

Intramuscular Injection Simulator LF00961U Instruction Manual



About the Simulator

The **Life/form®** Intramuscular Injection Simulator is designed to provide students with the visual and tactile experience needed to learn intramuscular injection techniques. This simulator has landmarks that can be palpated so that the various injection techniques can be practiced.

Unique design and construction give students the opportunity to visualize underlying structures and quickly learn proper injection procedures.

Internal Structure

As with all **Life/form®** replicas and simulators, the Intramuscular Injection Simulator is extremely realistic. Skin and muscle textures, and bone shape and position closely resemble a live patient. As a result, perforation of the tissue with a needle duplicates the sensation of administering an actual injection.

A simulated bony structure is embedded in the torso and represents the superior end of the femur, or greater trochanter; the posterior superior and anterior superior iliac spines; and the sacrum. Bones are positioned in a way that students are able to visualize and palpate these anatomical landmarks in order to identify the gluteal injection sites.

A section of the upper, outer quadrant of the left gluteal area is cut away to allow students to visualize the underlying structures. The gluteus medius and gluteus maximus muscles, sciatic nerve, and vascular structures are clearly shown.

Some students, and even instructors, have found the realism of this simulator to be rather startling. It

was intended to be just that. It will provide the kind of learning experience that helps students make the transition from the idealized classroom setting to the realities of ward duty.

Procedures That Can Be Performed on This Simulator

The Intramuscular Injection Simulator is a functional teaching aid that enables personnel to develop manipulative skills and improve techniques. It makes the learning experience one that is easily applied in actual patient care, with little loss of time and a minimum of patient discomfort.

The specific techniques in intramuscular injections that can be taught with this simulator are:

A. Gluteus Medius Injections

This is probably the most commonly considered site for giving posterior injections; the sciatic nerve transverses this area. If a student perforates the nerve or the vascular structures, it can cause irreparable harm to the patient. One acceptable technique for giving injection in this site is to have the patient in a prone position, toes flexed inward. This relaxes the posterior muscles. The simulator duplicates this position. The student then identifies the greater trochanter and draws an imaginary line from it to the crest of the posterior iliac crest. An injection may be given anywhere above and outside of this imaginary plane. The needle should penetrate on a direct back-to-front route.

Another technique is to place the palm of the hand over the trochanter and extend the spread fingers towards the posterior iliac spine. An injection may be safely administered by entrance between the thumb and index finger.

B. Ventrogluteal Injections

This site is becoming more frequently used for injections because it is removed from major blood vessels and nerves, and it also presents good muscle density. Because of the previously listed features and because the landmarks are so easily identified, this site can often be used in giving pediatric injections. The patient can be injected in this area while in a prone position, on their side, or standing, but the best technique dictates that they should be in a supine position.

The student defines the site by locating the greater trochanter and placing their palm on it. Then the index finger should reach towards the anterior iliac crest. Now move the middle finger away from the index finger. The triangle between the two is the safe site to inject. The needle should be inserted towards the iliac crest at a slight upward angle.

C. Vastus Lateralis Injections

Again because of the lack of major vessels and nerves, this site is often used in pediatric patients. With the patient in the supine position, the student identifies the site by positioning one hand above the knee and one hand below the greater trochanter. The area between the hands is the safe zone.

Care of Simulator

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 simulator. Simply spray soiled area and wipe clean with a soft cloth or paper towels.

Cautions

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

Supplies/Replacement Parts for Simulator

LF09919U Nasco Cleaner

LF00963U Replacement Muscle

Other Available *Life/form*® Simulators

LF00698U	Adult Injectable Arm (White)	LF01184U	Venatech IM & Sub Q
LF00855U	Male Catheterization	LF01193U	Special Needs Baby
LF00856U	Female Catheterization	LF03000U	CPARLENE® Series
LF00901U	Prostate Examination	LF03601U	Adult Airway Management Trainer with Stand
LF00906U	Ostomy Care	LF03602U	Adult Airway Management Manikin
LF00929U	Surgical Bandaging	LF03609U	Child Airway Management Trainer with Stand
LF00957U	Enema Administration	LF03616U	Child CRiSiS™ Manikin
LF00958U	Pediatric Injectable Arm	LF03617U	Deluxe Child CRiSiS™ Manikin with Arrhythmia Tutor
LF00961U	Intramuscular Injection	LF03620U	PALS Update Kit
LF00984U	Breast Examination	LF03623U	Infant Airway Management Trainer with Stand
LF00995U	Arterial Puncture Arm	LF03632U	Child Intraosseous Infusion/ Femoral Access Leg on a Stand
LF00999U	Pediatric Injectable Head	LF03633U	Child Airway Management Trainer Torso
LF01005U	First Aid Arm	LF03693U	Basic Buddy® CPR Manikin
LF01008U	Intradermal Injection Arm	LF03699U	"Airway Larry" Airway Management Trainer
LF01012U	Heart Catheterization (TPN)	LF03709U	Infant CRiSiS™ Manikin
LF01019U	Ear Examination	LF03720U	Baby Buddy™ Infant CPR Manikin
LF01027U	Peritoneal Dialysis	LF03750U	Fat Old Fred
LF01028U	Suture Practice Arm	LF03760U	Airway Management/Cricoid Pressure Trainer
LF01034U	Suture Practice Leg	LF03770U	Chest Tube
LF01036U	Spinal Injection	LF03953U	CRiSiS™ Manikin, Complete
LF01037U	Hemodialysis Practice Arm	LF03955U	Deluxe CRiSiS™ Manikin
LF01038U	Episiotomy Suturing Set	LF03956U	Deluxe "Plus" CRiSiS™ Manikin
LF01042U	Suture Kit	LF03965U	Adult CRiSiS™ Auscultation Manikin
LF01062U	Pelvic, Normal & Abnormal	LF03966U	Adult CRiSiS™ Auscultation Manikin with ECG Simulator
LF01063U	Stump Bandaging, Upper	LF04000U	GERI™/KERI™ Manikin Series
LF01064U	Stump Bandaging, Lower	LF04200U	Adult Sternal Intraosseous Infusion
LF01069U	Cervical Effacement	LF06001U	CPR Prompt® Adult/Child Manikin
LF01070U	Birthing Station	LF06012U	CPR Prompt® Infant Manikin
LF01082U	Cricothyrotomy	LF06200U	CPR Prompt® Keychain Rescue Aid
LF01083U	Tracheostomy Care	LF06204U	CPR Prompt® Rescue and Practice Aid
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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