EMERGENCY DISASTER TRAINING MODEL

ITEM # UM-101

High Simulation Trauma Manikin - John

Feature:
1. Head: Liquid crystal pupils, size can be adjusted as required, including normal pupils, mydriasis and pin-point pupils.
2. Voice: the manikin can make different sounds according to different pathogenetic conditions, and the volume can be adjusted.
3. Breath: the manikin supports real spontaneous respiration with chest rise, and comes with various breathing patterns including Cheyne-Stokes breathing, Biot's respiration, and cogwheel breathing, etc. Both respiratory rate and respiratory depth are adjustable.
4. Pulse: supports real artery pulse such as carotid pulse, radial pulse and femoral artery pulse; pulse and heart rate are at the same frequency.
5. Trachea cannula: tracheal intubation via mouth, intubation position and depth can be shown simultaneously by the multimedia software; open the airway by means of head tilt and jaw thrust. Audible warning feedback if there's pressure on teeth. Simulate unilateral and bilateral pulmonary obstruction and main airway blockage, etc.
6. Auscultation: supports auscultation of breath sounds, heart sounds, bowel sounds and vascular murmur.
7. BP: perform non-invasive BP measurement with simulated sphygmomanometer, and Korotkoff's Sound can be heard.
8. CPR: According to AHA 2015 guideline for CPR, supports multiple ventilation ways: mouth to mouth and BVM to mouth, etc; electronically monitor airway opening, blowing volume, blowing frequency, blowing times, compression sites, compression times, compression depth and frequency, upload the data which collects from the sensor to the computer, so the operation can be shown in real time, and the software can automatically judge if the operation is correct or not. There's English voice prompts during the whole process.
10. Pace-making: support real and simulated pace-making.
11. ECG: supports real ECG monitoring, and huge quantity of electrocardiogram to simulate various disease can be selected in the system.
12. Drug administration: subcutaneous injection and intramuscular injection at bilateral deltoids; intramuscular injection at bilateral vastus lateralis muscles, buttock intramuscular injection, arm intravenous injection or transfusion (blood transfusion); simulate infusion pump and injection pump via software.
13. Basic nursing function: supports oral care, hair and face washing, changing clothes and oxygen inhalation.
14. Supports pneumothorax puncture, and gas can be drawn after successful puncture. Supports tracheotomy care.
15. Supports nasal feeding.
16. Trauma evaluation: supports training in sterilization, dressing change, hemostasis, binding up and wound care.

**ITEM # UM-102**

**High Simulation Trauma Manikin - Jecy**

![Image of trauma manikin]

**Feature:**
1. Head: simulated pupils (normal or mydriasis).
2. Pulse: real carotid pulse can be palpated.
3. Trachea cannula: tracheal intubation via mouth.
4. BP: perform non-invasive BP measurement with simulated sphygmomanometer, and Korotkoff's Sound can be heard.
5. CPR: According to AHA 2015 guideline for CPR, supports multiple ventilation ways: mouth to mouth and BVM to mouth, etc.; electronically monitor airway opening, blowing volume, blowing frequency, blowing times, compression sites, compression times, compression depth and frequency, upload the data which collects from the sensor to the computer, so the operation can be shown in real time, and the software can automatically judge if the operation is correct or not. There's English voice prompts during the whole process.
6. Defibrillation: supports real and simulative defibrillation.
7. Drug administration: subcutaneous injection and intramuscular injection at bilateral deltoids; intramuscular injection at bilateral vastus lateralis muscles, buttock intramuscular injection, arm intravenous injection or transfusion (blood transfusion).
8. Basic nursing function: supports oral care, hair and face washing, changing clothes and oxygen inhalation.
10. Trauma evaluation: supports training in sterilization, dressing change, hemostasis, binding up and wound care.
11. Simulate clinical symptoms of different diseases (e.g. haematemesis, hemoptysis, and oral disease, etc.), and perform relative nursing care when blood flows out of the mouth.
ITEM # UM-103

High Simulation Trauma Manikin - Jack

Feature:
1. Head: simulated pupils (normal or mydriasis)
2. Pulse: real carotid pulse can be palpated.
3. BP: perform non-invasive BP measurement with simulated sphygmomanometer, and Korotkoff's Sound can be heard.
4. Drug administration: drug administration: subcutaneous injection and intramuscular injection at bilateral deltoids; intramuscular injection at bilateral vastus lateralis muscles, buttock intramuscular injection, arm intravenous injection or transfusion (blood transfusion).
5. Basic nursing function: supports oral care, hair and face washing, changing clothes and oxygen inhalation.
7. Supports male and female catheterization, bladder irrigation and enema operation training.
8. Trauma evaluation: supports training in sterilization, dressing change, hemostasis, binding up and wound care.

ITEM # UM-103-A

Adult ACLS Emergency Training System (Wireless)
ImplemenImplement Standard: AHA (American Heart Association) 2015 guideline for CPR and ECC

System main features:

★ This sign indicates that the functions can be run only when the manikin is used with the optional accessories

Head and neck:
1. Vital signs simulation: pupil changes, carotid artery pulse, reproduction of patient breath sound, moaning, coughing, vomiting, etc;
2. Unilateral or bilateral bronchial obstruction, simulate laryngospasm;
3. Airway management: standard oral and nasal tracheal intubation, support head tilt and jaw thrust, audible warning feedback if there is pressure on the teeth;

Trunk:
1. Support multiple ventilation ways: mouth to mouth, mouth to nose, BVM to mouth, etc;
2. Statistic report, individual or plural training assessment, English voice prompt during the entire process;
3. Real-time data graphic display
   ★ Real defibrillation and pacing: can be used with different kinds of defibrillating pacer to achieve real defibrillation and pacing, can choose defibrillation energy and the max energy reaches 360J;
   ★ Real AED: Can be used with different types of AED to achieve AED operation;
   ★ Simulative AED: Be used with AED, English voice prompts during the entire process, providing electrode patch; automatic heart rhythm detection and analyze if defibrillation is needed;
   ★ Real ECG monitoring: supporting different manufacturers and different types ECG monitor, which can achieve real ECG monitoring; can observe thousands of normal or abnormal ECG;

Limbs:
1. Intramuscular injection and venous infusion: bilateral vastus lateralis, bilateral arm veins, bilateral dorsal veins of hand

2. BP measurement: BP measurement on left arm

Software:
1. Script editor: the system provides multiple emergency cases, supporting user-editing simulative emergency cases;
2. Training and assessment: ECG knowledge, basic skills operation and basic cases, can increase the questions and edit papers;

Components:

Hardware
1. ACLS Full-body manikin
2. BP Measuring Unit
3. ACLS functional connector.
4. Laryngoscope
5. Tracheal canola
6. Transfusion set
7. BVM

Optional accessories:
1. Real Cardiac Defibrillating Pacer
2. Real AED
3. AED Automatic External Defibrillation Simulator
4. Real ECG Monitor
5. Simulative Multi-parameter ECG Monitor
6. Computer
7. Computer control console
8. Stainless steel control console
9. Rescue operation console
ACLs Training Manikin

Features:
1. Airway management: standard nasal and oral intubation, tracheotomy intubation, supporting to head tilt and Jaw thrust, audible feedback if pressure exerted on the teeth during intubation.
2. CPR: instantaneous displaying graphics of data, statistic report, sound directions related to CPR, result printing.
3. Simulating of a patient: the changes of pupils and carotid; the sounds of respiratory, moan, cough and vomit; more than 17 kinds of rhythm (access to 3/4 lead ECG monitoring); unilateral or bilateral bronchial obstruction; laryngospasm simulation.
4. Physical therapy: ECG monitoring via defibrillation connectors, the maximal energy of defibrillation is 360J; the frequency of external pacemaker is set to 60times/min, and the current threshold is 40mA.
5. Intravenous infusion and blood pressure measure training.
6. AED: automatically external defibrillation machine (only for training use), providing electrode pad and electrode button.
7. Manikin’s bare joint can rotate left and right, basically the same with the real human body size, and do foot care operations.
8. Manikin has interchangeable male and female external genitalia, can do catheterization operation training, bladder simulator is equipped inside, simulated urine can be injected into; if the operation is successful the simulated urine would flow out.

Standard components:
1. Full body manikin (1)
2. ACLS monitor (1)
3. ACLS converter (1)
4. Aluminium & plastic box (1)
5. CPR operation pad (1)
6. Exchangesable lung bag (5)
7. CPR face shield sheet (50pcs/box)
8. Temperature sensing print paper (2 roll)
9. BP Training Arm (1)
10. Airway intubation parts (1)
11. Guide manual (1)
ITEM # UM-105

Child ACLS Emergency Training System (Wireless)

Implement standard: AHA (American Heart Association) 2015 guideline for CPR and ECC

Features:
- Pupil observation: mydriasis, normal
- Palpable carotid pulse
- Airway management: comes with realistic mouth, nose, tongue, gum, pharynx, esophagus and epiglottis; simulates to clear away the foreign bodies in the respiratory tract; open airway by head tilt, chin lift, jaw thrust with both hands; supports tracheal intubation, and the display will show if the intubation is correct.
- Simulates spontaneous respiration with chest rise, and chest rise can be realized bilaterally and unilaterally.
- Cardiopulmonary auscultation
- Thorax and Abdomen:
  - Comes with organs: lungs, stomach, bladder, and rectum. Lungs can be used for ventilation, and liquid can be injected into or drained from bladder and rectum.
  - Bilateral puncture decompression and puncture effusion can be performed.
  - Auscultation: including heart sounds, respiratory sounds, bowel sounds; and the normal heart sounds and respiratory sounds can be adjusted according to the heart rate and respiratory frequency shown in the monitor;
  - Gastric intubation: supports gastric lavage, gastrointestinal decompression operation; intubation position can be detected via abdominal auscultation; suction of gastric liquid indicates successful intubation;
  - Simulate skin color: normal, central cyanosis, peripheral cyanosis, mixed cyanosis, pale;
  - Urethral catheterization: change male/female perineum module to practice male/female catheterization;
- CPR: Support multiple ventilation ways: mouth to mouth, mouth to nose, BVM to mouth; electronically monitors airway opening and intubation depth, insufflation times, frequency, volume and compression times, frequency, position and depth; automatically judge the ratio of artificial respiration and chest compression;
- ★Real defibrillation and pace-making: can be used with defibrillator and pacemaker (prepared by user-self) to realize real defibrillation and pace-making.
- ★ECG monitoring: can be used with real ECG monitor to realize real ECG monitoring.
- ★Simulate defibrillation and pace-making: use with simulative cardiac defibrillator and pacemaker; choose defibrillation energy, the max energy is 360J;
- **Limbs:**
  Manually BP measurement arm, venepuncture/transfusion, skin care, intramuscular injection, bone marrow puncture (tibia), flexible cervical vertebra and joints are flexible enough to supports sitting position and recumbent position.

- **Software:**
  1. Provide various kinds of drug and multiple administration ways; general dose and usage of each drug is preset; some drugs exist pharmacodynamic physiological reaction;
  2. Provide all kinds of auxiliary examination: biochemical report, CT, ultrasound, ECG, etc;
  3. Training and examination: test questions, emergency theory knowledge, ECG identification training, CPR training and assessment are hugely stored in the system;
  4. Virtual cases training and assessment: internally stored scripts of common clinical cases in different depts.
Infant ACLS Emergency Training System (Wireless)

Features:
- Life size infant model with flexible joints and realistic anatomical structures of ribs, lungs, heart, stomach, liver, trachea and esophagus, etc.
- Pupil: normal and mydriasis
- Simulates spontaneous respiration, femoral pulse and umbilical artery pulse; cyanosis changes on infant cheek, lips, hands, legs with different degree, mild or serious.
- CPR:
  1) External chest compression: The screen will show if compression depth and frequency is correct.
  2) Head hypokinesis, electronically detect airway opening, provide multiple ventilation ways: mouth to mouth, mouth to nose, BVM, respirator, etc.
- Can be used with simulative defibrillator and pace-maker, the default output energy: 1-360J, and the defibrillation times: 1-3; can be freely set.
- System has prompts for correct or wrong defibrillation.
- ECG varies with each defibrillation, and different waveforms are shown.
- Real and Simulative AED
- Injection: supports arm intravenous injection, and the skin and vessels are replaceable; intramuscular injection: the modules are detachable and replaceable, easy to wash, and can be used for repeated practice.
- Nasal feeding: gastric liquid can be extracted after correct intubation into stomach.
- Urethral catheterization: interchangeable male and female urethral catheterization, simulative urine can be collected after correct operation.
- Nearly one hundred common first-aid medicines for choices, and 12 methods of administration (intracutaneous, subcutaneous, intramuscular, I.V., intravenous drop, intracheal, external use, hypogloeosis, per os, rectum, injection pump, infusion pump); computer will automatically display and make records after correct operation.
- Other software function
- System will give prompts for wrong operations or wrong settings.
- Record, save and print with passwords settings for the whole process, safely and effectively.
- Optional network modules: divide into “Teacher’s System” and “Student’s System”, with modules of virtual teacher, class pattern, group pattern, group discussion, teacher monitoring, student demonstration, broadcast teaching, window teaching, phonetic teaching, fast tutorship and whiteboard, etc, which makes it easy to realize the situational teaching and interaction of teachers and students.
ITEM # UM-107

Neonatal ACLS Emergency Training System (Wireless)

Features:

★ This sign indicates that the functions can be run only when the manikin is used with the optional accessories

Head and neck:
1. Normal, dilated pupil;
2. Airway management: realistic mouth, nose, tongue, gum, throat, esophagus, epiglottis, trachea, tracheal ring; can practice tracheal intubation via mouth or nose, sputum suction; oxygen inhaling; may monitor airway intubation and umbilical vein catheterization, show correct and wrong intubation; there is prompt for wrong tracheal intubation; only right chest rise can be observed due to excessive intubation position;
3. Gastric intubation: detect tube position via auscultation; inserting gastric tube for gastrointestinal decompression, nasal feeding, gastric lavage, etc.

Chest and abdomen:
1. Pneumothorax puncture extraction, pleural effusion extraction training;
2. Auscultation sound: include heart sound, breath sound, bowel sound, of which the normal heart sound and breath sound can be adjusted according to the monitor HR and respiratory rate;
3. CPR training: Support multiple ventilation ways: mouth to mouth, mouth to nose, BVM to mouth; can monitor inflation times and frequency, compression time, frequency and depth; judge the ratio of artificial breathing and chest compression;
4. Real defibrillation and pacing: Achieve real defibrillation and pacing by using with real defibrillating pacer (prepared by user-self);
5. ECG monitoring: Be used with real ECG monitor (prepared by user-self) to realize ECG monitoring;
6. Simulative ECG monitoring should be used with multi-parameter simulation of ECG to achieve the function of monitoring ECG.

★ Simulate defibrillation and pacing: should be used with simulative defibrillating pacer; can choose defibrillation energy, the max energy is 360J;

Limbs:
1. Venous transfusion/puncture, arm veins include and Scalp vein includes.
2. Umbilical care: Practice ligature of umbilical cord, umbilical vein catheterization;
3. Bone marrow puncture: Effusion of simulative bone marrow prompts proper tibial puncture, can inject into drugs and practice transfusion;
4. BP measurement training

Software:
1. Vital signs monitoring: spontaneous breath; simulate femoral artery, umbilical artery pulse; heart rate, cardiac rhythm, crying, hiccupping, BP, saturation of blood oxygen, ABP, mixed cyanosis, central cyanosis, peripheral cyanosis, amniotic fluid, muscular tension, convolution, reflection, spontaneous movement and general paralysis; can perform Apgar score;
2. ECG, emergency scenes and cases are available in the system;
3. Neonatal ACLS emergency script editor is used to edit neonatal emergency cases and simulate emergency scenes;
4. Neonatal ACLS emergency script training software
5. Perform PETCO2: confirm tracheal intubation position and monitor the effectiveness of resuscitation operation
Standard components:
1. Intelligent ACLS Neonate Manikin
2. BP Training Equipment
3. Heart and Lung Auscultation Simulator Set
4. ECG Generator
5. Defibrillator Converter
6. BVM, Stethoscope, Laryngoscope, Tracheotomy tube, Infusion set.
7. Emergency System Controller
8. Medical Air Compressor

Optional accessories:
1. Video monitoring equipment
2. Computer
3. Computer control console
4. Stainless steel control console
5. Rescue operation station

Features:
- CPR: supports BVM to mouth, obvious chest rise; and external chest compression;
- Simulates airway opening
- Umbilical cord cutting and nursing
- Equipped with pressure bulbs, manually squeeze the red one, there will be umbilical artery pulse; squeeze the green bulb, there will be spontaneous respiration.
Adult ALS Emergency Training System (Wireless)

Complying with AHA (American Heart Association) 2015 guideline for CPR, it provides ALS (Advanced Life Support) comprehensive training in first aid skills. The system consists of full-body manikin and a LCD with big screen. It provides a simple and practical ALS training tool.

Features:
1. Vital signs simulation: pupil change and carotid arterial pulse.
2. Arm injection training practice.
3. Airway management: standard nasal and oral intubation, tracheotomy intubation, supporting to head tilt and Jaw thrust, audible feedback if pressure exerted on the teeth during intubation.
4. CPR: instantaneous displaying graphics of data, statistic report, and sound directions related to CPR, voice prompts of correct and wrong operation, data statistic, result printing, available of training and exam mode.
5. AED: automatically external defibrillation machine (only for training use), providing electrode pad and electrode button.
6. Physical therapy: ECG monitoring via defibrillation connectors, the maximal energy of defibrillation is 360J, the frequency of external pacemaker is set to 60 times/min, and the current threshold is 40mA.
7. Manikin’s bare joint can rotate left and right, basically the same with the real human body size, and do foot care operations.
8. Manikin has interchangeable male and female external genitalia, can do catheterization operation training, bladder simulator is equipped inside, simulated urine can be injected into, if the operation is successful the simulated urine would flow out.

