Dedicated to Delivery

Nasco Life/form®

Micro-Preemie LF01206U & LF01212U Instruction Manual

Life/form® Products by Nasco

Life/form® 3 Year Warranty Simulators & Trainers

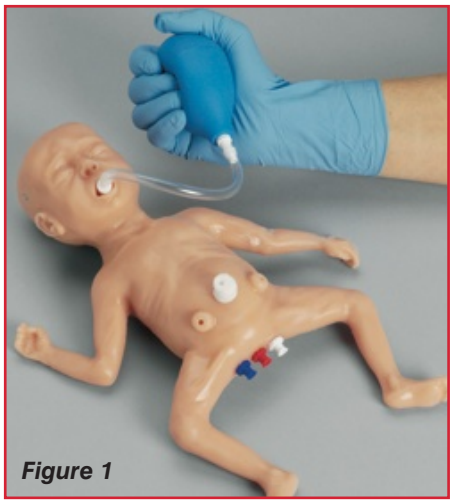


Figure 1

Figure 2

Figure 3

About the Simulator

The Nasco ***Life/form***® manikin represents a 25-week neonate. The soft, flexible body and a variety of built-in features make this a very lifelike and easy-to-use training aid for many scenarios. *It is not intended as a simulator for the performance of medical procedures such as IV insertion, but rather for the care of the newborn who has already received such procedures.*

List of Components

- Micro-Preemie manikin
- Preemie hat
- Preemie diaper
- Syringe
- Drain tubing (3)
- Lubricant
- Butterfly infusion set
- Blood powder with spoon
- Bulb and tubing assembly
- Umbilical cords (2) & neural tube defect

Features

Airway and Ventilation

The baby will accept a functioning 2.5 mm I.D. endotracheal tube (not included) and may be ventilated via the tube. The lubricated tube must be placed into the throat to produce a visible chest rise. *Do not administer fluids through the mouth. The baby cannot be ventilated through the nose.* The bulb and tube assembly may also be used to simulate respiration rate and volume; use gentle pressure, taking care not to overinflate the lungs. ***(See figure 1.)***

GI

The left nostril will accept a functioning 5 Fr nasogastric feeding tube (not included). Fluids passed through the tube will exit the manikin via the white fitting in the diaper area. The optional drain tubing may be connected to the fitting if desired. The stopcock must be open to allow fluids to pass through the system. Use water only, not formula. Always drain the system completely when the training session is over.

Note: *The baby cannot be ventilated through the nose. Do not administer fluids through the mouth.* ***(See figure 2.)***

The baby has two stomas. These are not functional and are intended for care purposes only.

Umbilicus

The umbilical stump has one functional vessel and functions like a stopper, plugging into a small reservoir within the abdomen. The reservoir can be used to either draw or receive fluids. Fluids will drain out the red fitting in the diaper area. The optional drain tubing may be connected to the fitting if desired. The stopcock must be open to allow fluids to pass through the system. *Be sure to cap the fitting or close the stopcock before filling the reservoir.* Capacity is approximately 25 cc. Do not overfill. Always use plain water, with or without the blood powder provided. *(Caution: Blood mixture will stain skin and fabric!)* Always flush and drain the system thoroughly and store with the plug hole open so the reservoir can dry. ***(See figure 3.)***

The umbilicus may be replaced with the omphalocele for specialized training.

IV Access

The Micro-Preemie has four molded-in sites typically used for peripheral IV access: right scalp, right foot, left arm, and left hand. While all four will accept an infusion device, *only the scalp vein is functional.* Fluids passed through this site will exit at the blue fitting in the diaper area. The optional drain tubing may be attached to this fitting if desired; it may also be used to direct the fluid into an empty IV bag. Always use plain water, and be sure to drain the system completely before storing. ***(See figure 4.)***

Figure 4

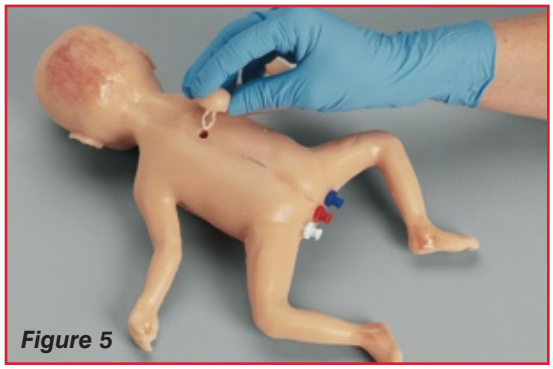


Figure 5

Note: The soft material of this manikin is self-healing and will accept a small gauge needle anywhere on the body. Before insertion, make certain that the needle will not damage any underlying structures*. Over time, repeated punctures, especially in the same area, will result in damage to the simulator. Nasco cannot be responsible for any damage caused by excessive or improper needle insertion.*

Chest Tube

A permanent site in the baby's right side will accept a non-functioning 8-10 FR chest tube for placement and care practice.

