

SIMULATION MODELS CATALOG

REALISTIC TRAINING
BETTER OUTCOMES



REALISTIC

ANATOMICAL DESIGN



PRACTICAL

HANDS - ON TRAINING



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ET/38

ECG RHYTHM SIMULATOR

KEY FEATURES

- 4 hours of battery life
- Rechargeable
- 7" tablet provided as control panel
- Wireless control



GENERAL APPLICATIONS

1. Generate 43 distinct ECG rhythms for both pediatric and adult patients.
2. The simulator can be directly connected to a real bedside patient monitor or defibrillator device in a hospital environment. This enables simultaneous training on device operation and rhythm analysis.
3. Heart rate (HR) and rhythm transitions can be adjusted instantly via the tablet.
4. Rhythms available on the simulator: NSR, S-BRADY, S-TACH, S-PAC, S-ARREST, S-WPW, S-LONG QT, S-PVC, 1°AVB, 2°AVB1, 2°AVB2, 3°AVB, BBB, IDIO VENTR, JR, JT, AT, AFLT, AFIB, ST, PACED, VT, SVT, POLI VT, VF, T.D POINTES, AGONAL, ASYSTOLE.



Note: Images used in this catalog are for illustrative purposes only. Models and brands of clothing and accessories may vary.

ET/38+ ECG RHYTHM SIMULATOR (WITH POST-SHOCK RHYTHM CHANGES)

KEY FEATURES

- 4 hours of battery life
- Rechargeable
- 7" tablet provided as control panel
- Wireless control



GENERAL APPLICATIONS

1. Generate 43 distinct ECG rhythms for both pediatric and adult patients.
2. The simulator can be directly connected to a real bedside patient monitor or defibrillator device in a hospital environment. This enables simultaneous training on device operation and rhythm analysis.
3. Heart rate (HR) and rhythm transitions can be adjusted instantly via the tablet.
4. Following defibrillation, the rhythm transitions to the user-selected rhythm.
5. Rhythms available on the simulator: NSR, S-BRADY, S-TACH, S-PAC, S-ARREST, S-WPW, S-LONG QT, S-PVC, 1°AVB, 2°AVB1, 2°AVB2, 3°AVB, BBB, IDIO VENTR, JR, JT, AT, AFLT, AFIB, ST, PACED, VT, SVT, POLI VT, VF, T.D POINTES, AGONAL, ASYSTOLE.



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ET/66A

TABLET CONTROLLED FULL-SIZE ADULT CPR TRAINING MANIKIN



KEY FEATURES

Full-Sized Adult

- 4 hours of battery life
- Rechargeable
- Wireless control
- 10" tablet provided as control panel
- High-quality and durable material
- Realistic anatomical structure
- Elastic chest, neck, and facial skin
- Prominent anatomical features, including nipples, clavicle, xiphoid process, and ribs
- Replaceable face skin, neck skin.
(sold separately)
- One-way valve system that ensures the air provided to the manikin flows in a single direction, effectively preventing any backflow
- A steel spring system designed to provide realistic chest compression during CPR while preventing collapse during application



GENERAL APPLICATIONS

1. The simulator features a movable neck, arms movable from the shoulders, and flexible sponge-structured lower extremities that provide ease of transportation.
2. Pupilla observation can be made; It can be set to normal and mydriasis via the tablet.
3. Carotid pulse can be controlled automatically. In addition, the number of beats can be adjusted.
4. The manikin has patient sounds such as cough, cry, vomit and breath with suffocate with sounds.
5. The head and neck position can be given and the airway opening procedure can be applied. Operation accuracy can be checked via the tablet.
6. Artificial respiration can be administered through the mouth and nose. Its mouth is suitable for using resuscitator. Realistic chest rise can be observed.
7. While performing artificial respiration insufficient, sufficient, excessive applications and air passage to the stomach can be followed via the tablet. The number of correct and wrong applications is displayed on the tablet.
8. While performing cardiac massage, insufficient, sufficient, excessive applications and the correct hand position can be followed via the tablet. The number of correct and wrong applications is displayed on the tablet.
9. The results of the operations can be seen by pressing the results button. The report includes data such as the percentage rate of compression and artificial respiration and operation time.

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ET/66B

FULL-SIZE ADULT CPR TRAINING MANIKIN (WITH CONTROL DEVICE)



KEY FEATURES

Full-Sized Adult

- High-quality and durable material
- Realistic anatomical structure
- Elastic chest, neck, and facial skin
- Prominent anatomical features, including nipples, clavicle, xiphoid process, and ribs
- Replaceable face skin, neck skin. (sold separately)
- CPR control device
- One-way valve system that ensures the air provided to the manikin flows in a single direction, effectively preventing any backflow
- A steel spring system designed to provide realistic chest compression during CPR while preventing collapse during application



GENERAL APPLICATIONS

1. The simulator features a movable neck, arms movable from the shoulders, and flexible sponge-structured lower extremities that provide ease of transportation.
2. Pupilla observation can be made; one is normal and the other is in mydriatic.
3. Carotid pulse can be controlled by squeezing the plastic bulb.
4. The head and neck position can be given and the airway opening procedure can be applied. Operation accuracy can be checked via light system on the CPR controller.
5. Artificial respiration can be administered through the mouth and nose. Its mouth is suitable for using resuscitator. Realistic chest rise can be observed.
6. While performing artificial respiration insufficient, sufficient, excessive applications and air passage to the stomach can be followed via light system on the CPR controller.
7. While performing cardiac massage, insufficient, sufficient, excessive applications and the correct hand position can be followed via light system on the CPR controller.
8. The CPR control device operates with an adapter.

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ET/66E HALF-SIZE ADULT CPR TRAINING MANIKIN (WITH SOUND AND LIGHT FEEDBACK)



KEY FEATURES

Half-Sized Adult

- High-quality and durable material
- Realistic anatomical structure
- Elastic chest, neck, and facial skin
- Prominent anatomical features, including nipples, clavicle, xiphoid process, and ribs
- Replaceable face skin, neck skin. (sold separately)
- One-way valve system that ensures the air provided to the manikin flows in a single direction, effectively preventing any backflow
- A steel spring system designed to provide realistic chest compression during CPR while preventing collapse during application



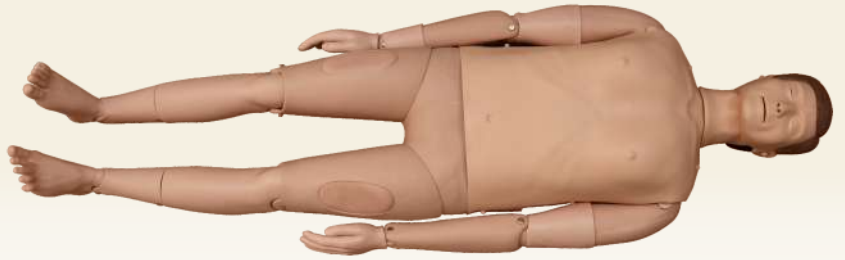
GENERAL APPLICATIONS

1. Pupil response simulation: one eye normal and the other mydriatic.
2. Adjustable head and neck for correct airway positioning.
3. Carotid pulse can be controlled manually by squeezing the plastic bulb.
4. Artificial respiration can be performed through mouth-to-mouth, mouth-to-nose, or bag-valve-mask ventilation. Its mouth is suitable for using resuscitator. Realistic chest rise can be observed.
5. Light and sound feedback system indicates correct hand position, adequate compression depth, and excessive force during chest compressions.

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ET/66M

FULL-BODY ADULT CPR TRAINING MANIKIN



KEY FEATURES

Full-Sized Adult

- High-quality and durable material
- Realistic anatomical structure
- Elastic chest, neck, and facial skin
- Prominent anatomical features, including nipples, clavicle, xiphoid process, and ribs
- Replaceable face skin and neck skin (sold separately)
- One-way valve system that ensures the air delivered to the manikin moves in a single direction, effectively preventing backflow
- Steel spring system designed to provide realistic chest compression during CPR and prevent collapse during practice



GENERAL APPLICATIONS

1. The manikin's neck structure, arm and leg joints are movable to more realistically simulate coma, shock, and fainting positions.
2. Head and neck positioning can be performed, and airway opening procedures can be applied.
3. Artificial respiration can be administered through the mouth and nose. Its mouth is suitable for using resuscitator. Realistic chest rise can be observed.
4. The manikin has a chest structure that provides realistic resistance to chest compressions, allowing CPR to be performed with realistic values.



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ET/71B & ET/71B+ PEDIATRIC CPR TRAINING SIMULATOR



The full-size child CPR training manikin has been developed for basic life support training. It has elastic chest, neck and face skin.

