

Nursing Kelly VitalSim™

Directions for Use



Laerdal™
helping save lives

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Nursing Kelly VitalSim™ is a full-body, lifelike vinyl manikin designed to teach all skills from basic patient handling to advanced nursing, including the measurement of noninvasive blood pressure and the auscultation and recognition of normal and abnormal heart, lung and bowel sounds.

The manufacturing quality of this simulator should provide many sessions of training when reasonable care and maintenance are practiced.

Laerdal Recommends:

IV Injections – 20 gauge needle, or smaller

Tracheostomy Tube – Size 6

NG Tube – Size 16 French

Endotracheal Tube – 7.5 or smaller

Laryngoscope Blade - Size #2 or #3, straight or curved blade

Urethral Catheter – 16 French

Enema Simulation – 7 mm

Items Included:

- (1) Full-Body Manikin with Heart, Breath & Bowel Sounds
- (1) VitalSim™ (w/ 300-00001)
- (1) Articulating Blood Pressure Training Arm with BP Trainer
- (1) Articulating Multi-Venous IV Training Arm
- (1) Set of Wound Assessment and Care Modules
- (1) Hospital Gown
- (1) Male Genitalia
- (1) Female Genitalia
- (3) Urinary Valves
- (3) Anal Valves
- (1) 10 foot Manikin Connector Cable
- (1) Simulated Blood Concentrate
- (1) Manikin Lubricant Spray
- (1) Assembly Tool Kit

Wound Assessment & Care

- (1) Lacerated Hand with Forearm Surgical Incision and Painted Sutures
- (1) Chest Surgical Incision Module
- (1) Abdominal Packing Module
- (1) Abdominal Incision Module with Painted Sutures
- (1) Abdominal Incision Modules with Penrose drain Staples and Nylon Sutures (One each)
- (1) Abdominal Subcutaneous Heparin and Insulin Injection Module
- (1) Thigh Packing and Irrigation Module
- (1) Thigh Suture Module with Nylon Sutures
- (1) Thigh Debridement Module
- (1) Infected Colostomy Stoma
- (1) Gluteal and Ventro-Gluteal Decubitus Ulcer Modules (One each)
- (1) Below Knee Amputation Stump
- (1) Below Elbow Amputation Stump
- (1) Diabetic Foot with Gangrenous Toes and Heel Decubitus ulcer
- (1) Varicose Vein Leg with Stasis Ulcer

Skills Taught:

- Basic patient handling
- Denture care
- Oral hygiene
- Oral and nasal Intubation
- Eye and ear irrigation (simulated)
- NG Tube insertion, care medication administration and removal
- Lavage/Gavage
- Tracheostomy care and suctioning
- Blood pressure skills
- IV care and management
- Subcutaneous and intramuscular injection
- Oxygen delivery procedures
- Ostomy irrigation and care
- Catheterization skills
- Enema simulation
- Colonic irrigation
- Wound assessment and care
- Bandaging and dressing
- Auscultation and recognition of normal and abnormal heart, breath and bowel sounds

Teeth –
To remove:
Grasp firmly and lift.

Laerdal Recommends:

Insert and remove bottom teeth first when performing denture care.

- To reinsert both sets:**
- a. Begin on one side and work around, aligning ridges with corresponding grooves in jaws. (Dusting with baby powder is helpful.) (Photo 1)
 - b. Press firmly into place.



Photo 1

Carotid Pulse –
To generate a carotid pulse, use the hand held red bulb located on the right axillary side of manikin. Firmly squeeze bulb while palpating for pulse at carotid site.

Tracheostomy Plug –
The Tracheostomy plug may be removed by grasping firmly, then lifting up and out. To replace, press into hole.

- Tracheostomy Care –**
1. Mix solution of ½ cup mild liquid detergent and ½ cup water.
 2. Remove lungs and trachea.
 3. Pour mixture into simulated lungs.
 4. Fill lungs to a level where suction catheter will pick up mixture.
 5. Reattach lungs at connector.

Laerdal
Recommends:

We recommend a size 6 tracheostomy tube. Opening will accommodate other sizes, but a size 6 is usually most suitable.

The consistency of the solution approximates the mucus normally suctioned in a tracheostomy patient.

Drain and air-dry lungs immediately after each use.

Be careful not to introduce fluids into speaker ports or near electronics in manikin's chest.

