



Hemodialysis Practice Arm LF01037U Instruction Manual



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

Life/form® **Products by Nasco**

About the Simulator

This **Life/form**® Hemodialysis Practice Arm Simulator duplicates a human arm. This special simulator contains an arteriovenous fistula. All aspects of the simulator are as lifelike in every detail as modern plastics technology allows. Treatment of the simulator must also duplicate that of a human arm. Rough handling will lead to damage.

This simulator is designed for student and patient teaching/demonstration. Its importance is in facilitating the teaching of techniques of easy access to the arm's blood supply for home dialysis.

It is possible to replace the skin and veins when it becomes necessary. The skin can be easily removed and new veins can be easily reinserted, providing you with a new arm. The life of the restored arm will be prolonged by utilizing only the size needles indicated in the instructions. The Skin and Vein Replacement Kits are available (see list of supplies).

Internal Structure

Internally, the vascular structure (rubber tubing) for the arteriovenous fistula begins in the inner aspect of the upper arm, travels down the arm, makes a loop in the inner aspect of the lower forearm, and then returns to the upper arm.

List of Components

- 2 IV bags
- Small towel
- Container of **Life/form**® Hemodialysis Arterial Blood (LF01048U)
- 10 cc syringe with needle
- 3 cc syringe with needle
- Extra needle

Preparing the Artificial Arterial Blood and Vascular System

1. Add 473 cc of distilled water to the container labeled Hemodialysis Arterial Blood.
2. Pour the Hemodialysis Arterial Blood into one of the IV bags. Hang the bag no more than 18" above the level of the arm.
3. Attach the end of the IV bag to the arm tubing (the end without the pinch clamp).
4. With the other tubing in an appropriate receptacle, open the clamp on the IV tubing and the pinch clamp, and "flush" the system with the Hemodialysis Arterial Blood. Make sure all air bubbles have been removed from the system.
5. Once the "blood" has passed through the entire system, use the pinch clamp to close off the blood outlet tubing. Make sure the clamp on the IV tubing is open at this time. The system is now full of arterial "blood" and pressurized.
6. The arm is now ready for demonstration and/or practice of easy access to the arterial system. The standard procedure for venipuncture can be utilized at this point. Insert only small diameter needles (20-25 gauge). This will prolong the life of the skin and veins. (In a patient, needles ranging from 15-17 gauge would be used).

Care of Simulator

After each class, disconnect the “blood” and flush the system. Unclamp the pinch clamp at the end of the tubing and remove IV sets from the arm. Use tap water to flush the system. Wash outside of arm with mild soap and water. Excess water may be removed from the fistula by raising the hand, lowering the upper arm, and draining it into a receptacle. Always drain the excess water from vascular system before storing.

Normal soil accumulated on the surface of the simulator can be removed with mild soap and lukewarm water. Use Nasco Cleaner (LF09919U) to remove stubborn stains from the simulator. Simply spray soiled area and wipe clean with a soft cloth or paper towels.

