

PEDIATRIC INJECTABLE TRAINING HEAD SIMULATOR LF00999U INSTRUCTION MANUAL



WARNING: Product contains dry natural rubber.

Life/form_® Products by NASCO

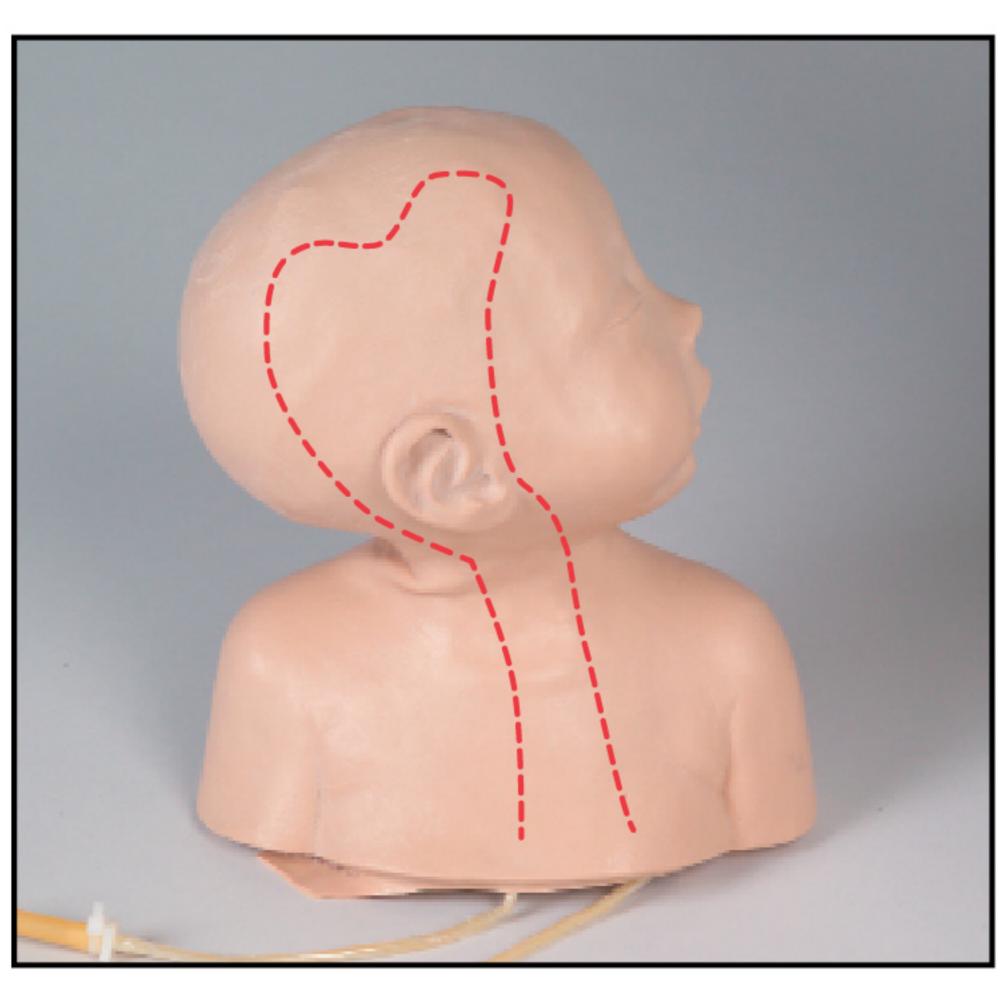
About the Simulator...

The **Life/form**® Pediatric injectable Training Head Simulator is a dramatic and exciting training aid for practicing and demonstration intravenous therapy of 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

- 1. IV Bag
- 2. 2 Infusion Sets
- 3. 3 cc Syringe
- 4. **Life/form**® Venous Blood —
- 1 Pint5. 2 Small Towels
- 6. 1 Clamp



Internal Structure

The diagram above shows the position of tubing imbedded 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.



