SIMMOD®
SIMULATION MODELS

Enhancing Skills, Saving Lives: Simulation for Healthcare

2024 Catalog

Dear Valued Customer,

At **SIM-MOD**,
We embark on a journey deeply committed to the art of designing, developing, and manufacturing medical training tools, simulators, and anatomical models. With a legacy spanning over a century, our company's roots run deep, enriched by decades of expertise in molding, crafting, modeling, and production. From our modest origins as a family-run business, we have grown to become a respected international company at the forefront of healthcare innovation.

We are dedicated to shaping the future of medical training. Our state-of-the-art technology, which carries the prestigious brand **"SIM-MOD"**, redefines simulation-based education. Leveraging cutting-edge engineering and design, we have developed a range of highly sophisticated training models. These models vividly replicate real-world scenarios, offering immersive experiences that enhance surgical skills, elevate patient care, and refine emergency response abilities.

Our extensive collection of human anatomy models is meticulously hand-crafted and painted by anatomy artists to capture scientific details. Offering an exceptionally precise representation of human anatomy, our models empower both students and professionals to explore the intricate complexities of the human body with confidence.

Our commitment to quality, innovation, and client satisfaction at **SIM-MOD** motivates us to consistently go above and beyond expectations. We focus on delivering exceptional value, affordability, and easy accessibility to our customers. We seamlessly integrate the latest advancements in technology, education, and medical research into our products. We provide adaptable solutions that address particular needs by collaborating with medical specialists, educators, and experts. Our enthusiasm is driven by the remarkable contributions that our models bring to enhancing patient outcomes, advancing medical education, and cultivating the next generation of healthcare professionals.

Today, we are delighted to introduce our latest catalog, featuring **SIM-MOD** medical training simulators. Explore a selection of our diverse model range. For a complete experience, we invite you to visit our website, where an extensive array of innovative healthcare training solutions awaits, meticulously designed to cater to your distinct needs.

Sincere regards,

Adnan Kehlikoğlu

CEO, SIM-MOD

SIM-MOD

1. **Customization:** Unique features and adaptations based on your needs, ensuring a truly personalized and effective learning experience
2. **Quality Assurance:** Rigorous quality control measures adhering to industry standards and certifications (ISO 9001: 2015)
3. **Realism and Detail:** Meticulous attention to detail, anatomical accuracy, and advanced materials, offering an immersive and lifelike training experience
4. **Collabration and Expertise:** Work closely with medical professionals, educators, and experts to incorporate real-world insights
5. **Customer Support:** Exceptional customer support with training resources, instructional materials, and prompt assistance
6. **Research and Development:** Ongoing research and development to access the latest advancements in medical simulation models
7. **Durability and Longevity:** High-quality materials that are built to withstand frequent use in educational settings, providing reliable and long-lasting tools
8. **Versatility and Range:** A diverse selection covering various anatomical systems and medical procedures, catering to a wide range of medical disciplines and specialties
9. **Global Recognition:** A trusted choice for educational institutions and government organizations
10. **Continuous Improvement:** Continuous improvement utilizing valuable feedback from customers and the medical community to enhance existing models and develop new ones

SIM MOD®
SIMULATION MODELS

Emergency & Advanced Life Support Training

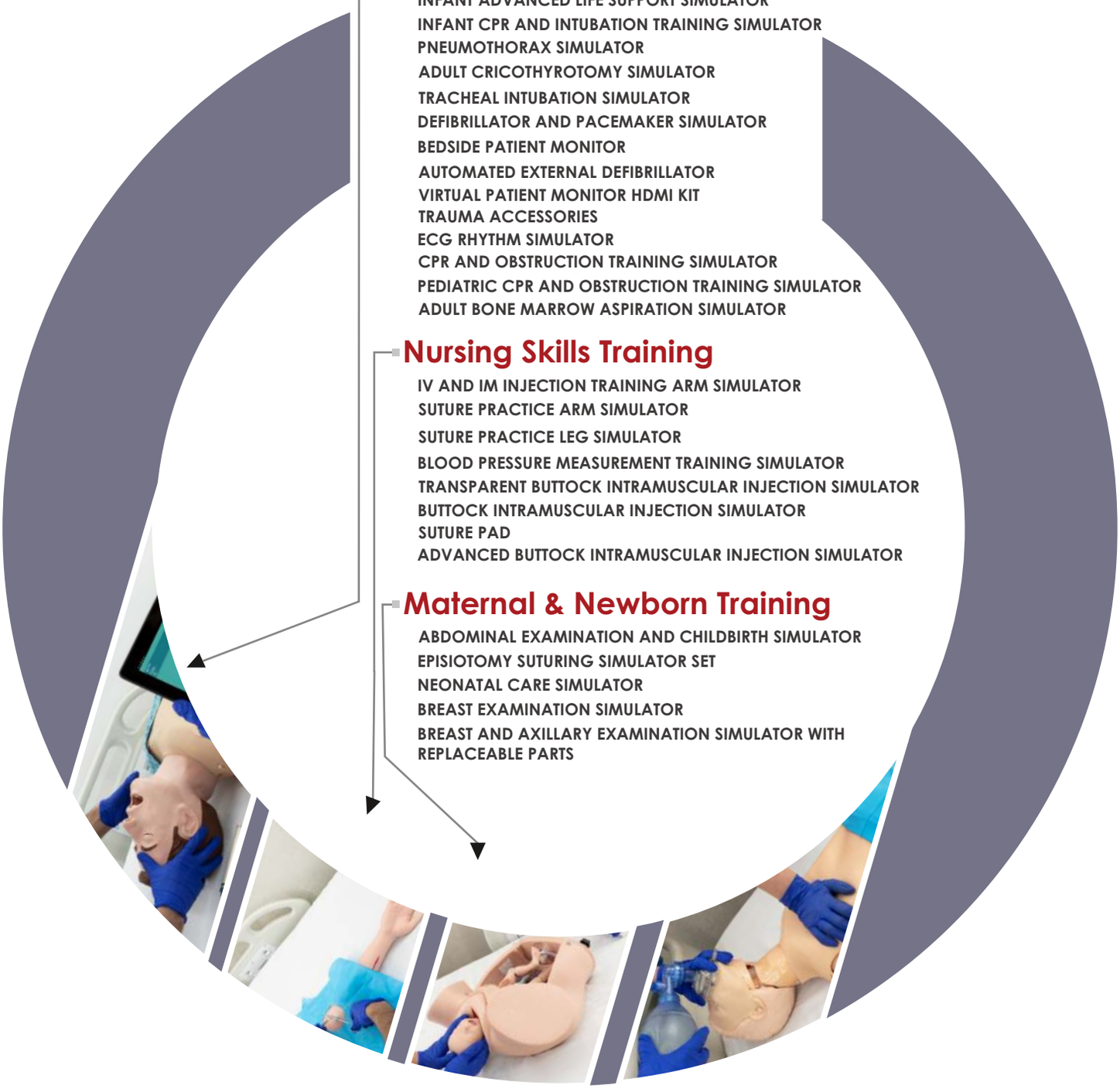
ADVANCED LIFE SUPPORT SIMULATOR
ADVANCED LIFE SUPPORT SIMULATOR
PEDIATRIC ADVANCED LIFE SUPPORT SIMULATOR
PEDIATRIC CPR TRAINING SIMULATOR
INFANT ADVANCED LIFE SUPPORT SIMULATOR
INFANT CPR AND INTUBATION TRAINING SIMULATOR
PNEUMOTHORAX SIMULATOR
ADULT CRICOTHYROTOMY SIMULATOR
TRACHEAL INTUBATION SIMULATOR
DEFIBRILLATOR AND PACEMAKER SIMULATOR
BEDSIDE PATIENT MONITOR
AUTOMATED EXTERNAL DEFIBRILLATOR
VIRTUAL PATIENT MONITOR HDMI KIT
TRAUMA ACCESSORIES
ECG RHYTHM SIMULATOR
CPR AND OBSTRUCTION TRAINING SIMULATOR
PEDIATRIC CPR AND OBSTRUCTION TRAINING SIMULATOR
ADULT BONE MARROW ASPIRATION SIMULATOR