Standard components:
1. Full body manikin (1) 6. Exchangeable lung bag (5)
2. ALS monitor (1) 7. CPR face shield sheet (50pcs/box)
3. ALS couverte (1) 8. Temperature sensing print paper (2 roll)
4. Aluminum & plastic box (1) 9. Airway intubation parts (1)
5. CPR operation pad (1) 10. Guide manual (1)
ITEM # UM-1010

**Adult BLS Emergency Training Manikin (Wireless)**

Implement standard: AHA (American Heart Association) 2015 guideline for CPR and ECC

Features:
- Bilateral pupils contrast: normal and mydriasis, simulate pupils state (normal, myosis), the manikin make synchronized changes.
- Carotid pulse: control and simulate artery pulse, weak pulse or strong pulse.
- CPR
- Airway management
- Real AED defibrillation
- Script editing
- Available standalone version and online version
- Supports lateral thigh intramuscular injection
- Supports arm venous injection training
- Can be used with various trauma simulators for learning
- Supports multimedia courseware teaching, and can be connected to projector or Demo system.
ITEM # UM-1011

CPR Training Manikin

Implement standard: AHA (American Heart Association) 2015 guideline for CPR and ECC

Features:
1. Accurate anatomical features, realistic feeling, natural complexion, and perfect appearance
2. Manikin connects to the electronic monitor via compression and ventilation duct.
3. Manikin vital signs:
   1) Initial state: manikin’s pupil mydriasis and no carotid pulse
   2) After successful rescue: manikin’s pupil recover, and carotid pulse begin self-pulsation
4. Manikin’s left shoulder supports consciousness judgement, and the result can be printed on the report after operation
5. Simulate airway opening, and the relative green light on the monitor will be triggered once the airway is open.
6. CPR operating modes: CPR Training, CPR Popularization and CPR Assessment:
7. Electronic monitoring: the electronic lights monitor the airway opening, compression sites (including one correct position and four wrong positions), times of correct and wrong artificial respiration and external chest compression.
8. Bar code shows the volume of insufflation: correct value should be 500 - 600ml.
   1) insufficient blowing, the bar code is yellow,
   2) proper blowing, the bar code is green,
   3) excessive blowing, the bar code is red.
   Bar code shows the compression depth: correct value should be 5cm - 6cm.
   1) Insufficient compression depth, the bar code is yellow,
   2) proper compression depth, the bar code is green,
   3) excessive compression depth, the bar code is red.
9. English voices prompts during the whole process and the volume is adjustable.
10. Compression frequency: 100-120 times/minute
11. Remote control can be used to reset, playback and simulate emergency call, pulse check, forerign body removal and breathing judgement, etc.
12. Power state: adopts 220V external power source, which can be used for both manikin and electronic monitor.
CPR Training Manikin

Implement standard: AHA (American Heart Association) 2015 guideline for CPR and ECC

Features:
1. Accurate anatomical features, realistic feeling, natural complexion, and perfect appearance
2. Manikin connects to the electronic monitor via compression and ventilation duct.
3. Manikin vital signs:
   1) Initial state: manikin’s pupils mydriasis and no carotid pulse
   2) After successful rescue: manikin’s pupil recovery, and carotid pulse begin self-pulsation
4. Manikin’s left shoulder supports consciousness judgement, and the result can be printed on the report after operation
5. Simulate airway opening, and the relative green light on the monitor will be triggered once the airway is open.
6. CPR operating modes: CPR Training, CPR Popularization and CPR Assessment:
7. Electronic monitoring: the electronic lights monitor the airway opening, compression sites (including one correct position and four wrong positions), times of correct and wrong artificial respiration and external chest compression.
8. Bar code shows the volume of insufflation: correct value should be 500 - 600ml.
   1) insufficient blowing, the bar code is yellow,
   2) proper blowing, the bar code is green,
   3) excessive blowing, the bar code is red.
   Bar code shows the compression depth: correct value should be 5cm - 6cm.
   1) Insufficient compression depth, the bar code is yellow,
   2) proper compression depth, the bar code is green,
   3) excessive compression depth, the bar code is red.
9. English voices prompts during the whole process and the volume is adjustable.
10. Compression frequency: 100-120 times/minute
11. Remote control can be used to reset, playback and simulate emergency call, pulse check, foreign body removal and breathing judgement, etc.
12. Power state: adopts 220V external power source, which can be used for both manikin and electronic monitor.
ITEM # UM-1013

CPR Training Manikin

Implement standard: AHA (American Heart Association) 2015 guideline for CPR and ECC
Features:
1. Pupil demonstration: one mydriasis and the other normal
2. Simulate standard open airway
3. Simulate free movements of upper limbs
4. External chest compression: display device and alarm device
5. Artificial respiration (Inhalation): display device and alarm device
6. Operating period: Ratio of compression and artificial respiration: 30:2 (one or two persons), complete 5 cycles.
7. Compression frequency: 100 - 120 times/minute
8. Compression depth: 5-6cm
9. Squeeze the bulb manually to simulate carotid pulse
10. Working conditions: adopts 220V external power source

ITEM # UM-1014

Half Body CPR Training Combination

Features:
1. Simulate standard open airway
2. External breast compression, intensity display of correct (at least 5cm):
   (1). Buzzing sound of correct compression intensity
   (2). Alarming sound of wrong compression intensity
3. Artificial respiration (inhalation): the volume of inhalation is observed through observing the wave of breast;
   (tidal volume = 500ml/600ml-1000ml = )
4. Operation methods: exercise operation
ITEM # UM-1015

**Half Body CPR Training Manikin**

Implement standard: AHA (American Heart Association) 2015 guideline for CPR and ECC

**Features**

1. Simulate standard open airway
2. Support training in artificial respiration and external chest compression
3. Compression Frequency: 100-120 times/minute
4. External breast compression, intensity display of correct (5cm-6cm):
   1) The yellow indicator light display of correct compression position
   2) Buzzing sound of correct compression intensity, the green indicator light display
   3) Alarming sound of wrong compression intensity, the red indicator light display
5. The inflated tidal volume can be observed by the chest rise, commonly it should be 500-600ml.
6. Power supply: power adapter

ITEM # UM-1016

**Half Body CPR Training Manikin**

Implement standard: AHA (American Heart Association) 2015 guideline for CPR and ECC

**Features**

1. Simulate standard open airway
2. Support training in artificial respiration and external chest compression
3. Compression Frequency: 100-120 times/minute, take the “tick” sound as the sign, and the compression depth should be 5cm - 6cm.
4. The inflated tidal volume can be observed by the chest rise, commonly it should be 500-600ml.
5. Power supply: power adapter
Child CPR Manikin (Wireless)

Implement standard: AHA (American Heart Association) 2015 guideline for CPR and ECC

Features:
- External chest compression with alarm warning
- Child compression depth: at least 1/3 times of thoracic anteroposterior diameter, about 5cm;
- Indicator light and alarm warning will be triggered if compression is incorrect.
- Simulate standard airway opening
- Artificial mouth to mouth (insufflation) respiration with alarm warning;
  1) indicator light and alarm for blow-in tidal volume “<150ml~200ml<”;
  2) indicator light for tidal volume “150ml~200ml” (correct);
  3) If blowing too fast or too much, the indicator light in the stomach will be on with alarm warning;
- Operating period: Ratio of compression and respiration is 30:2/single person or 15:2/ two persons, 5 cycles of CPR operation need to be completed.
- Operating frequency: the newest international standard: at least 100-120 times/min.
- Operating mode: Training
- Carotid pulse reaction: manually squeeze the bulb to simulate the carotid pulse
- Working condition: adopts 220V external power source, or use 4 pcs 1# battery for field training.

AED Simulator

Features:
1. Simulate AED workflow during first-aid procedure with voice prompts, and it hasn’t high tension shock motion.
2. Interchangeable voice prompts, in English or in Chinese; and the volume is adjustable.
3. Pre-set up 9 programs of training mode, each mode is simulated real AED scenarios that meet the latest international training standards, and BLS process can be suspended or continued anytime.
4. Fault simulation, choosen via remote control, including “Something else touches patient’s body during defibrillation”, “wrong position of electrode pad”, “no need of defibrillation”, “need defibrillation”, “machine error” and “battery low”.
5. Can be used with manikins in any code and produced by any factory.
ITEM # UM-1018

Infant CPR Training Manikin (Wireless)

Implement standard: AHA (American Heart Association) 2015 guideline for CPR and ECC

Features:
- Chest external compression with alarm warning
- Simulate standard airway opening
- Artificial mouth to mouth respiration (insufflations) with alarm warning
- Operating period: Ratio of compression and respiration is 30:2/single person or 15:2/two persons, 5 cycles of CPR operation need to be completed.
- Operating frequency: the newest international standard: at least 100-120 times/min.
- Operating mode: Training
- Brachial artery reaction: manually squeeze the bulb to simulate the brachial artery pulse.
- Working condition: adopts 220V external power source, or use 4 pcs 1# battery for field training.

ITEM # UM-1019

Infant CPR Manikin

Implement standard: AHA (American Heart Association) 2015 guideline for CPR and ECC

Features:
1. Simulating standard open airway
2. Manually external breast compression with finger(s)
3. Respiration: during mouth-to-mouth & mouth-to-nose artificial respiration, chest rise can be seen
4. Operating period: one period includes five cycles of CPR according to ratio of compression and artificial respiration (30:2/single or 15:2/double)
5. Compression frequency: 100-120 times per minute
6. Compression depth: it should be 1/3 of chest anteroposterior diameter at least, about 4cm.
7. Pin the pressure ball by hand to simulate brachial artery pulse
8. Supports colostomy care
9. Simulates abdominal suture and supports wound care
10. Working condition: Input power is 110-240V
ITEM # UM-1020

Infant Obstruction Manikin

Features:
1. Artificial respiration and external chest compression
2. Simulation of natural airway, chest expand when airway opened
3. Airway opening and chest compression
4. Accurate anatomy, proportion of the standard live baby design
5. Simulation of body airway obstruction.

ITEM # UM-1021

Child CPR Manikin
Implement standard: AHA (American Heart Association) 2015 guideline for CPR and ECC

Features:
1. Simulate standard open airway
2. External breast compression: display device and alarm device
   a. Indicator light display of correct and wrong compression; alarm of wrong compression
   b. Intensity display of correct (2-3 cm) and wrong (<2cm or >3cm) compression; alarm of wrong compression
3. Artificial respiration (inhalation): display device and alarm device
   a. Inhalation <150-200ml or > 200ml, wrong indicator light display and alarm prompting; Inhalation between 150-200ml right indicator light display
   b. Inhalation too quickly or too much result in air entering into stomach; indicator light display and alarm prompting
4. Ratio of compression and artificial respiratory: 30:2 (one person) or 15:2 (two persons)
5. Operating cycle: one cycle includes five times of 30:2 or 15:2 ratio of compression and artificial respiration
6. Operation frequency: at least 100-120 times per minute
7. Operation methods: exercise operation
8. Examination of carotid response: pinch the pressure ball by hand and simulate carotid pulse
9. Working conditions: Input power is 110-240V
ITEM # UM-1022

**Half-body CPR Training Manikin**

The product can operate adult Heimlich maneuver.
The simulate manikin is designed according to the anatomy and physiological characteristics and fit for first aid for foreign body in the airway.

**Implement standard:** AHA (American Heart Association) 2015 guideline for CPR and ECC

**Features:**
1. Simulation of normal airway obstruction
2. Provide CPR operation practice; simulation of airway opening and chest compression
3. Simulation of the chest expansion when the airway is empty
4. Simulation of the suffocation, foreign body obstruction in airway
5. Can operate adult Heimlich maneuver
6. Simulation of Carotid pulse
7. Individual MOUTH/NOSE piece, replaceable; the manikin comes with 5 pcs MOUTH/NOSE piece;

ITEM # UM-1023

**High Simulation Trauma Evaluation Modules**

- Fragment wound inlet, mild contusion, spider bites, shotgun wound outlet, shotgun wound inlet, military gun wound inlet, penetrating wound, sabre wound, moderate electric burning, moderate contusion, second-degree burn; third-degree burn, military gun outlet, serious electric burning, fragment wound outlet, scalp contusion, crus degloving injury, open fracture, knife wound, and intestine exposed wound, etc.

ITEM # UM-1024

**Trauma Limb**

**Feature:**
- Upper limbs and lower limbs trauma models;
- Can be used as accessories, and can be connected to the CPR manikins.
ITEM # UM-1025

**Trauma Simulators**

**Features:**

1. Bone tissue exposure
2. Simulate all kinds of trauma of body, burned skin is replaceable.
3. Simulate rinsing, disinfection, hemostasis, dressing, fixation and transportation for wound parts.
4. Simulate open fracture and breakage in different body positions for management.
5. Trauma care: disinfection, dressing change, hemostasis and binding up.
6. Advanced trauma modules to come with,
   - (1) Facial burn: 1, 2, 3 degree
   - (2) Gun wound in the left palm
   - (3) Laceration in forehead
   - (4) Opened fracture of right thigh bone
   - (5) The wound in jaw
   - (5) Compound femur fracture of left thigh
   - (7) Opened clavicular fracture and contusion wound on the chest
   - (8) Metal pricking wound in right thigh
   - (11) The wound in abdomen with small intestine eversion
   - (10) Opened tibia fracture of right leg
   - (13) Opened humerus fracture of right upper arm
   - (12) Opened fracture of right foot with truncating trauma on small phalanx
   - (15) Opened fracture of right hand with parenchyma laceration
   - (14) Burns in right forearm: 1, 2, 3 degree
   - (16) Truncating trauma of leg thigh

ITEM # UM-1026

**Trauma Simulators Accessories**

**Features:**

1. Facial burn: 1, 2, 3 degree
2. Laceration in forehead
3. The wound in jaw
4. Opened clavicular fracture and contusion wound on the chest
5. The wound in abdomen with small intestine eversion
6. Opened humerus fracture of right upper arm
7. Opened fracture of right hand (including parenchyma laceration)
8. Gun wound in the right palm
9. Opened fracture of right thigh bone
10. Compound femur fracture of left thigh
11. Metal pricking wound in right thigh
12. Opened tibia fracture of right leg
13. Opened fracture of right foot with truncating trauma on small phalanx
14. Burns in left forearm: 1, 2, 3 degree
15. Truncating trauma on left thigh
16. Closed tibia fracture of right leg and contusion wounds in left ankle and foot
ITEM # UM-1027

**Spinal Injury Transport Simulation Standardized Patient**

Features:

1) Full body manikin with injuries at neck and spine, which can be used to examine how to transport neck fracture patients and spinal injury patients.
2) Voice prompts for incorrect positions when neck bows forward, leans backward and turn to left and right; voice prompts for incorrect positions during waist anteflexion and rear extension.
3) Voice prompts for wrong operation, and it will disappear when the manikin is placed correctly.
4) Pupils: one normal and the other mydriasis for contrast teaching demonstration
5) Supports trachea cannula and tracheostomy care.
6) Adopts straight moving with several persons. Avoid single person embacing the chest and moving alone in case of second spinal cord injury.
7) Equipped with several sensors, voice prompts will be activated when the transport method is wrong.
8) Supports multiple nursing skills, e.g. Nasal feeding, ileostomy and colostomy care, stoma irrigation, urethral catheterization, and deltoids injection.
9) Working condition: use DC 12V external power or rechargeable lithium battery.

ITEM # UM-1028

**Limbs Fracture First-aid External Fixation Simulation Standardized Patient**

Features:

1) Simulates head trauma and limbs closed fracture, students can be familiar with symptoms of malformation, bony crepitus and abnormal motion and so on, and they can make diagnosis and treatment.
2) Master the operating skills of wounds rinsing, disinfection, binding up, restoration, fracture fixation and transport, which has great clinical meaning for surgical trauma first-aid skills training.
3) Trauma includes radius and ulna closed fractures (upper forearm), Tibia and fibula closed fractures trauma (lower limbs), and thigh compound trauma. The end of fracture is touchable, fracture-angle abnormality, and comes with feeling of bone friction.
4) Mandible trauma modules: open jaw trauma modules, and wound management can be done for the jaw.
5) Basic nursing function: I.V. Injection, urethral catheterization, etc.
6) All types of brace can be used with this manikin.
7) Can be widely used for emergency teaching demonstration and actual practice.
ITEM # UM-1029

**Airway Management Model**

Features:
1. Anatomically accurate head and neck structures, which will be more effectively to illustrate “Sellick maneuver”.
2. Simulate laryngospasm and edema.
5. Observe lung breathing movement when making artificial respiration, and supports practice in breath sounds auscultation.
6. Tracheal intubation via mouth
7. Nasal feeding and gastric lavage
8. Supports oral cavity, oropharynx and nasopharynx suction, make bronchial suction via mouth or nose with bronchoscope
9. Comes with simulative sputum to make the practice more realistic
10. Squeeze the bulb manually to simulate the carotid pulse

ITEM # UM-1030

**Airway Intubation Training Model**

Features:
1) Accurate anatomical marks with good view of intubation
2) Supports trachea cannal via mouth and nose
3) Proper intubation, the lungs will inflate after air supply
4) Mistakenly insert into esophagus, the stomach will inflate after air supply, and there’s electronic alarm function
5) If wrong operation make laryngoscope compress the teeth, there will be electronic alarm function.

ITEM # UM-1031

**Electronic Trachea Intubation Training Model**

Features:
1. Oral intubation
2. Correct operation, sound prompting, and pulmonary expansion
3. Wrong operation, stomach expansion or laryngoscope compressing the teeth will activate warning prompting.
4. Examination of pupil response: normal and mydriasis
5. Thyrotricoid punctures position instruction
ITEM # UM-1032

**Tryocricocentesis Tracheostomy Simulator**

**Features:**
1. Simulate dorsal position and neck extending
2. Accurate structure: thyroid cartilage, cricoid cartilage, crico-thyroid membrane,
3. Trachea is touchable.
4. Percutaneous thyrocricoid puncture, cricothyrotomy, tracheotomy can be practiced.

ITEM # UM-1033

**Half-body Airway Intubation and CPR Training Model**

**Features:**
1) The simulated airway can be used with laryngeal mask and compound cannula;
2) Lungs breathing movements can be observed during artificial respiration;
3) Trachea cannula, pharyngeal and esophageal intubation can be done via mouth and nose;
4) Supports oral, oropharyngeal and nasopharyngeal suction via mouth or nose with a bronchoscope;
5) Supports practice in opening airway and resuscitation ball-mask ventilation and CPR compression.

ITEM # UM-1034

**Neonate Tracheal Intubation Model**

**Features:**
1. Realistic anatomy of neonate
2. Oral intubation and nasal feeding
3. Lifelike material
4. Directly observe the expansion of lungs and stomach by insufflating air into the tube and stomach so as to verify if the tube position is right
ITEM # UM-1035

**Infant Tracheal Intubation Model**

**Features:**
1. Realistic anatomy: tongue, pharynx, epiglottis, larynx, chordae vocals, trachea
2. Oral intubation and nasal feeding
3. Lifelike material
4. Simulate head tilt to operate conveniently
5. Directly observe the expansion of lungs and stomach by insufflating air into the tube and stomach so as to verify if the tube position is right.

ITEM # UM-1036

**Child Tracheal Intubation Model**

**Features:**
1. Anatomically accurate mouth, larynx, trachea
2. Oral intubation and nasal feeding
3. The neck should be backward in order to open airway
4. Insufflating air into the tube so as to verify whether the tube position is right.

ITEM # UM-1037

**CPR Face Shield Sheet**

**Features:**
1. Balayer asepsis dust mask
2. Prevent cross infection
3. 50 pcs per box

ITEM # UM-1038

**CPR Compression Board**
MATERNAL AND INFANT MODEL SIMULATION SYSTEM
Delivery Simulation System

ITEM # UM-201

Main function of Gravid Manikin:
1. Spontaneous lachrymation and sweat
2. Simulate colporrhagia, massive haemorrhage and abdominal amniotic fluid, etc.
3. Simulate all kinds of cyanosis and pale complexion, etc.
4. Chest rise during spontaneous respiration
5. Simulate Uterine Contraction: UC intensity varies with the progress of labor stages.
6. Simulate airway obstruction to realistically show ARDS performance
7. Multiple arterial pulses
8. Allow to auscultate hundreds of normal and abnormal heart sounds, lung sounds, bowel sounds and fetal heart sounds
9. Comes with 80 kinds of preinstalled voice to simulate puerperal chief complaint.
10. Vital signs monitoring: BO monitor, BP monitor and ECG monitoring, and supports monitoring the whole process of the uterine cavity from awaiting delivery, parturition and postpartum care.
11. With real anatomical structure
12. Uterine cavity monitoring: Available real-time curve changes of UC & FHR
13. The descending position of fetal head is controlled by the software, and coordinate with antenatal cervical and birth canal variation modules to measure the status of fetal head descent and cervix dilation.
14. Urethral catheterization
15. Delivery: Demonstration of LOA delivery, accompanied with auto uterine contraction, including engagement, decent, flexion, inner rotation, spread, restoration and outer rotation, fetal shoulder and fetus deliver, and the labor speed can be adjusted according to the teaching requirements.

First Aid,
1. Simulate defibrillation and pace-making
2. Intravenous injection (hand & arm), intramuscular injection (deltoid, lateral thigh)
3. Infusion pump usage flow training
4. CPR Training
5. Drug therapy system: medicine species and dosage can be identified, and relative physiological changes will occur after drug administration.
ITEM # UM-202

Digital Training System of Obstetrics and Gynecology Skills

computer-controlled

This is a computer interactive emergency delivery training system with powerful functions and comprehensive knowledge in subjects such as gynecology, obstetrics, paediatrics, first aid and nursing, etc. It mainly contains two sections: puerperal system and neonatal system, which covers first-aid knowledge points of the entire labor process, basic nursing, postpartum nursing care and BLS of infant and Mother, ACLS and PLS. It provides classical dystocia cases, e.g. normal labor, cord around neck delivery, breech dystocia, preeclampsia, caesarean birth, prolapse of umbilical cord, premature birth and potential hemorrhage before, during and after delivery. It clearly instructs obstetrical workers to identify different natal stages through partogram, diagnose abnormal labor stages in clinic and deal with it properly, to diagnose fetal distress in time by clinical fetal monitoring and handle it; and to train nursing care and emergency treatment for neonates. The software can self-edit clinical cases, simulate real clinical environment and cultivate students' ability in clinical diagnosis and team cooperation for labor and emergency cases.