Pressure Ulcers

The manikin shows several typical sites of skin breakdown: occiput and heels. ***(See figure 5.)***

Neural Tube Defect

This optional structure may be plugged into the small opening in the Micro-Preemie's back. ***(See figure 5.)***

Other

Various monitors and sensors may be connected to the Micro-Preemie just as they would be to a real infant.

Care of the Simulator

- Nasco Micro-Preemie material is soft but durable and will last a long time with proper care.
- While the arms and legs are very flexible, avoid forcing them into extreme positions.
- The manikin is completely immersible in water and may be washed with mild soap or detergent if soiled.
- Always allow all components to dry thoroughly before storage.

Troubleshooting the Micro-Preemie Baby

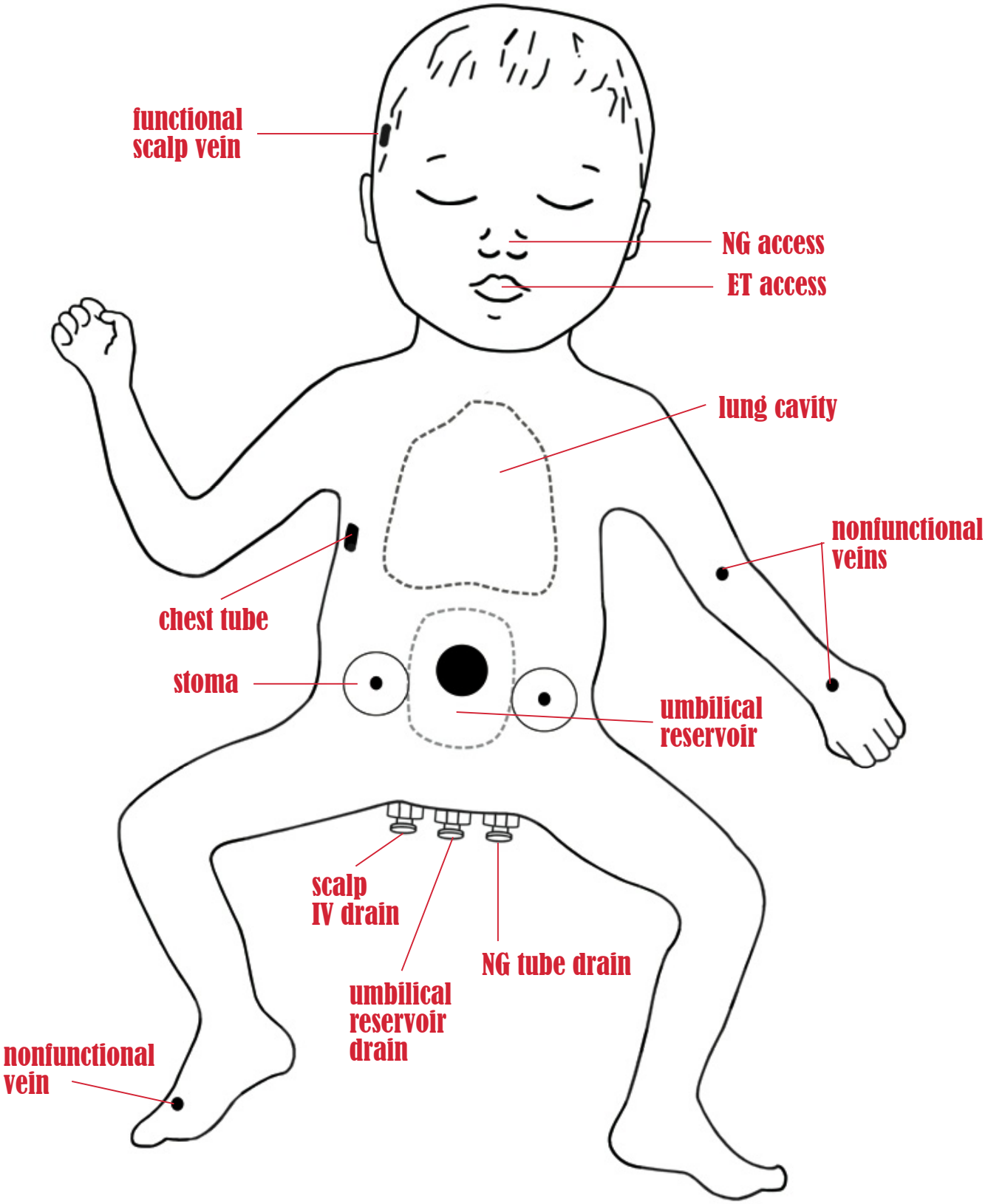
Note: Although every effort has been made to make the Micro-Preemie as realistic as possible, keep in mind that it is still a SIMULATOR intended for training purposes: certain functions may not behave exactly as a live baby would.