Nursing Skills Training

IV AND IM INJECTION TRAINING ARM SIMULATOR
SUTURE PRACTICE ARM SIMULATOR
SUTURE PRACTICE LEG SIMULATOR
BLOOD PRESSURE MEASUREMENT TRAINING SIMULATOR
TRANSPARENT BUTTOCK INTRAMUSCULAR INJECTION SIMULATOR
BUTTOCK INTRAMUSCULAR INJECTION SIMULATOR
SUTURE PAD
ADVANCED BUTTOCK INTRAMUSCULAR INJECTION SIMULATOR

Maternal & Newborn Training

ABDOMINAL EXAMINATION AND CHILDBIRTH SIMULATOR
EPISIOTOMY SUTURING SIMULATOR SET
NEONATAL CARE SIMULATOR
BREAST EXAMINATION SIMULATOR
BREAST AND AXILLARY EXAMINATION SIMULATOR WITH REPLACEABLE PARTS



Check all products:
www.sim-mod.com

TABLE OF CONTENTS

MODEL ST/SIMKEYS - ADVANCED LIFE SUPPORT SIMULATOR

SPECIFICATIONS

Dimensions	173 x 51 x 22 cm 68 x 20 x 8.6 inches
Weight	26 kg / 57.6 lbs

KEY FEATURES

Full-body Adult

- 6 hours of battery life
- Rechargeable
- Wireless control
- 55" patient monitor
- 10" tablet provided as control panel
- High-quality and durable material
- Realistic appearance
- Light-sensitive pupils
- Prominent anatomical features, including nipples, xiphoid process, overall chest, and rib
- Anatomical features such as oral cavity, tongue, teeth, glottis, epiglottis, trachea, esophagus, right and left lungs, and stomach
- Articulated joints in the head, neck, waist, arms, and legs enabling easy mobility
- One-way valve system that ensures the air given 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 diameter can be adjusted using the control panel.
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, and the dorsal surface of the hand.
4. Bilateral IM injections into the deltoid muscles and the vastus lateralis muscles in the thigh region.
5. IM hip injection in the ventrogluteal and dorsogluteal areas.
6. Intraosseous infusion (IO) procedure on the left leg. The realistic bone structure provides a sensation of dropping into the cavity when penetrating the bone.
7. Realistic sensation of sphincter resistance during male and female urethral catheterization and bladder irrigation.
8. Ostomy (colostomy and ileostomy) care.
9. Enema procedure with liquid solution injection.
10. Pneumothorax procedure.
11. Installation can be done together with an audio and video recording system upon request.

MODEL ST/SIMKEYS - ADVANCED LIFE SUPPORT SIMULATOR

AIRWAY MANAGEMENT

1. Oral and nasal endotracheal intubation.
2. LMA, LTA and Combitube applications.
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.
6. After the intubation procedure, the placement and positioning of the endotracheal tube can be evaluated via auscultation using a stethoscope.

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 and adjusted in amplitude.
2. Artificial respiration can be performed through mouth-to-mouth, mouth-to-nose, or bag-valve-mask ventilation with a realistic chest rise. The control panel facilitates the real-time monitoring of the volumetric ratio of air delivered during this practice.
3. The simulator features a built-in compressor that enables self-automatic respiration, and the respiratory rate can be adjusted using the control panel.
4. Realistic bilateral and unilateral chest rise.
5. Monitoring of CPR practices with time recording through the control panel.
6. Forty-three distinct ECG rhythms, each with adjustable heart rates controlled through the control panel, can be displayed utilizing four ECG leads.
7. 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.
8. 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.
9. A 55" virtual patient monitor is provided for use in laboratory settings, offering clear displays of ECG, SpO2, AWRR, EtCO2, Temp., and NIBP values. These parameters can be easily adjusted via the control panel.