1. Consists of puerperal system and neonatal system, and each system consists of manakin, computer, control cabinet and ECG monitor;
2. Great case edit functions make illness state vary with the clinical treatment, which can cultivate correct clinical thoughts and cooperative spirit of group for students;
   1) Designed with many real cases, so it is easy to apply the software;
   2) Edit course of disease as required, and the edit method is simple;
   3) When course of disease starts, it can be stopped, suspended, playback, and Teacher can change the vital signs of "patient" at any time to change the course, which can make treatment more difficult to check students' strain capacity
3. The puerperal features natural anatomical structure, with flexible limbs and dorsal lithotomy position can be realized.
   1) Take off the abdominal cover, fetus with flexible joints can be seen and it can realize multiple fetal positions;
   2) Equipped with gravid uterus, and allows Leopold maneuvers;
   3) The chest skin can be connected to simulators such as ECG, defibrillator, temporary external pacemaker and AED, etc;
   4) Comes with a built-in inductor, which can sense operations such as trachea cannula, chest compression and ventilation, intravenous injection, etc;
   5) Forearm intravenous injection: There will be “POP” feeling and blood return can be seen if puncture is correctly done. The skin and vessels are replaceable.
4. Labor of Stages & Fetal Heart Monitoring
   1. FHR & UC monitoring: Easily set up all kinds of index of fetal vital signs and uterine contraction, and there're real-time dynamic graphics during fetus monitoring, and the graph paper can be saved and printed;
   2. Auto delivery: By drawing partogram and setting up the 1st, 2nd and 3rd labor stages, the manikin can automatically demonstrate the childbirth process, including engagement, descending, flexion, inner rotation, spread, restoration and outer rotation, shoulder presentation and fetal birth, accompanied with uterine contraction, and the labor speed is adjustable;
   3. Dystocia: Simulate all kinds of dystocia by setting up the software, changing the fetal position, and adjusting the pelvic bony stenosis degree, and the partogram will reflect the dystocia course.
   4. Birth process can be suspended and repeated, so it's easy for classroom teaching.

5. Neonate, flexible limbs, with realistic anatomic structures of ribs, lungs, heart, stomach, liver, trachea, esophagus and umbilical cord, etc.
   1. Allows umbilical venous cannula to extract blood or inject into medicine;
   2. There will be obvious “POP” feeling and bone marrow can be extracted if the puncture is correctly done;
   3. There will be obvious “POP” feeling, and vein blood can be extracted if the puncture is correctly done, and medicine can be injected into the neonatal manikin.

6. Newborn Cyanosis Emergency System
   1. Cyanosis changes on newborn cheek, lips, hands, legs with different degree, mild or serious;
   2. Equipped with 5-speed position to adjust the cyanosis condition;
   3. Treatment: apply oxygen therapy and injection therapy to the newborn if necessary; rational dosage is required on the basis of baby's body weight;

7. CPR: AHA (American Heart Association) 2015 guideline for CPR & ECC
   1. Two operation mode: Training & Assessment
   2. Set up different assessment criterion for different group (first-aid major, medical major, ordinary people) and different age group (adult, child, infant), with different complexity;
   3. Three patterns for setting assessment criterion:
      a. default;
      b. the computer automatically measures the whole data of teacher’s practical operation and make it as the standard, instead of an abstract value set by the tender-self, which makes the standard close to the actual operation;
      c. Tolerance interval setting;

8. Simulate Bedside Monitoring System: completely same as clinical monitor, dynamically displays manikin's physiological parameters such as SpO2, BP (SBP, DBP, MABP, IBP, NIBP), breath curves, respiratory rate, heart rate, ECG, ETCO2, Temperature, etc.

9. Defibrillation:
   1. Allow to practice operation skills for synchronized defibrillation or nonsynchronous defibrillation;
   2. Free to set defibrillation energy (1-360J) and defibrillation times (1-3);
   3. Prompts for both correct and wrong defibrillation;
   4. ECG shows various waveforms for defibrillation each time;
   5. Auto system response after correct defibrillation, it recovers to normal sinus ECG, whereas, it shows death ECG;
10. AED Skills Points:
   1). Critical “Patient” Life Support:
   2). Use ECG monitor
   3). CPR
   4). Electric defibrillation: Synchronous electrovert & AED
   5). External pace-making
   6). Trachea Cannula
   7). Sputum suction and atomizing inhalation
   8). Hair washing, breast nursing, venepuncture, etc.
11. Labor Stages Monitoring:
   1). Fetal Heart Monitor
   2). Perineum Incision and Suture
   3). Leopold maneuvers
   4). Partogram drawing and application
   5). Vaginal delivery
12. Vacuum delivery (obstetrics forceps / fetal head aspirator)

   Newborn Emergency & Nursing Skills:
   1). First-aid for cyanosis  ECG monitor application
   2). Tibia puncture  CPR
   3). Electric defibrillation: Synchronous electrovert & AED External pace-making
   4). Trachea cannula
   5). Umbilical ligation, nursing, umbilical venous blood collection, umbilical venous cannula, etc.
   6). Nasal feeding, oxygen inhalation, intravenous injection via umbilical vein, forearm vein and great saphenous vein, etc.
Overview:
Thank you for purchasing the Child Birth Manikin. Please read the manual carefully.
The item you have purchased is suitable for medical schools, nursing colleges, and hospitals. The manikin is intended to be used for teaching demonstrations and preparations. The model can simulate all kinds of examinations and emergency rescues. The focus of the manikins are for the mother and infant for before, during, and after the fetal delivery. The fetal positions and delivery speed can be adjusted by the user. This product features high quality materials and a realistic appearance which is an ideal simulator for the practice of midwifery, delivery, and emergency treatment.

Major Features:

Pregnant mother and Fetus –
- Life sized replica of the pregnant mother with flexible joints and removable abdomen wall
- Fetus with flexible joints
- Able to perform obstetrical palpitation examination
- Fetus can simulate heart sounds
- Automatic delivery system to simulate the complete labor process
- Simulate multiple fetal positions
- Head of fetus can ascend and descend to judge cervical dilation
- Able to practice postpartum perineum incisions
- Mother manikin can be used for CPR training where chest will beat up and down
- Understand venous channels for mother’s arm to determine drug administration and nutrition supply

Neonatal Simulator:
- Simulate the functions of a normal sized fetus
- CPR training can be performed
- Understand trachea cannula
- Perform nasal feeding
- Perform drug administration via the umbilical vein

Product includes the following parts:
1. Uterus
2. Abdomen Wall skin
3. Fetal Simulator
4. Abdominal Cover
5. Subject of Electrical Machine
6. Vulva Set
7. Neonatal Simulator
Installation Instructions:

1. Before using, please verify the part checklist above

2. Fetal Preparation:
   a. Connect the fetal umbilicus to the placenta
   b. Lubricate the whole body of the baby including the umbilicus and placenta

3. How to Place the Fetus:
   a. Based on the different modes of delivery there are different placements of the fetus:
      i. Head presentation: the fetal hips up, installed on the host, host were placed on both sides of the legs, head toward the direction of the perineum (figure 1 below)
      ii. Breech presentation delivery: fetal head up, installed on the host, legs placement according to the different types of breech placements, buttocks toward the perineum direction (figure 2 below)
4. How to place the placenta:
   a. Place placenta on both sides of the lumbar spine with white adhesive surfaces
   b. Depending on the mode of the delivery, the placenta should be attached the lumbar spine on both sides where the white adhesives were pasted

5. How to place the perineum:
   a. Perineum set is replaceable
   b. Align the button on the vulva set with the buttons on perineal position
   c. Snap the button in place (figure 3 below)

6. Auto delivery system
   a. Connect the data line on the auto-delivery controller to the left of the interface on the manikin (figure 4 below)
   b. Connect the power supply with a spare transformer

7. Fetal Heart Sounds (FHS):
   a. Before the FHS auscultation, please install the sensor
   b. Connect the data line to the delivery machine (figure 5 below)
   c. Verify and listen to the FHS

8. IV Injection:
a. Please inject the right amount of blood meal into the infusion bag
b. Add the right amount of water
c. Shake to make the simulated blood
d. Suspend the infusion bag from the arm at 45 cm and use the liquid barrier closed clip
e. Insert the infusion catheter to the vein
f. The catheter will be placed in another vessel with the liquid barrier open clip
g. Blood flows into the vein to simulate repeated filling (figure 6 below)

9. Before doing CPR for puerpera, please install the monitoring system first:
   a. There are 2 catheters on the left side of the manikin
   b. Connect the red one to the compression indicator interface on the monitor
   c. Connect the yellow one to the inflation indicator interface on the monitor (figure 7 below)
   d. Switch on and standby

10. Blood sampling from neonatal umbilical cord:
    a. Two transparent tubes with clips on the right side of the baby
    b. Connect the transfusion bag with the simulative blood and empty the transfusion bag ac-

    cordingly
    c. Wipe the air out of the pipeline
    d. Fill the simulative vessels (figure 8 below)
Overall Examinations & Functions Supported:

1. Visual examination (figure 9 below):
   a. Put abdominal skin inside of the belly
   b. Squeeze the bulb
   c. Observe the belly’s shape and size

2. Leopold’s Maneuver:
   a. Empty the pregnant bladder
   b. Put the manikin in the supine position
   c. Perform the examinations – four types of maneuvers:
      i. 1st Examination Maneuver (figure 10 above):
         1. Examiner places his hands at the bottom of the uterus
         2. Understand the height of the uterine fundus
         3. Estimate the fetus size and compare to the term of pregnancy
         4. Touch the pregnant belly and lightly nudge and recognize the various parts of the fetus
         5. A round and hard feeling with the shape of a ball would indicate the fetus head, a wide and irregular shape would indicate the fetus hip
      ii. 2nd Examination maneuver (figure 11 below):
         1. Examiner places hands on the left- and right-hand side of the manikin belly
         2. One hand should be fixed, and the other hand should deeply press for examination. Alternate hands if needed.
         3. Determine where the fetal back and limbs are located
            a. If the area is flat and full, it is the fetal back
            b. If the area is transformable and uneven then it is the baby’s limbs
iii. 3rd Examination Maneuver (figure 12 below):

1. Examiner should use his/her right hand and separate the thumb from the other fingers
2. Place the right hand superior to the symphysis pubis
3. Hold the presentation part, and then move it to the left and right to ensure that there is engagement
4. If the presentation part can be moved, then it indicates that there is no engagement
5. If it cannot be moved, then the engagement is completed

![Fig 11](image1) ![Fig 12](image2)

iv. 4th Examination Maneuver (figure 13):

1. Examiner should put both hands on the presentation part of the manikin
2. Deeply compress along the pelvic inlet, confirm if the diagnosis for the presentation part is correct and ascertain the extent of the engagement
3. If presentation part is the fetal head, the examiner's hand can smoothly enter the pelvic inlet, while the other hand is blocked by the fetal head upheaval (called the fetal head juga)
4. If the presentation is occipital, the fetal juga will be a frontal bone, at the same side of the fetal limbs
5. If the presentation is the face, the fetal juga will be occipital bone at the same side of the fetal back

![Fig 13](image3)

3. Auscultation:
   a. Auscultate fetal heart sound at one side of the fetal back with the 1 Doppler Fetal Heart Stethoscope
b. If it is a fetal head presentation, the fetal heart sound can be heard from the right/left interior umbilicus

c. If it is a breech presentation, the fetal heart sound can be heard from the right/left superior umbilicus

d. If it is a shoulder presentation, the fetal heart sound can be heard from around the umbilicus

e. Normal heart sounds should be between 120-160 beats/min

Delivery Functions:

• Manikins have significant joint flexibility and lower limbs can perform abduction
• Manikins are also able to take the bladder lithotomy position to reach clinical requirements

Delivery Mechanism:

1. Engagements (figure 14)
   a. Perform a Biparietal diameter into the pelvic inlet plate. The fetal skull’s lowest point approach to reach the level of the ischial spine (called convergence).
   b. Flex state of the fetal head with half the amount of path into the pelvic inlet pillow
      i. The pillow amount is due to the pelvic inlet diameter being greater than the diameter of the front and rear
   c. Fetal sagittal suture is located on the upper right oblique diameter of the pelvic inlet
   d. The fetal head is facing to the left in front of the occipital bone in the pelvis

   ![Fig 14](image1)
   ![Fig 15](image2)

2. Descending:
   a. Fetal movement forward along the axis of the pelvis is called the decline (figure 15 above)

3. Flexion
   a. Performed when the diameter of the fetal head to the pillow into the pelvis is down to the amount of the pelvic floor
   b. There will be resistance encountered to the fetal head as it flexes in the ani-occipital point
   c. Leverage additional flexion with the lower jaw pointed close to the chest
d. There should be a small change of the fetal head pillow under the anterior fontanelle size pillow instead of a longer amount of trails
e. Use the pillow when the amount of change of the fetal head circumference of the convergence for the former occipital skull circumference to accommodate the birth canal is conducive to the fetal head

4. Internal Rotation:
   a. Fetal movement known as the rotation around the longitudinal axis of the rotation of the pelvis
   b. Making this consistent with the diameter of the sagittal suture in front of the pelvis and pelvic outlet

5. Face Upward (figure 16 below):
   a. The fetus is in the pelvic rotation after the completion of the fetal head reaches the vagina mouth
   b. Based on uterine contractility, the abdominal muscles and the diaphragm contractility continue to force the fetal head
   c. Additionally ani-muscle contractility in turn moves forward the fetal head
   d. Both of these actions force to make the fetal head down along the axis of the front of the pelvis so that it rotates upward
   e. The fetal head, forehead, nose, mouth, and chin are first to be delivered

6. Restoration and Outer Rotation (figure 17 below):
   a. When the fetal head was delivered, the fetal shoulders diameter fell along the oblique diameter of the pelvis
   b. For the fetal head and shoulders to also be delivered, the occipital rotated 45 degrees to the left called a reset
   c. Shoulders can continue to decline into the pelvic cavity
   d. When the front right is rotated 45 degrees forward, the fetus transferred to a shoulder diameter consistent with the longitudinal direction of the pelvic outlet
   e. The occipital needs to continue to turn 45 degrees to the left in order to maintain fetal head and shoulder vertical relationship

7. Fetal shoulder and fetus delivery:
a. After completion of the external rotation of the fetal head, deliver the front right shoulder under the pubic arch  

b. Deliver left shoulder from the front edge of the perineum (figure 18 below)  

c. After shoulders are delivered, deliver the body and legs of the baby  

8. After baby is delivered:  
a. Clean out the neonatal respiratory tract by gently sucking out amniotic fluid with neonatal suction tube  
b. Ensure that there are two clamps on the cord (figure 19 below) & cut between the two clamps  

9. Postpartum perineal care includes perineal suturing:  
a. Divided into three sections: the median perineal incision suture, the left episiotomy suture and right episiotomy suture (figure 20 below)
10. Dystocia:
   a. Insert two plugs of the air bag into the tailbone holes
   b. Simulate difficult labor by means of airbag inflation (figure 21 below)

11. Maternal CPR:
   a. Begin external compression with artificial respiration and observe the chest rise (figure 22 & 23 below)
   b. This is equipped with an electronic monitor system, which will help to judge if the operation is correct
c. Squeezing the red bull allows the carotid pulse to be palpated (figure 24 below)

12. Intramuscular injection:
   a. The left & right arms can be used to practice for intramuscular & subcutaneous injection blocks.
   b. In order to effectively use the left arm, the injection block is rotatable

13. IV Injection & Transfusion:
   a. Right arm has a vein that can be used to practice IV injections and transfusions
   b. The liquid can be replaced by clean water

14. Dilated Cervix:
   a. Simulate the puerperal delivery
   b. Allow to have vaginal inspection
   c. Record the extent of cervical dilation

Neonatal Simulator:
1. The neonatal CPR allows for you to perform artificial respiration, external chest compressions with chest rise
2. Simulate neonatal intravenous administration via umbilical vein; drug liquid can be injected too
3. Simulate blood sampling from umbilical cord and blood can be collected too
4. Squeeze the red bulb and the umbilical artery pulse can be palpated (figure 25 below)
Nasal Feeding:
1. Simulate nasal feeding and drug administration with neonatal left nasal cavity
2. Infusion bag, located at the bottom of the right belly, is a drainage pipe for nasal feeding

IV Injection & Transfusion:
1. Right arm has a vein that can be used to practice IV injections and transfusions
2. The liquid can be replaced by clean water

Bone Marrow Puncture:
1. Two legs are interlinked
2. Select one of them and inject blood into it
3. The right leg allows tibia puncture and there will be a “pop” feeling and the bone marrow can be collected
4. The left leg allows for intravenous injection

Notice:
- During childbirth or emergency training, don’t mix the power lines of these two electronic boxes
- Full lubrication is necessary before all the intubation operation to ensure the smooth operation and extend the simulator’s life
- After an extended IV injection training, the puncture and vessels should be replaced. The skin and vessel can be bought separately.

Guarantee and Maintenance:
- After the training session are finished, take off the transfusion bag, pour its blood into the reservoir vessel. Reconnect the transfusion bag to the venous system and add rinsing into transfusion bag repeatedly to swash the whole venous system. Connect the front opening to the water channel or basin
- When the whole venous system is clean, close the catheter clip and take off the transfusion bag. Lift up the arm and wipe out the water. Use water soluble sanitizer and water to clean the arm surface
- Do not use simulative blood for intramuscular injection. Do not use blunt syringe needles because blunt needle will cause loophole of the vessels. Small needles are recommended.
- Please use soap to clean the simulator surface. Do not mark with ballpoint pen or any other color pen as these are difficult to rinse.
- Do not use presswork with printed ink to pack the simulator.
- The simulator can be kept in a carton. Do not place weight on it.
- Keep the simulator in a dry place in case of age acceleration.

### Packing List

<table>
<thead>
<tr>
<th>Item Specification</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maternal and neonatal childbirth emergency training manikin</td>
<td>1</td>
</tr>
<tr>
<td>Instruction manual in English</td>
<td>1</td>
</tr>
<tr>
<td>Cervix modules (replaceable parts) 6 pcs/set</td>
<td>1</td>
</tr>
<tr>
<td>Perineum suturing modules (replaceable parts) 3 pcs/set</td>
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<tr>
<td>Postpartum uterine bleeding large uterus</td>
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<tr>
<td>Normal newborn infant with umbilical cord and placenta</td>
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<tr>
<td>Neonatal Transfusion Simulator</td>
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<tr>
<td>Adult and neonatal tracheal cannula</td>
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<tr>
<td>Umbilical cord</td>
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<tr>
<td>Umbilical cord clamp</td>
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<tr>
<td>Adjustable IV stand</td>
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<tr>
<td>Transfusion bag</td>
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<tr>
<td>Syringe 5ml &amp; 50 ml</td>
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<tr>
<td>Rubber tourniquet</td>
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<td>Clamp</td>
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<tr>
<td>Stethoscope</td>
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</table>
Maternal Simulator

Features:
1. The model consists of adult female torso, full-term fetus.
2. The model with realistic rib, heart, lungs and other anatomical structure
3. Automatic delivery system, process through the delivery device fully simulate the real delivery to achieve position rotation
4. Delivery speed can be adjusted
5. Practicing, examining the fetal heart sound frequency, heart rate range of 60 - 180 times / min
6. With two months of pregnancy in simulated uterine size, can be filled with gas
7. A flexible joints, limbs soft full-term fetus

ITEM # UM-205

Vacuum Deliver Simulator

Features:
Smooth, soft skull with fontanelles for realistic vacuum delivery

ITEM # UM-206

Difficult Labor Simulator

Features:
The simulator can demonstrate all kinds of difficult deliveries.

ITEM # UM-207

Leopold Maneuvers Simulator

Features:
1. The automatic birthing system rotates baby as it moves through the birth canal.
2. The model shows seven stages of birth: engagement—descent—flexion—internal rolling—spread—reposition and external rolling—childbirth.
ITEM # UM-208

Advanced Childbirth Skill Training Simulator
Features:
1. An anatomically correct pelvic model with fetus and placenta to give students experience with multiple technique and procedure for emergency childbirth.
2. Twinborn (one infant boy and one infant girl) presentation and delivery.

Optional Module.
1. C-section. UM-209
2. Urethral Cauterization. UM-2010
3. Placenta Retention. UM-2011

ITEM # UM-2012

Maternity Examination Simulator
Feature:
1) Palpation (four maneuvers of Leopold)
2) Pelvic measurement
3) Mammary nursing training
4) Squeeze the bulb to inject the air into the uterus, which realistically simulates real state of a pregnant belly.
ITEM # UM-2013

Maternity Examination Simulator (with FHS)

Features:
- Simulates a torso of adult female in supine position.
- Consists of breast, pubic symphysis, pelvis and fetus, etc.
- Supports practice in Leopold Maneuver, fetal heart sound ascultation, external pelvic measurement and mammmary care.
- Manually squeeze the bulb to inflate the uterus to adjust its size to be close to real human status.
- Necessary bones for abdominal measurement and pelvis measurement engraved in the simulator, which makes the palpation more realistic.
- The speed and volume of the fetal heart sound can be adjusted anytime, FHR: 80 - 180 bpm, and it varies with the frequency.