NG Tube Placement –

This manikin features an esophagus and stomach reservoir for practice of NG tube insertion and skills such as Lavage and Gavage.

Laerdal Recommends:

For best results, lubricate the tube with either manikin lubricant or liquid detergent prior to NG or OG tube insertion.

Intubation –

The following equipment is recommended:

- a. Endotracheal tube, size 7.5 ID or smaller
- b. Manikin Lubricant spray or liquid soap
- c. 10 ml syringe
- d. Laryngoscope blade, size #2 or #3 straight or curved
- e. Laryngoscope handle
- f. NG Tube, size 16 French

Remove trach plug prior to insertion of intubation tubes.

Laerdal Recommends:

Intubation tubes and airway passages should be sprayed with manikin lubricant spray or lubricated with liquid soap prior to intubation.

Chest Plate –

To remove:

1. Apply pressure to center of plate.
2. Work your fingers under edge of plate while lifting.

To insert:

1. Position plate over cavity.
2. Work plate edges into groove on torso cavity.

Lungs –

Lungs may be removed from bronchial tubes by unscrewing them at the connector site. To replace, reverse procedure.

Stomach Reservoir –

The stomach reservoir attaches to esophagus with a connector. Unscrew reservoir from esophagus to fill or drain with water.

Belly Plate with Multi-Sounds –

To remove:

1. Apply pressure to center of plate.
2. Work your fingers under edge of plate while lifting.
3. Disconnect bowel sound speaker connector to release plate.

Laerdal Recommends:

Dusting with talcum powder is helpful in replacing belly plates.

To insert:

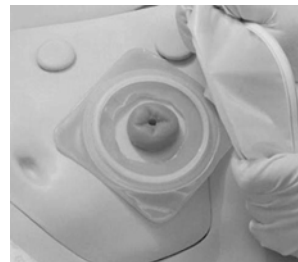
1. Position plate over cavity.
2. Reconnect bowel sound speaker.
3. Work plate edges into groove on pelvis cavity.

Belly Plate with Colostomy Stoma –

To remove:

1. Apply pressure to center of plate.
2. Work fingers under edge while lifting.
(Photo 2)

Photo 2



To insert:

1. Attach valve and genitalia.
2. Work plate edges into pelvis cavity.

The belly plate with colostomy also serves as the urinary reservoir.

To fill reservoir:

- a. Remove colostomy stoma.
- b. Fill with fluid.
- c. *Gently* reinsert stoma.

Laerdal Recommends:

Make sure genitalia and urinary connectors are in place prior to filling.

Injection Pads –

- a. To remove, squeeze pad with fingers and pull.
- b. To replace, squeeze pad and insert in opening.

Laerdal Recommends:

Dusting pads with talcum powder will assist with reinsertion.

Injection pads may be injected with water. Foam should be removed from pads immediately following training. Squeeze out fluid and air dry.

Waist, Knee and Ankle Joints –

These joints are connected with a bolt and lock nut. To remove, unscrew lock nut and pull bolt from joint. Segments will now easily disconnect.

Laerdal Recommends:

When assembled, talcum powder should be used in joints to assist articulation.

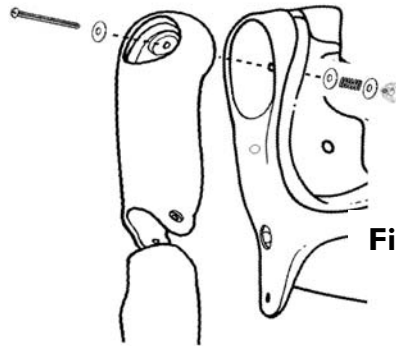
Arms –

Arms are attached with a 4 ½” long bolt, three washers, a spring and a wing nut.

Attachment hardware is located in envelope inside carton.

To attach:

1. Remove chest plate.
2. Locate hole in shoulder.
3. Remove deltoid injection pad from arm by squeezing skin in center of pad while pulling.
4. Slide small washer over bolt.
5. Insert bolt through hole in arm and hole in manikin's shoulder.
6. Add large washer, spring, another nut to bolt. (Figure 1)
7. Use a screwdriver to hold bolt steady while tightening wing nut.
8. Reinsert chest plate and deltoid pad.



To remove arms, reverse procedure.