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

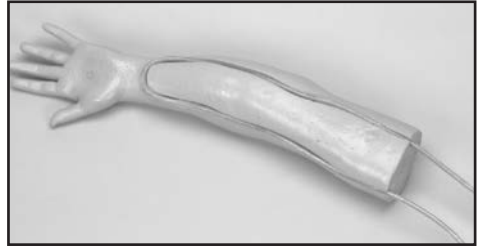


Skin Replacement

A. Remove Skin

1. Untie lace from base of arm.
2. Lubricate outside of skin with **Life/form**® Lubricant Kit (LF00985U).

3. Peel off skin carefully, turning inside out.
4. Remove all tubing.



B. Install New Tubing

1. Place tubing in channel of core.

C. Lubricate New Skin

1. Pour lubricant into skin and swirl around so it covers all surfaces.



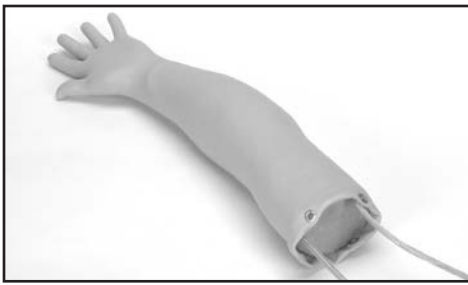
D. Slide Skin Over Hand of Core

1. Make certain the palm of the hand and core are in the same position.

E. Grasp the Skin with Both Hands and Slide Over the Core Until the Fingers of Core Fit Into the Finger Holes



F. Work Fingers in Place



7. The Vein Tubing Sealant Kit (LF01099U) will extend the useful life of the tubing.

Supplies/Replacement Parts for Hemodialysis Practice Arm

- LF01048U** **Life/form**® Hemodialysis Arterial Blood — 1 Quart
- LF01099U** Vein Tubing Sealant Kit
- LF01040U** Skin and Vein Replacement Kit
- LF09919U** Nasco Cleaner
- LF00985U** **Life/form**® Lubricant Kit

G. Check Tubing Position

1. If tubing slipped from channel, it can usually be pushed back into place by working it with the fingertips from outside of skin.



Cautions

1. The **Life/form**® Hemodialysis Arterial Blood is specially formulated to be compatible with the special veins and plastics used in manufacturing the arm.
2. DO NOT use dull or burred needles, as these will cause leaks in the system.
3. DO NOT allow “blood” to dry on simulator or it may stain arm.
4. Use only 500 cc of infusion fluid, as a larger amount will also increase the pressure of the venous system, resulting in leaks.
5. DO NOT clean the simulator with solvents or corrosive materials, as they will damage it.
6. DO NOT use for subcutaneous or intramuscular injections. The **Life/form**® Intradermal Injection Simulator (LF01008U) and Adult Venipuncture and Injection Training Arm (LF00698U and LF00997U) are specially designed for this.

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 Dialysis
- 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
- LF01184U** Venatech IM & Sub Q
- LF01193U** Special Needs Baby
- LF03000U** **CPARLENE**® Series
- LF03601U** Adult Airway Management Trainer with Stand
- LF03602U** Adult Airway Management Manikin
- LF03609U** Child Airway Management Trainer with Stand
- LF03616U** Child **CRISis**™ Manikin
- LF03617U** Deluxe Child **CRISis**™ Manikin with Arrhythmia Tutor
- LF03620U** PALS Update Kit
- LF03623U** Infant Airway Management Trainer with Stand
- LF03632U** Child Intraosseous Infusion/Femoral Access Leg on a Stand
- LF03633U** Child Airway Management Trainer Torso
- LF03693U** **Basic Buddy**® CPR Manikin
- LF03699U** "Airway Larry" Airway Management Trainer
- LF03709U** Infant **CRISis**™ Manikin
- LF03720U** **Baby Buddy**™ Infant CPR Manikin
- LF03750U** Fat Old Fred
- LF03760U** Airway Management/Cricoid Pressure Trainer
- LF03770U** Chest Tube
- LF03953U** **CRISis**™ Manikin, Complete
- LF03955U** Deluxe **CRISis**™ Manikin
- LF03956U** Deluxe "Plus" **CRISis**™ Manikin
- LF03965U** Adult **CRISis**™ Auscultation Manikin
- LF03966U** Adult **CRISis**™ Auscultation Manikin with ECG Simulator
- LF04000U** **GERI**™/**KERI**™ Manikin Series
- LF04200U** Adult Sterna Intraosseous Infusion
- LF06001U** CPR Prompt® Adult/Child Manikin
- LF06012U** CPR Prompt® Infant Manikin
- LF06200U** CPR Prompt® Keychain Rescue Aid
- LF06204U** CPR Prompt® Rescue and Practice Aid

Nasco Fort Atkinson

901 Janesville Avenue, P.O. Box 901
Fort Atkinson, Wisconsin 53538-0901

1-800-558-9595

eNasco.com • E-mail: lifeform@eNasco.com

COPYRIGHT © NASCO 2001 PRINTED IN U.S.A. NP 62-83/RV 3-12