ITEM # UM-2014

Advanced Childbirth Education Training Simulator

Features:
1. An anatomically correct pelvic model with fetus and placenta to give students experience with multiple technique and procedure for emergency childbirth.
2. Twinborn (one infant boy and one infant girl) presentation and delivery.
3. Can practice and master the comprehensive skills of normal labor, abnormal labor, midwifery and perineum protection.
4. Leopold Maneuver can be practiced in this model.

ITEM # UM-2015

Fundus of Uterus Exam.& Evaluation Simulator

Features:
1. With normal physiological changes of the postpartum women, provide assessment of postpartum fundus of uterus and massage skills training;
2. Hip joint is movable and can be placed correct body position;
3. Realistic anatomical landmark of united bones of toes;
4. Interchangeable Uterus:
   1) Normal uterus
   2) Postpartum uterus of the first hour
   3) Postpartum uterus of the second day
   4) Postpartum uterus of the second week
   5) Callous uterus with good contraction
   6) Soft uterus without good contraction
5. Expansion of vaginal orifice;
6. Easy to separate the labium minus and expose the vagina;
7. Lear energy of cunnus.
ITEM # UM-2016

**Pelvimetry Demonstration Model**

**Features:**
1. Model for adult pelvis, real size, shortage of anatomical structures
2. Show the pelvic cavity surface of three products: pelvic entrance face, in the pelvis, pelvic exports
3. Including hip, the sacrum, sacral promontory, coccyx, ischial spine, sacroiliac joints, iliac plane promontory, toe bone joint, to 4, 5, lumbar structure, etc.

ITEM # UM-2017

**Pelvis with Fetal Heads Model**

**Features:**
1. That can be observed during childbirth fetal relationship with the position of the pelvis.
2. Can be intuitive demonstration, declining, prone lexion, rotation, backstretch, reset and external rotation, fetal childbirth, etc. The whole process of delivery.
3. Can be used to demonstrate the use of forceps, when childbirth fetal attractor.

ITEM # UM-2018

**Gynecological Examination Simulator**

**Features:**
1. Palpation of normal and pregnant uterus
2. Bi-manual pelvic and tri-manual pelvic examination
3. Vaginal examination
4. Contraceptive instrument insertion and removal
5. Observation of uterus, ovary, fallopian tubes, and ligament teres.

ITEM # UM-2019

**Comprehensive Gynecological Examination Torso**

**Features:**
1) Replica of a female adult torso with accurate anatomical structures such as bilateral clavicles, armpit, breast, ribs, sternum, xiphoid, perineum and anterior superior spine, etc.
2) Made from high polymer material
3) Supports palpation for breast lumps, and all kinds of common mammary tumors are embedded in the different positions of the breast, including malignant tumor with hard texture and not-smooth surface, benign tumor with relatively soft texture and smooth surface and lymph gland, etc.
4) Simulates normal and abnormal uterine palpation, supports bi-manual pelvic and tri-manual pelvic examination.
5) Visual recognition of normal and abnormal cervixes.
6) Vaginal examination by means of speculum and colposcopy.
7) Digital examination of rectum
8) Female catheterization
9) The perineum part can be opened, which makes it easy to replace the uterine accessories.
ITEM # UM-2020

**Gynecological Training Model**

**Features:**
1. Normal and abnormal uteri palpation
2. Bi-manual and tri-manual pelvic examination
3. Vaginal speculum and colposcope examination
4. Visually observe normal and abnormal lesion cervix
5. Placing and removal of IUD
6. Observe the septal size and position
7. Observe the uterus, ovary, fallopian tube, round ligament and other structures
8. Normal and abnormal cervix models
   1) normal cervix
   2) IUD placing and removal from normal cervix
   3) chronic cervicitis
   4) cervical laceration
   5) cervical polyp
   6) cervical inflammation Naboth cyst
   7) acute cervicitis
   8) cervical adenocarcinoma
   9) trichomonad cervicitis
   10) cervical verruca acuminata
   11) cervical vitiligo
9. Normal and abnormal uteri and accessories models
   1) normal uterus and accessories (uterine anterior wall is transparent, and it supports placing and removal of IUD)
   2) myoma of uterus
   3) uterus with right hydrosalpinx
   4) uterus with right salpingitis
   5) uterus with right oviduct tubercle
   6) uterus with right tubal ovarian cyst
   7) uterus with obvious anteversion and anteflexion
   8) uterus with obvious hypokinesias and retroflexion
   9) gravid uterus (five-month fetus)
   10) ectopic gestation
   11) salpingectomy

ITEM # UM-2021

**Gynecological Examination Model**

**Features:**
1. Hysteroscopy checking
2. Laparoscopic visualization checking, allow to observe the uterus, accessories and round ligament, etc.
3. Palpation examination for pregnancy and postpartum uterine models
4. Place and remove IUD
5. Female condom can be used in vagina, and training in placing and removing contraceptive sponge, cervical cap, etc.
6. Replaceable cervix and uterus
7. Normal and abnormal uterus and accessories model & parts for bimanual examination and vagino-recto-abdominal examination
   1) Normal uterus and accessories (IUD can be placed into or removed from the anterior uterine wall.)
   2) Fibroid
   3) Uterus with hydrovarium of left fallopian tube
   4) Uterus with right salpingitis
   5) Uterus with malformation and right salpingitis
   6) Uterus with obvious antversion and anteflexion
   7) Uterus with left ovarian cyst
8. Normal and abnormal cervix models (for colposcopy)
   1) Normal cervix
   2) IUD placed into or removed from normal cervix
   3) Chronic cervicitis
   4) Cervix uteri
   5) Cervical polyp
   6) Cervical inflammation Naboth cyst
   7) Acute cervicitis
   8) Cervical adenocarcinoma
   9) Trichomonad cervicitis
   10) Cervical verruca acuminata
   11) Cervical vitiligo

9. Normal and abnormal uterus examination model (for hysteroscopy)
   1) Normal uterus
   2) Endometrial polyp
   3) Endometrial hyperplasia
   4) Myoma of uterus
   5) Early stage of uterine body cancer
   6) Late stage of uterine body cancer
   7) Uterine fundus cancer

10. Pregnant and postpartum uterine models
    1). 6-8 weeks early pregnancy uterus
    2). 10-12 weeks early pregnancy uterus
    3). 20 weeks pregnancy uterus
    4). Simulation of postpartum 48-hours uterus

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ITEM # UM-2022

**Prenatal Cervix and Birth Canal Model**

**Features:**

1. Six labor stations selected to represent conditions of the cervix and vagina prior to labor, during labor, and at birth.
2. Stations illustrated are: STA-5 prior to onset of labor; STA-4 cervix partially effaced; STA-3 cervix fully effaced; STA-0 fetal head at plane of ischial spine; STA-2 cervix nearing full dilation; STA-5 crowning of fetal head.

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ITEM # UM-2023

**Perineum Suturing Training Model**

**Features:**

1. Right posterior incision, left posterior incision or median incision can be selected to exercise perineum cutting and suturing.
ITEM # UM-2024

Perineum Cutting & Suturing Training Simulator

Features:
1. This model is designed for practice of perineum cutting and suturing.
2. The main structure of the simulator is a perineum, which is made of simulative foam, and the inner muscle is soft PVC. The simulator is mounted on a plastic framework.
3. There are two handles in the back and bottom of the simulator to adjust tension of the perineum.
4. Right posterior incision, left posterior incision or median incision can be selected to exercise perineum cutting and suturing.

ITEM # UM-2025

Breast Examination Model

Features:
Palpation of malignant tumor, benign tumor, lymphaden and lobulus accremention
ITEM # UM-2026

**Breast Feeding Simulator**

**Feature**
1. Simulate a female upper body with moderate-size breasts with realistic soft skin and touch feeling;
2. Can be tiled on the desktop to demonstrate teaching;
3. With cloth elastic and can be worn in front of breast for self-examination, adjustable length and tightness;
4. Comes with a newborn baby with flexible joints and soft limbs, which makes the demonstration and management of breastfeeding more vividly.

ITEM # UM-2027

**Inspection and Palpation of Breast Model**

**Features:**
1. This model can be used to exercise mammary tumors palpation skill.
2. In order to facilitate training process, we implant benign tumors and malignant tumors into the mammary gland.
3. Basing on various position, size, texture, the students can identify the tumor is benign or malignant.

ITEM # UM-2028

**Inspection and Palpation of Breast Model (milk spilling)**
ITEM # UM-2029

**Transparent Curettage Model**

**Features:**

1. Transparent casing, solid, beautiful and visible of the pelvic internal structure, operation steps can be observed if they are correct;
2. Good flexibility of vagina, vaginal speculum can be used, soft and elastic uterine material, realistic shape;
3. Soft touching feeling of genitals, simulation shape, correct structure of the labia majora, labia minora, urethra, vagina;
4. Realistic internal anatomical structure: uterus, fallopian tube, ovary, bladder, ureter;
5. Around 6-7 weeks of gestation sac can be seen in the transparent uterus;
6. Urethral catheterization operation, female bladder irrigation
7. Uterine dilator and curet can be inserted into cervix

ITEM # UM-2030

**Artificial Abortion Simulated Uterus**

**Feature:**

1. Three pregnant uterus can be opened and add to simulated gestation sac;
2. Uterine dilator and curet can be inserted into cervix; can simulate curettage be operation and the simulated gestation sac can scraped;
3. With basement support and can fix the uterus in the right position.

ITEM # UM-2031

**Contraception Guidance Model**

**Features:**

1. The model is designed with the structure of the female inner genital organs. It can help to practice the placement of contraception device.
2. Some parts shown as below: bladder, Vagina, Pubic bone, uterus, rectum, and coccyx.
ITEM # UM-2032

IUD Training Model

Features:
1. The good shape of the model makes the training clearly.
2. Normal and abnormal positions of uterus can demonstrate the uterine anteversion and retroversion.
ITEM # UM-2033

IUD Training Simulator

Features:
1. The model accurately show uterine lateral section, with transparent membrane covering the model, can clearly observe IUD insertion and placement process.

ITEM # UM-2034

Female Contraception Simulator

Features:
1. Imported material, high-quality and environmental protection.
2. Simulate anteversion uterus, fallopian tubes, cover in the pelvic cavity.
3. Expansion of vagina, the use of vaginal speculum, operation of female condom, contraceptive sponge and cervical cap.

ITEM # UM-2035

Female Contraception Practice Simulator

Features:
1. Imported material, high-quality and environmental protection.
2. Simulate anteversion uterus, fallopian tubes, labium, vagina and transparent abdominal wall cover in the pelvic cavity.
3. Expansion of vagina, the use of vaginal speculum, operation of female condom, contraceptive sponge and cervical cap.

ITEM # UM-2036

Cervical Lesion Model

Features:
Cervical lesion diagnosis and differential diagnosis;
Made from high polymer material, environmental protection and high simulation;
Six diseased cervix are mounted on a board, easy for teaching demonstration in the class;
Includes: linear laceration, acute suppurative cervicitis, canceration, polyp, infectious cervical glands (follicle) and cyst.
ITEM # UM-2037

Subcutaneous Embedded Contraception Arm
Features:
1. Imported material, realistic model, simulating left upper arm and lampros layer, and be mounted on the base plate.
2. Exercise of subcutaneous embed and dislodging contraceptive material;
3. Skin can be fixed

ITEM # UM-2038

Male Condom Model
Features:
1. Mounted on a lucite stand
2. Penis is erect
3. Simulation of ejaculation

ITEM # UM-2039

Vaginal Culdocentesis Simulator
Features:
1. The simulation model is made from advanced materials with correct anatomical positions, soft and elastic skin, true feeling and real pathological tissue.
2. Penetrate into median fornix posterior, which is 1cm inferior to the joint of cervix and vagina mucosa, parallel to cervical canal with a No.7 puncture needle, and light red liquid extraction means successful centesis.
3. If puncture isn’t operated according to the conventions, e.g. if the operated pierces into the rectum, there will be yellow liquid extraction, which shows puncture failure.
4. If operator doesn’t insert the needle according to the convention but pierces bilaterally without destination, it will hurt surrounding organs, which shows puncture failure.
ITEM # UM-2040

Leopold’s Maneuver, Anal and Vaginal Examination Simulator
Features:
1. Replica of an adult female lower torso, which consists of abdominal cavity and pelvic cavity, with accurate anatomical structures and ribs can be palpated.
2. Adjust the abdomen by aeration to simulate the belly in varying pregnant period, and perform leopold’s maneuver training and assessment.
3. Ascertain the fetal position by vaginal examination or anal examination.
4. Supports external pelvimetry.

ITEM # UM-2041

Advanced Abdominal Palpation & Delivery Mechanism Integrated Simulator
Features:
1. Demonstrate the fetus, umbilical cord and placenta of vacuum-assisted delivery, flexible fetal joint, and multiple normal and abnormal positions of fetal delivery can be showed.
2. Equipped with manual delivery mechanical parts; by manual, the whole delivery process, including engagement, descending, flexion, internal rotation, extension, restoration, external rotation and fetal delivery, can be showed.
3. Can practice and master the abnormal comprehensive skills of normal labor, labor (dystocia), midwifery and perineum protection.
4. Equipped with soft elevated cushion for Leopold Maneuver practice.
5. Equipped with models for cervical and vaginal examination practice before and at birth.

ITEM # UM-2042

NSV Model
Features:
1. Simulate an adult male genital structure realistically.
2. Mainly for training vasectomy operation design.
ITEM # UM-2043

Circumcision Model
Features:
1. Simulate an adult male’s vulva;
2. Help students to make resection for overlong prepuce, i.e., make a straight cut at the back of the penis, and crosswise cut a circle of redundant prepuce.
3. With spare parts for replacement, the model can be used repeatedly;
4. Comes with simple surgical instruments for training use.

ITEM # UM-2044

Infant Nursing Manikin
Features:
1. Realistic fontanels, coronal suture and parietal suture.
2. Place nasal and oral gastric tubes.
3. Rectal temperature measurements.
4. Umbilicus nursing.
5. Realistic testicles in the scrotum.
6. Training of bathing, lactation, lavage, etc.

ITEM # UM-2045

Pediatric Urethral Catheterization Model
Features:
1. A three-year-old child manikin with flexible limbs and easy to realize various body positions.
2. When the catheter is inserted into the urethra, goes through the urethral sphincter and finally reaches the bladder, there will be real resistance and pressure.
3. Designed based on Pediatric anatomical feature “higher location of the bladder”.

ITEM # UM-2046

24 Weeks Premature Infant Model

ITEM # UM-2047

30 Weeks Premature Infant Model

ITEM # UM-2048

Newborn Baby

ITEM # UM-2049

Infant With Umbilical Cord

ITEM # UM-2050

Infant without Umbilical Cord
Comprehensive Puncture and Percussion Examination Skills Training Simulator

Features:

1. Realistic Manikin
   1) Automatic carotid artery, right femoral artery pulse and left femoral artery pulse, realistic palpation feeling;
   2) Percussion: supports training in pneumothorax, hydrothorax, hepatic dullness and shifting abdominal dullness in abdomen
   3) While liver puncture operation, palpation of liver area, patient may groan; Liver puncture with breath holding prompts to limit puncture time
   4) Realistic and obvious body surface symbol: sternomastoid muscle, stern angle, appendix ensiformis, clavicle, cervical rib, anterior superior, etc;
   5) Replaceable bone marrow puncture modules
   6) Voice prompts for proper puncture and wrong puncture
2. Convenient and flexible console
   1) Convenient to move, simple fixation and stable
   2) Manikin’s body position can be easily changed according to operation, such as supine position, sitting position, semi-sitting position, right arm reclining, prone position, antverted sitting position, etc;
   3) Buttons on the control panel for choice and comes with a human torso and prompts for needle penetrating sites.
3. Realistically simulate operation process, provide 10 puncture sites:
   1) right internal jugular venipuncture
   2) right subclavian venipuncture
   3) right femoral venipuncture
   4) left pneumothorax puncture
   5) left pleural effusion puncture
   6) liver puncture and pus aspiration
   7) abdominocecostasis
   8) pericardiocentesis
   9) intracardiac injection
   10) anterior superior iliac spine bone marrow puncture
4. With touch-button on the control panel, illustrate the clinical meaning and operation methods of puncture sites in detail.
5. Before puncture, there will be workflow explanation; and there will be voice prompts and indicator light prompts for correct or wrong operation position;
6. Available voice prompts to explain operation in training mode; unavailable of this function in test mode
ITEM # UM-2052

Abdominal Shifting Dullness Percussion and Abdominocentesis Simulator

Features:
1. Replica of a standard patient, which features soft texture and realistic touch feeling.
2. Accurate anatomical landmarks such as inferior margin of costal arch, cuspides, straight muscle of abdomen, umbilicus, groin, anterior superior spine and crista iliaca, etc.
3. Take left or right arm recumbent for abdominal shifting dullness percussion training.
4. Take incline or left arm recumbent for abdominocentesis.
5. Obvious "POP" feeling after successful puncture and simulative abdominal hydrops can be extracted.

Note: The skin and all kinds of puncture cavities are replaceable.

ITEM # UM-2053

Electronic Pleural Puncture of Back Simulator

Features:
1. The manikin backward sits in the armchair, arms put on the edge of the chair back, and head puts in the forearm, which meets clinical puncture requirements.
2. Distinct body surface symbols, can touch armpit, the seventh cervical vertebra, thoracic vertebra, shoulder blade bone, ribs, intercostal space, etc.
3. Puncture can be performed at anterior axillary line, midaxillary line, posterior axillary line or linea scapularis, and there will be obvious "Pop" feeling when the needle penetrates into the pleural cavity, and simulative pleural effusion can be extracted if the puncture is successful.
4. Lumbar puncture
5. Puncture sites equipped with electronic detecting system, and there will be voice prompts for proper puncture or wrong puncture.
6. Same puncture site support repeated puncture training.
ITEM # UM-2054

Central Venepuncture Intubation Training Simulator
Features:
1. The model takes the hyperextension of the shoulder, with head turning to the left;
2. Accurate anatomical structure such as the triangle area which formed by the clavicular head, sternum head and clavicle of the sternocleidomastoid, can be easily sensed to ascertain puncture site.
4. Support internal jugular vein puncture intubation technique training; subclavian venipuncture intubation technique training; and supraclavicular venipuncture intubation technique training. And there will be obvious “Pop” feeling when the needle penetrates into the vein and simulative blood can be extracted.
5. Supports the heart floating swan-ganz intubation and CVP measurement training.

ITEM # UM-2055

Electronic Thoracic cavity Closed Drainage Simulator
Features:
1. Mechanical breathing device: the electronic standardized patient with spontaneous breathing, chest and abdominal breathing movement;
2. Collarbone midline (double side) before the second rib, liquid (double side) between the front rib or hydraulic line 5. Respectively implemented drainage tube placement, and visible sealed bottle inside liquid level fluctuates up and down with the breath;
3. Possible postoperative drainage tube nursing training.

ITEM # UM-2056

Bone Morrow Puncture Simulator
Features:
Accurate cutting marks: top notch on the sternum, before the iliac spine can obviously touch, such as easy to puncture positioning; Feasible iliac spines centesis on before training, and sternum punctures handle, pierce through simulation marrow cavity has obviously lost feeling, and can extract the bone marrow.
ITEM # UM-2057

**Electronic Liver Abscess Puncture Simulator**

Features:
1. Liver abscess puncture, can find liver area pressure point, have the breath training language tips, can puncture with breath rhythm;
2. Puncture has conspicuously failed feeling, can take out simulation liver ichor;
3. Take half lying position (simulation) in severe patients thoracentesis, buckle diagnosis available flatness, puncture has conspicuously failed feeling, can take out your chest effusion;
4. Electronic surveillance: needle along the lower ribs on the edge of the vertical Pierce, piercing the error with language.

ITEM # UM-2058

**Advanced Pericardium Puncture Simulator with intracardiac injection**

Features:
1. Simulation model in inclining clinostatism with soft texture, true feeling and realistic appearance.
2. Accurate anatomical positions: such as sternum, xiphoid process, ribs, and intercostal space and so on, which can be obviously felt.
3. Puncture training in pericardial area and inferior to the junction of xiphoid process and the 7th costicartilage is available, and when the puncture needle enters pericardial cavity, there will be liquid with negative pressure.