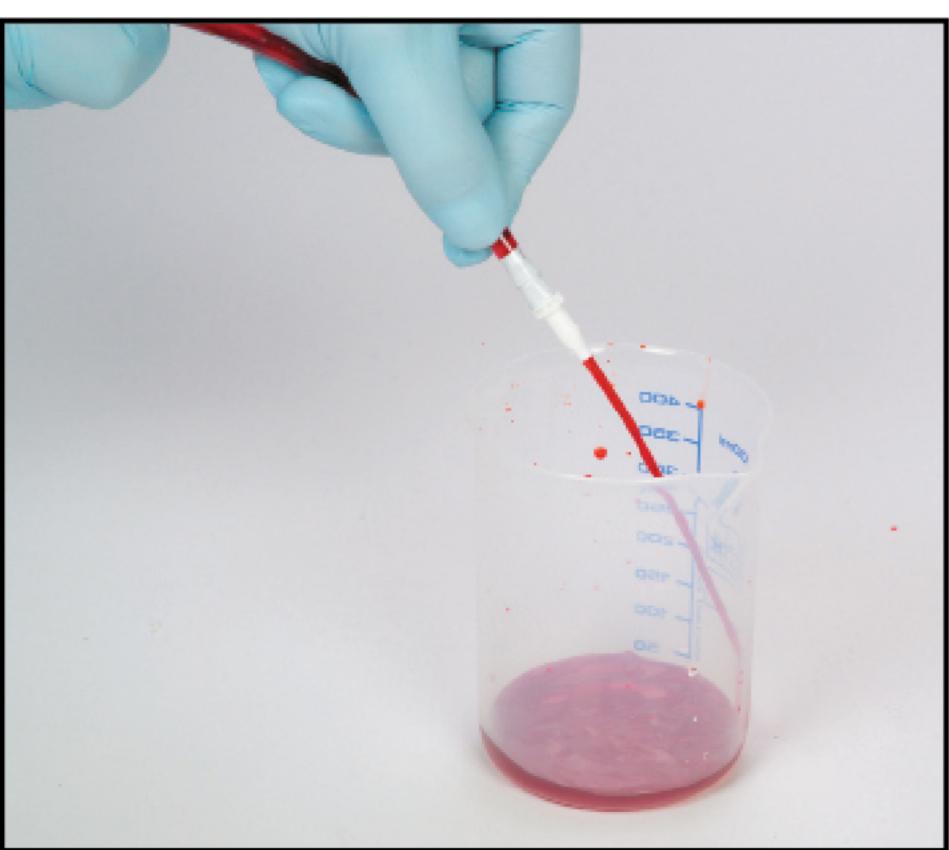
B. Fill IV Supply Bag

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 clamp on IV tube is closed.





D. Fill Venous System

- 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.

