF01082U	Cricothyrotomy	LF06200U	CPR Prompt ® Keychain Rescue Aid
LF01083U	Tracheostomy Care	LF06204U	CPR Prompt ® Rescue and Practice Aid
LF01084U	Sigmoidoscopic Examination		
LF01087U	Central Venous Cannulation		
LF01095U	Blood Pressure Arm		
LF01108U	Infant Intraosseous Infusion		
LF01121U	Advanced IV Arm		
LF01131U	Venipuncture and Injection Arm		
LF01139U	Advanced IV Hand		
LF01142U	Auscultation Trainer		
LF01143U	Testicular Exam		
LF01152U	Male & Female Catheter		
LF01155U	Advanced CPR Dog		
LF01162U	Venatech IV Trainer		
LF01174U	NG Tube & Trach Skills		

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