KEY FEATURES

Full-body Child

- 6 hours of battery life*
- Rechargeable*
- Wireless control *
- 7" tablet provided as control panel *
- High-quality and durable material
- Realistic appearance
- Prominent anatomical features, including nipples, xiphoid process, overall chest, and rib
- Replaceable face, neck, and airway components (sold separately)
- Articulated neck, shoulder, and knee joints for easy mobility
- A steel spring system designed to provide realistic chest compression during CPR while preventing collapse during application

GENERAL APPLICATIONS

1. An automatic bilateral carotid and pulse with a customizable rate. *
2. A tablet, acting as a control panel and wirelessly connected to the manikin, is provided with the model.*
3. Artificial respiration can be performed through mouth-to-mouth, mouth to-nose, or bag-valve-mask ventilation. Its mouth is suitable for using resuscitator. Realistic chest rise can be observed.
4. Monitoring the passage of air into the stomach during artificial respiration by both adequate and excessive applications.
5. The manikin has a chest structure that will resist realistically to cardiac massage and heart massage can be performed in realistic values.
6. Supports airway management through head tilt/chin lift maneuvers.
7. Monitoring the proper hand position by applying adequate and excessive compression during cardiac massage.
8. Generate a comprehensive report providing detailed feedback on CPR practices. *



* This feature is available exclusively for the ET-71B+ model.

MODEL	ET/71B	ET/71B+
RECHARGEABLE		✓
WIRELESS CONTROL		✓
PULSE	✓ MANUAL BILATERAL CAROTID	✓ AUTOMATIC BILATERAL CAROTID
CPR NOTIFICATION SYSTEM	✓ WIRED CONTROL DEVICE	✓ 7" TABLET
CPR PERFORMANCE REPORTING		✓ 7" TABLET

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ET/72B & ET/72B+ INFANT CPR TRAINING SIMULATOR



The Infant CPR Training Simulator is specifically designed for Basic Life Support (BLS) training. The model features realistic skin texture on both the chest and face to enhance hands-on training.

KEY FEATURES

9-12 month-Old Child

- 4 hours of battery life*
- Rechargeable*
- Wireless control*
- High-quality and durable material
- Realistic appearance.
- 7" tablet provided as control panel*
- Movable structure the neck, arm, and knee for easy mobility
- Anatomical features such as nipples, the xiphoid process, and rib cage structure



GENERAL APPLICATIONS

1. The model is made from an elastic material, allowing neck, arm and knee joints to be movable.
2. A tablet, acting as a control panel and wirelessly connected to the manikin, is provided with the model.*
3. Artificial respiration can be performed through mouth-to-mouth, or bag-valve-mask ventilation. Realistic chest rise can be observed.
4. The airway structure is compatible with a resuscitator.
5. During artificial respiration, the control panel shows sufficient, or excessive applications, and whether air reaches the stomach.
6. Supports airway management through head tilt/chin lift maneuvers.
7. Brachial pulse assessment is possible on the left arm using an included bulb.
8. When performing cardiac massage, the control panel tracks the correct hand position and displays feedback on sufficient, or excessive force.
9. The manikin's chest provides realistic resistance to cardiac massage. A steel spring system beneath the chest ensures durability and prevents chest collapse from repeated use.
10. Correct and incorrect actions during chest compressions and artificial respiration are logged. All results can be reviewed instantly via the tablet's "Results" function.*

* This feature is available exclusively for the ET-72B+ model.

MODEL	ET/72B	ET/72B+
RECHARGEABLE		✓
WIRELESS CONTROL		✓
	✓	✓
PULSE	MANUAL UNILATERAL BRACHIAL	MANUAL UNILATERAL BRACHIAL
CPR NOTIFICATION SYSTEM	✓ WIRED CONTROL DEVICE	✓ 7" TABLET
CPR PERFORMANCE REPORTING		✓ 7" TABLET

Note: Images used in this catalog are for illustrative purposes only. Models and brands of clothing and accessories may vary.

ET/73M ADULT CPR AND OBSTRUCTION TRAINING SIMULATOR



KEY FEATURES

Half-Sized Adult Torso

- High-quality and durable material
- Realistic appearance
- Prominent anatomical features, including nipples, xiphoid process and rib
- Replaceable mouth and nose components
- Elastic head and neck structure that offers enhanced mobility
- A steel spring system designed to provide realistic chest compression during CPR while preventing collapse during application
- One-way valve system that ensures the air given to the manikin flows in a single direction, effectively preventing any backflow



GENERAL APPLICATIONS

1. Simulation of airway obstruction and heimlich maneuver.
2. Head and neck position can be adjusted to facilitate airway clearance procedures.
3. Artificial respiration can be performed using mouth-to-mouth, and a realistic chest rise can be observed during the process. The mouth design is compatible with resuscitator usage.



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ET/75M PEDIATRIC CPR AND OBSTRUCTION (HEIMLICH) TRAINING SIMULATOR



KEY FEATURES

Half-Sized Child

- High-quality and durable material
- Realistic appearance
- Prominent anatomical features, including nipples, xiphoid process and rib
- Replaceable mouth and nose components
- Foreign body fragment
- A steel spring system designed to provide realistic chest compression during CPR while preventing collapse during application
- One-way valve system that ensures the air given to the manikin flows in a single direction, effectively preventing any backflow



GENERAL APPLICATIONS

1. Artificial respiration can be performed through mouth-to-mouth and bag-valve-mask ventilation with a realistic chest rise.
2. Simulation of airway obstruction and heimlich maneuver.



Note: Images used in this catalog are for illustrative purposes only. Models and brands of clothing and accessories may vary.

ET/81 INFANT INTUBATION SIMULATOR



KEY FEATURES

- High-quality and durable material
- Realistic anatomical structure
- Prominent anatomical features, including oral cavity, tongue, gums, glottis, trachea, larynx, pharynx, esophagus, lungs, and stomach
- Flexible head and neck for easy positioning



GENERAL APPLICATIONS

1. Oral and nasal endotracheal intubation, NG-OG feeding and oxygen inhalation trainings.
2. Removing foreign objects and fluids from the airway.
3. Artificial respiration can be performed through mouth-to-mouth, mouth-to-nose, or bag-valve-mask ventilation.
4. Cannula position can be verified by observing airflow during inhalation. If mistakenly inserted into the esophagus, air delivery will cause gastric inflation.

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ET/100 ADVANCED PEDIATRIC INTUBATION SIMULATOR



KEY FEATURES

Half-Sized Child

- High-quality and durable material
- Realistic appearance
- Designed based on the anatomy of a 5-8 year old child.
- Prominent anatomical features, including oral cavity, tongue, teeth, gums, glottis, trachea, larynx, pharynx, esophagus, lungs, and stomach
- Flexible head and neck for easy positioning



GENERAL APPLICATIONS

1. Oral and nasal endotracheal intubation, NG-OG feeding and oxygen inhalation trainings.
2. Removing foreign objects and fluids from the airway.
3. Artificial respiration can be performed through mouth-to-mouth, mouth-to-nose, or bag-valve-mask ventilation.
4. Cannula position can be verified by observing airflow during inhalation. If mistakenly inserted into the esophagus, air delivery will cause gastric inflation.

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MT/52 ABDOMINAL EXAMINATION AND CHILDBIRTH SIMULATOR



KEY FEATURES

Adult Female Lower Turso

- High-quality and durable material
- Realistic appearance
- Pelvic and spinal structure
- A realistic soft abdominal wall that can be air-filled and palpated
- A newborn model featuring fontanel suture, cranial regions, as well as an umbilical cord and placenta

GENERAL APPLICATIONS

1. Delivery management can be performed in different presentations by manually simulating the progression of the fetus through the birth canal.
2. Vacuum-assisted delivery skills can be practiced.
3. By inflating the airbags placed in the abdominal region and beneath the fetus, Leopold maneuvers and deep palpation training aimed at determining the baby's position in the mother's womb can be performed.
4. It provides a realistic palpation surface thanks to its air-inflatable, soft, and flexible abdominal wall. The level of inflation can be adjusted according to the training scenario.



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MT/60B-K

EPISIOTOMY SUTURING SIMULATOR SET

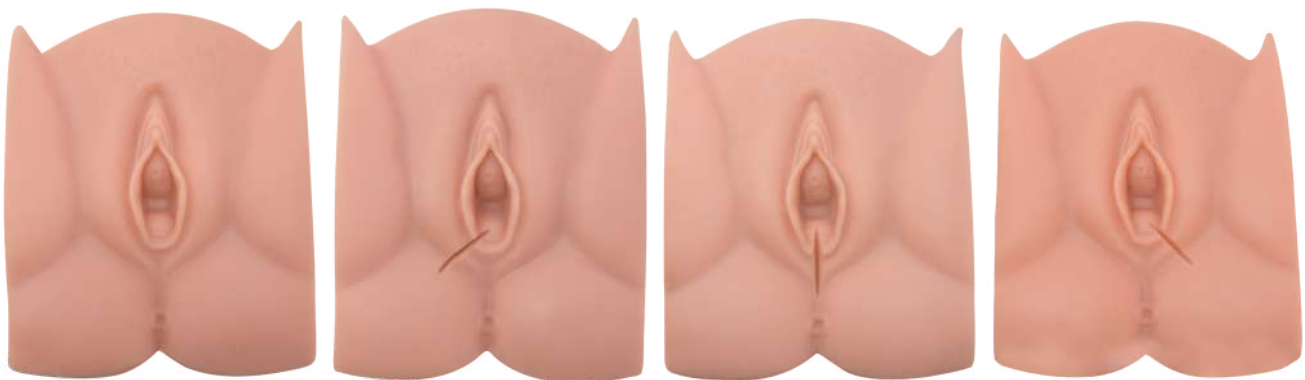
KEY FEATURES

Adult Vulva Model

- High-quality and durable material
- Realistic appearance
- Anatomical features such as mons pubis, clitoris, labia majora, urethral opening, anus

GENERAL APPLICATIONS

1. Surgical incision and suturing training can be performed on four different modules:
 - Median Incision Module: For midline (perineal) incision and repair practices.
 - Right Posterior Incision Module: For right posterolateral episiotomy applications.
 - Left Posterior Incision Module: For left posterolateral episiotomy applications.
 - Non-Incision (Intact) Vulva Module: For users to determine their own incision line and practice customized incision techniques.