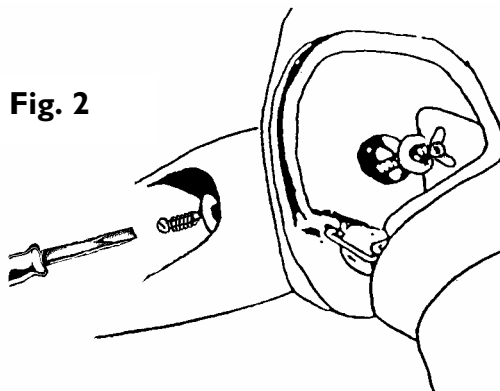
Legs –

Legs are attached with a 6” long bolt, a spring, a large washer, a small washer and a wing nut.

Attachment hardware is located in envelope inside carton.

To attach:

1. Remove belly plate from manikin to locate hole in hip.
2. Remove thigh injection pad from leg by squeezing skin in center of pad while pulling.
3. Slide spring and small washer over bolt.
4. Insert bolt through hole in thigh.
5. Insert bolt through hole in pelvis.
6. Slide large washer and wing nut over bolt.
7. Use screwdriver to hold bolt while tightening wing nut.
(Figure 2)



To remove legs, reverse procedure.

IV Arm –

Multiple Venipuncture sites:

- Dorsal Veins of Hand (3)
- Antecubital
 - Cephalic Vein
 - Median Vein
 - Basilic Vein

Directions for Use:

1. Attach IV bag to IV tubing.
2. Attach IV tubing to either latex vein.
2. Allow fluid to flow through arm and out other latex vein.
3. Clamp off flow of water from open vein.

The arm is now ready to practice venipuncture.

Laerdal Recommends:

A 20 gauge needle or smaller is recommended to extend the life of the IV Arm.

When using an IV catheter, lubricate with manikin lubricant for easier insertion.

Laerdal Recommends:

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

We recommend working at a sink when replacing the skin and vein system.

Replacing Skin and Veins:

Remove skin:

If replacing skin and veins, cut off skin. This can be done with a sharp knife, scalpel or scissors. (Figure 3) When finished, discard skin.

Replacing veins: (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 vein grooves well and swab with alcohol. Be sure to remove any excess glue.