MODEL ST/SIMKEYS - ADVANCED LIFE SUPPORT SIMULATOR

OTHER APPLICATIONS

1. The control panel offers the feature of generating an unlimited number of scenarios instantly and in advance, providing you with the flexibility to customize your simulation experience.
2. The pneumothorax procedure can be performed by inserting a needle through the intercostal space. The control panel provides information about the procedure, and the release of air can be observed at the site of intervention.
3. When a needle cricothyrotomy procedure is performed, the control panel provides information about the ongoing procedure.
4. The simulator features cyanosis on the lips and nails. The formation of cyanosis can be adjusted by the user and the color intensity can be modified through interventions on the simulator.
5. When an IV injection is given on the arm using a syringe, the system detects the medication, and the information about the medication can be obtained through the control panel.
6. Lung, heart, and bowel sounds can be listened to through the simulator.

MODEL ST/157+ - ADVANCED LIFE SUPPORT SIMULATOR

SPECIFICATIONS

Dimensions	173 x 51 x 22 cm 68 x 20 x 8.6 inches
Weight	26 kg / 57.6 lbs

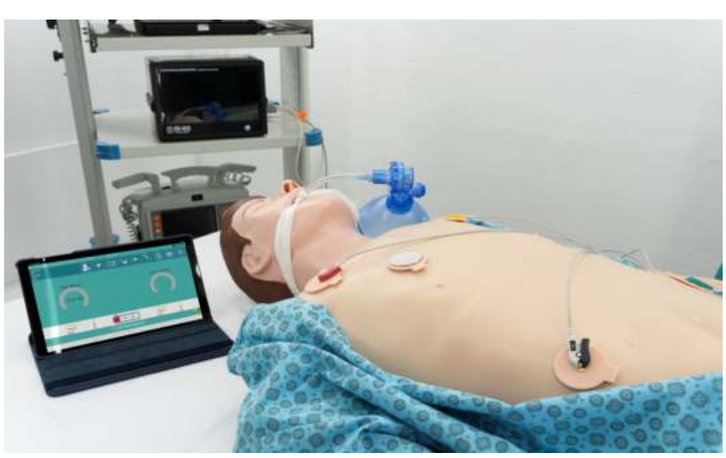
GENERAL APPLICATIONS

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. IM hip injection in the ventrogluteal and dorsogluteal areas.
6. Intraosseous infusion (IO) procedure on the left leg.
7. Realistic sensation of sphincter resistance during male and female urethral catheterization and bladder irrigation.
8. Ostomy (colostomy and ileostomy) care.
9. Enema procedure with liquid solution injection.

KEY FEATURES

Full-body Adult

- 6 hours of battery life
- Rechargeable
- Wireless control
- 10" tablet provided as control panel
- 10" virtual patient monitor
- 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
- 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



MODEL ST/157+ - ADVANCED LIFE SUPPORT SIMULATOR

AIRWAY MANAGEMENT

1. Oral and nasal endotracheal intubation.
2. LMA, LTA and Combitube applications.
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.
6. After the intubation procedure, the placement and positioning of the endotracheal tube can be evaluated via auscultation using a stethoscope.

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 and adjusted in amplitude.
2. Artificial respiration can be performed through mouth-to-mouth, mouth-to-nose, or bag-valve-mask ventilation with a realistic chest rise. The control panel facilitates the real-time monitoring of the volumetric ratio of air delivered during this practice.
3. 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.
4. Realistic bilateral and unilateral chest rise
5. Monitoring CPR practices with time recording through the control panel
6. Forty-three distinct ECG rhythms, each with adjustable heart rates controlled through the control panel, can be displayed utilizing four ECG leads.
7. 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.
8. 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.
9. A 10" virtual patient monitor is provided for use in laboratory settings, offering clear displays of ECG, SpO2, AWRR, EtCO2, Temp., and NIBP values. These parameters can be easily adjusted via the control panel.

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

SPECIFICATIONS

Dimensions	106 x 33 x 17 cm 41.7 x 13 x 6.7 inches
Weight	8 kg / 17.6 lbs

KEY FEATURES

5-Year-Old Child

- 6 hours of battery life
- Rechargeable
- Wireless control
- 7"/10" tablet provided as control panel
- Blinking eyes
- Articulated joints in the neck, jaw, 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
- One-way valve system that ensures the air given 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

AIRWAY MANAGEMENT

1. Oral and nasal endotracheal intubation.
2. LMA, LTA, and Combitube applications.
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.

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. IM injection into the deltoid muscle of the upper arm.
4. Intraosseous infusion (IO) procedure on the left leg.

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

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		✓

CPR AND CARDIOLOGY PRACTICES

1. The femoral pulse is synchronized with the selected ECG rhythm.
2. The carotid pulse is synchronized with the selected ECG rhythm. *
3. Artificial respiration can be performed through mouth-to-mouth, mouth-to-nose, or bag-valve-mask ventilation with a realistic chest rise.
4. Realistic bilateral and unilateral chest rise.
5. Monitoring CPR practices and ensuring proper execution of airway opening procedures through the control panel. *
6. Forty-three distinct ECG rhythms, each with adjustable heart rates controlled through the control panel, can be displayed utilizing four ECG leads.
7. 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.

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

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

SPECIFICATIONS

Dimensions	106 x 36 x 22 cm 41.7 x 14.1 x 8.6 inches
Weight	5,5 kg / 12.1 lbs

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 with provided spares
- Articulated neck, jaw, shoulder, hip, and knee joints for easy 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

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

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

GENERAL APPLICATIONS

1. Artificial respiration can be performed through mouth-to-mouth, mouth-to-nose, or bag-valve-mask ventilation with a realistic chest rise.
2. An automatic femoral pulse with a customizable rate. *
3. Monitoring the accuracy of the airway opening procedure.
4. Monitoring the passage of air into the stomach during artificial respiration by both adequate and excessive applications.
5. Monitoring the proper hand position by applying adequate and excessive compression during cardiac massage.
6. Generate a comprehensive report providing detailed feedback on CPR practices. *