ITEM # UM-2059

**Full-functional Venipuncture Simulator**

Features:
1. Carotid pulse, electrical pulses;
2. Practical training, internal jugular vein puncture of subclavian vein puncture training, external carotid vein puncture, femoral vein puncture training, puncture has frustrated feeling, can take out simulation venous blood;
ITEM # UM-2060

**Lumbar Puncture Simulator**

Features:
1. Realistic simulated waist anatomical structure with skin and subcutaneous tissue
2. Touch feeling as in human body when the spinal type needle penetrates into all layers of organization
3. A feeling of "pop" can be felt when the puncture is correct, collect cerebrospinal fluid and measure pressure of cerebrospinal fluid in the special cases
4. With a part of the lumbar spine skeleton model, help understand the structure and function of the waist
5. One of the puncture modules can directly observe the anatomical characteristic of the lumbar spine skeleton and directly see the spinal type needle position

ITEM # UM-2061

**Full-functional Central Venous Injection Torso Model**

Features:
1. Internal jugular artery, carotid, subclavian vein, femoral artery and vein
2. Puncture training of internal jugular vein, subclavian vein and femoral vein
3. Long cannula catheterization training
4. Simulative carotid and femoral artery pulse
5. Subclavian anatomy structure
6. Femoral anatomy structure

ITEM # UM-2062

**Central Venous Puncture and Catheterization Simulator**

Features:
1. Precise anatomic structure: suprasternal notch, clavicle, right cervical ribs, sternocleidomastoid and etc.
2. Lifelike vessel structure: internal jugular vein, external jugular vein, subclavical vein and brachiocephalic vein.
3. The puncture of internal jugular vein and Subclavical vein and heart catheterization can be practiced.
4. The skin and veins can be replaced and students will feel an apparent "pop" when the needle has been thrust into the vein.
ITEM # UM-2063

Peripheral Puncture and Central Venous Puncture Simulator

Features:
1. The model is a simulative adult torso with right arm. There are apparent anatomical marks: clavicle, suprasternal notch, sternocleidomastoid muscle, pectoralis major muscle, ribs and deltoïd muscle.
2. Lifelike veins: superior vena cava, internal jugular vein, subclavical vein, cephalic vein, basilic vein and median cubital vein, etc.
3. With apparent anatomical marks, the model can be used to practice the puncture of internal jugular vein, subclavical vein, cephalic vein and heart catheterization.
4. The skin and veins can be replaced. Students will feel an apparent “pop” when puncture needle has been thrusted into the veins.

ITEM # UM-2063-A

PICC Simulator

Features:
The model is suitable for central venipuncture of internal carotid vein and subclavical vein and peripheric venipuncture (arm veins) of cephalic vein. The cervical veins and arm veins can be filled with simulative blood.

Features:
1. The model is a simulative right half of adult torso with right arm. There are apparent anatomical marks: clavicle, suprasternal notch, sternocleidomastoid muscle, pectoralis major muscle, ribs and deltoïd muscle.
2. Involved superior vena cava, internal jugular vein, subclavical vein, cephalic vein, basilic vein and median cubital vein, etc.
3. With apparent anatomical marks, the model can be used to train puncture and catheterization of internal carotid vein, subclavical vein, cephalic vein and heart catheterization.
4. The skin and veins can be replaced. Students will feel an apparent “POP” when puncture needle penetrates into the veins.
5. The heart floating swan-ganz intubation can be exercised.
ITEM # UM-2064
Neonatal Peripheral and Central Vein Intubation Simulator

Features:
1. Transparent chest wall and made of special material, perspective effect of bilateral venous channel;
2. Correct anatomical position: basilic vein, cephalic vein, jugular vein, subclavian vein and superior vena;
3. Direct observation of rib and heart, measure the correct inserted length of catheter;
4. Transparent part of the superior vena and visible of the ductal position in the case of correct catheterization, or the catheter is invisible;
5. Exercise of standard venous catheterization position;

ITEM # UM-2065
PICC Intervention Simulator

Features:
1. Adult’s upper body made from special material, and the internal anatomical structure is distinct.
2. Transparent cyclic system: cephalic vein, basilic vein, jugular vein, subclavian vein, precava and heart; the whole process of the catheter entering precava can be seen.
3. Demonstration and practice of central and peripheral venipuncture can be done.
4. Osseous landmarks are distinct, which is good for practice in measuring the length of the intubated catheter.

ITEM # UM-2066
Thoracentesis Drainage Simulator

Features:
1. Pneumothorax decompression, closed chest drainage of hydropneuemothorax and drainage tube care after operation can be practiced.
2. There are two visual windows in right thorax to show each layer of anatomical structures.
3. Pneumothorax decompression training, closed drainage of hydropneuemothorax training and thoracentesis training in the left thorax.
4. The color, volume and viscosity of the drainage solution can be regulated.
5. The puncture cushion and drainage wounds cushion can be replaced.
ITEM # UM-2067
Maxillary Sinus Puncture Training Model
Features:
1. Maxillary sinus puncture can be done via left and right nose, and sense of breakthrough can be felt if the puncture operation at inferior nasal concha is successful, and it supports maxillary sinus fester flush, and liquids and fester flows out of middle nasal meatus the maxillary sinus opening during flush.
2. Replica of a male head, with human skin texture and realistic touch feeling.
3. Supported repeated puncture training.
4. Small size and easy moving.

ITEM # UM-2068
Pneumothorax Treating Simulator
Features:
1. The half body male structure can be practiced for pneumothorax decompression.
2. Use pneumothorax needle to exercise decompression of tension pneumothorax.
3. The lung bag can be used repeatedly.

ITEM # UM-2069
Venous Intervention Simulator
Features:
1. Adult's upper body, realistic morphology and true texture.
2. Standard puncture position and obvious marks on body surface, easy for location.
3. Vein catheterization
   * Median cubital vein, internal jugular vein and subclavian vein all allow venous puncture practice. And there's backflow of blood for proper puncture;
   * Can simulate difficult intubation;
4. Chemotherapy pump

* Show the path and operation method of embedding chemotherapy pump internally;
* Clearly react all the possible abnormal conditions caused by the pump in the body: chemotherapy pump incline, shifting and rolling over;
* Available exercise on touching where to place the internal chemotherapy pump;
* Practice in disinfection before administration and injection;
* Equipped with 3 different thoracic muscle modules to simulate shallow, moderate and deep embedment of chemotherapy pump;
5. Show the path and method of subcutaneously central vein catheterization.
6. Allow operation such as medicine transfusion, fluid infusion, blood specimen collection, heparinization and nutrition supply treatment, etc.
ITEM # UM-2070

**Peritoneal Dialysis Simulator**

Features:
1. The peritoneal dialysis model is specially designed for medical persons.
2. Standard position of ostomy and simulative liquid will flow out.

ITEM # UM-2071

**Rectal Touch Examination Simulator**

Digital rectal examination is the most necessary and simple examination method for BPH and rectal neoplasms. The model features clear anatomy structure of anus, rectum and prostate, vivid appearance, realistic touch feeling, easy replacement of prostate and rectum connection parts.

Features:
1. Prostate palpation:
   1) Normal prostate: chestnuts size, can touch sulcus of prostate;
   2) BPH: I degree of hyperplasia, egg size, shallow of sulcus of prostate;
   3) BPH: II degree of prostatic hyperplasia, duck egg size, absent of sulcus of prostate;
   4) BPH: III degree of prostatic hyperplasia, severe prostatic enlargement, regular surface and hard texture, goose' egg size, cannot touch the bottom of the prostate;
2. Rectum palpation:
   1) Normal rectum
   2) Rectum polyps: Most is solitary, with peduncular polyp;
   3) Early rectum cancer: Palpable of tumor nodules on rectal wall surface, hard texture;
   4) Advanced rectum cancer: Little big tumor nodules are palpable on rectal wall surface, with uneven surface, hard texture, the late development stage of rectum cancer.

ITEM # UM-2072

**Rectal Touch Examination Simulator**

Features:
1. Replica of an adult buttocks with realistic appearance;
2. Made from high polymer material, environmental protection, and high simulation
3. Rectal examination body position: left lateral position
4. 13 kinds of intestines problem and 9 kinds simulative faeces for recognition
5. The simulative faeces can be easily put into its fixator, which makes it convenient for training and assessment
ITEM # UM-2072-A

**Prostate Examination Simulator**

Features:

1. Benign, slightly enlarged, but normal prostate gland simulates benign stage.
2. Prostate with two discreet, hard nodules (one is at left lobe; the other is at right lobe simulate beginning stage.
3. Prostate with easily palpable large mass simulation intermediate stage. The small nodule has increased in size and has become an external hard mass on the surface of the gland.
4. Prostate with malignant invasive cancer simulation terminal stage. This gland is totally replaced with carcinoma. The entire gland will feel hard and irregular.

ITEM # UM-2072-B

**Varicose Vein Model**

Features:

1. Replica of an adult lower limb with obvious anatomical marks, including groin, complete thigh, shank and foot.
2. Made from high polymer material, environmental protection and high simulation.
3. Manually squeeze the bulb to simulate femoral artery pulse.
4. Supports great saphenous vein and calf vein group resection, great saphenous vein is very obvious, easy to ascertain during operation.
5. Supports incision suture training.
7. The skin and vessels are replaceable.
ITEM # UM-2073

**Surgical Suture & Bandage Model**

**Features:**

1. Replica of an adult torso, 20 kinds of surgical incision available for recognition, including thyreoidectomy, sternotomy (catheter drainage); mammectomy; pneumothorax catheter drainage; body odor surgery, breast abscess incision, femoral artery puncture incisions, cholecystectomy (catheter drainage), exploratory laparotomy abdominohysterectomy, appendicectomy, colostomy, ileostomy, bladder colostomy surgery, inguinal hernia, nephrectomy, laminotomy, phase II pressure ulcers, amputation, thoracotomy;
2. Used with real skin stapler to make suture for some incisions, easy for teaching demonstration.

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ITEM # UM-2074

**Sengstaken-Blakemore Tube Training Simulator**

**Features:**

Model for adult men, anatomical symbol, with the real internal organs, low real simulated gastric venous bleeding, effective rescue, could be successfully stopped bleeding after the success of the low urethral catheterization with simulated urine flow low venipuncture failed are obvious, right puncture can take out the venous blood, and infusion operations can be performed

**Skill points:**

- Low three cavity two capsule canal oppression
- Low urethral catheterization When a gastric tube, and the method of gastric lavage
- Low atomization inhalation therapy
- Low venipuncture
- Low intramuscular injection
- Low subcutaneous injection
- Low oxygen inhalation method
- Low enema, colostomy mouth nursing and other nursing procedures

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ITEM # UM-2075

**STD Test Model**

**Features:**

1. Replica of an adult lower torso with realistic penis and touch feeling;
2. Made from high polymer material, environmental protection, high simulation;
3. There’s a beansize excrecescences at coronary sulcus, can be used for lesion diagnosis;
4. Squeeze the red and swollen urethral orifice, there will be purulent secretion overflow, which can be used for smear exercise.
ITEM # UM-2076

Male Genital Lesions Simulator

Features:
1. Mainly used for child thoracocentesis training. Can perform standard thoracocentesis operation.
2. Obvious marks on the body surface. Can touch the ribs and intercostal space.
3. Can perform pleural effusion puncture in the bilateral posterior axillary line and the scapular line.
4. Correct puncture operation can extract pleural effusion.
5. Made of high quality mixed rubber. Size of a real child with accurate anatomic structure, vivid and soft.
6. Convenient to clean. Can be used repeatedly.

ITEM # UM-2077

Cricothyroid Membrane Puncture and Cut Simulator

ITEM # UM-2078

Preoperative Aseptic Technique Simulator

ITEM # UM-2079

Advanced Low-set Bandaging Model

ITEM # UM-2080

Advanced Up-set Bandaging Model

ITEM # UM-2081

Elbow Cavity Injection Simulator

ITEM # UM-2082

Knee Cavity Injection Simulator

Features:
1. It has the characteristics of local anatomy of knee joint, femur, patella, tibia, four biceps femoris muscle and patellar ligament, suprapatellar bursa, synovial plica (fat pad) and lateral collateral ligament of knee. Other structure, apparent surface markers, it can be used to locate the joint correctly.
3. When the puncture site is operated correctly, the model has a corresponding part of the green light display.
4. Standard puncture position, can be injected into the synovial cavity liquid, repeated operation training.
5. Skin replaceable, wash with soap and water.
ITEM # UM-2083

Elbow Cavity Injection Simulator
Features:
1. Standard anatomical structure with internal condyle of humerus, external condyle of humerus, cubital nerve, ulna, radial bone and cavity of elbow joint;
2. Therapy site of golf elbow and tennis elbow;
3. Right arm elbow bend and can rotate along a fixed axis;
4. Used for therapy training of soft tissue intra-articular injection for elbow injury and inflammation.
5. Puncture site training: golf elbow and tennis elbow, alarm after press or puncture.

ITEM # UM-2084

Shoulder Joint Cavity Injection Simulator
Features:
1. Standard anatomical structure, scapula, clavicle, humerus, deltoid, biceps muscle of arm and important ligament of shoulder joint, train palpation technology of shoulder puncture positioning;
2. Standard position study for puncture and injection;
3. Six different parts for puncture and injection
   1) Cavity of shoulder joint (anterior aspect)
   2) Cavity of shoulder joint (rear aspect)
   3) Subacromial bursitis
   4) Acromioclavicular joint
   5) Mecistocephalic tendinous sheath of biceps muscle of arm
   6) Suprascapular nerve block
4. Intelligent evaluation system: the green light on the control box will indicate correct puncture site;

ITEM # UM-2085

Ankle Joint Cavity Injection Simulator
Features:
1. Replica of an adult foot and ankle with obvious anatomical structure, which can be easily found during palpation.
2. Supports intracavity injection at different sites of foot and ankle joints.
3. Indicator lights will be on for correct puncture.
ITEM # UM-2086

Wrist Joint Cavity Injection Simulator

ITEM # UM-2087

Knee Arthroscopy Model

Features:
1. The model shows adult's knee including skin, muscle, femur, tibia, fibula, patella, fat pad of patella, anterior cruciate ligament (ACL) and posterior cruciate ligament (PCL), medial meniscus and lateral meniscus, and complete knee joint cavity.
2. Firmly mounted on the table.
3. Support various arthroscopic operation exercise.
4. The model can be disassembled to make explanation for knee joint function.

ITEM # UM-2088

Elbow Arthroscopy Model

ITEM # UM-2089

Shoulder Arthroscopy Model

ITEM # UM-2090

Hand Arthroscopy Model

ITEM # UM-2091

Ankle Arthroscopy Model

ITEM # UM-2092

Children Thoracic Puncture Model

Features:
1. This model is the head and neck of children, trunk cadre, Using polymer material, Feel real, Realistic shape.
2. Apparent surface markers, can touch armpit, sternum, ribs, etc.
3. Simulated supine position, Bony landmarks, anatomical characteristics of the chest and abdomen.
4. Puncture in axillary line, axillary midline and posterior axillary line, puncture needle into the pleural cavity after a sense of frustration, after the successful puncture can be simulated pleural effusion.
5. Pneumothorax puncture, Simulation of pneumothorax.
6. Puncture site with electronic detection system, the puncture site has voice prompt when right and wrong.
7. The same puncture site can be repeated operation practice.
ITEM # UM-2093

**Children femoral vein and femoral artery puncture Model**

Features:
1. Standardized patient simulating normal children size;
2. Surface is made from the skin with high polymer material, appearance, feel is real, good resistance to acupuncture effect; Children simulation standardized patient in the supine position, regular extrusion hand ball in the groin can produce pulses.

ITEM # UM-2094

**Advanced Bone Marrow Puncture and Femoral Venipuncture Simulator**

ITEM # UM-2095

**Advanced Infant Bone Marrow Puncture Simulator**

ITEM # UM-2096

**Neonatal Umbilical Cord Intubation Model**

ITEM # UM-2097

**Neonatal Lumbar Puncture Simulator**

ITEM # UM-2098

**Advanced Trochar Training Model**

ITEM # UM-2099

**Abdominal Cutting and Suturing Simulator**
ITEM # UM-20100

Surgical Skills Training Model
The model can provide trainings of incision, suturing and ligaturing of skin, blood vessel, intestinal canal and deep tissue.

Features:
1. Skin modules: surgical incision, suture, knotting, trimming and taking out stitches.
2. Intestinal canal modules: two types (20mm & 30mm) to practice forceps holder, incision, anastomosis, knotting and trimming.
4. Deep knotting module: practice deep knotting skills in narrow and small space.
5. With small volume, portable and the modules are replaceable.

ITEM # UM-20101

Advanced Vein Incision Model

Features:
1. The product is constructed with skin and subcutaneous tissue, with clear layer, realistic tissue tension and elasticity.
2. It can perform skin incision, angiodiastasis, knotting, ligation, stop bleeding, trimming, suture, taking out stitches, etc.
3. Each model comes with coarse and fine blood vessels for repeated angiodiastasis, ligation and stop bleeding practice.
4. Each module can be replaced after damaged. It is the best practice ways for beginners to improve surgical suturing skills.

ITEM # UM-20202

Comprehension Surgical Skill Training Kit

Features:
1. Suture training modules
2. Intestinal canal (30mm; 50mm)
3. Vessels
4. Surgical knotting training model
5. Adult suture leg
6. Adult suture arm
7. Suture instruments
ITEM # UM-20203

**Skin and Muscle Suture Practice Pad**

Features:
Can be cut, stitched, stitches the basic skills of the surgical practice

ITEM # UM-20204

**Suture Training Pad (with stand)**

Features:
1. It can be simulate basic surgical skills such as cutting, suturing, bandaging and etc.

JY/L-30016D Multi-functional Cutting & Suturing Pad
Suturing training for kinds of truma shapes and positions
ITEM # UM-20205

Minor Operation Kit

ITEM # UM-20206

Sebaceous cyst Excision Training Pad

ITEM # UM-20207

Surgical Knotting Skill Training Model

ITEM # UM-20208

Multifunction Electronic Knotting Training Model

ITEM # UM-20209

New Knotting Skill Training Model

ITEM # UM-20210

Superficial Knotting Skill Training Model

ITEM # UM-20211

Surface Bleeding Ligation Training Model

ITEM # UM-20212

Isolated Vascular Ligation

ITEM # UM-20213

Thoracic Incision And Suture Model
1) Model for female breast, realistic shape, apparent surface characteristics, can be worn on the model or the student body for operation, practice and examination.
2) Made of polymer material, no environmental pollution, breast palpation with high degree of simulation.
3) For differential diagnosis of breast cyst, lipoma, fibroadenoma, mammary cancer, etc.
4) Left breast can show surgical suture wound.
ITEM # UM-20214

Surgical Suture Arm

Features:
1. With features of lifelike shape and realistic touch, the model suitable for cutting, suturing and bandaging exercise.
2. With wonderful elasticity and flexibility of skin, each model can be used for hundreds of times.

ITEM # UM-20215

Surgical Suture Leg

ITEM # UM-20216

Tenorrhaphy Model

ITEM # UM-20217

Wound Hemostasis & Suture Module

ITEM # UM-20218

Vasculature Operation Model

Features:
1. Provide vein and artery blood vessels of different inner diameters to know different suture distance, tension/technique among main artery, vein and arteriole.
2. High emulation and strongly elastic vessels
3. Equipped with vessel fixator, easy to operate.
4. Supports repeated practice.
ITEM # UM-20219

**Debridement Suture Head Training Model**

Features:

1. Complete head model, realistic shape, soft skin.
2. Skin layer clear, precise structure, the operation feel real, can be repeated suture practice.
3. The model can touch the skull fracture, bilateral transverse maxillary fracture, I & III, nasal fracture, bilateral mandibular fracture, C-6 vertebral fracture, hemotympanum, deviated trachea, pupil teaching demonstration.
4. The model provides a surgical incision for teaching.