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MT/62A WEARABLE BREAST EXAMINATION MODEL



KEY FEATURES

Adult Female Breast Model

- High-quality and durable material
- Realistic appearance
- Wearable for self-examination.
- Benign and malignant tumor formations
- Elastic and soft breast skin



GENERAL APPLICATIONS

1. It can be used for self-examination of breast cancer.
2. Thanks to its wearable structure, it offers high realism in both individual training sessions and patient simulations.
3. Benign and malignant tumors that can be compared according to their location, size, texture and movements were simulated for the breast examination.
4. The inner part is designed as a concave surface so that it looks natural when the user wears the model.

BREAST TUMORS AND THEIR TYPICAL CHARACTERISTICS:

- a. Cancer mass.
- b. Benign and movable fringed tumor.
- c. Different size and malignant tumor hardness in the mammary glands.
- d. Hyperplastic lobule.
- e. An orange peel-like appearance and skin disorder on the skin.

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MT/62B BREAST EXAMINATION SIMULATOR

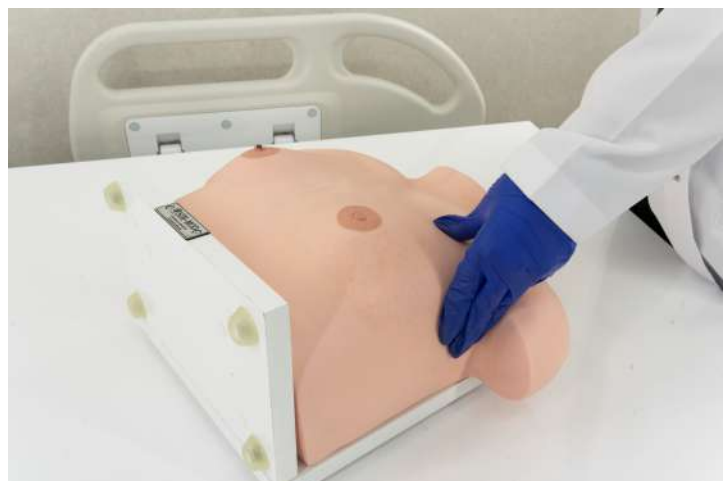
KEY FEATURES

Adult Female Breast Model

- High-quality and durable material
- Realistic appearance
- Prominent areola
- Breast that can be palpated
- Benign and malignant tumor formations
- Orange peel texture on the skin
- The model can be utilized in both upright and reclining positions.

GENERAL APPLICATIONS

1. Examination of breast asymmetry and detection of structural abnormalities.
2. Inverted nipple examination.
3. Nipple bleeding examination.
4. Diagnosis of abnormal formations by analyzing their specific characteristics such as location, size, texture, and mobility.
5. Includes benign and malignant tumor formations with different characteristics in the right and left breasts.
6. Identification of an axillary mass.
7. Supports visual diagnostic training with a distinct areola structure and an "orange peel" skin appearance, a typical sign of breast cancer.



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MT/62N BREAST AND AXILLARY EXAMINATION SIMULATOR WITH REPLACEABLE PARTS



KEY FEATURES

Adult Female Breast Model

- High-quality and durable material
- Realistic appearance
- Prominent rib and areola
- Palpable ribs
- Supine-positioned torso providing bilateral access to the axillae
- Orange peel texture on the skin
- Suitable cavities for placing benign and malignant tumor formations in both breasts.
- Tumor lumps with four different densities, benign nature, and fringed appearance

GENERAL APPLICATIONS

1. Identification of enlarged lymph nodes in the axillary and subclavicular area.
2. There are dedicated cavities suitable for placing masses in both breasts. This allows the position of the masses to be changed according to the training scenario.
3. Diagnosis of abnormal formations by analyzing their specific characteristics such as location, size, texture, density, and mobility.
4. Inverted left nipple examination.
5. Skin concavity and asymmetry examination.
6. Training option with or without the overlay skin.



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MT/65K NEONATAL CARE SIMULATOR (BOY)

KEY FEATURES

Full-Size Newborn Boy

- High-quality and durable material
- Realistic appearance
- Blinking eyes
- Realistic anterior fontanel
- Flexible body for easy mobility



GENERAL APPLICATIONS

1. Neonatal care, such as holding the baby, swaddling, bathing, diaper changing, breastfeeding, umbilical cord care, eye and ear cleaning, as well as applying eye and ear drops.
2. Simulation of temperature measurement from the ear, mouth and rectum.

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MT/65K NEONATAL CARE SIMULATOR (GIRL)

KEY FEATURES

Full-Size Newborn Girl

- High-quality and durable material
- Realistic appearance
- Blinking eyes
- Realistic anterior fontanel
- Flexible body for easy mobility



GENERAL APPLICATIONS

1. Neonatal care, such as holding the baby, swaddling, bathing, diaper changing, breastfeeding, umbilical cord care, eye and ear cleaning, as well as applying eye and ear drops.
2. Simulation of temperature measurement from the ear, mouth and rectum.

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NS/87A BASIC MALE URETHRAL CATHETERIZATION SIMULATOR

It shows the genital organ structure of an adult male. It is developed for urethral catheter application practice.

KEY FEATURES

Adult Male Catheterization

- High-quality and durable material
- Male genital organ structure.
- Realistic appearance
- Catheterization procedures



GENERAL APPLICATIONS

1. Offers training capability for performing realistic urethral catheterization procedures using fluid.
2. When the catheter is advanced, it provides a sensation of resistance similar to that felt in the sphincter muscle in a real human.
3. Bladder irrigation can be done.
4. It has a design mounted on a stand to facilitate ease of use.



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NS/87B SIMPLE FEMALE URETHRAL CATHETERIZATION SIMULATOR

It shows the genital organ structure of an adult female. It is developed for urethral catheter application practice.

KEY FEATURES

Adult Female Catheterization

- High-quality and durable material
- Female genital organ structure.
- Realistic appearance
- Catheterization procedures



GENERAL APPLICATIONS

1. Offers training capability for performing realistic urethral catheterization procedures using fluid.
2. When the catheter is advanced, it provides a sensation of resistance similar to that felt in the sphincter muscle in a real human.
3. Bladder irrigation can be done.
4. It has a design mounted on a stand to facilitate ease of use.



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NS/89A ADVANCED MALE CATHETERIZATION SIMULATOR

It simulates the area from the abdomen to the upper thighs of an adult man.
IM injection, urethral catheterization, bladder irrigation and enema can be performed.

KEY FEATURES

Adult Male Catheterization

- High-quality and durable material
- Male genital organ structure.
- Realistic appearance
- Catheterization and enema procedures
- Replaceable IM injection pad



GENERAL APPLICATIONS

1. The external genitalia include the penis, glans penis, scrotum and urethral meatus.
2. When the catheter is advanced, it provides a sensation of resistance similar to that felt in the sphincter muscle in a real human.
3. Bladder irrigation, ostomy care and perineal care procedures can be performed.
4. Urethral catheterization and enema procedures can be performed using fluids.
5. Intramuscular injection procedures can be performed bilaterally in the vastus lateralis muscles, and unilaterally in the dorsogluteal and ventrogluteal muscle regions.
6. Fluid can be used during procedures, and urine flow can be observed when the catheter reaches the bladder.



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NS/89B ADVANCED FEMALE CATHETERIZATION SIMULATOR

It simulates the area from the abdomen to the upper thighs of an adult woman.
IM injection, urethral catheterization, bladder irrigation and enema can be performed.

KEY FEATURES

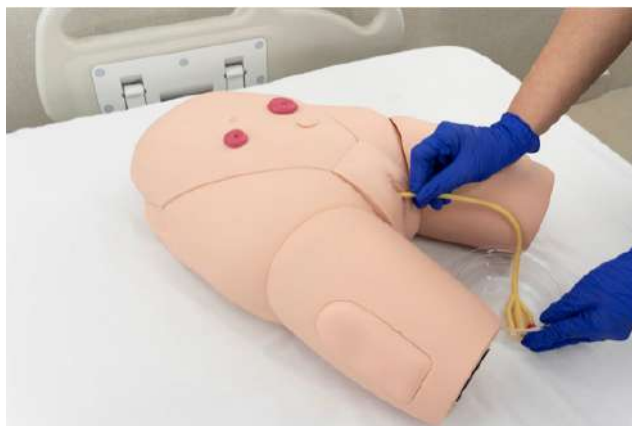
Adult Female Catheterization

- High-quality and durable material
- Female genital organ structure.
- Realistic appearance
- Catheterization and enema procedures
- Replaceable IM injection pad



GENERAL APPLICATIONS

1. The external genitalia include the mons pubis, labia majora, and urethral meatus.
2. When the catheter is advanced, it provides a sensation of resistance similar to that felt in the sphincter muscle in a real human.
3. Bladder irrigation, ostomy care and perineal care procedures can be performed.
4. Urethral catheterization and enema procedures can be performed using fluids.
5. Intramuscular injection procedures can be performed bilaterally in the vastus lateralis muscles, and unilaterally in the dorsogluteal and ventrogluteal muscle regions.
6. Fluid can be used during procedures, and urine flow can be observed when the catheter reaches the bladder.



