

LF01007 ADULT IV FOOT INSTRUCTION MANUAL



WARNING: This product contains dry natural rubber. Do not remove film from tubing!

Life/form. Products by Nasco

Cautions

- This synthetic blood is specially formulated to be compatible with the self-sealing veins and plastics used in manufacturing the foot.
- DO NOT use dull or burred needles as these will cause leaks in the system. Burred needles will cause permanent damage. Use smaller needles (20- to 25-gauge).
- DO NOT allow "blood" to dry on the simulator — it may stain the foot.
- 4. Use only 500 cc of infusion fluid as a larger amount will also increase the pressure of the venous system, resulting in leaks.
- DO NOT clean the simulator with solvents or corrosive material as they will damage it.
- The Nasco Vein Tubing Sealant Kit (LF01099U) will extend the useful life of the tubing.

Supplies/Replacement Parts for the Adult IV Foot

LF00845U	<i>Life/form</i> _® Arterial Blood,
	l quart
LF00846U	<i>Life/form</i> _® Arterial Blood,
	1 gallon
LF01007	Adult IV Foot
LF01007A	Adult IV Foot White
	Replacement Skin Only
LF01007B	Adult IV Foot Replacement
	Vein Only
LF01007C	Adult IV Foot Skin and Vein
	Replacement Kit
SB29863U	Fluid Supply Stand
I F00010	Nasco Cleaner

LF09919 Nasco Cleaner



About the Simulator...

The *Life/form*. Adult IV Foot Simulator duplicates the human condition as closely as modern plastics technology allows it is almost the real thing. Its care and treatment should be the same as with a patient; abuse or rough handling will damage the simulator — just as it would cause pain or injury to a patient.

This unit is the simulation of the entire human foot from the lower leg to the toe tips. Externally the skin texture is realistic to the touch.

Although this foot will provide you long trouble-free usage, the skin and veins can be readily replaced when needed. The outer skin is easily peeled off revealing the "core" and veins providing, literally, a brand new foot. The life of the replaceable skin and veins will be prolonged by utilizing smaller needle sizes (such as 20to 25-gauge). However, if instruction with larger needle sizes is required, this can be done; the skin and veins will merely need to be replaced sooner. Replacement Skin and Vein Kits are available through Nasco (see list of supplies).

List of Components

3 cc syringe with needle 12 cc syringe with needle 22 gauge needle Small white towels (2 each) Infusion butterfly set IV bags (2 each) with clamps Lubricant (5 oz.) Foot stand Foam foot support Powdered red artificial blood



Figure 1

Internal Structure

Internally the vascular structure (rubber tubing) includes injectable long saphenous vein, short saphenous vein, and dorsal venous arch. The venous system is constructed of special self-sealing rubber tubing with the lumen being the approximate size of a human vein (Figure 1). The vascular structure has an inlet tube and an outlet tube above the ankle and it is via these tubes that the venous system is filled. Thus, the techniques of blood drawing and starting intravenous infusions may be practiced on the Adult IV Foot.

General Instructions for Use

The Adult IV Foot comes with all of the supplies necessary to perform most procedures. (To perform intravenous infusions the user must supply their own IV set and bag of solution.)



Figure 2

A. Preparing the Synthetic Blood

- 1. Add 1 pint of distilled water to the synthetic blood concentrate (Figure 2).
- Hang one of the bags (bag A) approximately 28" above the level of the foot, making sure the clamp on the IV tubing is closed. Pour the blood into the bag.
- 3. Attach the fitting end of the IV tubing to one of the foot tubes.

Important Note: Before completing step 4, bag B must lie at foot level or below with the cap closed.

4. With the other foot tube attached to the empty IV bag (bag B), flush the vascular system with synthetic blood by opening the clamp of the filled IV bag (bag A). (Figure 3) Allow some

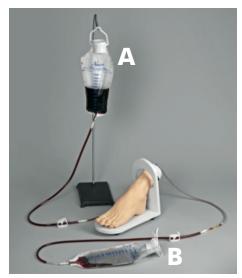


Figure 3

blood to pass through the system until the outlet foot tube to bag B runs free of bubbles. When the outlet tubing to bag B runs clear of bubbles, close the clamp on bag B.