ITEM # UM-20220

**Ear Diagnostic Simulator**

Features:

- Standard body position of the ear, push pull lesion to select lesions.
- Totally 12 kinds of normal or diseased ear drum:
  1. Acute otitis media
  2. Acute otitis media without obvious signs
  3. Abnormal secretion of middle ear
  4. Tympanosclerosis
  5. Myringotomy
  6. Ear wax (a little big)
  7. Acute middle ear infection
  8. Otitis media (case 1)
  9. Otitis media (case 2)
  10. Effusion of posterior ear drum
  11. Perforation of ear drum
  12. Normal tympanic membrane

ITEM # UM-20221

**Ear Irrigation Simulator**

Features:

1. Practice irrigation of auditory canal to avoid the risk of direct irrigation for patient.
ITEM # UM-20222

**Ear Inspection Simulator**

**Features:**

1. Simulation of right ear, standard intra-aural examination site
2. Accurate anatomical structure of auricle, external auditory canal, tympanic membrane;
3. Ear lesion examination via otoscope;
4. Provide 24 kinds of ear lesion components for convenient replacing;
5. Including:
   1) Normal tympanic membrane
   2) Retracted tympanic membrane
   3) Small tympanic membrane perforation
   4) Whole tympanic membrane perforation
   5) Traumatic perforation of tympanic membrane
   6) Dry central perforation of the posterior
   7) Myringotomy with insertion of tube
   8) Bullous myringitis
   9) Herpes blisters on the tympanic membrane
   10) Eardrum Tympanosclerosis
   11) Tympanosclerosis crescentic sclerosis plaques
   12) Serous otitis media effusion
   13) Congestive early acute otitis media
   14) Acute otitis media
   15) Purulent otitis media
   16) Chronic suppurative otitis media
   17) Pearl-tumor
   18) Foreign body in ear
   19) Ear washing and drops
6. Earwax clean-up operation practice
7. Ear lesions component easy to replace.

ITEM # UM-20223

**Electronic Ear Inspection Simulator**

**Features:**

1. Accurate anatomical structure such as auricle, external auditory canal, eardrum, etc.
2. Inspect ear lesions with otoscope.
3. Allow to practice in cleaning the earwax.
4. Comes with over 14 negative films of ear lesions, no need to replace all the ear module, easy to operate.
ITEM # UM-20224

Ocular Inspection Model of Retinopathy

Features:
Replacement of different eyeball diseases, slide simulates common clinical oculopathy, including:
1. Normal retina
2. Age-related retina macular degeneration/colloid Bodies
3. Central retinal vein occlusion
4. Hypertensive retinopathy
5. Papilledema
6. Excavation of optic disc
7. Optic atrophy
8. Mild background diabetic retinopathy
9. Background (pure) diabetic retinopathy
10. Preproliferative diabetic retinopathy
11. Preproliferative diabetic retinopathy 2
12. Hypertrophic diabetic retinopathy
13. Diabetic retinopathy

Basic configuration:
1. Realistic affection, easy to replace and operate;
2. In favor of repeated contrast observation;
3. Provides 13 kinds of retinopathy accessories;

ITEM # UM-20225

Electronic Retina Inspection Model

Features:
1. Replica of an adult head and neck, with delicate five sense organs and standard position for fundus examination.
2. Supports retina and various common fundus lesions examination
3. Simulates clinical eyes by auto-changing slides of different fundus lesions

ITEM # UM-20226

Electronic Throat Examination Model

ITEM # UM-20227

Vocal Cord Tumor Examination Model

ITEM # UM-20228

Vocal Nodules Examination Model

ITEM # UM-20229

Vocal Cord Polyp Examination Model
Gastroscope & ERCP Training Model

Features:

1. Simulate the upper body of an adult. The form is lifelike and feels like real.
2. It has obvious anatomic landmarks like nasal cavity, windpipe and bronchus. And it is elastic with high flexibility, which is convenient to localize.
3. The model is applicable to operation training of trachea cannula of laryngoscopy through mouth, bronchofiberscopy and rigid tracheo-bronchoscopy.
4. Head could lean back and do side-to-side movement, which is convenient for positions needed when operating.
5. When conducting rigid tracheo-bronchoscopy and laryngoscopy, humming alarm rings when wrong operation of overexertion on teeth.
6. Put stethoscope on two lungs to auscultate when conducting trachea cannula and bronchofiberscopy. Use rubber pressurized ball to simulate breath sounds to determine the position of bronchoscope catheter.
NURSES TRAINING PRODUCTS

ITEM # UM-3001

Comprehensive Nursing System

1. Airway Management: Standard oral and nasal intubation, tracheotomy, open airway by head tilt and jaw thrust; simulate vital signs such as trismus, lingual edema, pharyngeal edema, laryngospasm, unilateral and bilateral pulmonary obstruction, main airway blocked, etc.

2. CPR: provide multiple ventilation ways: mouth to mouth, mouth to nose, BVM to mouth; electronically monitor airway opening, insufflation times, frequency, volume and compression times, frequency, position and depth; automatically judge the ratio of artificial respiration and chest compression; real-time data display, and English voice prompts during the entire process; after successful rescue, pupils change from mydriasis to normal state, pulse and spontaneous respiration recover.

3. Real defibrillation and pace-making: can be used with various defibrillators and pacemakers of different manufacturers to realize real defibrillation and pace-making.

4. Simulation defibrillation and pace-making: display the usage of medical defibrillators and pace-makers via multimedia animation.

5. Real AED: can be used with various AED of different manufacturers to realize real AED training.

6. Simulation AED: display the whole AED operation process via multimedia animation; English voice prompts during the whole course.

7. Real ECG monitoring: can be used with various ECG monitor of different manufacturers to realize real ECG monitoring.

8. Simulation ECG monitoring: realize simulation ECG monitoring by using with simulation ECG monitor; monitor SpO2 with finger clip-on blood oxygen probe; internally storing thousands of ECG; 12-lead ECG, SpO2, respiration, CO2, BP (arterial blood pressure, CVP, PAP, NIBP) and cardiac output are shown on the LCD screen of simulation multi-parameter ECG monitor.

Vital Signs: Simulation

1. Carotid pulse, femoral artery pulse, radial artery pulse, and vivid reproduction of patient moan, cough and vomit sounds.

2. Respiration mode: simulate normal breath, sighing breath, Cheyne-stokes breath, Kussmaul-kien breath and Biot's breath.

3. Real Spontaneous respiration: chest rise while breathing, and respiration rate and depth are adjustable.

4. Auscultation: provides dozens of sounds, including normal heart sounds, abnormal heart sounds, normal breath sounds, abnormal breath sounds, normal bowel sounds and abnormal bowel sounds.
Vital Signs Simulation
1. Carotid pulse, femoral artery pulse, radial artery pulse, and vivid reproduction of patient moan, cough and vomit sounds.
2. Respiration mode: simulate normal breath, sighing breath, Cheyne-stokes breath, Kussmaul-kien breath and Biot’s breath.
3. Real Spontaneous respiration: chest rise while breathing, and respiration rate and depth are adjustable.
4. Auscultation: provides dozens of sounds, including normal heart sounds, abnormal heart sounds, normal breath sounds, abnormal breath sounds, normal bowel sounds and abnormal bowel sounds.

Clinical Nursing Simulation
1. Puncture: thoracic puncture and bone marrow puncture.
2. BP measurement training, deltoids subcutaneous injection, lateral vastus intramuscular injection, arm venipuncture, injection, transfusion and buttocks intramuscular injection.
3. Hair washing and combing, face washing, ear irrigation and drops, mouth care, artificial teeth care, sputum suction, oxygen inhalation, oral and nasal feeding, gastric lavage, gastrointestinal decompression, enema, stoma drainage, male/female urethral catheterization, male/female bladder irrigation.
4. Holistic nursing: limbs bending, rotation, movement up and down, sponge bath, changing clothes, and cold and heat therapy.

Comprehensive Nursing System

ICU Simulation:
1. Airway Management: Standard oral and nasal intubation, tracheotomy, open airway by head tilt and jaw thrust; simulate viti signs such as trismus, lingual edema, pharyngeal edema, laryngospasm, unilateral and bilateral pulmonary obstruction, main airway blocked, etc.
2. CPR: provide multiple ventilation ways: mouth to mouth, mouth to nose, BVM to mouth; electronically monitor airway opening, inspiration times, frequency, volume and compression times, frequency, position and depth; automatically judge the ratio of artificial respiration and chest compression; real-time data display, and English voice prompts during the entire process.
3. After successful rescue, pupils change from mydriasis to normal state, carotid pulse and spontaneous respiration recover.
4. Real defibrillation and pace-making: can be used with various defibrillators and pacemakers of different manufacturers to realize real defibrillation and pace-making.
5. Simulation defibrillation and pace-making: display the usage of medical defibrillators and pace-makers via multimedia animation.
6. Real AED: can be used with various AED of different manufactures to realize real AED training.
7. Simulation AED: display the whole AED operation process via multimedia animation; English voice prompts during the whole course.
8. Real ECG monitoring: can be used with various ECG monitor of different manufacturers to realize real ECG monitoring.
9. Simulation ECG monitoring: realize simulation ECG monitoring by using with simulative ECG monitor; monitor SpO2 with finger clip-on blood oxygen probe; internally storing thousands of ECG; 12-lead ECG, SpO2, respiration, CO2, BP (arterial blood pressure, CVP, RAP, NIBP) and cardiac output are shown on the LCD screen of simulative multi-parameter ECG monitor.

Vital Signs Simulation
1. Carotid pulse, femoral artery pulse, radial artery pulse, and vivid reproduction of patient moan, cough and vomit sounds.
2. Respiration mode: simulate normal breath, sighing breath, Cheyne-stokes breath, Kussmaul-kien breath and Biot’s breath.
3. Real Spontaneous respiration: chest rise while breathing, and respiration rate and depth are adjustable.
4. Auscultation: provides dozens of sounds, including normal heart sounds, abnormal heart sounds, normal breath sounds, abnormal breath sounds, normal bowel sounds and abnormal bowel sounds.

Clinical Nursing Simulation
1. Puncture: thoracic puncture and bone marrow puncture.
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3. Hair washing and combing, face washing, ear irrigation and drops, mouth care, artificial teeth care, sputum suction, oxygen inhalation, oral and nasal feeding, gastric lavage, gastrointestinal decompression, enema, stoma drainage, male/female urethral catheterization, male/female bladder irrigation.
4. Holistic nursing: limbs bending, rotation, movement up and down, sponge bath, changing clothes, and cold and heat therapy.

ITEM # UM-3003

Nursing Manikin (male)

Optional Accessoires

<table>
<thead>
<tr>
<th>A</th>
<th>Artery Pulse</th>
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<tr>
<td>B</td>
<td>BP Measurement</td>
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<tr>
<td>C</td>
<td>CPR</td>
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<tr>
<td>D</td>
<td>Breast Examination(female manikin only)</td>
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<tr>
<td>E</td>
<td>ECG</td>
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<td>T</td>
<td>Trauma</td>
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</tbody>
</table>
ITEM # UM-3004

Multi-functional Nursing Manikin (male)

ITEM #. UM-3004 -A

Nursing Manikin (female)

Features:

1. Hair and face washing
2. Eye and ear washing and administering
3. Mouth cavity and artificial teeth care
4. Endotracheal intubation
5. Tracheotomy care
6. Oxygen inhaling
7. Oral and nasal feeding
8. Gas lavage
9. Venipuncture, injection, blood transfusion (Arm)
10. Deltoid subcutaneous injection
11. Vastus lateralis injection
12. Thoracic cavity and lumbar puncture
13. Enema
14. Female/male urethral catheterization
15. Female/male bladder irrigation
16. Ostomy
17. Buttock's intramuscular injection
18. Holistic nursing: sponge bath, replacing clothes
19. Limbs joints: bend, rotation and upper or lower movement
20. Trauma modules for evaluation and care:
   1) Abdomen wall incision and suture incision
   2) Thigh section and suture incision
   3) Tear of the thigh skin
   4) Infectious ulcer of thigh
   5) Foot trauma
   6) Amputation stump of upper arm
   7) Amputation stump of leg
21. Breast care (female manikin only)
ITEM # UM-3005

**Basic Nursing Manikin**

*Features:*
1. Hair and face washing
2. Eye and ear washing and administering
3. Mouth cavity and artificial teeth care
4. Pupil observation: one normal, the other mydriasis
5. Postoperative care for tracheotomy
6. Oxygen inhaling
7. Nasal feeding
8. Gastrolavage
9. Tracheal intubation via mouth
10. Venipuncture, injection, blood transfusion (Arm)
11. Deltoid subcutaneous injection
12. Vastus lateralis injection
13. Buttocks intramuscular injection
14. Enema
15. Male/Female urethral catheterization
16. Male/Female bladder irrigation
17. Ostomy care

ITEM # UM-3006

**Basic Nursing Manikin**

*Features:*
1. Hair and face washing
2. Eye and ear washing and administering
3. Mouth cavity and artificial teeth care
4. Breast care
5. Postoperative care for tracheotomy
6. Oxygen inhaling
7. Nasal feeding
8. Gastrolavage
9. Ostomy care
10. CPR simulation
11. Chest Cavity Puncture (no liquid)
12. Lumbar puncture (no liquid)
13. Venipuncture, injection, blood transfusion (Arm)
14. Deltoid subcutaneous injection
15. Buttocks intramuscular injection
16. Vastus lateralis injection
17. Female bladder irrigation
18. Female urethral catheterization
19. Enema
Multi-functional Nursing Manikin (female)

Features:
1. Hair and face washing, hair combing
2. Eye and ear washing and administering
3. Oral care and artificial teeth care
4. Tracheotomy care
5. Oxygen inhalation
6. Nasal feeding and gastric lavage
7. Pupil observation: one normal, the other mydriatic
8. Ostomy care
9. Lumbar puncture (without liquid)
10. Arm venipuncture, injection and transfusion (Arm)
11. Deltoids subcutaneous injection
12. Lateral thigh and buttocks intramuscular injection
13. Urethral catheterization (male/female)
14. Bladder irrigation (male/female)
15. Enema
16. Buttock ulcer care
17. Diabetic foot care
18. Holistic nursing: sponge bath, replacing clothes, cold and hot therapy
19. Limbs: much more flexible joints, easier for movement
20. Trauma modules for evaluations and care: disinfection, wound enswathing and hemostasis, including:
   1) Chest incision and suture demonstration
   2) Abdominal wall incision and suture demonstration
   3) Thigh incision and suture demonstration
   4) Thigh laceration
   5) Amputation stump of upper arm
   6) Amputation of leg
21. CPR simulation (Male)
22. Detachable left and right breasts and supports breast care (Female)
Postpartum Basic Nursing and Breast Feeding Manikin

Features:

1) Standard adult manikin with flexible joints, which can meet all kinds of body positions
2) Comes with: torso-rotation, stretch; neck-rotation, flex, lateral bending; shoulder and hip-adduction, abduction, rotation, flex; elbow-medial rotation, outer rotation; knee- medial rotation, outer rotation; wrist- medial rotation, flex, stretch, bend; ankle- varus, ecrotion, adduction and abduction.
3) Supports sponge bath on bed; change clothes; help "patient" move to bedside; use wheelchair, flatcar or stretcher to move and carry the "patient"; axis turning methods, limbs constraint methods, shoulder constraint methods, general constraint method; etc. Pupils observation: normal and mydriasis; auricular nursing, oral nursing, tracheotomy postoperative nursing, oxygen inhalation and aerosol inhalation; BP measurement training.
4) Supports intramuscular injection: modules locate in the left and right upper arms and buttocks; real soup can be injected into the modules; and modules can be taken off for rinse; ileum fistula on the abdominal wall connected to a liquid-collecting bottle for ostomy care Supports breast feeding
5) With all basic nursing functions and additional postpartum care and breast feeding function, the manikin simulates multiple symptoms of breast during lactation period: breast swelling, milk overflow, breast pain and sucking practice.

Supports interchangeable male-female urethral catheterization, indwelling catheter and bladder irrigation, and simulative urine can be seen after successful catheterization.
6) Supports cysteter: mass non-retention clysis, little non-retention clysis, cleansing enema, and retention enema.

★ The embedded breast module is detachable and interchangeable, and comes with all kinds of breast tumors, lymph gland, lobular hyperplasia for inspection and palpation.
★ The embedded lumbar puncture module is realistic and replaceable, and it allows repeated training.
ITEM # UM-3009

Advanced Postpartum Nursing Manikin

Features:
1) Standard adult manikin with flexible joints, which can meet all kinds of body positions
2) Comes with: torso-rotation, stretch; neck-rotation, flex, lateral bending; shoulder and hip-adduction, abduction, rotation, flex; elbow-medial rotation, outer rotation; knee-medial rotation, outer rotation; wrist-medial rotation, flex, stretch, bend; ankle-varus, ecetroplion, abduction and adduction.
3) Supports sponge bath on bed; change clothes; help “patient” move to bedside; use wheelchair, flatcar or stretcher to move and carry the “patient”;
axis turning methods, limbs constraint methods, shoulder constraint methods general constraint method; etc.
4) Pupils observation: normal and mydriasis: oral nursing, oral nursing, tracheotomy postoperative nursing, oxygen inhalation and aerosol inhalation
BP measurement training.
5) Supports intramuscular injection: modules locate in the left and right upper arms and buttocks; real soup can be injected into the modules; and modules can be taken off for rinse;
6) Ileum fistula on the abdominal wall connected to a liquid-collecting bottle for ostomy care
7) Voice broadcast for breast swelling, nipple collapse, milk overflow and breast distending pain
8) Supports interchangeable male/female urethral catheterization, indwelling catheter and bladder irrigation, and simulative urine can be seen after successful catheterization.
9) Supports cystier: mass non-retention clysis, little non-retention clysis, cleansing enema, and retention enema.
★ The embedded breast module is detachable and interchangeable, and comes with all kinds of breast tumors, lymph gland, lobular hyperplasia for inspection and palpation.
★ The embedded lumbar puncture module is realistic and replaceable, and it allows repeated training.
10) CPR: Supports artificial respiration and external cardiac compression, and operating data is electronically monitored with prompts for wrong operation, and chest rise can be obviously observed during air blowing
11) Manually simulates carotid pulse.
12) Available blood pressure measurements training on arm.
Advanced Full-functional Elderly Nursing Manikin

The manikin is designed according to the physiological characteristic of old male people for the basic clinical nursing training. The product consists of full-body male elderly manikin and non-invasive blood pressure simulator; with about 50 kinds of nursing functions; made of imported PVC material, fine quality, environmental protection, realistic shape as human, easily washable, these help nursing workers understand and care for old people when they are nursing.

**Basic nursing functions:**

1. Hair and face washing
2. Manually simulate carotid pulse
3. Eye and ear washing and administering
4. Mouth cavity and artificial teeth care
5. Endotracheal intubation via mouth
6. Tracheotomy
7. Oxygen inhaling
8. Oral and nasal feeding
9. Gastrostomy
10. Venipuncture, injection, transfusion (arm)
11. Deltoid subcutaneous injection
12. Vastus lateralis injection
13. Buttocks intramuscular injection
14. Male/female urethral catheterization
15. Male/female bladder injection
16. Stoma drainage
17. Colostomy
18. Enema
19. Sacral ulcer care
20. Holistic nursing: sponge bath, replacing clothes, cold and hot therapy
21. Realistic limbs joint, stiff simulated joints, truck may lean forward, can sit it the wheelchair
   1) Truck- rotation, flexibility
   2) Neck- rotation, flexibility, lateral curvature
   3) Shoulder and buttock- endoduction, abduction, rotation, flexibility
   4) Elbow-internal rotation, external rotation
   5) Knee- internal rotation, external rotation
   6) Wrist-internal rotation, flexibility, stretching, bending
   7) Ankle- introversion, eversion, endoduction, abduction
22. Non-invasive blood pressure measurement
   1) Systolic and diastolic pressure may be set individually in steps of 1mmHg
   2) Systolic pressure 0-300mmHg, diastolic pressure 0-300Hg
   3) Korotkoff sound volume in ten steps, 0-9
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5) Knee- internal rotation, external rotation
6) Wrist-internal rotation, flexibility, stretching, bending
7) Ankle- intversion, eversion, endoduction, abduction

22. Non-invasive blood pressure measurement

1) Systolic and diastolic pressure may be set individually in steps of 1mmHg
2) Systolic pressure 0-300mmHg, diastolic pressure 0-300Hg
3) Korotkoff sound volume in ten steps, 0-9
Features:
1. With all functions:
   1) Hair and face washing
   2) Eye and ear washing and administering
   3) Oral cavity care
   4) Pupil observation: one normal and the other mydriasis
   5) Tracheotomy care
   6) Oxygen inhaling
   7) Nasal feeding
   8) Gastralavage
   9) Venipuncture, injection, blood transfusion (Arm)
   10) Deltoid subcutaneous injection
   11) Vastus lateralis injection
   12) Buttocks intramuscular injection
   13) Male/Female urethral catheterization
   14) Male/Female bladder irrigation
   15) Enema
   16) Ostomy care
   17) Lumbar puncture
   18) Holistic nursing care: sponge bath, clothes changing, cold and hot therapy;

19) Limbs joints: bend, rotation, upper or lower movement
2. Advanced trauma modules:
   1) Facial burn: 1, 2, 3 degree
   2) Laceration in forehead
   3) The wound in jaw
   4) Opened clavicular fracture and contusion wound on the chest wall
   5) The wound in abdomen with small intestine evisceration
   6) Opened humerus fracture of right upper arm
   7) Opened fracture of right hand (including parenchyma laceration, fracture and bone tissue exposure)
   8) Gun wound in the left palm
   9) Opened fracture of right thighbone
   10) Compound femur fracture of right thigh
   11) Metal pricking wound in right thigh
   12) Opened tibia fracture of right leg
   13) Opened fracture of right foot with truncating trauma on small phalanx
   14) Burns in left forearm: 1, 2, 3 degree
   15) Truncating trauma on left thigh
ITEM # UM-3013

Organophosphorus Poisoning Emergency Standardized Patient

Features:
1. Adult male manikin with accurate anatomical marks and flexible joints; nipples, ribd, sternum and xipkoid are palpable, and visceras of real size can be observed.
2. Made from high polymer material, environmental protection and high simulation;
3. CPR: supine position, head leaning back, easy to remove foreign bodies from respiratory tract;
4. Nasal feeding: simulatve gastric juice can be extracted after successful intubation;
5. Gastric lavage: comes with a transparent stomach of real size, and gastric lavage can be done via mouth and nose with stomach pump, electric suction apparatus, stomach tube and gastric washing machine;
6. Interchange male and female urethral catheterization, and there will be simulative urine after proper operation;
7. Supports BP measurement on the left arm, and teacher can set systolic pressure, diastolic blood pressure and heart rate;
8. Intravenous injection: choose puncture needles of different types, there will be “POP” feeling during puncture, and blood will flow back after proper venepuncture. Transfusion can also be practiced.