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

MODEL ST/149 - INFANT ADVANCED LIFE SUPPORT SIMULATOR

SPECIFICATIONS

Dimensions	50 x 23,5 x 12,5 cm 19.7 x 9.2 x 5 inches
Weight	3,2 kg / 7 lbs

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
- Blinking eyes
- Elastic head and joint design for enhanced flexibility
- Anatomical features such as oral cavity, tongue, glottis, epiglottis, trachea, esophagus, lung and stomach
- A steel spring system designed to provide realistic chest compression during CPR while preventing collapse during application

GENERAL APPLICATIONS

1. Oral and nasal endotracheal intubation. When viewed with a laryngoscope, the vocal cords are clearly visible.
2. Artificial respiration can be performed through mouth-to-mouth, mouth-to-nose, or bag-valve-mask ventilation with a realistic chest rise.
3. Monitoring CPR practices and the proper execution of airway opening procedures through the control panel enabling effective tracking of training progress.
4. Monitoring the passage of air into the stomach with inadequate and excessive application of artificial respiration.
5. Monitoring the proper hand position by applying adequate and excessive compression during cardiac massage.
6. Forty-three distinct ECG rhythms, each with adjustable heart rates controlled through the control panel, can be displayed utilizing four ECG leads.
7. 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.
8. Generate a comprehensive report providing detailed feedback on CPR and intubation practices.

MODEL ST/72 - INFANT CPR AND INTUBATION TRAINING SIMULATOR

SPECIFICATIONS

Dimensions	50 x 23.5 x 12.5 cm 19.6 x 9.2 x 5 inches
Weight	3,2 kg / 7 lbs

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
- Blinking eyes
- Elastic head and joint design for enhanced flexibility
- Anatomical features such as oral cavity, tongue, teeth, glottis, epiglottis, trachea, esophagus, lung and stomach
- 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. Oral and nasal endotracheal intubation.
2. LMA, LTA, and Combitube applications.
3. Automatic spontaneous respiration with adjustable speed controlled via the control tablet.
4. Artificial respiration can be performed through mouth-to-mouth, mouth-to-nose, or bag-valve-mask ventilation with a realistic chest rise.
5. Training options with single and dual rescuer scenarios for CPR practices.
6. The simulation incorporates central and peripheral cyanosis, which can be modified through CPR interventions, leading to visible changes in coloration.
7. Monitoring CPR practices through the control panel enables effective tracking of training progress.
8. Generate a comprehensive report providing detailed feedback on CPR practices.

MODEL ST/156 - PNEUMOTHORAX SIMULATOR

SPECIFICATIONS

Dimensions	47 x 35 x 20 cm 18.5 x 13.7 x 7.8 inches
Weight	6.6 kg / 14.5 lbs

KEY FEATURES

Adult Upper Torso

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

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 at varying depths.

MODEL ST/154 - ADULT CRICOTHYROTOMY SIMULATOR

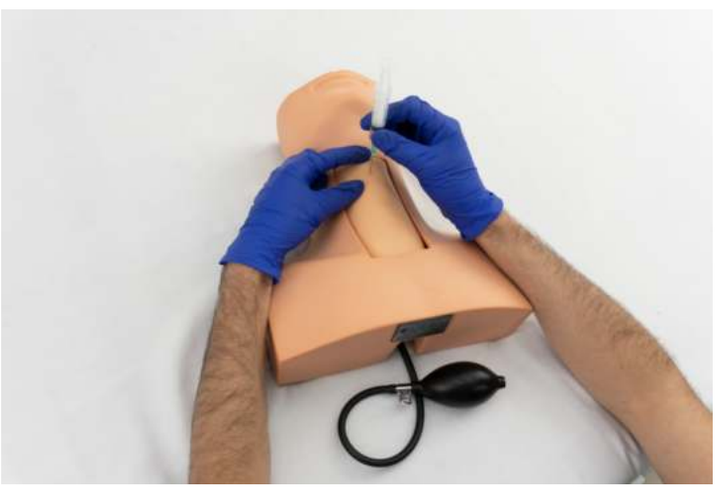
SPECIFICATIONS

Dimensions	31 x 27 x 12 cm 12.2 x 10.6 x 4.7 inches
Weight	2,25 kg / 5 lbs

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. Training in cricothyroid puncture, cricothyrotomy, and percutaneous tracheostomy procedures.
2. Various neck incision techniques, including longitudinal, transverse, diagonal, U-shaped, and inverted U-shaped.
3. The trachea can be inflated with air using a pump, effectively simulating the pressure experienced during the procedure.

MODEL ST/152 - TRACHEAL INTUBATION SIMULATOR

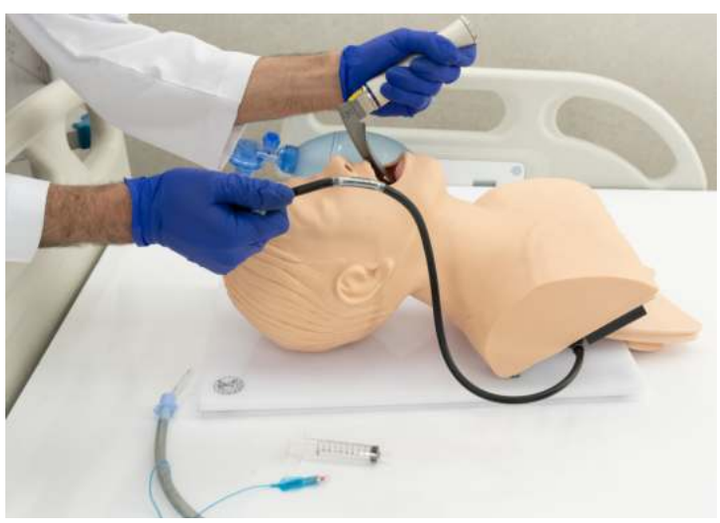
SPECIFICATIONS

Dimensions	56 x 27 x 24 cm 22 x 11 x 9.5 inches
Weight	4.75 kg / 10.5 lbs

KEY FEATURES

Adult Head-Neck-Chest

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



GENERAL APPLICATIONS

1. Oral and nasal endotracheal intubation, sputum suction, NG-OG feeding and oxygen inhalation trainings.
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) that can be induced by external intervention.
6. The Sellick maneuver, which involves applying cricoid pressure, can be used to obtain a clearer view of the vocal cords.

