



NURSING

CATALOG OF MANUFACTURED PRODUCTS



SOLUTION
SCIENTIFIC AND TECHNICAL CENTER

000 STC «SOLUTION»

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DEAR PARTNERS!

The scientific and technical center «Solution» specializes in the development and manufacture of mannequins and medical simulators of any complexity for completing training centers, school classes, driving schools, medical educational institutions.

In assortment of the company there is a wide range of medical mannequins to test the ability of first aid for injuries, burns, any foreign objects in the upper respiratory tract, techniques, cardiovascular pulmonary resuscitation, simulators and training systems for different sections of medicine (cardiology, dentistry, proctology, gynecology, etc.)

Our specialists carried out extensive work on the study of world experience in the field of educational equipment for the training of health workers in various specialties, because of which our own samples of educational products were developed. Our products in quality and functional characteristics are equal to foreign analogues.

The use of training complexes in the process of training medical workers allows for practical training of the skills of conducting most basic medical procedures in conditions close to real ones, which is achieved through the use of modern materials that simulate human living tissue.

The product range of STC «Solution» is constantly updated with new developments and solutions for an effective educational process.

The company STC «Solution» offers its customers the development and manufacture of simulators of any complexity according to an individual project. If you could not find the right equipment in the company's assortment, our specialists will develop a unique product for you directly for your goals and objectives.

We hope for fruitful cooperation and ask you to inform us about your interest. We are pleased by your interest in our production.

With best regards,
Director of STC «Solution»
P. A. KASHIN



STC «SOLUTION» offers cooperation in the production and supply of SPECIALIZED EDUCATIONAL EQUIPMENT

M1041

SIMULATOR-DUMMY FOR PRACTICING NURSING SKILLS AND MEASURING BLOOD PRESSURE

This simulator-dummy is an adult torso with upper and lower limbs and it is designed to practice the skills of general patient care, as well as measuring blood pressure.

Possibility of carrying out a complex of medical measures:

- washing your hair and face;
- washing the ears and eyes, instilling drops;
- gastric lavage;
- oral care;
- sputum suction;
- feeding through the mouth and nasal probe;
- injections into the deltoid muscle;
- enema setting;
- urethral catheterization;
- stoma care;
- patient transportation;
- blood pressure measurement;
- change of clothes.

Anatomical features of the simulator-dummy:

- the size of the torso and the proportions are similar to the physique of an adult;
- flexible limbs;
- change of genitals.

The dummy is designed to improve the effectiveness of training students and practitioners in passing certification and accreditation. The simulator-dummy was developed under the accreditation program «Nursing».



Dimensions: 1800x600x250 mm



Weight: 19 kg

Equipment:

- dummy (torso, head, upper and lower limbs);
- upper limb for blood pressure measurement;
- tablet computer;
- power supply unit;
- sphygmomanometer simulator;
- hand model stand;
- tracksuit;
- catheter;
- passport of product;
- user manual.



M1071

SIMULATOR FOR PRACTICING CPR SKILLS WITH COMPUTER REGISTRATION OF INDICATORS «VOLODYA-03»

This simulator is a full-length model of a person and it is designed to practice the skills of cardiopulmonary resuscitation, including detecting a person without signs of consciousness and calling for help on the emergency phone 112. The materials of the simulator are close to natural values in their physical properties.

The robot simulator allows you to perform the following medical activities related to first aid:

- diagnosis of the victim's condition;
- cardiopulmonary resuscitation;
- immobilization of the limbs;
- transport of the victim.

Anatomical landmarks of the robot simulator:

- thyroid cartilage;
- xiphoid process of the sternum;
- large pectoral muscles.

Functional features of the robot simulator:

- the size of the torso and proportions are similar to the body of an adult;
- ability to extend the head;
- ability to lift the chin;
- replaceable airways;
- the face mask, made of elastic material, is close to the natural values in its tactile properties, which allows you to perform actions to press the wings of the nose when performing a ventilator;
- visual monitoring of the chest excursion when performing a ventilator;
- the appearance of a pulse on the carotid arteries.

It is safe to work with the robot simulator by using of an individual training face mask with a one-way valve, which prevents the risk of cross-infection, as well as a set of sanitary napkins for artificial lung ventilation.

The anatomical tableau, controller and software included in the package allow you to evaluate:

- the position of the hands;
- correct decompression;
- ventilator volume (sufficient, insufficient, excessive);
- ventilator speed (inhalation speed);
- compression depth;
- compression rate;
- the effectiveness of CPR.

These parameters are presented in the software in the form of a graphical display and digital values, which makes it possible to evaluate all stages of the implementation of CPR activities in real time. The simulator software allows you to work with it in training mode and in exam mode, when only the time allotted for performing CPR activities is displayed on the screen.

Key indicators of CPR measures are focused on the standards of leading cardiology associations and associations of resuscitators around the world, taking into account the latest recommendations.

The results of the exercises are recorded in the database, so that the teacher has the opportunity to evaluate the actions performed, the dynamics of changes in the errors and shortcomings performed.

The software also provides an opportunity to demonstrate theoretical materials, control their development using tests, get acquainted with photo and video materials of the stages and various methods of performing CPR and providing emergency medical care to victims at the scene.