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NS/89C

ADVANCED INTERCHANGEABLE GENITALIA CATHETERIZATION SIMULATOR

It simulates the area from the abdomen to the upper thighs of an adult.

IM injection, urethral catheterization, bladder irrigation and enema can be performed.

KEY FEATURES

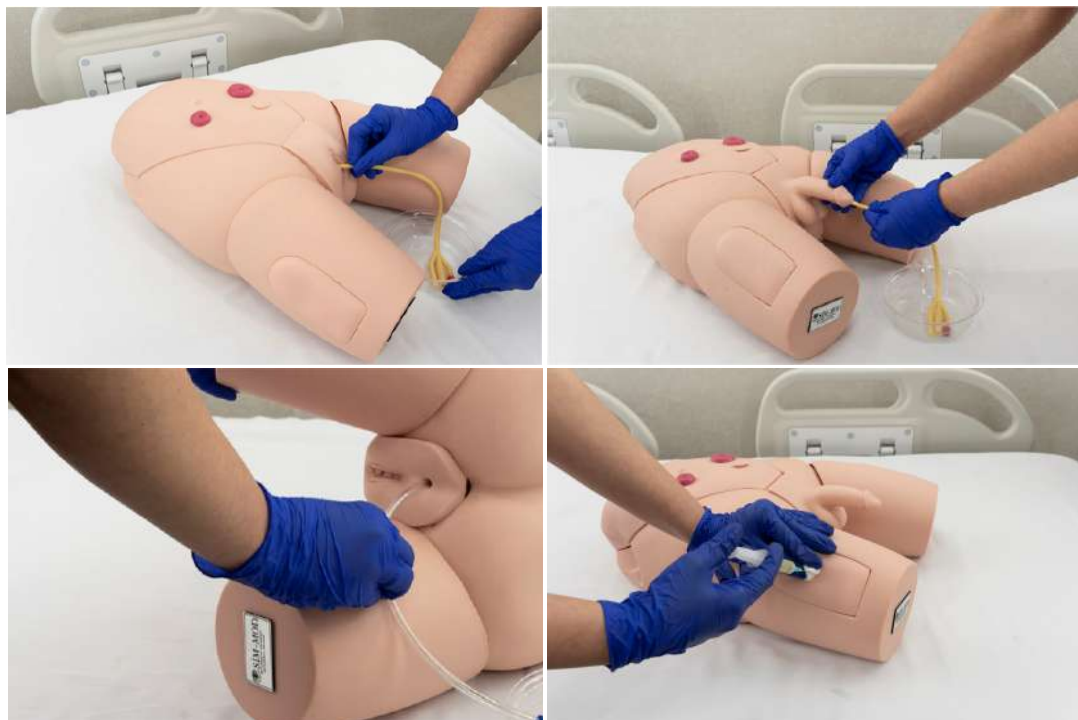
Adult Female/Male Catheterization

- High-quality and durable material
- Adult female/male genital organ structure.
- Realistic appearance
- Catheterization and enema procedures
- Replaceable IM injection pad
- Interchangeable female/male genital module



GENERAL APPLICATIONS

1. The external female genitalia include the mons pubis, labia majora, and urethral meatus.
2. The external male genitalia include the penis, glans penis, scrotum and urethral meatus.
3. When the catheter is advanced, it provides a sensation of resistance similar to that felt in the sphincter muscle in a real human.
4. Bladder irrigation, ostomy care and perineal care procedures can be performed.
5. Urethral catheterization and enema procedures can be performed using fluids.
6. Intramuscular injection procedures can be performed bilaterally in the vastus lateralis muscles, and unilaterally in the dorsogluteal and ventrogluteal muscle regions.
7. Fluid can be used during procedures, and urine flow can be observed when the catheter reaches the bladder.



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NS/97

INTRADERMAL INJECTION TRAINING ARM

The model is to simulate the forearm extending from the wrist to below the elbow. It is developed for intradermal injection training.

KEY FEATURES

- High-quality and durable material
- Realistic skin texture
- Injection sites suitable for multiple use.



GENERAL APPLICATIONS

1. Includes 8 different sites for intradermal injection training.
2. A bleb-shaped redness develops at the site of correct injection. This can be considered a positive skin test result. When the fluid inside the bleb is drained, the bleb disappears.
3. Allergy tests can be applied.



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NS/98B INTRAVENOUS & INTRAMUSCULAR INJECTION TRAINING ARM SIMULATOR



KEY FEATURES

Adult Arm

- High-quality and durable material
- Realistic appearance
- Palpable realistic vascular anatomy
- Replaceable skin, vascular and deltoid muscle pad components (sold separately)



GENERAL APPLICATIONS

1. Blood collection exercises can be performed using simulated blood (IV Puncture: development of venipuncture techniques, Injection: medication administration simulations, Blood Collection: blood drawing using vacuum tubes or standard syringes, Transfusion: fluid transfer applications using blood bags and infusion sets).
2. When the vein is entered with a needle, it simulates real blood flow through the filling speed and color of the simulated blood fluid accumulating in the chamber.
3. IV puncture, injection, transfusion, and blood drawing procedures through the basilic, cephalic, antecubital veins in the forearm, as well as the metacarpal vein on the dorsal surface of the hand.
4. IM injection into the deltoid muscle of the upper arm.



Note: Images used in this catalog are for illustrative purposes only. Models and brands of clothing and accessories may vary.

NS/98C INJECTION TRAINING ARM WITH EIGHT VEINS



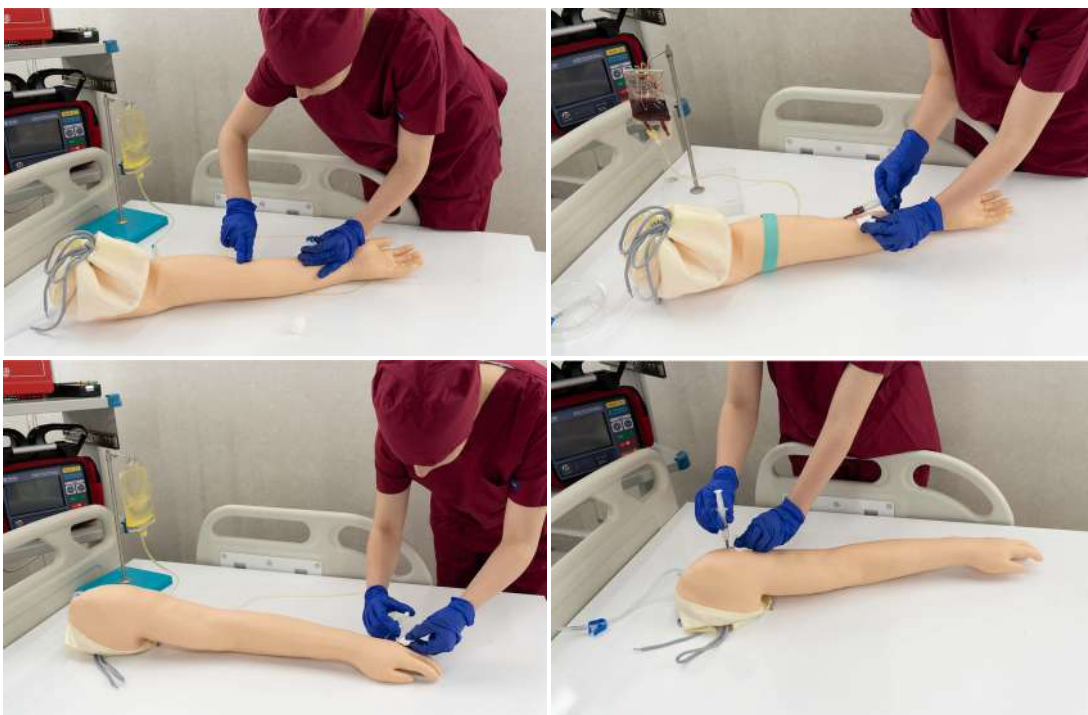
KEY FEATURES

Adult Arm

- High-quality and durable material
- Palpable realistic vascular anatomy
- Replaceable skin and vascular structure (sold separately)

GENERAL APPLICATIONS

1. Blood collection exercises can be performed using simulated blood (IV Puncture: development of venipuncture techniques, Injection: medication administration simulations, Blood Collection: blood drawing using vacuum tubes or standard syringes, Transfusion: fluid transfer applications using blood bags and infusion sets).
2. When the vein is entered with a needle, it simulates real blood flow through the filling speed and color of the simulated blood fluid accumulating in the chamber.
3. IV procedures (injection, infusion, and blood collection transfusion) on various forearm veins, including basilic, cephalic, antecubital, median cubital, ulnar, median antebrachialis, radial, and accessory cephalic veins. Thanks to this extensive vascular network, users can develop the ability to perform interventions on different vascular structures.
4. IM injection into the deltoid muscle of the upper arm.