ITEM # UM-3014

Transparent Gastric Lavage Manikin

Features:
1. Transparent chest wall, visible of external organs
2. Gastric intubation via mouth or nose: nasal feeding, gastrolavage, haempstasis and gastroscopy operation, simulated gastric fluid can be extracted when the operation is correct; the fluid in the digestive tract can be eliminated from body.
3. Endoracheal intubation via mouth or nose: Sputum suction and oxygen inhaling, etc
4. Postoperative care for incision of tracheal and oral cavity care
5. Manually generated carotid arterial pulse
6. It can be postured on its back, in the left and sitting position.
ITEM # UM-3015

Multi-functional Transparent Gastric Lavage Simulator

The model simulates a male adult upper body structure, with anatomical structure of nasal cavity, oral cavity, teeth, tongue, uvula, reply, vocal cord, trachea, lungs, esophagus, stomach, liver and small intestine. The simulator is made of imported material with realistic touch feeling, and the stomach is made of high intensity transparent material, which is convenient to observe, can directly observe the realistic organs and structures of chest cavity and abdominal cavity and the gastric lavage process helper for pediatric nursing teaching and training.

Features:
1. Transparent chest wall, visible of external if the operation is correct;
2. Insertion of gastric tube through mouth haemostasis and gastroscopy operation, simulated gastric fluid can be extracted when the operation is correct; After finishing operation, the fluid in the digestive tract can be eliminated from body;
3. Endotracheal intubation via mouth or nose: Sputum suction and oxygen inhaling, etc;
4. Postoperative care for incision of tracheal and oral cavity care;
5. Manually generated carotid arterial pulse;
6. Can be placed in many postures, such as supine position, left-lateral position, sitting position, etc;
7. LCD display : different pupil states: normal, dilated, needle tip type.

ITEM # UM-3016

Electronic Transparent Gastric Lavage Training Model

Features:
1. Transparent chest wall, visceras are exposed such as stomach and lungs, easy to verify if the operation is correct;
2. Gastric tube can be inserted via mouth or nose; supports nasal feeding, gastric lavage, hemostasis and stomachoscopy; simulative gastric juice can be extracted after proper operation, and liquids in the digestive tract can be drained out after all the operation.
3. Trachea cannula via mouth or nose; supports operation such as sputum suction and oxygen inhalation, etc.
4. Supports tracheotomy postoperative care and oral cavity care.
5. Manually generate carotid pulse.
ITEM # UM-3017

**Combined Nursing Manikin**

Features:
1. Hair and face washing
2. Eye and ear washing and administering
3. Mouth cavity care
4. Oxygen inhaling
5. Nasal feeding
6. Gastrolavage
7. Tracheotomy Care
8. Endotracheal intubation
9. Deltoid subcutaneous injection
10. Subcutaneous puncture
11. Venipuncture, injection, blood transfusion (Arm)
12. Male urethral catheterization
13. Male bladder irrigation
14. Ostomy
15. Buttocks intramuscular injection
16. Enema
17. Female urethral catheterization
18. Female bladder irrigation

ITEM # UM-3018

**Parenteral Alimentation Nursing Simulator**

The model is used for the patients with central venous cannula for parenteral nutrition therapy and nursing, training center venipuncture and related disinfection, puncture, such as fixed operation.

**Functions**:
1. Simulated normal adult male body size, accurate anatomical structure, translucent design better stereoscopic observation of the internal bone, blood vessels, heart, and part of the lungs.
2. Can be clearly observed through the transparent design internal jugular vein, subclavian vein pathway.
3. On the right side of the chest have skin puncture part of the cover.
4. Heart module can be opened, tricuspid valve structure to see the marked as red.
ITEM # UM-3019

**Adult Tracheotomy Care Model**

Features:
1. Precise anatomy: pharynx, epiglottis, trachea, esophagus, position of tracheotomy, cricoid and left, right bronchial trees
2. Tracheotomy care
3. Sputum suction
4. Suction via oral cavity
5. Clean and care of tracheal cannula.

ITEM # UM-3020

**Nasogastric Feeding and Trachea Intubation Care training Manikin**

Features:
1. Hair and face washing
2. Eye and ear washing and administering
3. Mouth cavity care
4. Oxygen inhaling
5. Nasogastric intubation
6. Tracheotomy Care
7. Sputum suction
8. Oral and nasal cavity intubation

ITEM # UM-3021

**Swallow Mechanism Simulator**

Features:
1. The mechanism of swallow;
2. The causes of mistaking swallow;
3. Correct posture of eating;
4. The relationship between the angle of neck and mistaking swallow;
5. Emergency rescue for mistaking swallow;
6. Swallow training with oral cavity care;
7. Intubation feeding;
8. Internal absorption of oral cavity.
ITEM # UM-3022

**Suction Training Simulator**

Features:
1. The suction catheter skills training through nose and mouth;
2. Suction tube can be inserted into nasal cavity and oral cavity, and simulated sputum suction;
3. Suction tube can be inserted into tracheal opening; size through tracheal cannula, and intrabronchial suction can be practiced;
4. By opening the one side part of the face, the position of inserted tube can be confirmed, and the anatomical structure of nasal cavity, oral cavity and cervical part can be learned;
5. Simulated sputum is set into nasal cavity, oral cavity and trachea to enhance the effectiveness of training for obtaining nasal technique.

ITEM # UM-3023

**Electronic Urethral Catheterization and Enema Model**

Features:
1. Male urethral catheterization: Lift the penis, simulating extending the urethra bend (curvature prepubica). Gently introduce the catheter into the meatus and slowly advance it through the urethra (through cavernous body of urethra, membranous urethra and prostatic urethra). If the operation is correct, the green light will power on. Advance the catheter about 18–20cm and the red light will power on. The return of urine into the collection tubing signifies that the catheter is in the proper position;
2. Female urethral catheterization;
3. Gently introduce the catheter into the meatus and slowly advance it proximally 4cm through the urethra. The catheter will arrive at bladder and the red light will power on;
4. The return of urine into the collection tubing signifies that the catheter is in the proper position;
5. Enema: Introduce the catheter into the anus and advance it about 10cm through the anal canal.
**Male Catheterization Model**
Features:
1. General urethral catheterization process can be operated.
2. There is resistance when advance the catheter through mucosal fold, bulb of urethra and intraurethral sphincter.

**Female Catheterization Model**
Features:
1. General urethral catheterization process can be operated;
2. There is resistance when advance the catheter through urethral sphincter.

**Transparent Male Catheterization Model**
Features:
1. We design this simulator basing on the normal human anatomy;
2. The external genitalia are lifelike. Students can observe the organs in the pelvis, such as bladder, rectum;
3. The whole catheterization process can be seen because of the transparent abdominal wall;
4. The resistance will be felt when intubating, just as in real human. The external Genitalia can be replaced.

**Transparent Female Catheterization Model**
Features:
1. We design this simulator basing on normal human anatomy;
2. The external genitalia are lifelike. Students can observe the organs in the pelvis, such as bladder, uterus and rectum;
3. The whole catheterization process can be seen because of the transparent abdominal wall;
4. The resistance will be felt when intubating, just as in real human. The external genitalia can be replaced.
ITEM # UM-3028

Male Internal & External Genital Organ Model
Features:
1. Male internal genitalia and external genitalia;
2. The students can directly observe catheterization process.

ITEM # UM-3029

Female Internal & External Genital Organ Model
Features:
1. Female internal genitalia and external genitalia;
2. The students can directly observe catheterization process.

ITEM # UM-3030

Wearable Artificial Defecation Training Simulator
Features:
1. Wearable design and suitable for a group of two students to exercise;
2. Made of imported material, soft skin, and real operation process;
3. With cloth elastic, length and tightness can be adjusted.
ITEM # UM-3031

Male Catheterization Model
Features:
1. Simulate real urethral catheterization operation training, realistic genitalia can carry out real urethral catheterization and genital care operation;
2. Fixed on bracket, can be operated on table;
3. With water-proof shorts which can be worn outside of clothes to operate, suitable for a group of two students to practice.

ITEM # UM-3032

Female Catheterization Model
Features:
1. Simulate real urethral catheterization operation training, realistic genitalia can carry out real urethral catheterization and genital care operation;
2. Fixed on bracket, can be operated on table;
3. With water-proof shorts which can be worn outside of clothes to operate, suitable for a group of two students to practice.

ITEM # UM-3033

Enema and Assisted Defecation Training Simulator
Features:
1. Simulate bed patient and old people, who can't defecate by themselves;
2. The abdominal wall can be opened so as to students directly observe the operation;
3. Disassembly and washing is very simple.

ITEM # UM-3034

Ostomy Nursing Simulator
Features:
1. The anatomy of colostomy and ileostomy are carefully reproduced to provide lifelike functions and appearance. The model can be operated in erect position or side-lying position;
2. Intubation feeding can be actually operated in the ileostomy;
3. Ostomy care can be operated in the colostomy, including excretion synthetic stool, irrigation and stool bag care.
ITEM # UM-3035

**Bladder Puncture Simulator**

**Features:**
1. Accurate anatomical structure, obvious signs of bone, with foreskin for male;
2. Urethral catheterization, bladder washout and puncture operation;
3. Bladder can be replaced, can inject fluid into bladder to achieve the state of filling;
4. The filling of bladder can be confirmed by percussion, and puncture training can be repeated with realistic puncture resistance. Obvious feeling when the puncture is correctly operated;
5. Physiological stenosis of urethra, real urethral catheterization operation.

ITEM # UM-3036

**Bladder Puncture Simulator**

**Features:**
1. Accurate anatomical structure, obvious signs of bone, exposure of female urethra;
2. Urethral catheterization, bladder washout and puncture operation;
3. Bladder can be replaced, can inject fluid into bladder to achieve the state of filling;
4. Confirm the filling of bladder by percussion, puncture training can be repeated, realistic puncture resistance as in real human, there is obvious feeling when the puncture is correct;
5. Physiological stenosis of urethra, real urethral catheterization operation.

ITEM # UM-3037

**Decubitus Ulcer Care Simulator**

**Features:**
1. 4 stages of ulceration;
2. Decubitus ulcer kinds: sinus, fistula, corruption scab, infection, bone exposure, eschar, suturing incision, Herpes and Monilia infection;
3. Incision washing, evaluation and measurement.
ITEM # UM-3038

**Stage Decubitus Ulcer Care Simulator**

Features:
1. This model can be worn on;
2. 4 stages decubitus are included and can be replaced conveniently.

ITEM # UM-3039

**Diabetic Foot Nursing Simulator**

Features:
1. Designed for nursing of foot pathological changes caused by diabetes;
2. No. 1, 2, 3 invasive trauma with minor foot infection;
3. Display severe foot diseases, such as toe amputation Charcot foot and gangrene, etc;
4. Soft and elastic model material, bendable toes.

ITEM # UM-3040

**Upper Limb Trauma Amputation and Hemostasis Model**

Feature:
Compress the brachial artery to stop bleeding.

ITEM # UM-3041

**Lower Limb Trauma Amputation and Hemostasis Model**

Feature:
Compress the femoral artery to stop bleeding.

ITEM # UM-3042

**Full-functional IV Training Arm**

Features:
1. The peristaltic pump can simulate blood circulation;
2. Lifelike arm reproduction with multi-vein system designed for peripheral intravenous therapy and deltoids intramuscular injection.
ITEM # UM-3043

**Venipuncture Training Arm**

Features:
1. Simulating injection, blood transfusion, hemospasia of the arm;
2. There is obvious feeling when needle penetrates insertion;
3. Veins and skin can be acupunctured repeatedly, and these operations won’t cause leaks.

ITEM # UM-3044

**Venipuncture & Intramuscular Injection Arm**

Features:
1. Injection, blood transfusion, hemospasia and deltoid intramuscular injection can be performed;
2. The skin can be replaced.

ITEM # UM-3045

**Arm Artery Puncture & Intramuscular Injection Training Model**

Features:
1. Lifelike adult male arm reproduction with infusible arteries designed for training the proper arterial puncture procedure for blood gas analysis;
2. Deltoid intramuscular injection.
ITEM # UM-3046

**Gastric Catheterization Training Model**

Features:
1. With realistic oral cavity (teeth, tongue and uvula), airway (epiglottis, glottis, larynx, arytenoid, vocal cords and trachea) and esophagus.
2. With completely simulation head and neck, soft face texture and true touch feeling.
3. Supports nasal feeding and oxygen inhalation.
4. Supports gastric lavage.

ITEM # UM-3047

**Artery Puncture Hand (Arterial Blood Gas Analysis)**

Features:
1. Consists of a hand model and an electronic blood circulation device, which features real flow of simulative blood, palpable radial artery and real touch feeling. Pulse rate and strength is adjustable.
2. Relical of asian adult male’s left hand with obvious bony landmarks and soft skin made from imported thermoplastic material;
3. Palm upward, there will be “Pop” feeling when needle penetrates into the artery and simulative blood will flow back when venepuncture, drawing blood, transfusion is properly done with radial artery.

ITEM # UM-3048

**IV Training Hand**

Features:
1. With reasonable structure, realistic operation and durability, the model provides a good training tool of injection, hemostasis and blood transfusion.
2. The model can be used repeatedly.
ITEM # UM-3049

**IV Training Hand**

Features:
1. With reasonable structure, realistic operation and durability, the model provides a good training tool of injection, hemospasia and blood transfusion;
2. The alarm instrument will indicate whether the operation is correct.

ITEM # UM-3050

**Arterial Arm Stick Kit**

The model can simulate artery haemospasia, artery injection and artery transfusion under the simulative arterial blood pressure. It can be rotated through mechanical device, which can move the damaged artery and avoid vascular leakage after puncturation. So the operation training can be repeated. It is suitable for medical college, nursing academy, health school and clinic workers to teach and exercise artery puncture. Rotate the radial artery if the simulative arterial blood is damaged. Wrist skin and blood vessel can be replaced if they are damaged.

ITEM # UM-3051

**Advanced Blood Pressure Arm**

Features:
1. This model is a simulated right hand. It has remarkable exterior features and precise anatomical structure. Arterial blood pressure measurement training can be run on this simulator.
2. It provides the sound of Korokoff Gap.
3. The contraction pressure and diastolic pressure can be set individually before practice.
4. The numerical value of the contraction pressure and the diastolic pressure can be set in any value.
5. Pressure value is indicated by mm Hg.
6. The setting precision can be as low as 1 mm Hg.
7. Audio volume is adjustable.
8. A monitor is used in practice.
ITEM # UM-3052

**Electronic Upper Arm Intramuscular Injection Model**

**Features:**
1. The model to wear on the students shoulder, suitable for two students a group exercise: a ACTS as a nurse, a ACTS as a patient.
2. Simulation adult shoulder and upper structure, design exquisitely deft, and closer to the real environment. Skin texture is very realistic, the needle is not obvious.
3. Model of anatomical precision, injection location are red light shows depth is deep and electronic alarm prompt.
4. Allow liquid injection simulation.

ITEM # UM-3053

**Upper Arm Intramuscular Injection and Contrastive Simulator**

**Features:**
1. The right upper-arm is transparent and nerve and vessels can be seen.
2. Red light and sound will alarm if injection is too deep or the position is wrong.
3. If needle touch the nerve, the indicating light will turn on and alarming sound will appear.
4. If the injection position is right, the green light will turn on.

ITEM # UM-3054

**Venipuncture & Injection Training Arm**

**Features:**
1. The arm adopts rotary type in order to turn it conveniently.
2. The stand is fixed on the board.
3. 8 venous vessel, lifelike human structure.
4. Injection, blood transfusion, hemospasia and deltoid intramuscular injection can be performed.
ITEM # UM-3055

**Advanced Elder Venipuncture Training Arm**

*Features:*
1. Simulate Asian elderly male right arm, elbow joint is slightly external rotation, thin skin, not very clear blood vessel.
2. Fine anatomical structure, with cephalic vein, basilica vein, medical cubital vein; all vessels can puncture.
3. Provide training of punctuation, infusion and haemospasia, etc. Puncture resistance can be felt during puncturing, there is obvious feeling when needle penetrates into vein, and simuluated blood flash back indicates correct puncture.

ITEM # UM-3056

**Intradermal Injection Arm**

*Features:*
1. There are eight positions for intradermal injection.
2. Every position can be injected for hundred times.

ITEM # UM-3057

**Intramuscular Injection Model**

*Features:*
1. The model is divided into three layers: skin, subcutis and muscle.
2. A wearable design makes it a convenient simulator for training.
3. With features of lifelike shape, realistic touch and it is suitable for three kinds of injection skills training: intradermic injection, hypodermic injection and intramuscular injection.
ITEM # UM-3058

**Instramuscuar Injection Model**

**Feature:**
1. This model consists of skin, muscle layer.
2. Wearable design makes it a convenient simulator for training.

ITEM # UM-3059

**Forearm Venipuncture Model**

**Features:**
1. This model is a wearable set.
2. The simulator can be used in injection training, infusion training, blood transfusion and haemospasia training.

ITEM # UM-3060

**I.V. Injection Pad**

**Features:**
1. Several vessels built in the pad with different diameters, which can be used for injection;
2. The skin is realistic and the needle hole is not apparent.
3. Comes with 6 modules (3 big & 3 small)
ITEM # UM-3061

**Insulin Injection Training Pad**

Features:
The pad is made of imported plastic material with soft and elastic skin and cloth elastic can be worn in the specific site of the patient for self-injection of insulin drug, such as: abdomen, thigh, upper arm, etc. The length and tightness can be adjusted. And the thickness of the pad is suitable for different specifications of injection syringe. The hard plate in the back would prevent wearing situation of pad.

ITEM # UM-3062

**Venepuncture Foot**

Features:
1. Replica of adult foot with complete veins system. The skin and vessels are suppleness.
2. Same site of veins and skin allows multiple repeated puncture training without leakage.
3. Veins and skin are replaceable.

ITEM # UM-3063

**Electronic Buttocks Injection Training Model**

Features:
1. Alarming sounds indicate whether the injection is correct.
2. This model can be worn on.

ITEM # UM-3064

**Buttocks Intramuscular Injection Model**

Features:
1. There’s a mark to show the right position for injection.
2. The inject pad can be taken out for replacement.
ITEM # UM-3065

Buttocks Intramuscular Injection and Contrastive Model

Features:
1. The transparent left side of the model shows internal structure including bones, muscles, nerves and veins, facilitating to compare left side with right side and avoiding damaging the nerves and veins.
2. Correct intramuscular injection sites can be palpated.
3. A buzzer and two color flashing lights will warn students if the needle position is incorrect.