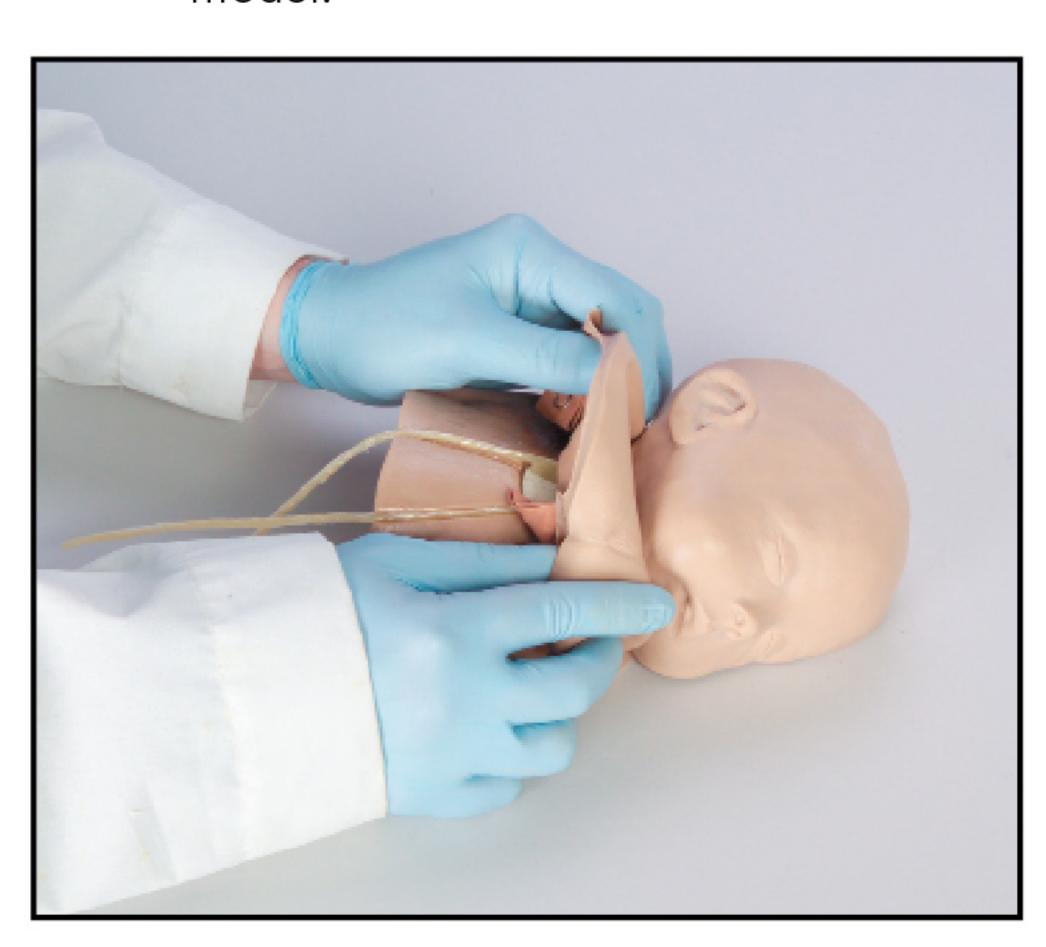


E. Ready for Use

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

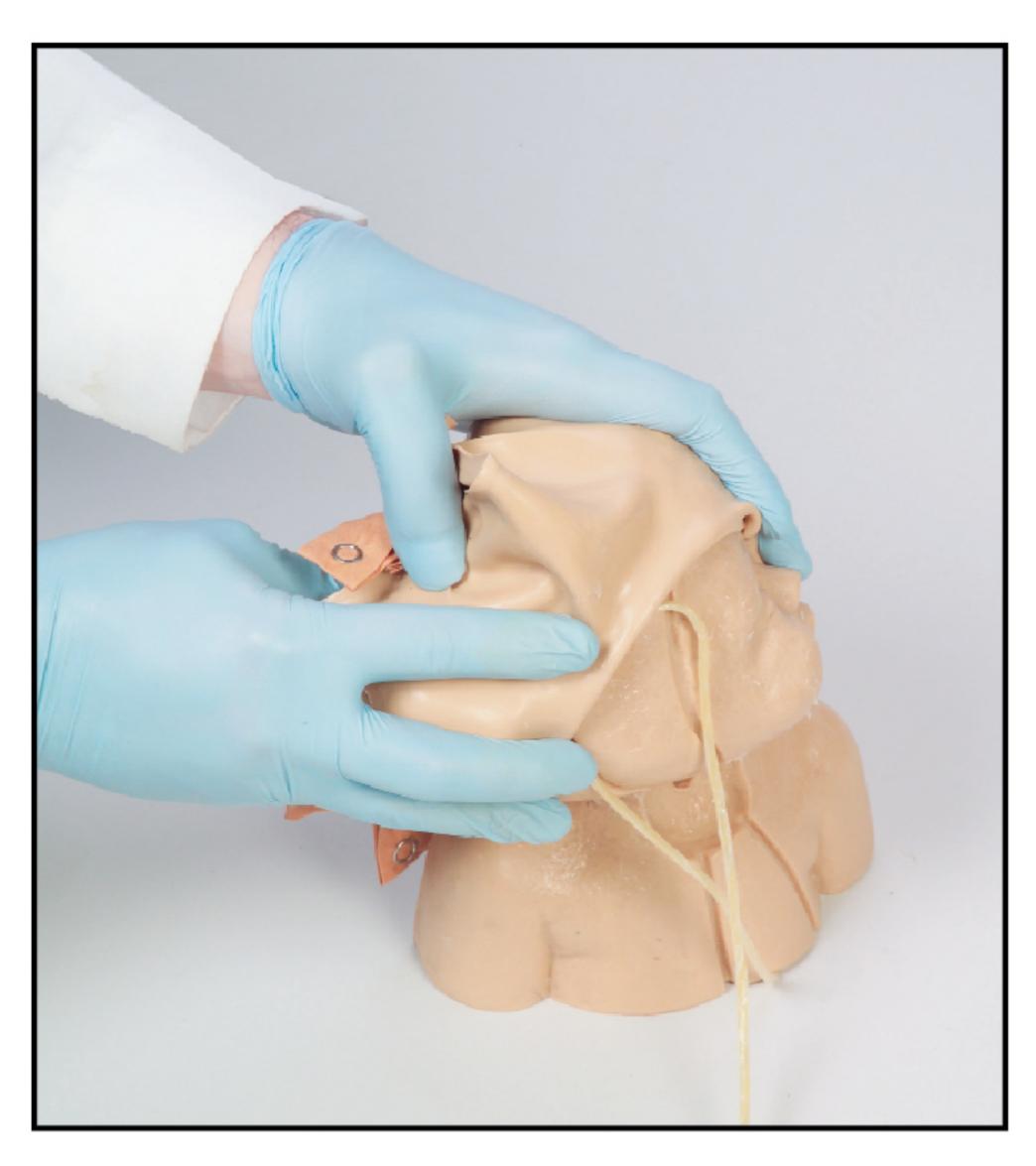
 Remove used skin from head of model.



