

# Arterial Stick Arm

## Directions for Use



**Laerdal**<sup>™</sup>  
helping save lives



---

---

## Table of Contents

Laerdal Recommends	4
Items Included	4
Skill Taught	4
Preparing Simulator for Use	5
Replacing Skin and Arteries	6
Care & Maintenance	8
Replacement Parts	9

---

---

---

---

The Arterial Stick Arm (375-81001) is a full-size, lifelike adult right arm with replaceable skin and arteries. It is specifically designed for training professionals in the drawing of arterial blood samples for monitoring blood gases.

As a result of quality construction and the ease of replacing individual parts, this simulator should provide many sessions of training when reasonable care and maintenance are practiced.

---

---

**Laerdal Recommends:**

Arterial sticks - 21 gauge needle or smaller

**Items Included:**

- (1) Arterial Stick Arm
- (1) Pulse Simulator
- (1) Laerdal Global Warranty Booklet
- (1) Directions for Use

**Skill Taught:**

- Proper procedure for obtaining ABG – Arterial Blood Gases

**Preparing Simulator for Use:**

1. Remove pulse generator (red syringe bulb).
2. Fill with water. (Blood Concentrate is available for purchase from Laerdal.)
3. Attach filled pulse generator on one end of arterial tubing.
4. Allow fluid to flow through arm and out other arterial tubing.
5. Place arm in horizontal position with palm up.
6. Flex wrist for accurate positioning to perform radial arterial stick.
7. Squeeze pulse generator for palpating a radial or brachial arterial pulse.
8. Perform arterial stick.

**Laerdal Recommends**

In order to prolong life of skin and tubing, we recommend using a 21-gauge needle or smaller.

## Replacing Skin and Arteries:

### Laerdal Recommends

When excessive leaking occurs at the puncture sites, either a new skin or arteries should be installed to reduce loss of fluid.

We recommend working at a sink when replacing skin and arteries.

#### Replacing skin:

1. Cut off skin. This can be done with a sharp knife or scalpel. (Figure 1)
2. Discard skin.

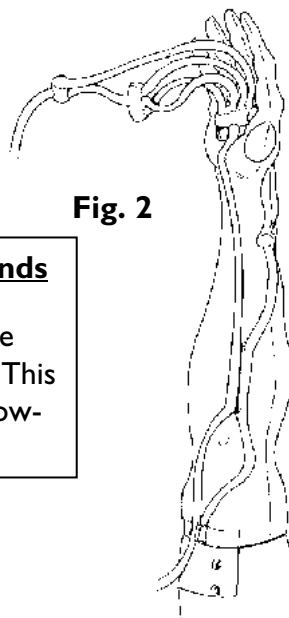
Fig. 1



#### Replacing arteries: (Keeping skin)

1. Lubricate inside of skin with liquid detergent; let it flow down into the finger area.
2. Begin at top of arm and slowly pull skin down and off of arm. **Do not roll, as that will cause skin to bind.** Thumb will detach with skin.
3. Remove tubing from track in mandrel. Glue may need to be scraped away to allow removal.
4. Rinse and dry grooves well and swab with alcohol. Be sure to remove any excess glue.
5. Place new arteries along grooves, (Figure 2) spot gluing as needed. (We recommend a fast drying glue.)
6. Generously lather arm mandrel with liquid soap.

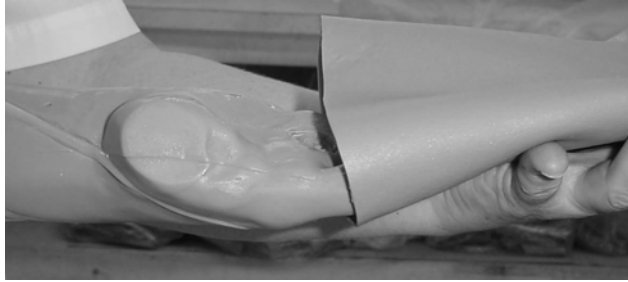
Fig. 2



### Laerdal Recommends

Heat arms skins before replacing on mandrel. This can be done with a blow-dryer.

7. Slide hand into skin. (Photo 1)



**Photo 1**

8. Work skin over fingers, as with a glove. (Photo 2)



**Photo 2**

9. Work arm skin up, over mandrel. (Photos 3 & 4.)



**Photo 3**



**Photo 4**

### Laerdal Recommends:

This product has been designed with drain holes throughout arterial puncture sites. Fluid that escapes from punctures will collect inside arm. Opening plug at top of arm can drain this fluid.

If using blood concentrate, flush arterial tubing with clear water prior to storing arm between training sessions. It is not necessary to remove skin and arteries after use. Wipe off excess moisture and allow to air dry to prevent odors.

### **Care and Maintenance:**

1. Clean with mild soap and water; do not submerge in cleaning fluids or water.
2. Use only on clean surface. Avoid felt tipped markers, ink pens, acetone, iodine or other staining products and avoid placing the manikin on newsprint or inked lines of any kind.
3. To ensure longevity, module should be cleaned after each training session and a general inspection should be conducted regularly.
4. Modules and all other parts should be drained and air-dried thoroughly before storage and disinfected when needed. After use of injection pads (*use water only*), accumulated water should be squeezed out. **Do not store wet foam pads in the skin.** To prevent mildew or mold, pads can be soaked in a mild solution of disinfectant and water or bleach and water. Squeeze excess solution from pads, allow them to dry, then store or reinsert in manikin.
5. Articulating parts will benefit from a light application of talcum powder prior to training sessions.
6. Store properly between teaching sessions.



### **Cautions and Warnings**

This product contains **Natural Rubber** latex which may cause allergic reactions when in contact with humans.



## **Replacement Parts:**

### **Product Number:**

255-00350

381402

375-80150

### **Description:**

Pulse Simulator  
Assembly  
Deltoid Pad  
Skin & Artery  
Replacement Kit

© Laerdal Medical, Gatesville TX. All rights reserved  
1001602 rev B  
December 31, 2006