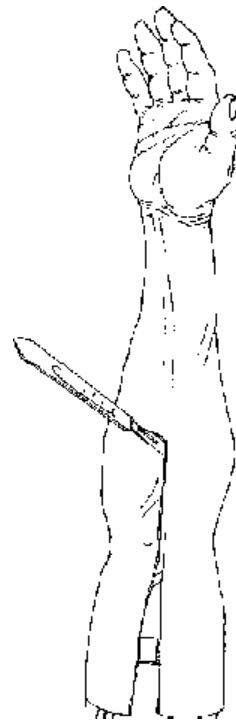


Fig. 3

5. Place new veins along grooves, (Figures 4 & 5) spot gluing as needed. (We recommend a fast-drying glue.)

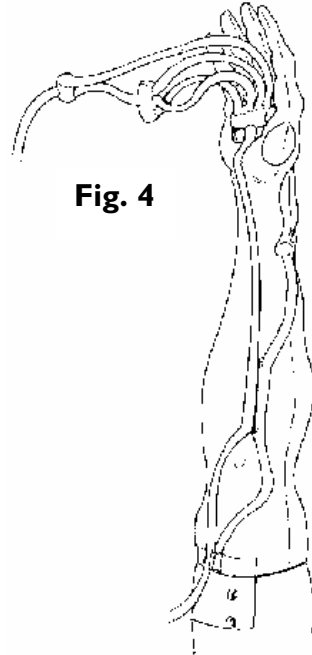


Fig. 4

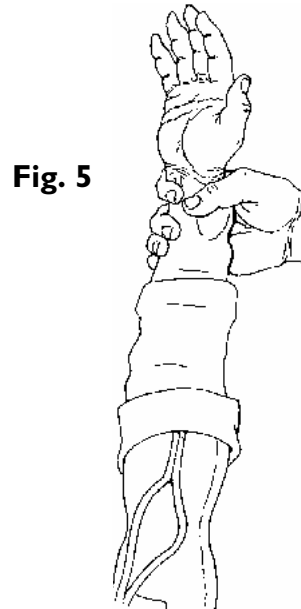


Fig. 5

6. Generously lather arm mandrel with liquid soap.

Laerdal Recommends

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

7. Slide hand into skin. (Photo 3)

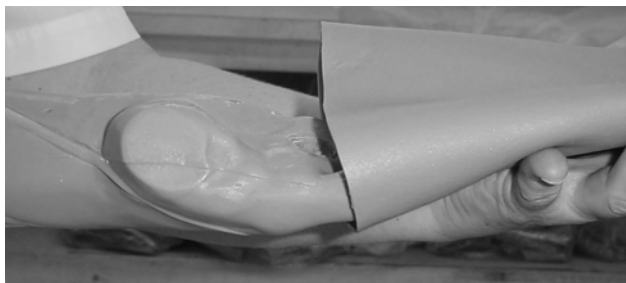


Photo 3

8. Work skin over fingers, as with a glove. (Photo 4)



Photo 4

9. Work arm skin up, over mandrel. (Photos 5 & 6)



Photo 5



Photo 6

Blood Pressure Arm –

1. Place Blood Pressure Cuff on arm.
2. Attach tubing on cuff to clear tube, located underneath Nursing Kelly's arm. **Photo 7**
(Photo 7)
3. **See VitalSim DFU for complete Blood Pressure operating procedures.**



Laerdal Recommends:

Do not insert needles into blood pressure arm.

Auscultation of Heart, Breath and Bowel Sounds –

1. Connect Nursing Kelly to VitalSim Unit, via cable located on back of manikin. (Photo 8)
2. **See VitalSim DFU for complete Heart, Breath and Bowel Sound Auscultation.**



Photo 8

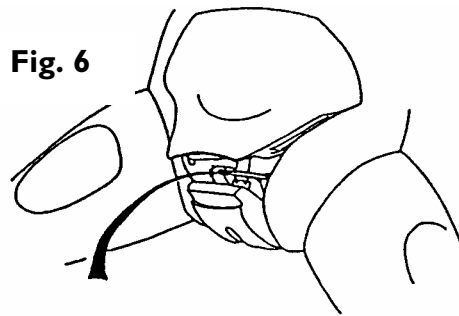
Genitalia:

Both male and female genitalia have been provided for urinary catheterization and enema training procedures.

Tube-like valves, with a screw cap on one end, connect urethra and anus to corresponding reservoirs. This cap must be connected to genitalia openings. Soft vinyl end of connector is attached to urinary and anal reservoirs with a white clamp.

(Long valve connects urinary reservoir; short valve connects anal reservoir.)

Pelvic support pin must be removed and replaced immediately when assembling and disassembling genitalia. (Figure 6)



Laerdal **Recommends**

Pelvic support pin must be replaced.
Failure to replace pin will result in pelvic spread.

If this occurs, the genitalia module will no longer fit properly in the manikin.

To disassemble:

1. Lift up on belly plate.
2. Pull upper portion of genitalia back to remove pelvic support pin.
3. Belly plate, genitalia with connectors, and colon reservoir may now be removed simultaneously.

To assemble: (Photos 9, 10 & 11)

1. Screw both valves onto genitalia. When attaching valves, be sure alignment of genitalia, urinary reservoir (belly plate) and colon reservoir are as illustrated in Figure 7.
2. Lift up on edge of belly plate.
3. Pull down upper portion of genital.
4. Insert into pelvic cavity.
5. Replace the pelvic support pin.
6. Press belly plate into position.

Long valve connects urinary reservoir; short valve connects anal reservoir.

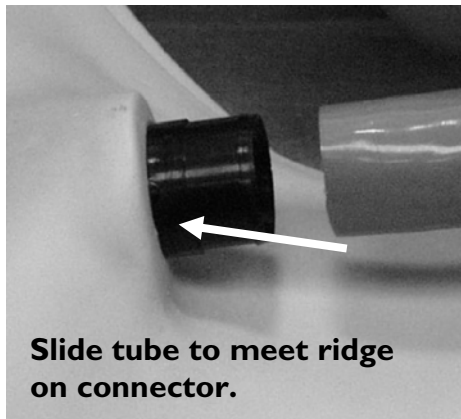
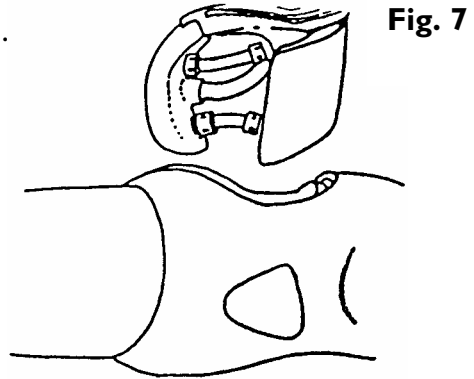