MODEL ST/160 - DEFIBRILLATOR AND PACEMAKER SIMULATOR

SPECIFICATIONS

Dimensions	20 x 40 x 23 cm 7.8 x 15.7 x 9 inches
Weight	4,5 kg / 10 lbs

KEY FEATURES

- 8 hours of battery life
- Rechargeable
- 7" 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. Forty-three distinct ECG rhythms, each with adjustable heart rates controlled through the control panel. These rhythms can be displayed on an actual bedside monitor or the simulative defibrillator. The defibrillation feature poses no risk to humans or manikins when a shock is applied.
2. Comprehensive reporting of rhythm changes and given shocks with the date and time records.

MODEL ST/164 - BEDSIDE PATIENT MONITOR

SPECIFICATIONS

Dimensions	20 x 34 x 20 cm 8 x 13 x 8 inches
Weight	4 kg / 8.8. lbs

KEY FEATURES

- 5 hours of battery life
- Rechargeable
- 10" screen
- Wireless control
- 7" tablet provided as control panel
- Can be used for training on both live individuals and training manikins.

GENERAL APPLICATIONS

1. The bedside monitor includes an SPO2 sensor for measuring oxygen saturation levels.
2. The monitor automatically inflates the blood pressure cuff with air during blood pressure measurement.
3. All commands can be wirelessly received and executed using the control panel.
4. The monitor displays ECG, SPO2, awRR, etCO2, temperature, and NIBP values. These values can be adjusted using the control panel.
5. The ECG display is accompanied by synchronized heartbeat sounds.
6. The monitor features an adjustable alarm system with customizable intervals.
7. It offers forty-three distinct ECG rhythms, each with adjustable heart rates controlled through the control panel.

* The bedside monitor is compatible with all advanced life support training manikins.

MODEL ST/159 - AUTOMATED EXTERNAL DEFIBRILLATOR

SPECIFICATIONS

Dimensions	21 x 28 x 3.5 cm 8.2 x 11 x 1.3 inches
Weight	1 kg / 2.2 lbs

KEY FEATURES

- Rechargeable
- 8 hours of battery life
- Wireless control
- 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, English, and Russian.
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.

MODEL ST/163 - VIRTUAL PATIENT MONITOR HDMI KIT

SPECIFICATIONS

Dimensions	15 x 15 x 3 cm 5.9 x 5.9 x 1.1 inches

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 can display EKG, SPO2, awRR, etCO2, NIBP, temperature, and blood glucose values.
- The pulse sound of the displayed rhythm on the screen is audible. Its speed varies proportionally with the rate of the rhythm.
- The system includes an alarm function, similar to a real patient monitor. It activates alerts when values deviate from the standard range, and the alarm intervals can be adjusted.

MODEL ST/165 - TRAUMA ACCESSORIES

KEY FEATURES

- High-quality and durable material
- Realistic appearance
- Emergency response training in burn cases
- First aid training for surgical trauma response
- 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(19 Pieces)

1. Second and third-degree burns on the facial region
2. Third-degree burn on the back
3. Second and third-degree burns on the chest
4. Second and third-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 (2 pcs)
10. Gunshot wound in the palm (2 pcs)
11. Open fracture of the femur (2 pcs)
12. Fragmentation and open amputation in the thigh region (2 pcs)
13. Open fracture of the tibia (2 pcs)

ADHESIVE WOUND PRACTICE MODULE (26 pieces)

The set includes 26 adhesive wound practice modules suitable for application on various regions of the body on manikins or live individuals.

MAKEUP MULAGE SET (11 Pieces)

1. Accident simulation wax (2 pcs)
2. Wound modeling paste (2 packs in both light and dark colors)
3. Artificial blood coagulant (1 pc)
4. Artificial blood powder (5 bottles, each of which can produce 1 liter of blood fluid)
5. Paint in three different colors: brown, yellow, and red
6. Plexiglass for simulating glass fractures (1 pack)
7. Flaster (1 pc)
8. Cream (1 pc)
9. Tongue depressor(abeslang) (10 pcs)
10. Spray can (2 pcs)
11. Makeup cleaning cloth (1 pack)

MODEL ET/38 - ECG RHYTHM SIMULATOR

SPECIFICATIONS

Dimensions	20 x 10.5 x 4.5 cm 7.8 x 4.1 x 1.7 inches
Weight	525 g / 1.1 lbs

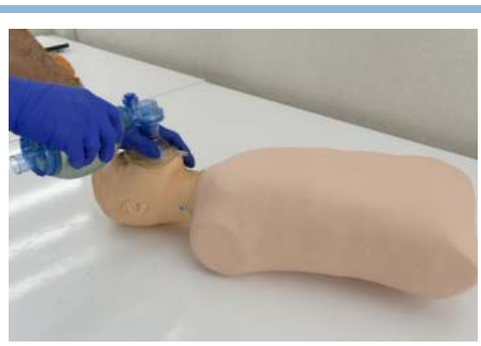
KEY FEATURES

- 8 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. Connect to an actual bedside monitor or a defibrillator device.
3. Heart rate can be adjusted through the control panel.
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, JT, JR, AT, AFLT, AFIB, ST, PACED, VT, SVT, POLI VT, VF, T.D. POINTES, AGONAL, ASYSTOLE.

MODEL ET/75M - PEDIATRIC CPR AND OBSTRUCTION TRAINING SIMULATOR



SPECIFICATIONS

Dimensions	63 x 23 x 17.5 cm 24.8 x 9 x 6.8 inches
Weight	3 kg / 6.6. lbs

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.