Even when your Micro-Preemie is in perfect working order, the small-diameter tubing can sometimes be temperamental. Be patient and try these tips if you have difficulty:

1. If fluid will not flow, make sure the tubing is open by squirting water through it with a syringe or squirt bottle. This is checked during factory inspection, but lubricants, etc. may have dried in the tubing. Always flush tubing and drain completely after use*. If water passes through the tubing and out the bottom fittings, the problem is not with the baby.*
2. Raising the head slightly may help fluids to flow.
3. Bottom fittings must be open for fluids to flow.
4. Air bubbles in the tubing may obstruct flow. Clear the tubing and try again. Make sure your fluid delivery system is working before using it on the preemie.
5. Too much pressure may force more fluid into the tubing than it can handle, resulting in leakage. Too little pressure may prevent fluid from flowing at all.
6. Fluids introduced into the scalp vein may back up, as the vein tubing is open to the surface and the skin does not seal around the needle. Try pushing the needle farther in to achieve the best seal possible. *Be sure the needle is within the lumen and has not penetrated the tubing wall*.
7. If red, white, and blue drain fittings pull loose, try simply inserting the barb back into the tubing. If it is still loose, clean the inside of the tubing and the outside of the barb with a cotton swab dipped in alcohol. Spread a small amount of silicone sealant around the base of the barb and insert it into the tubing. Let set several hours. Clear silicone sealant is inexpensive and readily available at hardware and home improvement stores. *Do not allow any sealant to enter the tubing lumen as it will permanently block the opening!*

Available Supplies/Replacement Parts for Micro-Premie

LF01206(A)U	Consumables Kit: 5 diapers, blood pack, and lubricant
LF01206(B)U	Tubing Kit: 3 drain tubes (red, white, & blue) and bulb
LF01206(C)U	White Replacement Kit: umbilical cord, omphalocele, and neural tube defect
LF01212(A)U	Black Replacement Kit: umbilical cord, omphalocele, and neural tube defect
LF01211U	Micro-Preemie Hat (colors vary)


functional
scalp vein
NG access
ET access
lung cavity
nonfunctional
veins
chest tube
stoma
umbilical
reservoir
scalp
IV drain
NG tube drain
umbilical
reservoir
drain
nonfunctional
vein

Other Available Life/form® Simulators

LF00690U Episiotomy Suturing Set

LF00908U Infant Circumcision Kit, White
LF00909U Infant Circumcision Kit, Black
LF00910U Infant Circumcision Kit, Brown

LF00911U Pre-Teen Circumcision Kit, White
LF00912U Pre-Teen Circumcision Kit, Black
LF00913U Pre-Teen Circumcision Kit Brown

LF00920U Teen Circumcision Kit, White
LF00921U Teen Circumcision Kit, Black
LF00922U Teen Circumcision Kit, Brown

LF00935U Young Adult Circumcision Kit, White
LF00936U Young Adult Circumcision Kit, Black
LF00936U Young Adult Circumcision Kit, Brown

LF00958U Pediatric Injectable Arm

LF00999U Pediatric Injectable Head

LF01000U Pediatric Lumbar Puncture Simulator

LF01035U Infant Catheterization Trainer

LF01062U Pelvic, Normal & Abnormal

LF01070U Birthing Station Simulator

LF01108U Intraosseous Infusion Simulator

LF01193U Special Needs Infant

LF03609U Child Airway Management Trainer with Stand

LF03616U Complete 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

LF03633U Child Airway Management Trainer Torso

LF03709U Complete Infant *CRiSis*™ Manikin

LF03720U Baby Buddy™ CPR Manikin

LF06001U CPR Prompt® Adult/Child Manikin

LF06012U CPR Prompt® Infant Manikin

LF00908U

LF03720U

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

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