Photo 9

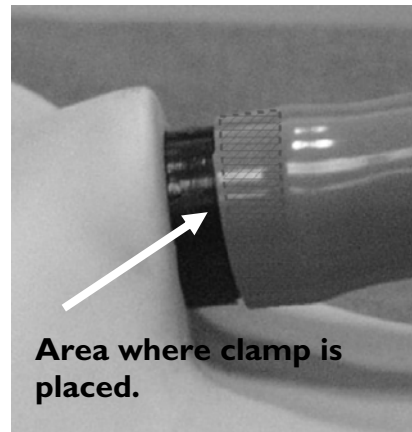


Photo 10



Photo 11

Colon Reservoir –

Colon reservoir inserts into pelvic cavity with narrow end downward and connector pointing outward. This connector attaches reservoir to anal valve on genitalia. (Photo 12)

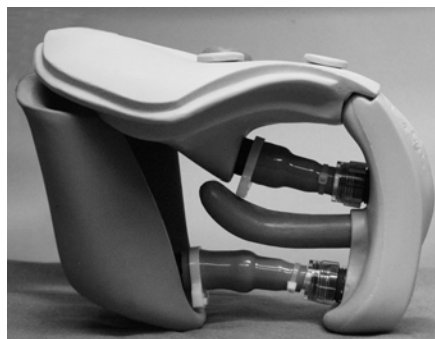


Photo 12

Reservoir should be removed from manikin, inverted, drained and completely air-dried before storing.

Urinary Catheterization and Enema Simulation –

Laerdal Recommends:

Catheters should be well lubricated with manikin lubricant or full strength liquid soap prior to using.

After several uses, catheter may “hang” when water has washed away lubricant, causing friction and binding. If this occurs, generously lubricate a catheter and insert into urethra several times.

If catheter hangs during removal, work it with an “in and out” motion. Use warm water in reservoirs when possible to keep soap from clogging the catheters. Make sure reservoirs are well drained of all water before disconnecting valves.

Laerdal Recommends:

A size 16 French catheter is suggested for urethral catheterization.

Size 7mm catheter is suggested for enema simulation.

Check List for Valves That May Leak:

- a. Do valve connections have an O-ring?
- b. Does the white clamp fit firmly against base of valve?
- c. Are valves attached correctly?
- d. If valves are attached correctly, are they properly connected to reservoirs and to genitalia?

Troubleshooting –

What can I do if my manikin develops a pelvic spread?

Cinch pelvis with a belt and heat with a hair dryer to soften, cinching as you heat. Insert pin, leaving belt in place until cool.

What do I do if my connectors leak?

Make sure C-clamps are squeezed tightly into place and connectors are screwed on tightly.

What can I do if I can't remove my catheter?

Make sure the cuff is deflated.

VitalSim™ Connection

See **Vital DFU** for complete connection and operating procedures.



Care and Maintenance

1. Clean with mild soap and water; do not submerge manikin or parts in cleaning fluids or water. Apply a light coat of talcum powder to the face and chest skin to achieve skin-like feeling.
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, each manikin 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.

Warranty

Laerdal Medical warrants to the purchaser that its products are free from defects in material and workmanship for a period of one (1) year from the date of purchase by the original user. During the designated one (1) year period, Laerdal Medical will, upon receipt of a product found to be defective due to materials or workmanship from the purchaser and notification in writing of the defect, at its option repair or replace any parts found to be defective or the entire product. Warranty period does not renew with replacement or repair of original product.

Products found to be defective and notification of defects may also be sent to the authorized Laerdal Medical dealer from whom the product was purchased. All postage, shipping or handling charges shall be the sole responsibility of the purchaser.

Laerdal Medical is responsible for the effects of safety, reliability and performance of its product(s) only if:

- service, repair, readjustment or modification is carried out by Laerdal Medical or persons authorized by Laerdal Medical.
- the electrical installation of the room where the product is used complies with pertinent equipment requirements.
- the product is used in the proper manner in strict compliance with its Directions for Use.

Laerdal Medical shall not be liable under this warranty for incidental or consequential damages, or in the event any unauthorized repairs or modifications have been made or attempted, or when the product, or any part thereof, has been damaged by accident, misuse or abuse. This warranty does not cover batteries, fuses, normal wear and tear, excessive use, staining, discoloration or other cosmetic irregularity which does not impede or degrade product performance.