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NS/109

CHILD IV VE IM INJECTION

TRAINING ARM

The model is developed to teach IV and IM injections in the arm of a child aged 5-8 years. It simulates the right arm and is suitable for using many times.

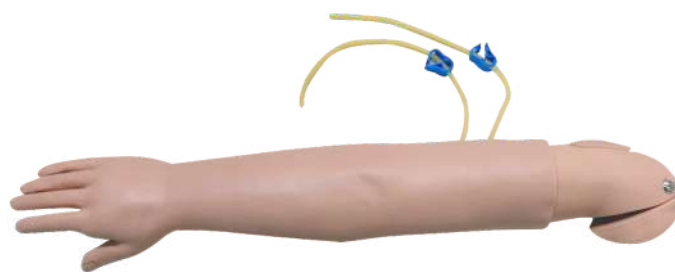
KEY FEATURES

Child Arm

- High-quality and durable material
- Realistic appearance
- Palpable realistic vascular anatomy
- Replaceable skin, veins and deltoid muscle pad components (sold separately)

GENERAL APPLICATIONS

1. Blood collection exercises can be performed using simulated blood (IV Puncture: development of venipuncture techniques, Injection: medication administration simulations, Blood Collection: blood drawing using vacuum tubes or standard syringes, Transfusion: fluid transfer applications using blood bags and infusion sets).
2. When the vein is entered with a needle, it simulates real blood flow through the filling speed and color of the simulated blood fluid accumulating in the chamber.
3. Applicable veins: the basilic, cephalic, and median antebrachial veins located on the forearm surface, and the dorsal vein on the dorsum of the hand.
4. IM injection can be done to the deltoid muscle.



Note: Images used in this catalog are for illustrative purposes only. Models and brands of clothing and accessories may vary.

NS/110A WEARABLE IV INJECTION TRAINING PAD (SET OF 5)

KEY FEATURES

- High-quality and durable material
- Realistic skin texture
- Can be worn on the arm for hands-on training.
- Simulates two different vein structures, Cephalic and Basilic veins.
- A hard plastic layer beneath the veins to prevent accidental injuries during practice



GENERAL APPLICATIONS

1. The simulator has been developed to practice in IV access and intravenous catheter (intracath) placement training.
2. Thanks to its wearable arm design, it enables "simulated patient" scenarios. This feature provides the opportunity to develop technical skills.

Note: Images used in this catalog are for illustrative purposes only. Models and brands of clothing and accessories may vary.

NS/111B ARTERIAL ARM TRAINING SIMULATOR

The model is designed to teach arterial puncture and blood gas analysis procedures on an adult male arm. It simulates the right arm and is suitable for repeated use.

KEY FEATURES

Adult Arm

- High-quality and durable material
- Realistic appearance
- Palpable vascular structure
- Replaceable skin, vascular and deltoid muscle pad structure (sold separately)

GENERAL APPLICATIONS

1. Radial artery structures are palpable on the forearm surface, allowing for puncture procedures.
2. IM injections can be performed into the deltoid muscle.



Note: Images used in this catalog are for illustrative purposes only. Models and brands of clothing and accessories may vary.

NS/114B TRANSPARENT GLUTEAL INTRAMUSCULAR INJECTION SIMULATOR



This simulator has been designed to minimize incorrect practices and enhance anatomical awareness by combining visual transparency and electronic feedback technology for dorsogluteal intramuscular injection training.

KEY FEATURES

Adult Gluteal Model

- Rechargeable
- 4 hours of battery life
- Durable special plastic
- Realistic appearance
- Semi-transparent hip structure
- Palpable injection site
- Battery-powered electronic feedback system



GENERAL APPLICATIONS

1. The transparent area allows external observation of the internal anatomical structures, including muscle tissue, bone structure, and the nervous system in the hip region.
2. The injection site can be realistically palpated (felt), enabling the practice of manual examination and site identification.
3. Provides audible and visual warnings when an incorrect injection site is selected or when the dorsogluteal injection is performed at an incorrect depth (excessively deep).
4. Features a dedicated drainage system that allows simulated medications or fluids injected into the dorsogluteal site to be easily drained from the system.

Note: Images used in this catalog are for illustrative purposes only. Models and brands of clothing and accessories may vary.

NS/114D INTRAMUSCULAR BUTTOCK INJECTION SIMULATOR



KEY FEATURES

Adult Buttock Model

- Clearly marked injection site for accurate placement
- Easily replaceable intramuscular injection and anus pad

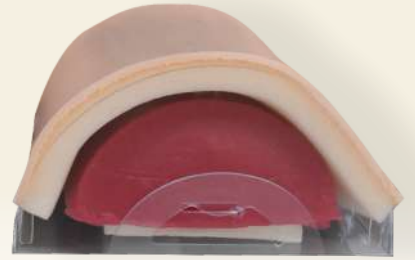


GENERAL APPLICATIONS

1. The injected fluid can be easily drained.
2. Rectal temperature measurement simulation can be performed.

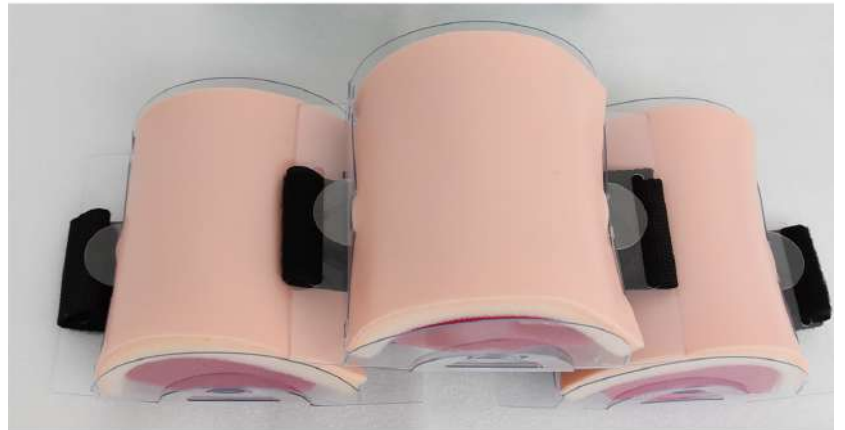
Note: Images used in this catalog are for illustrative purposes only. Models and brands of clothing and accessories may vary.

NS/116A WEARABLE INJECTION TRAINING PAD (SET OF 3)



KEY FEATURES

- High-quality and durable material
- Realistic skin texture
- Can be worn on the arm for hands-on training.
- Designed with three distinct layers: skin, subcutaneous tissue, and muscle structure.



GENERAL APPLICATIONS

1. Practical training for intradermal, subcutaneous and intramuscular injection training.
2. Liquid can be injected into the model, and the injected liquid can be discharged by gently squeezing the pad.

Note: Images used in this catalog are for illustrative purposes only. Models and brands of clothing and accessories may vary.

NS/118 BLOOD PRESSURE MEASUREMENT TRAINING SIMULATOR



KEY FEATURES

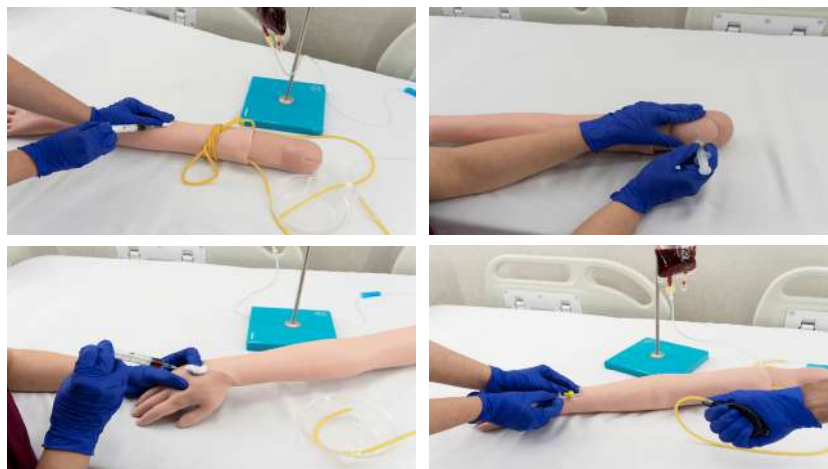
Adult Arm

- Rechargeable
- 8 hours of battery life
- 7" tablet as control panel
- Wireless control
- High-quality and durable material
- Realistic appearance
- Palpable vascular structure
- Replaceable skin, vascular and deltoid muscle pad structure (sold separately)



GENERAL APPLICATIONS

1. Manual non-invasive blood pressure measurement practices can be performed with realistic Korotkoff sounds and stethoscope compatibility.
2. Systolic (SBP) and diastolic (DBP) blood pressure values, as well as heart rate (pulse) parameters, can be adjusted in real time via a tablet.
3. IV puncture, injection, transfusion, and blood collection procedures can be performed on the forearm via the basilic, cephalic, and antecubital veins, as well as the metacarpal veins on the dorsum of the hand.
4. It allows simultaneous practice of both blood pressure measurement and interventional (injection/blood collection) skills on the same arm.
5. Intramuscular (IM) injection into the deltoid muscle of the upper arm.