ITEM # UM-3066

Buttocks Intramuscular Injection & Anatomic Structure Model

Features:
1. Structure of left gluteal: osteal marks, gluteal muscles, ischiadic nerve and veins
2. Left gluteal can be taken off. So it is easy to observe internal structure and make sure position of ischiadic nerve and veins.

ITEM # UM-3067

Child Venipuncture Arm

Features:
1. Simulate the arm of a child.
2. Lifelike arm reproduction with multi-vein system designed for peripheral intravenous therapy.
ITEM # UM-3068

**Infant Nursing Manikin**

Features:
1. Head, neck and limbs can be moved freely. The chest skin can be replaced;
2. Cephalic venipuncture;
3. Umbilical venipuncture;
4. Oral and nasal intubation nursing;
5. Care of gastrolavage, enema and urethral catheterization;
6. Ostoemy;
7. Deltoids and buttocks intramuscular injection;

ITEM # UM-3069

**Three-year-old Child Nursing Manikin**

Features:
1. Simulate pupils: one normal and the other mydriasis for pupils contrast teaching demonstration.
2. Simulates artery pulse including carotid pulse, radial pulse and femoral pulse; supports tracheotomy care.
3. Comes with realistic mouth, nose, tongue, throat, esophagus and trachea, supports trachea cannula via mouth and oxygen inhalation.
5. CPR: support ventilation ways: mouth to mouth, BVM to mouth; electronic monitoring of insufflation frequency and volume, compression frequency and depth; insufflation or compression can be trained separately.
6. Venous transfusion, including arm veins, femoral veins and dorsal veins of foot.
7. Subcutaneous injection at bilateral deltoids, and intramuscular injection at vastus lateralis muscle and gluteus maximus.
8. Supports male/female urethral catheterization and enema operation; and the genitals are replaceable.
9. Ileostomy, colostomy and bladder stoma care.
10. Bone marrow puncture: puncture via tibia, where medicine can be injected.
11. General care: clothes wearing and changing, oral care, face washing, cold and hot therapy, binding up and ear irrigation, etc.
One-year-old Child Nursing Manikin

Features:
1. Designed according to infant anatomical structure, which features skin softness, real touch feeling, flexible joints and supports all kinds of nursing operations;
2. General care: diapers replacement, clothes wearing and changing, oral care, cold and hot therapy, binding up;
3. Venipuncture / transfusion: arm veins include right arm cephalic vein and superficial dorsal vein; Scalp vein includes posterior auricular vein and superficial temporal vein. There will be “Pop” feeling when the needle penetrates into the vein, and simulative blood backflow means successful puncture. Same site of the skin and vessels allows multiple repeated puncture training.
4. Comes with realistic mouth, nose, tongue, throat, esophagus and trachea, supports trachea cannula via mouth, tracheotomy postoperative care and oxygen inhalation, etc.
5. Gastric intubation: used for gastrointestinal decompression, nasal feeding and gastric lavage.
6. Subcutaneous injection at bilateral deltoids, and intramuscular injection at vastus lateralis muscle and gluteus maximus.
7. Bone marrow puncture: puncture via tibia, where allows medicine injection and transfusion.
8. Pulse: manually squeeze the bulb to simulate infant artery pulses including carotid pulse, brachial artery pulse and femoral artery pulse.
9. Supports male/female urthral catheterization and enema operation; and the genitals are replaceable.
10. CPR: support multiple ventilation ways: mouth to mouth, mouth to nose, BVM to mouth; electronic monitoring of insufflation volume, compression depth; insufflation or compression can be trained separately.
11. Auscultation: heart sounds, breath sounds and bowel sounds.
12. Defibrillation and pace-making: simulate defibrillation and pace-making, can be used with different real defibrillator and pacemaker to achieve the real defibrillation and pace-making.
13. ECG: simulate ECG monitoring, can be used with different real ECG monitor to achieve real ECG monitoring.

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**Five-year-old Child Nursing Manikin**

**Features:**

1. Simulate pupils: one normal and the other mydriasis for pupils contrast teaching demonstration.
2. Simulates artery pulse including carotid pulse, radial pulse and femoral pulse; supports tracheotomy care.
3. Comes with realistic mouth, nose, tongue, throat, esophagus and trachea, supports trachea cannula via mouth and oxygen inhalation, etc.
5. CPR: support ventilation ways: mouth to mouth, BVM to mouth; electronic monitoring of insufflation frequency and volume, compression frequency and depth; insufflation or compression can be trained separately.
6. Venous transfusion, including arm veins, femoral veins and dorsal veins of foot.
7. Subcutaneous injection at bilateral deltoids, and intramuscular injection at vastus lateralis muscle and gluteus maximus.
8. Supports male/female urthral catheterization and enema operation; and the genitals are replaceable.
10. Bone marrow puncture: puncture via tibia, where medicine can be injected.
11. Auscultation: heart sounds, breath sounds and bowel sounds.
12. Defibrillation and pace-making: simulate defibrillation and pace-making, can be used with different real defibrillator and pacemaker to achieve the real defibrillation and pace-making.
13. ECG: simulate ECG monitoring, can be used with different real ECG monitor to achieve real ECG monitoring.
14. General care: clothes wearing and changing, oral care, face washing, cold and hot therapy, binding up and ear irrigation, etc.

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**Full Functional Neonatal Nursing Manikin**

Features:

1. Designed according to neonatal anatomical structure, which features skin softness, real touch feeling, flexible joints and supports all kinds of nursing operations;
2. General care: diapers replacement, clothes wearing and changing, oral care, cold and hot therapy, binding up;
3. Venepuncture/ transfusion: arm veins include right arm cephalic vein and superficial dorsal vein; Scalp vein includes posterior auricular vein and superficial temporal vein. There will be “Pop” feeling when the needle penetrates into the vein, and simulative blood backflow means successful puncture. Same site of the skin and vessels allows multiple repeated puncture training.
4. Umbilical cord care: ligation of umbilical cord, umbilical venous intubation and transfusion;
5. Gastrointestinal intubation: used for gastrointestinal decompression, nasal feeding and gastric lavage;
6. Teaching demonstration of tracheal cannula via mouth and oxygen inhalation;
7. Bone marrow puncture: puncture via tibia, where allows medicine injection and transfusion.
8. Pulse: manually squeeze the bulb to simulate neonatal artery pulses including right brachial artery pulse, right femoral artery pulse and umbilical artery.
9. CPR: support multiple ventilation ways: mouth to mouth, mouth to nose, BVM to mouth; electronic monitoring of insufflation volume, compression depth; insufflation or compression can be trained separately.

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ITEM # UM-3073

Neonatal Umbilical Cord Nursing Manikin

Features:
1. Female newborn systemic model, moveable head and limbs;
2. Realistic umbilical cord with umbilical vein and artery;
3. Umbilical cord ligation and nursing, realistic touch feeling, the enough length of umbilical cord can be used continually;
4. Neonatal basic nursing: lactation, sponge washing, wearing clothes, changing diapers.

ITEM # UM-3074

Child Tracheotomy Care Model

Features:
1. Precise anatomy: pharynx, epiglottis, trachea, esophagus, position of tracheotomy, cricoid and left, right bronchial trees;
2. Tracheotomy care;
3. Suction via oral cavity;
4. Clean and care of tracheal cannula.

ITEM # UM-3075

Child Transparent Gastric Lavage Model

Features:
1. Developed as a teaching aids to train and make clinical medical workers know how to deal with pediatric emergency.
2. Replica of the upper body of a child with a transparent cover, easy to observe the shape and positions of visceras in the chest cavity and abdominal cavity, with a direct view on how to insert the gastric tube and process gastric lavage, it’s very helpful to guide learners to have actual practice of gastric lavage.
3. The life-like shape and simulating structure can help to provide a good training.
4. Available postures such as supine position, left-lateral position and sitting position, etc., and gastric lavage can be operated by means of gastric tube, electric suction apparatus and gastric washing machine.
ITEM # UM-3076

**Child Venipuncture Arm**

**Features:**
1. Simulate the arm of a child.
2. Lifelike arm reproduction with multi-vein system designed for peripheral intravenous therapy.

ITEM # UM-3077

**Child Artery Puncture Arm**

**Features:**
1. Replica of a child hand;
2. Manually squeeze the bulb to simulate the radial pulse and fix the injection site.
3. Supports radial artery puncture, haemospas and transfusion, and there will be obvious “Pop” feeling when the needle penetrates into the artery, and blood backflow indicates proper puncture.

ITEM # UM-3078

**Infant Full body Venipuncture Simulator**

**Features:**
1. Scalp vein (brow scalp veins, superficial temporal veins) puncture, venous injection, infusion and metachysis.
2. The median basilic vein on the right and left arm
3. Right leg-femoral vein.
4. Right leg-great saphenous and small saphenous veins.
5. Umbilical vein.
6. There is obvious feeling when needle penetrates into the veins, blood flashback indicates proper insertion.
7. Veins and Skin can be acupuncture repeatedly, these operations won’t cause leaks.
ITEM # UM-3079

**Infant Scalp Vein Injection Model**

Features:
1. Replica of an infant head and shoulder part, with main cephalic veins on the right side of the head.
2. Supports scalp vein injection, transfusion (blood) and haemospasia.

ITEM # UM-3080

**Infant Vein Injection Arm**

Features:
1. Used for vein puncture and vena superficialis transfusion training.
2. The vein of elbow and arm can be punctured.
3. There’s obvious feeling when needle penetrates into the skin; blood flashback indicates proper insertion.

ITEM # UM-3081

**Infant Venipuncture Leg**

Features:
1. There is obvious feeling when needle penetrates into the vein. And blood flashback indicates proper insertion.
2. Provide trainings of instep venipuncture, great saphenous venipuncture, small saphenous venipuncture and heel puncture.

ITEM # UM-3082

**Infant Arteriopuncture Training Arm**

Features:
1. Simulate radial artery pulse by pulse bait manually, and confirm the injection site;
2. Provide trainings of Radial artery puncture, haemospasia, transfusion; there is obvious feeling when needle penetrates into the vein, and blood flashback indicates accurate insertion.
ITEM # UM-3083

Wearable Elderly Action Simulation Suit

Features:
1. Designed basing on the physiological changes of old people, fine and environmental material, washable;
2. Be able to wear “Simulated Elderly Action Suit” to experience old people’s life and the aging feeling of the specific part of the body, and provides better understanding for old people’s feeling.
3. Adjustable cured angel of the back and body.

ITEM # UM-3084

Hemiparesis Nursing Simulation Suit

Features:
1. Designed according to the physiological changes of hemiparesis patient, fine and environmental material, washable
2. Experience left-right hemiparesis
3. Stiff oints because of fixation by the restriction device, tightness of rubber band can be adjust
4. Trainer can experience the importance of crutches
5. Shoes are designed for old and disable people, portable and antiskid.

ITEM # UM-3085

Teeth Care Model

Features:
The model can be used for the training of tooth brushing, dental floss care, etc.
Human Anatomical Model

ITEM # UM-4001

Features:

- 80cm human muscle model include 27 dissectible parts: body, cut calvarium, brain (2 parts), thoracic and abdominal wall, right arm, left arm (5 parts), leg (9 parts), lung (2 parts), heart (2 parts), liver, stomach and intestine.

ITEM # UM-4002

Tri-sex Human Torso 85cm

85cm human torso include 21 parts: torso, female breast plate, head, eyeball, brain, vertebra spinal nerves, lung (2 parts), heart (2 parts), female genitalia with fetus (3 parts), none sex genitalia.
ITEM # UM-4003

**Sexless Torso 42cm**

Model include 18 parts: torso, head, brain, trachea, esophagus and descending aorta, diaphragm, lung (4 parts), heart (2 parts), stomach, liver, kidney, pancreas and spleen, intestine, vertebra spinal nerves.

ITEM # UM-4004

**Male Human Torso 42cm**

Male human torso include 13 parts: torso, head (2 parts), brain, lung (2 parts), heart (2 parts), stomach, liver, kidney, pancreas and spleen, intestine.

ITEM # UM-4005

**Female Human Torso 42cm**

Female human torso include 15 parts: torso, head (2 parts), brain, lung (2 parts), heart (2 parts), stomach, liver, kidney, pancreas and spleen, intestine, female genitalia (2 parts)
ITEM # UM-4006

Unisex Human Torso 45cm

Model include 23 parts: torso, female breast plate, head, eyeball, brain, vertebra spinal nerves, lung (2 parts), heart (2 parts), liver, kidney, stomach (2 parts), intestines (4 parts), male genitalia (2 parts), female genitalia with fetus (3 parts).

ITEM # UM-4007    ITEM # UM-4008    ITEM # UM-4009

Artificial Human Skeleton (Male)    Artificial Human Skeleton (Female)    Artificial Human Skeleton (85cm)

Features:
1. Natural size 180cm with base.
2. The model shows all the anatomic details of the skeleton structure.
3. Joint and upper, lower extremities is removable.

Features:
1. Model with base shows all the anatomic details of the skeleton structure.
2. Joint and upper, lower extremities is removable.
**ITEM # UM-4010**

**Human Skeleton 45cm**

Miniature skeleton model features a movable jaw on springs, removable calvarium, arms and legs that are removable for individual demonstration.

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**ITEM # UM-4011**

**Vertebral Column with Pelvis**

- The model demonstrates all significant features of each vertebra, including spinal cord, nerve roots, the vertebral artery, a herniated disc and vertebral notch etc. Special features include: inflexible 29" tall vertebral column complete with pelvis, sacrum, occipital bone, vertebral artery, all vertebral branches and herniated lumbar disc.

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**ITEM # UM-4012**

**Colored Human Skull**

Life size human skull painted in different colors for demonstration can be disassembled into 3 parts.

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**ITEM # UM-4013**

**Life-size Skull**

- Life size skull features a movable jaw, cut calvarium and suture lines. Have a more obvious manifestations of bone. Can be disassembled into 3 parts.

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**ITEM # UM-4013**

**Adult Male Pelvis**

Life size male pelvis, demonstrate anatomical features of adult male pelvis.

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**ITEM # UM-4014**

**Adult Female Pelvis**

- Life size female pelvis, demonstrate anatomical features of adult female pelvis.
ITEM # UM-4015

**Female Pelvis Muscles and Organs**

Model is designed to demonstrate female pelvic muscles and organs.

ITEM # UM-4016

**Female Pelvis with Genital, Blood Vessel and Nerves**

- Model painted in lifelike color, demonstrate all the interior and exterior female organs, blood vessels, ligament, nerves, muscle structures within the framework of the bony pelvis.

ITEM # UM-4017

**Life-size Shoulder Joint**

Demonstrates abduction, adduction, anteversion, retroversion and internal/external rotation. Include flexible, artificial ligaments.

ITEM # UM-4018

**Life-size Hip Joint**

- Demonstrate abduction, anteversion, retroversion and internal / external rotation. Include flexible artificial ligaments.

ITEM # UM-4019

**Life-size Foot Joint with Ligaments**

Demonstrates all of foot functionality and external anatomical structures. Include flexible artificial ligaments.

ITEM # UM-4020

**Life-size Hand Joint with Ligaments**

- Demonstrates all the hand functionality and external anatomical structures. Include flexible artificial ligaments.
ITEM # UM-4021  
**Digestive System**

Model demonstrates alimentary canal from mouth to rectum in median section and display buccal cavity, pharynx, esophagus with half of the stomach, opened duodenum, small and large intestines, opened appendix, unfolded rectum, transverse colon, liver, pancreas, etc.

ITEM # UM-4022  
**Stomach**

- Model demonstrates cardia, pylorus, stomach fundus, stomach body, lesser and greater curvature of stomach, angular incisure, pyloric antrum and canal.

ITEM # UM-4023  
**Pancreas, Spleen and Duodenum**

Life size, pancreas, spleen and duodenum are displayed, the pancreas is open to show the entire pancreas duct, and duodenum is partially dissected to expose inner structure.

ITEM # UM-4024  
**Left and Right Lungs**

- Life size, separated in 4 parts, two removable lobes can be taken out from lungs for observing inner structure.

ITEM # UM-4025  
**Skin Block Model**

Model demonstrates a section of human skin in three dimensional forms. Hair, sebaceous and sweat glands, receptors, nerves and vessels are shown in details.

ITEM # UM-4026  
**Skin Section Model**

- Model demonstrates layers of skin, first rudiments of hair, sweat gland, sense organs of skin, connected with side hinges.
ITEM # UM-4027

Liver, Pancreas and Duodenum Model

Model demonstrates liver, spleen, blood vessels and pancreas. External structures are illustrated as well as the pancreatic duct of the pancreas. Also shows the abdominal aorta and inferior vena cava.

ITEM # UM-4028

Liver Model

Model demonstrates basic anatomical structure of liver. Complex vessels network in the opened liver, displayed in different colors in the liver model: hilus vessels, the extra-hepatic and intra-hepatic bile ducts.

ITEM # UM-4029

Larynx, Heart and Lung Model

This life size model is separated into 7 parts. Lungs have two removable lobes to show the internal structures, heart bisects showing atria, ventricles and valves, larynx bisects and diaphragm is shown.

ITEM # UM-4030

Urinary System

Model demonstrates structure of retroperitoneal cavity, pelvis with bones and muscles, inferior vena cava, aorta with its branches, upper urinary tract, kidney with adrenal gland, ureter, bladder, etc.

ITEM # UM-4031

Male Urogenital System

Model demonstrates external features of urogenital system and internal structure of the kidney, urinary bladder, penis and testicle.

ITEM # UM-4032

Female Urogenital System

Model demonstrates kidney, ureters, urinary bladder, uterus, accessories of uterus, vagina, ovary membrane, ligaments, uterus ligament and its artery etc.
ITEM # UM-4033

**Kidney, Nephron and Glomerulus**

Model consists of 3 models, demonstrates structure of the renal section plane (include cortical substance, medulla, proximal convoluted tubule, distal convoluted, connecting canal, mammillary ducts, minor renal calices, greater renal calices, pelvis of ureter, ureter), nephron structure, golomerus (include renal capsule, glomus) and blood vessels.

ITEM # UM-4034

**Enlarged Kidney**

Model demonstrates medulla, minor renal calices, greater renal calices, pelvis of ureter, ureter, renal arteries, renal vena, etc.
ITEM # UM-4035

Enlarged Heart Model

This model shows the anatomy of human heart with aortic arch, coronal section of atrium and ventricle, valves, veins in details. Dissectible into 3 parts, 4 times enlarged.

ITEM # UM-4036

Life-size Human Heart

Life size human heart model demonstrates precise anatomical structures.
**Female Pelvis Section**

The median section model demonstrates female genital organs with bladder and rectum. The abdominal and pelvis muscles are represented in details.

**Male Pelvis Section**

This median section model demonstrates normal position of male genital organs with bladder and rectum in the male pelvis.

**Ear Model**

Demonstration of outer, middle and inner ear. 1.5 times enlarged.
ITEM # UM-4040

**Ear Anatomy**

Model demonstrates three main structural parts of the hearing organ (external ear, middle ear, internal ear) and the position of the equilibrium organ of human body. 5 times enlarged, dissectible into 6 parts.

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ITEM # UM-4041

**Magnified Human Larynx Model**

Demonstrate movements of the epiglottis and cartilages in the voice box. Dissectible into 3 parts, 3 times enlarged.
ITEM # UM-4042
Enlarged Eyeball
6 times enlarged eyeball demonstrates human eye anatomical structure, detachable for demonstrating tunica external, tunica media, tunica internal and refraction media.

ITEM # UM-4043
Enlarged Eye in Orbit
- Model demonstrates eyeball with optic nerves and muscles in its natural position in bony orbit. Dissectible into 10 parts, 3 times enlarged.

ITEM # UM-4044
Brain with Artery and Nerves
Life size brain model with artery and nerves mounted on base. Dissectible into 9 parts.

ITEM # UM-4045
Brain Model
- 2 times enlarged brain model, dissectible into 4 parts, labeled anatomical structures.

ITEM # UM-4046
Nasal Cavity
Model demonstrates external and internal structure of nasal cavity. Half like size.

ITEM # UM-4047
Uterus Model with Pathology
- Model demonstrates uterus with pathologies in details, mounted on base with anatomical structure diagram card at back.