KEY FEATURES

Half-Sized Child

- High-quality and durable material
- Realistic appearance
- Prominent anatomical features, including nipples, xiphoid process, collarbone, overall chest, and rib
- Replaceable mouth and nose components with provided spares
- Elastic head and joint structure for enhanced flexibility
- 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

MODEL ET/73M - CPR AND OBSTRUCTION TRAINING SIMULATOR

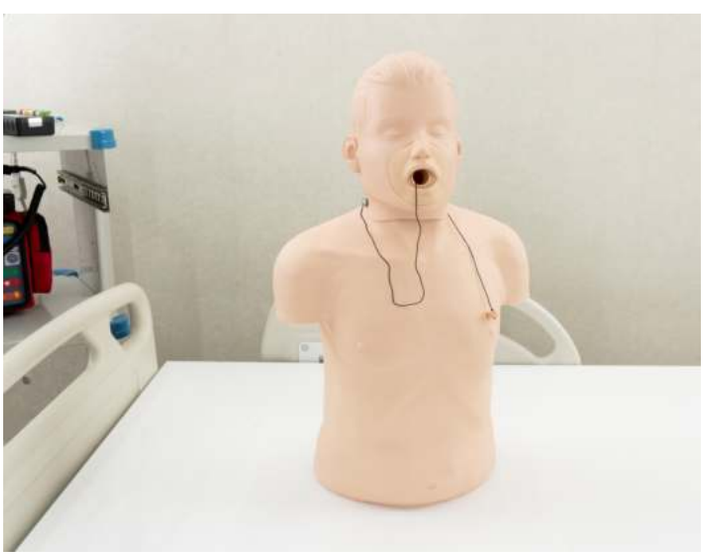
SPECIFICATIONS

Dimensions	68 x 40 x 22 cm 26.7 x 15.7 x 8.6 inches
Weight	5 kg / 11 lbs

KEY FEATURES

Half-Sized Adult Torso

- High-quality and durable material
- Realistic appearance
- Prominent anatomical features, including nipples, xiphoid process, overall chest, and rib
- Replaceable mouth and nose components with provided spares
- 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



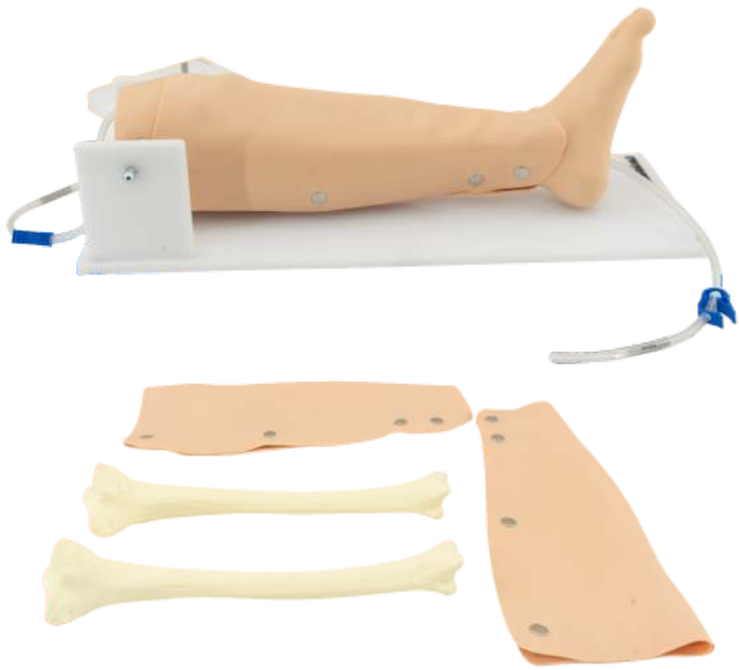
GENERAL APPLICATIONS

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.

MODEL ST/158 - ADULT INTRAOSSEOUS INTERVENTION SIMULATOR

SPECIFICATIONS

Dimensions	60 x 20 x 14 cm 23.6 x 7.8 x 5.5 inches
Weight	3,5 kg / 7.7 lbs



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 thanks to its mounted base
- Replaceable tibia bone module and leg skin with provided spares

GENERAL APPLICATIONS

1. Simulated blood can be filled into pre-intervention bone modules.
2. Bone marrow aspiration (intraosseous).
3. A realistic sensation of entering the bone cavity and observing fluid flow during the procedure.

MODEL NS/98B - INTRAVENOUS & INTRAMUSCULAR INJECTION TRAINING ARM SIMULATOR

SPECIFICATIONS

Dimensions	71 x 13 x 9 cm 27.95 x 5.12 x 3.54 inches
Weight	2 kg / 4.4 lbs

KEY FEATURES

Adult Arm

- High-quality and durable material
- Realistic appearance
- Palpable realistic vascular anatomy
- Palpable brachial artery pulse
- Replaceable skin, vascular, and deltoid muscle pad components with provided spares

GENERAL APPLICATIONS

1. Practice blood collection exercises with simulated blood.
2. IV puncture, injection, transfusion, and blood drawing procedures through the basilic, cephalic, antecubital veins in the forearm, as well as the digital and metacarpal veins on the dorsal surface of the hand.
3. IM injection into the deltoid muscle of the upper arm.

MODEL NS/133 - SUTURE PRACTICE ARM SIMULATOR

SPECIFICATIONS

Dimensions	60 x 11 cm x 8.5 cm 23.6 x 4.3 x 3.3 inches
Weight	1.3 kg / 2.8 lbs

KEY FEATURES

Adult Arm

- High-quality and durable material
- Realistic appearance
- Skin and muscle layers

GENERAL APPLICATIONS

Practical training for surgical incisions and suturing techniques

MODEL NS/134 - SUTURE PRACTICE LEG SIMULATOR

SPECIFICATIONS

Dimensions	73 x 22 x 14 cm 28.7 x 8.6 x 5.5 inches
Weight	2 kg / 4.4 lbs

KEY FEATURES

Adult Leg

- High-quality and durable material
- Realistic appearance
- Skin and muscle layers