Note: Images used in this catalog are for illustrative purposes only. Models and brands of clothing and accessories may vary.

NS/133 SUTURE PRACTICE ARM SIMULATOR



KEY FEATURES

Adult Arm

- High-quality and durable material
- Realistic appearance
- Different layers

GENERAL APPLICATIONS

1. Incisions of varying depths and lengths can be created using a scalpel.
2. It allows the application of simple interrupted sutures, continuous sutures, mattress sutures, and subcutaneous (subdermal) suturing techniques.
3. It enables the development of knot-tying (surgical knot) skills.



Note: Images used in this catalog are for illustrative purposes only. Models and brands of clothing and accessories may vary.

NS/134 SUTURE PRACTICE LEG SIMULATOR



KEY FEATURES

Adult Leg

- High-quality and durable material
- Realistic appearance
- Different layers

GENERAL APPLICATIONS

1. Incisions of varying depths and lengths can be created using a scalpel.
2. It allows the application of simple interrupted sutures, continuous sutures, mattress sutures, and subcutaneous (subdermal) suturing techniques.
3. It enables the development of knot-tying (surgical knot) skills.



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NS/135 SUTURE TRAINING SET

The model has been developed for suture practice. Its skin is made of special elastic plastic. Incision and suture tools are provided as a set in its special bag with the suture pad.

KEY FEATURES

Suture Pad

- High-quality and durable material
- Realistic appearance
- Different layers

GENERAL APPLICATIONS

1. There are different layers in the suture pad.
2. There are fixing apparatus at the bottom and it is suitable for desktop use.



Note: Images used in this catalog are for illustrative purposes only. Models and brands of clothing and accessories may vary.

NS/136 SUTURE PAD



KEY FEATURES

Suture Pad

- High-quality and durable material
- Realistic appearance
- Different layers

GENERAL APPLICATIONS

1. Practical training for surgical incisions and suturing techniques.



Note: Images used in this catalog are for illustrative purposes only. Models and brands of clothing and accessories may vary.

ST/72

INFANT CPR AND INTUBATION TRAINING SIMULATOR



KEY FEATURES

9-12 Month-Old Baby

- 4 hours of battery life
- Rechargeable
- Wireless control
- High-quality and durable material
- Realistic appearance.
- 10" tablet provided as control panel
- Articulated joints in the neck, shoulder, hip, and knee for easy mobility
- Anatomical features such as oral cavity, tongue, gums, glottis, epiglottis, trachea, esophagus, right and left lungs, and stomach
- A steel spring system designed to provide realistic chest compression during CPR while preventing collapse during application



GENERAL APPLICATIONS

1. The model is made from an elastic material, allowing all joints and the head to be fully movable.
2. Scenarios for pre-hospital emergency patient evaluation can be simulated.
3. For airway management, the manikin features an oral cavity, tongue, gums, glottis, trachea, esophagus, and right/left lung structures.
4. Endotracheal intubation can be performed, with the vocal cords clearly visible when using a laryngoscope.
5. The system features a realistic patient condition simulation capable of providing adjustable central and peripheral cyanosis simulation and dynamically changing the level of cyanosis according to the success of the CPR performed. (In successful CPR applications, the cyanosis level gradually decreases and returns to normal skin color, whereas in unsuccessful applications, the cyanosis level increases.)
6. CPR applications support both single and double rescuer options, along with free training modes. Real-time CPR data is displayed graphically.
7. During artificial respiration, the control panel shows insufficient, sufficient, or excessive applications, and whether air reaches the stomach. Correct and incorrect applications are tracked on the screen.
8. The manikin features an automatic spontaneous breathing with adjustable speed via the tablet.
9. Pulse feature with automatic operation capability and adjustable pulse rate.
10. When performing cardiac massage, the control panel tracks the correct hand position and displays feedback on insufficient, sufficient, or excessive force. Correct and incorrect applications are also logged.
11. All applications can be reported through the results section on the tablet.
12. The manikin is suitable for field training and is rechargeable.



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ST/72S

INFANT CPR AND INTUBATION TRAINING MANIKIN



KEY FEATURES

9-12 month-Old Baby

- High-quality and durable material
- Realistic appearance.
- Articulated joints in the neck, shoulder, hip, and knee for easy mobility
- Anatomical features such as oral cavity, tongue, gums, glottis, epiglottis, trachea, esophagus, right and left lungs, and stomach
- A steel spring system designed to provide realistic chest compression during CPR while preventing collapse during application



GENERAL APPLICATIONS

1. The model is made from an elastic material, allowing all joints and the head to be fully movable.
2. For airway management, the manikin features an oral cavity, tongue, gums, glottis, trachea, esophagus, and right/left lung structures.
3. Endotracheal intubation can be performed, with the vocal cords clearly visible when using a laryngoscope.
4. Bilateral and unilateral chest rise can be observed.
5. Cannula position can be verified by observing airflow during inhalation. If mistakenly inserted into the esophagus, air delivery will cause gastric inflation.



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ST/149 INFANT ADVANCED LIFE SUPPORT SIMULATOR



KEY FEATURES

9-12 Month-Old Infant

- 6 hours of battery life
- Rechargeable
- Wireless control
- 10" tablet provided as control panel
- High-quality and durable material
- Realistic appearance
- Elastic head and joint design for enhanced flexibility
- Anatomical features such as oral cavity, tongue, gums, glottis, epiglottis, trachea, esophagus, lung and stomach
- A steel spring system designed to provide realistic chest compression during CPR while preventing collapse during application



Note: Images used in this catalog are for illustrative purposes only. Models and brands of clothing and accessories may vary.

GENERAL APPLICATIONS

1. Oral and nasal endotracheal intubation. When viewed with a laryngoscope, the vocal cords are clearly visible.
2. Mouth-to-mouth, mouth-to-nose, or balloon-valve-mask ventilation can be performed. Realistic chest elevation can be observed.
3. Monitoring CPR practices and the proper execution of airway opening procedures through the control panel enabling effective tracking of training progress.
4. Features a control panel capable of analyzing insufficient, sufficient, and excessive ventilation during artificial respiration applications, detecting air directed into the stomach, and monitoring correct/incorrect procedures via the tablet.
5. Features a control panel that monitors correct hand positioning during chest compressions, provides feedback for insufficient, sufficient, and excessive force applications, and records correct/incorrect procedures.
6. Features a system that allows pulse and heart rate settings to be adjusted via the control panel, supports 43 different ECG rhythms, and provides real-time monitoring through four ECG probes.
7. Real defibrillation, cardioversion and AED applications can be safely performed on the model using an actual defibrillator, AED, and bedside monitor. The model is equipped with secure defibrillation (shock) points, ensuring the safety of the procedures.
8. Generate a comprehensive report providing detailed feedback on CPR and intubation practices.
9. A virtual bedside monitor kit with the following features is provided along with the simulator:
 - The virtual bedside monitor kit can be used with all devices with HDMI connector (TV, projection, monitor, etc.).
 - All commands of the virtual bedside monitor kit are controlled wirelessly via tablet.
 - Virtual bedside monitor shows ECG, SpO2, AwRR, etCO2, Temp., NIBP, Glucose, CVP values. These values can be adjusted on the tablet.
 - Virtual bedside monitor kit provides heartbeat sounds synchronized with ECG.
 - Alarms are available. Alarm intervals can be adjusted.
 - The virtual bedside monitor has 43 different ECG rhythms. The heart rate of these rhythms can be adjusted

ST/151 & ST/151+ PEDIATRIC ADVANCED LIFE SUPPORT SIMULATOR



KEY FEATURES

5-Year-Old Child

- 6 hours of battery life
- Rechargeable
- Wireless control
- 7" or 10" tablet provided as control panel
- Articulated joints in the neck, shoulder, hip, and knee for easy mobility
- Anatomical features such as oral cavity, tongue, teeth, glottis, epiglottis, trachea, esophagus, right and left lungs, and stomach
- A steel spring system designed to provide realistic chest compression during CPR while preventing collapse during application



GENERAL APPLICATIONS

1. The simulator can be voice-activated through the control panel for realistic anamnesis practice.
2. Bilateral IV puncture, injection, transfusion, and blood drawing procedures through the basilic and cephalic veins in the anterior forearm and the dorsal surface of the hand.
3. Bilateral IM injection into the deltoid muscle of the upper arm.
4. Intraosseous infusion (IO) procedure on the left leg.

AIRWAY MANAGEMENT

1. Oral and nasal endotracheal intubation can be performed.
2. LMA, LTA, and Combitube applications can be simulated.
3. During endotracheal intubation, the control panel monitors the correct placement of the endotracheal tube within the trachea while detecting accidental insertion into the right bronchus or esophagus.*



* This feature is available exclusively for the ST-151+ model.