- 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.

4. Install new skin.

- a.) Slide open end of skin over core.
- b.) Grasp the skin with both hands and slide over core.



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.

- 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 and 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 Injectabel 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 infustions and injections in the temporal and jugular veins of a newborn to 12-month-old infant.

Care of Simulator

This training simulator has bddn designed to provide the greatest possibel durability and lowest maintenance while not compromising realism. Following are some suggestions for helping you yeild 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. he 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 small needles be used. Always use sharp needles since dull or bent needles cause excessive tearing.

B. Distribution of Punctures

The vein is in contace 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 devel- oped 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 needs 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 pro- vides 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 solu- tions may block the tubing.

G. Cleaning

Use mild solution of Ivory liquid detergent and water to clean sur-face of skin. REN Cleaner (W09919U) 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 till 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. Those materials will transfer an indelible stain. Ballpoint pens will also make an indelible stain.

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

Suplies/Replacement Parts for Pediatric Injectable Training Head Simulator

LF01003U Pediatric Head Skin and Vein Replace-ment

LF05126U Vein and Artery

Tubing Sealant Kit REN Cleaner

LF00845U Life/form® Venous Blood

— 1 Quart

W09919U

LF00846U Life/form® Venous Blood

— 1 Gallon

Other Available *Life/form*, Simulators

LF03602U Adult Airway Management on Manikin

U 111.U1 <i>I</i>					
LF00698U	Adult Injectable Arm (White)	LF03603U	Adult Airway Management		
	Female Catheterization		Head Only		
LF00901U	Prostate Examination	LF03609U	Child Airway Management		
LF00906U	Ostomy Care		Trainer		
	Surgical Bandaging	LF03610U	Child Airway Management		
	Enema Administration		Trainer Head Only		
	Pediatric Injectable Arm	LF03611U	Child Defibrillation Chest		
	Intramuscular Injection		Skin		
	Breast Examination	LF03612U	Child IV Arm		
	Arterial Puncture Arm		Child Blood Pressure Arm		
	Adult Injectable Arm (Black)		Child Intraosseous Infusion/		
	Pediatric Injectable Head		Femoral Access Leg Only		
	Intradermal Injection Arm	LF03615U	Complete Child CRiSis™		
	Heart Catheterization (TPN)		Update Kit		
	Ear Examination	I F03616U	Child CRiSis™ Manikin		
	Supplementary Ear Set		Deluxe Child CRISIS™		
	Male Cath-Ed I		Manikin with Arrhythmia Tutor		
	Female Cath-Ed II	I E0362011	PALS Update Kit		
	Peritoneal Dialysis		Infant Airway Management		
	Suture Practice Arm	LFUJUZ I U	, .		
	Spinal Injection	I E0363311	Trainer Head Only Intraosseous Infusion Right		
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LFU 10530	Cross-Sectional Anatomy, Torso, Head	I E0343311	Leg Infant Airway Management		
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LFU10540	Cross-Sectional Anatomy,	1 50242411	Trainer		
I E01040II	Head Dalvia Namaal & Alamaanaal	LFU3020U	Child Femoral Access		
	Pelvic, Normal & Abnormal	1 502/2011	Injection Pad Replacement		
	Stump Bandaging, Upper	LFU3032U	Child Intraosseous Infusion/		
	Stump Bandaging, Lower		Femoral Access Leg on a		
	Cervical Effacement	1 500 / 0011	Stand		
	Birthing Station	LF03633U	Child Airway Management		
	Cricothyrotomy		Trainer with Torso		
	Tracheostomy Care		Basic Buddy CPR Manikin		
	Sigmoidoscopic	LF03699U	"Airway Larry" Airway		
	Examination		Management Trainer		
	Central Venous Cannulation		Baby Buddy Infant CPR Manikin		
	Blood Pressure Arm		CRISIS™ Manikin		
LF01108U	Intraosseous Infusion		Deluxe CRiSis™ Manikin		
	Simulator		GERi™ Nursing Manikin		
	Auscultation Trainer		KERi™ Nursing Manikin		
	Venatech IV Trainer		KERi™ Basic Manikin		
	CPARLENE® Series		KERi™ Advanced Manikin		
LF03601U	Adult Airway Management		GERi™ Advanced Manikin		
	Trainer	LF04040U	GERi™ Basic Manikin		
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