GENERAL APPLICATIONS

Practical training for surgical incisions and suturing technique

MODEL NS/118 - BLOOD PRESSURE MEASUREMENT TRAINING SIMULATOR

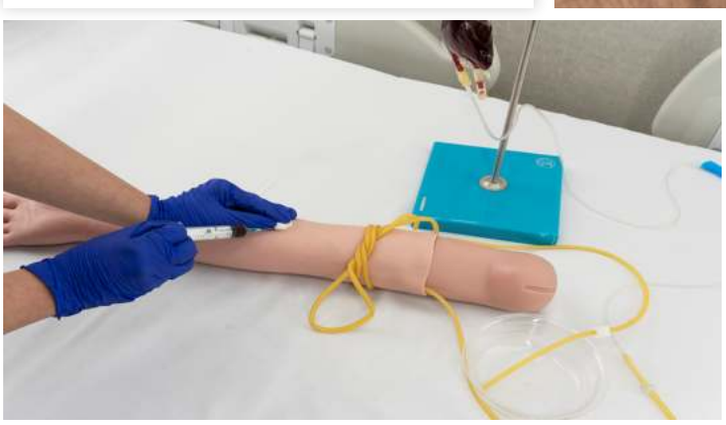
SPECIFICATIONS

Dimensions	71 x 13 x 9 cm 27.9 x 5.1 x 3.5 inches
Weight	1 kg / 2.2 lbs

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 realistic vascular structure
- Replaceable skin, vascular and deltoid muscle pad structure



GENERAL APPLICATIONS

1. Non-invasive blood pressure (BP) measurement.
2. Adjusting systolic (SBP) and diastolic (DBP) blood pressure values and heart rate parameters through the control panel.
3. IV puncture, injection, transfusion, and blood drawing procedures through the basilic, cephalic, antecubital veins in the forearm, as well as the digital and metacarpal veins on the dorsal surface of the hand.
4. IM injection into the deltoid muscle of the upper arm.

MODEL NS/114B - TRANSPARENT BUTTOCK INTRAMUSCULAR INJECTION SIMULATOR

SPECIFICATIONS

Dimensions	37 x 34 x 22 cm 14.5 x 13.4 x 8.6 inches
Weight	3,6 kg / 8 lbs

KEY FEATURES

Adult Buttock Model

- Rechargeable
- 10 hours of battery life
- Durable special plastic
- Realistic appearance
- A transparent design that enables the observation of the internal anatomical structures, including muscle tissue, bone structure, and the neurovascular system of the buttocks
- Palpable injection site
- Electronic feedback support powered by a battery

GENERAL APPLICATIONS

1. Gluteus maximus muscle injection with audio and visual electronic feedback assistance.
2. Easy drainage of the injected fluid.

MODEL NS/114D - BUTTOCK INTRAMUSCULAR INJECTION SIMULATOR

SPECIFICATIONS

Dimensions	24 x 21 x 15 cm 9.4 x 8.2 x 5.9 inches
Weight	1,47 kg / 3.2 lbs

KEY FEATURES

Adult Buttock Model

- A visible mark indicating the correct injection position
- Intramuscular injection pad and anus pad that can be easily replaced
- Rectal temperature measurement

GENERAL APPLICATIONS

1. Gluteus maximus muscle injection with audio and visual electronic feedback assistance.
2. Easy drainage of the injected fluid.

MODEL NS/136 - SUTURE PAD

SPECIFICATIONS

Dimensions	16 x 12 x 4 cm 6.3 x 4.7 x 1.5 inches
Weight	0.18 kg / 0.4 lbs

KEY FEATURES

- High-quality and durable material
- Realistic appearance
- Skin, subcutaneous tissue, and muscle layers

GENERAL APPLICATIONS

Practical training for surgical incisions and suturing techniques.

MODEL NS/114E - ADVANCED BUTTOCK INTRAMUSCULAR INJECTION SIMULATOR

SPECIFICATIONS

Dimensions	36 x 33 x 21 cm 14 x 13 x 8.3 inches
Weight	2,91 kg / 6.42 lbs

KEY FEATURES

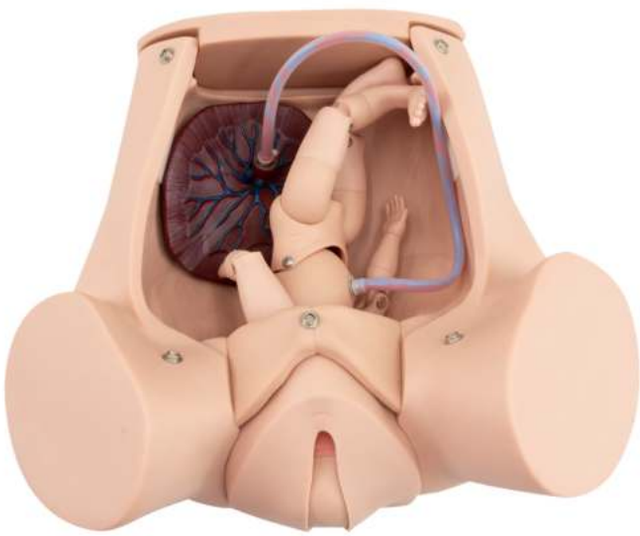
Adult Buttock Model

- 6 hours of battery life
- Rechargeable
- Wireless control
- 7" tablet used as control panel
- High-quality and durable material
- Realistic appearance
- Palpable injection areas compatible with hip anatomy
- Hip positioning base to support ventrogluteal injection

GENERAL APPLICATIONS

1. Bilateral application of intramuscular injections to the ventrogluteal and dorsogluteal sites.
2. Instant and precise feedback on the injection site and depth.
3. Liquid injection and automatic drainage.
4. The software on the tablet allows users to independently train and evaluate themselves, with the option to save these assessments in PDF format.
5. Evaluation and scoring functionality for injection and pre-injection preparation procedures.