Note: Images used in this catalog are for illustrative purposes only. Models and brands of clothing and accessories may vary.

MODEL	ST/151	ST/151+
RECHARGEABLE	✓	✓
WIRELESS CONTROL	7"TABLET	10"TABLET
CPR	✓	✓ INSTANT FEEDBACK
ANAMNESIS SIMULATION	✓	✓
ECG & DEFIBRILLATION	✓	✓
PULSE SYNCHRONIZED WITH ECG	RIGHT FEMORAL	RIGHT FEMORAL & CAROTID
INTUBATION	✓	✓ ELECTRONIC DETECTION OF TUBE POSITION
IV- IM INTERVENTION ON BOTH ARMS	✓	✓
IO INTERVENTION ON THE LEFT LEG	✓	✓
FEEDBACK REPORTS FOR CPR AND INTUBATION PRACTICES		✓
HDMI KIT		✓

CPR AND CARDIOPULMONARY PRACTICES

1. The femoral pulse is synchronized with the selected ECG rhythm.
2. The carotid pulse is synchronized with the selected ECG rhythm.*
3. Mouth-to-mouth, mouth-to-nose, or balloon-valve-mask ventilation can be performed. Realistic chest elevation can be observed.
4. Realistic bilateral and unilateral chest rise can be observed.
5. It provides a system feature that enables monitoring of CPR applications and intubation procedures via the control panel, supports tracking of correct practices, and allows effective management of the training process.*
6. Features a control panel capable of analyzing insufficient, sufficient, and excessive ventilation during artificial respiration applications, detecting air directed into the stomach, and monitoring correct/incorrect procedures via the tablet.*
7. Features a control panel that monitors correct hand positioning during chest compressions, provides feedback for insufficient, sufficient, and excessive force applications, and records correct/incorrect procedures.*
8. Generate a comprehensive report providing detailed feedback on CPR and intubation practices.*
9. Forty-three distinct ECG rhythms, each with adjustable heart rates controlled through the control panel, can be displayed utilizing four ECG leads.
10. Non-invasive blood pressure (BP) measurement: the systolic (SBP) and diastolic (DBP) blood pressure values can be adjusted through the control panel. The Korotkoff sounds heard during measurement are synchronized with the selected ECG rhythm rate.
11. Real defibrillation, cardioversion, and AED applications can be safely performed on the model using an actual defibrillator, AED, and bedside monitor. The model is equipped with secure defibrillation (shock) points, ensuring the safety of the procedures.
12. A virtual bedside monitor kit with the following features is provided along with the simulator:*
 - The virtual bedside monitor kit can be used with all devices with HDMI connector (TV, projection, monitor, etc.).
 - All commands of the virtual bedside monitor kit are controlled wirelessly via tablet.
 - Virtual bedside monitor shows ECG, SpO2, AwRR, etCO2, Temp., NIBP, Glucose, CVP values. These values can be adjusted on the tablet.
 - Virtual bedside monitor kit provides heartbeat sounds synchronized with ECG.
 - Alarms are available. Alarm intervals can be adjusted.
 - The virtual bedside monitor has 43 different ECG rhythms. The heart rate of these rhythms can be adjusted.

* This feature is available exclusively for the ST-151+ model.

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ST/152

TRACHEAL INTUBATION SIMULATOR

KEY FEATURES

Adult Head-Neck-Chest

- High-quality and durable material
- Realistic appearance
- Head and jaw movements
- Oral cavity, tongue, teeth, glottis, epiglottis, trachea, and esophagus
- Lungs and stomach that can expand when air is delivered



GENERAL APPLICATIONS

1. The system features a multi-application training capability supporting oral and nasal endotracheal intubation, sputum aspiration, nasogastric/orogastric (NG/OG) feeding, and oxygen inhalation training.
2. Artificial respiration can be performed through mouth-to-mouth, mouth-to-nose, or bag-valve-mask ventilation.
3. An audible warning is triggered when excessive pressure is applied on the tooth.
4. Cannula position can be determined by inhalation. In cases of inadvertent esophageal insertion, air delivery can result in gastric inflation, prompting activation of the gastric alarm.
5. Edema (laryngospasm) induced by external intervention can be simulated.
6. The sellick maneuver, which involves applying cricoid pressure, can be used to obtain a clearer view of the vocal cords.



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ST/154 ADULT CRICOTHYROTOMY SIMULATOR



KEY FEATURES

Adult Neck

- High-quality and durable material
- Realistic appearance
- Tracheal cartilage and neck skin that can be easily replaced with provided spares

GENERAL APPLICATIONS

1. It enables the simulation of cricothyroid puncture, cricothyrotomy, and percutaneous tracheostomy procedures for training purposes.
2. It allows the application of different neck incision techniques, including longitudinal, transverse, diagonal, U-shaped, and inverted U-shaped.
3. It enables realistic simulation of the pressure sensation occurring during the procedure by inflating the trachea with a pump system.



Note: Images used in this catalog are for illustrative purposes only. Models and brands of clothing and accessories may vary.

ST/155

PEDIATRIC INTRAOSSEOUS INTERVENTION SIMULATOR

KEY FEATURES

Pediatric Left Lower Leg

- High-quality and durable material
- Realistic appearance and anatomical structure
- A tibia bone structure that can be easily punctured
- Easy positioning of the model with its mounted base
- Replaceable tibia bone module and leg skin with provided spares



GENERAL APPLICATIONS

1. It allows the bone modules to be filled with simulated blood prior to intraosseous application.
2. Bone marrow aspiration (intraosseous) can be performed.
3. During the procedure, it enables realistic observation of the loss of resistance sensation, entry resistance, and fluid flow, simulating the feel experienced in a real patient.

Note: Images used in this catalog are for illustrative purposes only. Models and brands of clothing and accessories may vary.



ST/156+ PNEUMOTHORAX SIMULATOR

KEY FEATURES

Adult Upper Torso

- Rechargeable
- 8 hours of battery life
- High-quality and durable material
- Realistic appearance
- Anatomical features such as clavicle, costae, and sternum
- An internal compressor that operates to fill the pleural cavity with air, along with an illuminated notification system indicating that the air has reached a sufficient level.

GENERAL APPLICATIONS

1. Chest puncture can be conducted at either the second intercostal space along the midclavicular line or the fifth intercostal space along the mid-axillary line.
2. The automated air-inflation system facilitates the execution of pneumothorax procedures.



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ST/157+ ADVANCED LIFE SUPPORT SIMULATOR



KEY FEATURES

Full-body Adult

- 6 hours of battery life
- Rechargeable
- Wireless control
- 10" tablet provided as control panel
- Virtual patient monitor kit
- High-quality and durable material
- Realistic appearance
- Prominent anatomical features, including nipples, xiphoid process, overall chest and rib
- Articulated joints in the head, neck, waist, arms, and legs enabling easy mobility
- Anatomical features such as oral cavity, tongue, teeth, glottis, epiglottis, trachea, esophagus, right and left lungs, and stomach
- A steel spring system designed to provide realistic chest compression during CPR while preventing collapse during application

GENERAL APPLICATIONS

1. Pupil diameter can be adjusted via the control panel for normal, mydriasis and miosis conditions.
2. The simulator can be voice-activated through the control panel using pre-recorded sound clips of crying, screaming, moaning, vomiting, coughing and normal breathing for a realistic patient anamnesis practice.
3. Bilateral IV puncture, injection, transfusion and blood drawing procedures through the basilic and cephalic veins in the anterior forearm, as well as the dorsal surface of the hand.
4. Bilateral IM injections into the deltoid muscles and the vastus lateralis muscles in the thigh region.
5. Unilateral IM hip injection in the ventrogluteal and dorsogluteal areas.
6. Intraosseous infusion (IO) procedure on the left leg.
7. Female/Male urethral catheterization and bladder irrigation realistic sensation of sphincter resistance during the procedure.
8. Ostomy (colostomy and ileostomy) care can be performed.
9. Enema procedure with liquid solution injection can be performed.



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AIRWAY MANAGEMENT

1. Oral and nasal endotracheal intubation can be performed.
2. LMA, LTA and Combitube applications can be performed.
3. The airway opening procedure with proper head-neck alignment is supported by real-time instructions delivered through the control panel.
4. When artificial respiration is conducted without proper head-neck positioning, it may result in the insufflation of the stomach, which can be detected and monitored via the control panel.
5. During endotracheal intubation, excessive pressure exerted on the teeth due to inadvertent insertion of the endotracheal tube into the trachea, right bronchus or esophagus can be monitored through the control panel.