- 5. The venous system is now full of "blood" and pressurized. Be sure to leave the clamp on the inlet tubing (bag A) opened.
- 6. The foot is now ready to practice drawing blood. "Blood" can be drawn anywhere along the pathway of the vein (see Figure 1). Distilled water should be used to prepare the sites. Synthetic blood will actually be aspirated once the vein is properly punctured.
- 7. Small diameter needles (20- to 25-gauge) should be used.

B. Preparing the Foot for Intravenous Infusions

(At this point you will need to supply an IV set and bag of solution. Hook them up and have them ready.)

- 1. To hook up the foot, refer back to steps 1-5 in section A.
- 2. Insert the butterfly needle into a vein. Flashback will indicate proper insertion.
- 3. If a flashback is observed, close the clamp on IV bag A. You are now ready to set up for the intravenous infusion.
- 4. Hang the IV solution bottle and connect the IV set to the butterfly needle already in the vein. With the clamp on bag A closed, open the clamp on bag B. Proof of the proper procedure is evidenced by the flow of the infusion fluid from the solution bag. Control the flow from the solution bag by adjusting the roller clamp on the tubing of the IV set.

Causes for Failure in Function

- A. Forgotten closed clamp.
- B. Kinks in tubing of the fluid bags.
- C. Tubing pinched shut by constant pressure of clamps. Lumen remains pinched occasionally even if the clamp is loosened. Slide clamp to new position and with fingers manipulate tubing at pinched site to restore

lumen. In heavy use, slide clamp to new position on tubing from time to time to prevent the "permanent pinch" caused by constant clamp pressure.

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

Care of Simulator

After each class use, close the clamps, disconnect bags, and return synthetic blood to storage container. Reconnect one IV bag to the system. Fill the bag with tap water and flush the venous system, allowing the open end to drain into a sink or basin. When the system runs clean, close the clamp and remove the IV bag. Excess water may be removed from the foot by raising the foot, lowering the leg, and draining it into a sink or basin. Wash the outside of the foot with Ivory® liquid detergent and water. Always remove the pinch clamps from the tubing and drain excess water from veins before storing.

Ordinary stains can be removed by washing the foot with soap and warm water. Newsprint, similar printed paper, or ink will permanently stain the simulator if prolonged contact occurs. Stubborn stains may be removed with Nasco Cleaner (**LF09919**), simply by dispensing it on the area and wiping with a soft cloth or paper towel.

Other Available *Life/form*. Simulators

LF00698U Adult Injectable Arm (White) LF00855U Male Catheterization **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 LF00999U Pediatric Injectable Head LF01005U First Aid Arm LF01008U Intradermal Injection Arm LF01012U Heart Catheterization (TPN) LF01019U Ear Examination LF01027U Peritoneal Dialvsis LF01028U Suture Practice Arm LF01034U Suture Practice Leg LF01036U Spinal Injection LF01037U Hemodialysis Practice Arm LF01038U Episiotomy Suturing Set LF01042U Suture Kit 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 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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LF01184U	Venatech IM & Sub Q
LF01193U	Special Needs Baby
LF03000U	
	Adult Airway Management
El 000010	Trainer with Stand
LF03602U	
EI 000020	Manikin
LF03609U	
	Trainer with Stand
I E036161	l Child CRiSis™ Manikin
	Deluxe Child CRiSis ™
E1000170	Manikin with Arrhythmia Tutor
LF03620U	
	Infant Airway Management
LFUJUZJU	Trainer with Stand
LF03632U	
EI 000020	Femoral Access Leg on a Stand
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LF03693U	Basic Buddy [®] CPR Manikin
LF03699U	
1.000//0	Management Trainer
LF03709U	0
LF03720U	
LF03750U	
LF03760U	
	Pressure Trainer
LF03770U	Chest Tube
	CRISIS™ Manikin, Complete
LF03955U	I Deluxe CRISIs ™ Manikin
	Deluxe "Plus" CRiSis ™ Manikin
LF03965U	
	Manikin
LF03966U	Adult CRiSis™ Auscultation
	Manikin with ECG Simulator
LF04000U	GERi™/KERi™ Manikin Series
LF04200U	
	Infusion
LF06001U	CPR Prompt [®] Adult/Child
	Manikin
LF06012U	CPR Prompt [®] Infant Manikin
LF06200U	
	Rescue Aid
LF06204U	
	Practice Aid

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