MODEL MT/52 - ABDOMINAL EXAMINATION AND CHILDBIRTH SIMULATOR



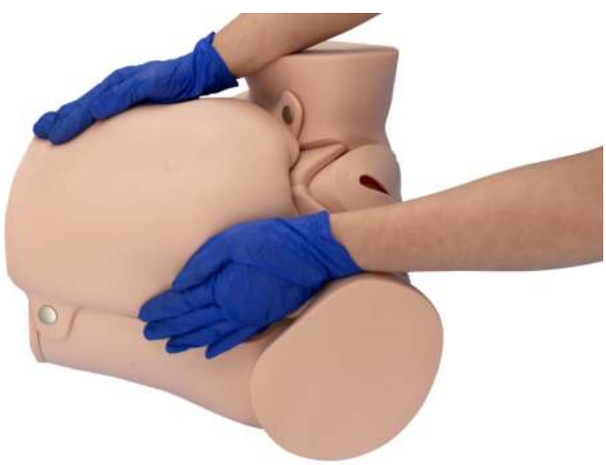
SPECIFICATIONS

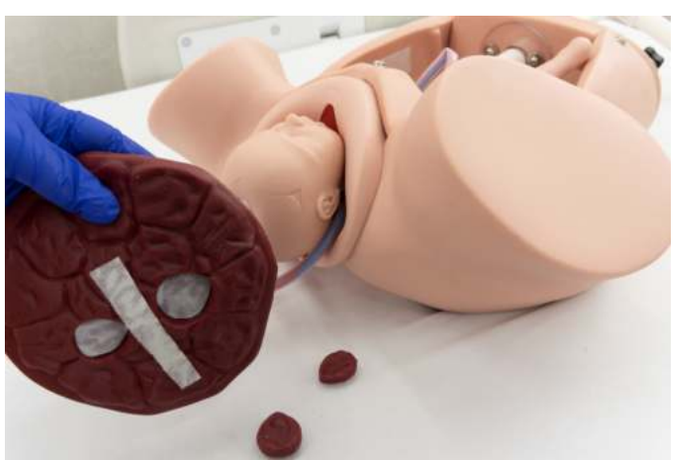
Dimensions	60 x 48 x 21 cm 23.6 x 18.9 x 8.2 inches
Weight	5,5 kg / 12.1 lbs

KEY FEATURES

Adult Female Lower Turso

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





GENERAL APPLICATIONS

1. Vaginal examination, pelvic measurement, and perineum protection procedures can be practiced.
2. Both normal and breech deliveries can be simulated by moving the fetus down the birth canal. The model has a transparent abdominal wall, allowing observation of the childbirth stages.
3. Vacuum-assisted delivery skills can be practiced.
4. Leopold maneuver and palpation training can be practiced by inflating the cushion placed under the abdominal wall and the fetus.

MODEL MT/60B-K - EPISIOTOMY SUTURING SIMULATOR SET

SPECIFICATIONS

Weight	4.4 kg (set of 4) / 9.7 lbs

KEY FEATURES

Adult Vulva Model

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

GENERAL APPLICATIONS

1. Surgical incision and suturing training can be practiced on four modules, including three vulva modules with a median incision, left and right posterior incisions, and one intact vulva module without incisions.

MODEL MT/65K - NEONATAL CARE SIMULATOR

SPECIFICATIONS

Dimensions	50 x 23.5 x 12.5 cm 19.7 x 9.2 x 4.9 inches
Weight	3,2 kg / 7 lbs

KEY FEATURES

Full-Size Newborn

- High-quality and durable material
- Realistic appearance
- Blinking eyes
- Anterior and posterior fontanelles, as well as coronal and sagittal sutures
- Realistic fontanelle
- Flexible body enabling 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. Temperature measurement from the ear, mouth, and rectum.

MODEL MT/62B - BREAST EXAMINATION SIMULATOR

SPECIFICATIONS

Dimensions	38 x 42 x 20 cm 15 x 16.5 x 7.9 inches
Weight	4,75 kg / 10.5 lbs

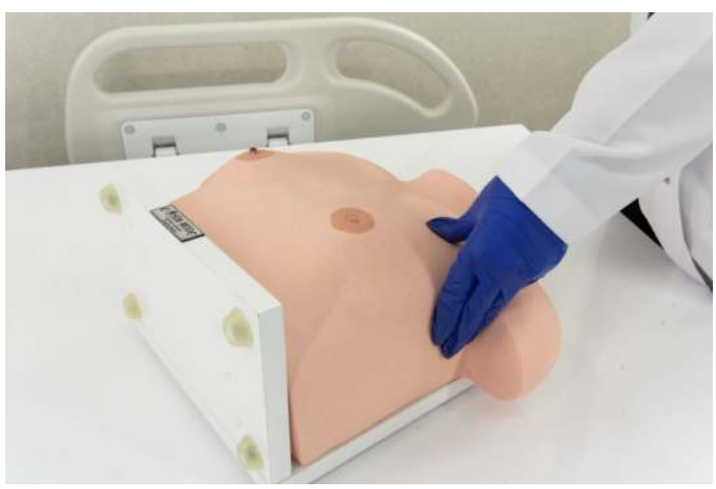
KEY FEATURES

Adult Female Breast Model

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

GENERAL APPLICATIONS

1. Breast asymmetry examination.
2. Inverted nipple examination.
3. Nipple bleeding examination.
4. Diagnosis of abnormal formations by analyzing their specific characteristics such as location, size, texture, density, and mobility.
5. Identification of cancerous masses and tumors in both right and left breasts.
6. Identification of an axillary mass.



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

SPECIFICATIONS

Dimensions	30 x 38 x 17 cm 11.8 x 15 x 6.7 inches
Weight	3 kg / 6.6 lbs

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
- Fluid-filled breast hat can be palpated
- Inflamed orange peel texture on the skin
- Benign and malignant tumor formations in both the right and left breasts
- Tumor lumps with four different densities, benign nature, and fringed appearance
- Cavities for the placement of lumps in the right and left breasts

GENERAL APPLICATIONS

1. Identification of enlarged lymph nodes in the axillary and subclavicular area.
2. Diagnosis of abnormal formations by analyzing their specific characteristics such as location, size, texture, density, and mobility.
3. Inverted left nipple examination.
4. Skin concavity and asymmetry examination.
5. Training option with or without the overlay skin.

SIM MOD®

SIMULATION MODELS

Transforming Healthcare Training with Simulation