Some states in the USA do not allow the exclusion or limitation of incidental or consequential damages, so those limitations or exclusions may not apply to you.

There are no other express or implied warranties, whether of merchantability, fitness or purpose, or otherwise, on the product, its parts and accessories.



Cautions and Warnings

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

REPLACEMENT PARTS:

Product Number:

Description:

312029	Kit, Skin/Vein Adult
380200	Multi-Venous IV Arm Arm Assembly, Blood Pressure
380460	Genitalia, Blank-Adult Male
380471	Plug, Belly plate-Adult
380475	Pin, Pelvis
380600	Leg Assembly, Left Adult
380650	Leg Assembly, Right Adult
380700	Arm, Male Multi-Venous IV Training
380800	Arm Assembly, Left Plain Adult
380801	Hand, Left Adult Male
381401	Arm, Upper Right Adult Male
381402	Pad Assembly, Deltoid Injection Adult
381403	Stoma, Infected Colostomy
381404	Stump, Left Lower Leg
381410	Foot, Diabetic Right Adult
381411	Pad, Thigh Packing Adult
381412	Pad, Thigh Sutured Adult
381413	Leg, Varicose Lower Right Adult
381414	Pad, Gluteal Ulcerated Adult Male
381415	Pad, Ventro-Gluteal Ulcerated Adult Male
381416	Hand, Lacerated w/Forearm Adult Male
381417	Pad, Thigh Debridement Adult
200-00550	Cuff Assembly, Blood Pressure VitalSim
300-00150	Pad Assembly, Thigh Injection Adult

300-00250	Pad Assembly, Ventral Gluteal Injection Adult Male
300-00350	Pad Assembly, Gluteal Injection Adult Male
300-00450	Valve/Clamp Set, Anal Hosp Urin/Anal CVK
300-00550	Valve/Clamp Set, Urinary Hosp Adult
300-00650	Lubricant, Manikin-4 oz Bottle W/Sprayer
300-00750	Blood, Simulated-4 oz Red
300-00850	Plug, Tracheostomy
300-00950	Denture Set, Upper/Lower Adult
300-01050	Wound Set, Care and Assessment Adult Male
300-01150	Head Assembly, VitalSim W/Trach Plug Adult Male
300-01350	Reservoir Assembly, Stomach-Hosp Adult Male
300-01550	Lung Bag Assembly
300-01650	Chest plate Assembly, VitalSim Hosp Adult Male
300-01750	Stump, Right Forearm Adult Male
300-01850	Teeth, Upper-Adult
300-01950	Teeth, Lower-Adult
300-02050	Belly plate Assembly, Hosp w/Speakers Adult
300-02150	Belly plate Assembly, Hosp 3 Hole Adult
300-02250	Reservoir Assembly, Colon Hosp Adult
300-02350	Forearm, Right Adult Male
300-02450	Pad, Forearm Right Non-Injection Adult Male
300-02550	Hand, Right Adult Male
300-02650	Arm, Upper Left Adult Male

300-02750	Forearm, Left Adult Male
300-02850	Pad, Forearm Left Non- Injection Adult Male
300-02950	Thigh, Right Adult
300-03050	Leg, Lower Right Adult
300-03150	Foot, Right Adult
300-03250	Thigh, Left Adult
300-03350	Leg, Lower Left Adult
300-03450	Foot, Left Adult
300-03550	Belly plate, Packing Adult
300-03650	Belly plate Sutured Adult
300-03750	Chest plate Sutured Adult
300-03850	Genitalia Assembly, Adult Male
300-03950	Genitalia Assembly, Adult Female
300-04050	Pad Assembly, Right Forearm IV
300-04150	Pad Assembly, Left Forearm IV
300-04250	Hardware Set, Adult Manikin-Legs/Arms to Body
300-04350	Hardware Set, Adult Manikin-Pelvis/Torso
300-04450	Plug, Arm Adult
300-04550	Belly plate Assembly, Suture/Drain Hosp Adult
300-04650	Belly plate Assembly, Staple/Drain Hosp Adult
300-04750	Belly plate, Abdominal Injection Hosp Adult
300-04850	Gown, Hospital-Back Tie
300-04950	Stoma, Soft Style W/Thru Hole
300-05150	Arm Assembly, Left Plain Adult

Please contact Customer Service Representatives for more information on Replacement Parts in other skin tones.

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