CPR AND CARDIOLOGY PRACTICES

1. Unilateral brachial and radial pulses, as well as bilateral carotid and femoral pulses, can be synchronized with the selected ECG rhythm.
2. This simulator allows for auscultation of bowel, heart and lung sounds.
3. Artificial respiration can be performed through mouth-to-mouth, mouth-to-nose or bag-valve-mask ventilation. The control panel facilitates the real-time monitoring of the volumetric ratio of air delivered during this practice. Realistic chest rise can be observed.
4. The simulator features a built-in compressor that enables self-automatic respiration and the respiratory rate per minute can be adjusted using the control panel.
5. The system is capable of generating realistic bilateral or unilateral chest rise following the intubation procedure.
6. Monitoring CPR practices with time recording through the control panel
7. 43 distinct ECG rhythms, each with adjustable heart rates controlled through the control panel, can be displayed utilizing four ECG leads.
8. Real defibrillation, cardioversion, pacing and AED applications can be safely performed on the model using an actual defibrillator, AED and bedside monitor. The model is equipped with secure defibrillation (shock) points, ensuring the safety of the procedures.
9. Non-invasive blood pressure (BP) measurement: the systolic (SBP) and diastolic (DBP) blood pressure values can be adjusted through the control panel. The Korotkoff sounds heard during measurement are synchronized with the selected ECG rhythm rate.
10. A virtual bedside monitor kit with the following features is provided along with the simulator:
 - The virtual bedside monitor kit can be used with all devices with HDMI connector (TV, projection, monitor, etc.).
 - All commands of the virtual bedside monitor kit are controlled wirelessly via tablet.
 - Virtual bedside monitor shows ECG, SpO2, AwRR, etCO2, Temp., NIBP, Glucose, CVP values. These values can be adjusted on the tablet.
 - Virtual bedside monitor kit provides heartbeat sounds synchronized with ECG.
 - Alarms are available. Alarm intervals can be adjusted.
 - The virtual bedside monitor has 43 different ECG rhythms. The heart rate of these rhythms can be adjusted.

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ST/158 ADULT INTRAOSSEOUS INTERVENTION SIMULATOR



KEY FEATURES

Adult Left Lower Leg

- High-quality and durable material
- Realistic appearance and anatomical structure
- A tibia bone structure that can be easily punctured
- Easy positioning of the model due to its mounted base
- Replaceable tibia bone module and leg skin with provided spares

GENERAL APPLICATIONS

1. It allows the bone modules to be filled with simulated blood prior to intraosseous application.
2. Bone marrow aspiration (intraosseous) can be performed.
3. During the procedure, it enables realistic observation of the loss of resistance sensation, entry resistance, and fluid flow, simulating the feel experienced in a real patient.



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ST/159 AUTOMATED EXTERNAL DEFIBRILLATOR

KEY FEATURES

- Rechargeable
- 8 hours of battery life
- Residue-free adhesive pad set for adults, children, and infants



GENERAL APPLICATIONS

1. Voice-guided instructions are provided for operating the AED in multiple languages, including Turkish and English.
2. The electrode pad positions are verified, and the procedure can proceed if they are correctly positioned.
3. Audio guidance for CPR and AED steps during scenarios.
4. Simulated shocks can be applied in scenarios where defibrillation is required.
5. Guiding users with the correct compression rate during CPR using a metronome sound.
6. Remote control of the device through a controller.

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ST/160 DEFIBRILLATOR AND PACEMAKER SIMULATOR



KEY FEATURES

- 6 hours of battery life
- Rechargeable
- 10" tablet provided as control panel
- Wireless control
- The simulator can be used for training purposes on both live individuals and training manikins.



GENERAL APPLICATIONS

1. The system supports 43 different ECG rhythms with heart rates adjustable via the control panel; these rhythms can be displayed on a simulated defibrillator.
2. The device does not deliver real shocks; shock applications are for simulation purposes and can be performed safely on a human or a manikin without posing any risk.
3. Comprehensive reporting of rhythm changes and given shocks with the date and time records.
4. The simulator includes an AED (Automated External Defibrillator) training mode.
5. Cardioversion application can be simulated with the simulator.
6. ECG probes are provided with the simulator, and these probes can be used on the manikin or a real person to enhance realism in training scenarios.

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ST/163

VIRTUAL PATIENT MONITOR HDMI KIT

The virtual patient head monitor kit is designed for educational purposes, offering versatile compatibility with monitors, TVs, projectors, and other HDMI-enabled devices.

KEY FEATURES

- The virtual patient monitor kit comes with a tablet.
- The tablet enables the adjustment of all physical parameter values.
- The virtual patient monitor displays ECG, SpO₂, awRR, etCO₂, NIBP, body temperature, and blood glucose parameters in real time.
- The pulse sound corresponding to the ECG rhythm displayed on the screen can be heard, and the pulse sound rate dynamically changes depending on the rhythm rate.
- It has an alarm function similar to real patient monitors and provides warnings when measured values fall outside the normal range; alarm thresholds can be adjusted.



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ST/165

TRAUMA ACCESSORIES

KEY FEATURES

- High-quality and durable material
- Realistic appearance
- Emergency response training in burn cases
- Emergency response training for hemorrhage cases
- Comprehensive training in wound care, including irrigation, disinfection, suturing, and proper bandaging techniques
- The kit includes a range of makeup moulage materials that can simulate various injury scenarios on both live individuals and manikins.

WEARABLE TRAUMA MODULES

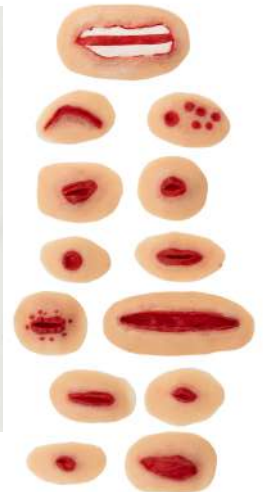
1. Burns on the facial region
2. 3. degree burn on the back
3. 2. - 3. degree burns on the chest
4. 2. - 3. degree burns on the forearm
5. Injury on the forehead
6. Jaw injury
7. Open clavicle fracture and chest crush
8. Abdominal injury, intestinal protrusion
9. Open fracture of the humerus in the upper arm
10. Gunshot wound in the palm
11. Open fracture of the femur
12. Fragmentation and open amputation in the thigh region
13. Open fracture of the tibia

MAKEUP MULAGE SET (11 Pieces)

1. Accident simulation wax
2. Wound modeling paste
3. Artificial blood coagulant
4. Artificial blood powder
5. Paint in three different colors: brown, yellow, and red
6. Plexiglass for simulating glass fractures
7. Flaster
8. Cream
9. Tongue depressor (abeslang)
10. Spray can
11. Makeup cleaning cloth

ADHESIVE WOUND PRACTICE MODULE

The set includes adhesive wound practice modules suitable for application on various regions of the body on manikins or live individuals.



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ST/168+

AUSCULTATION TRAINING SIMULATOR

KEY FEATURES

- Rechargeable
- Wireless control
- Supplied with a 10-inch tablet control panel
- Can be used with a real stethoscope
- Anatomically correct male torso with palpable clavicles, ribs, and sternum
- Realistic skin texture with a prominent rib cage
- Speaker for external audio playback (sold separately)
- Integrated lighting system highlighting auscultation points



GENERAL APPLICATIONS

1. It enables training in auscultation and palpation techniques of the heart, lungs, and intestines on a realistic anatomical structure.
2. It enables the development of skills related to correct stethoscope placement and accurate localization of sounds.
3. Recognition and comparison of a wide variety of sounds, including:
 - 52 heart sounds
 - 31 lung sounds
 - 9 bowel sounds



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ST/171

BLEEDING CONTROL TRAINING LEG MODEL



The model is designed to represent the leg of an adult male with a lower-limb amputation at the knee level.

KEY FEATURES

Adult Amputated Leg

- High-quality and durable material
- Realistic appearance and anatomical structure
- Tourniquet application training capability



GENERAL APPLICATIONS

1. Tourniquet application can be performed on the extremity.
2. Wound packing can be performed on the wounds.
3. Each wound bleeds independently.
4. The deep laceration or stab wound is 5 cm in depth.
5. Provides the instructor with controlled bleeding simulation capabilities through a manual blood pump system that allows each wound to bleed independently and simulates venous or pulsatile arterial bleeding.
6. The simulator features an amputation site and arterial bleeding simulation.
7. Electronically controlled bleeding system capable of providing realistic pressure and blood flow simulation.
8. Bleeding can be automatically or manually controlled through the system when a tourniquet is applied, enabling realistic tourniquet-effect simulation.
9. Bleeding can resume when the tourniquet is released, allowing realistic training scenarios.



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ST/172

BLEEDING CONTROL TRAINING ARM MODEL



KEY FEATURES

Adult Left Arm

- High-quality and durable material
- Realistic appearance and anatomical structure
- Tourniquet application training capability



GENERAL APPLICATIONS

1. Suitable for wound packing training using gauze dressings.
2. Simulates a shrapnel wound or a large-caliber gunshot wound.
3. Constructed with a silicone outer surface and a rigid internal plastic framework.
4. Features a small wound for tourniquet application training and a large wound for wound packing training.
5. Provides realistic tactile feedback during wound packing with gauze.
6. Electronically controlled bleeding system capable of providing realistic pressure and blood flow simulation.
7. Bleeding can be automatically or manually controlled through the system when a tourniquet is applied, enabling realistic tourniquet-effect simulation.
8. Bleeding can resume when the tourniquet is released, allowing realistic training scenarios.



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