Dimensions: 1850x600x260 mm



Weight: 20 kg

Equipment:

- mannequin;
- the controller;
- training mask with one-way valve (3 pcs.);
- styrofoam mat;
- compression springs of various stiffness;
- AC adapter with an output voltage of 12 V (for powering the robot simulator);
- passport of product;
- wired phone;
- sanitary napkin for artificial lung ventilation (100 pcs.);
- tracksuit;
- anatomical tableau;
- skin antiseptic in a spray bottle;
- transport bag;
- replaceable airways (2 pcs.);
- user manual.



T1041

SIMULATOR FOR PRACTICING THE SKILLS OF APPLYING BANDAGES

It is a model of the body of an 8-10-year-old teenager.

The design of the simulator reproduces the main anatomical landmarks and the general plan of the structure of the human body, such as:

- head extension;
- flexion of the limbs in the main joints;
- xiphoid process of the sternum; ■ breast nipples;
- the body is made of a flesh-colored synthetic material that mimics human skin.

The simulator is designed to practice the following skills:

- applying bandages;
- bus alignment;
- stop simulated bleeding;
- intravenous injections;
- intraosseous injections.

The simulator is intended for use in general educational institutions of a medical profile.



Dimensions: 1200x400x200 mm



Weight: 10 kg



Equipment:

- exercise machine-dummy;
- injury kit;
- passport of product;
- user manual.

M1001

NURSING TRAINING SIMULATOR

The simulator is a torso of an adult with upper and lower extremities and is designed to develop general patient care skills.

Possibility of a range of medical events:

- washing the head and face;
- oral care;
- feeding through the mouth and nasal tube;
- setting an enema;
- stomas care;
- changing of clothes;
- washing the ears and eyes, dripping drops;
- sputum suction;
- injections into the deltoid muscle;
- urethral catheterization;
- transportation of the patient;

Anatomical features of a training simulator:

- torso size and proportions are similar to the physique of an adult;
- bent limbs;
- genital change.

The mannequin is designed to increase the efficiency of training students, residents and practitioners in certification and accreditation.



Dimensions: 1800x600x250 mm



Weight: 15 kg



Equipment:

- mannequin (trunk, head, upper and lower limbs);
- passport of product;
- track suit;
- user manual.
- catheter;

M1045

SIMULATOR FOR PRACTICING ECG SKILLS

In which section on the site: Accreditation of SPO-medical care, nursing

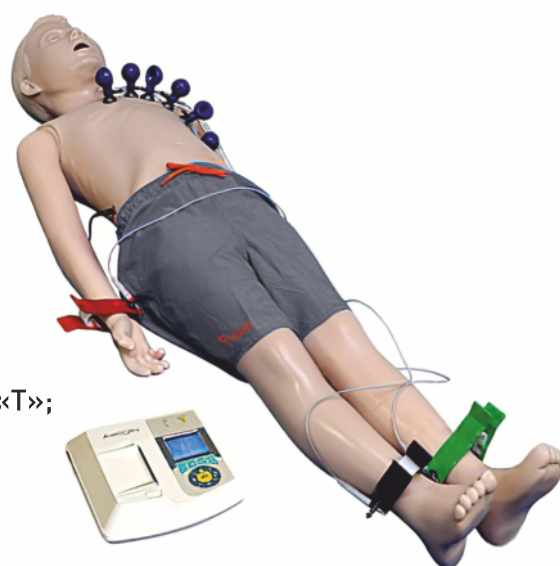
This simulator is an anatomically correct model of a teenager and it is designed to practice the technique of recording and decoding ECG. The material of the simulator in its physical properties is close to the real values.

Functional features:

- control of the electrode overlay by means of a light indication;
- using a real ECG machine.

Implemented heart rhythms:

- polytopic atrial extrasystoles;
- atrial flutter;
- sinus arrhythmia;
- low-amplitude atrial fibrillation;
- high-amplitude atrial fibrillation;
- AV block of the first degree;
- AV block of the II degree of the Mobitz I type;
- atrial pauses of more than 2.5 s
- ventricular monofocal extrasystole;
- ventricular multifocal extrasystole;
- ventricular extrasystole;
- ventricular extrasystole of the bigemina type;
- insertion early ventricular extrasystole of type «R» to «T»;
- paired ventricular extrasystoles, polymorphic;
- running erratic ventricular tachycardia;
- tachycardia with a wide QRS complex;
- ventricular fibrillation;
- ST-segment lift;
- ST-segment depression.



The electrocardiograph has the following operating modes:

- self-testing;
- manual recording of an electrocardiogram (ECG);
- automatic ECG recording; ECG recording in memory;
- copy ECG from memory;
- transfer of the ECG to a personal computer;
- ECG output via the built-in thermal printer.

The simulator is intended for use by students and cadets of universities and medical colleges in the course of accreditation.



Dimensions: 1200x400x200 mm



Weight: 15 kg

Equipment:

- teen model;
- electrocardiograph;
- storage bag;
- passport of product;
- user manual.

M1044

CHILD CARE TRAINING MODEL

This model is a model of a child and it is designed to practice nursing care. The upper and lower limbs are mobile in the main joints. The physical properties of the model materials are close to the natural values.

On the simulator, you can practice:

- inhalation;
- washing your hair and face;
- working with the nebulizer;
- washing the ears and eyes, instilling drops;
- feeding through the mouth and nasal probe;
- suction of sputum from the oral cavity;
- intramuscular and subcutaneous injections into the deltoid muscle;
- intramuscular injections into the thigh;
- intramuscular injections into the gluteal muscle;
- enema setting;
- oral care;
- gastric lavage;
- catheterization, bladder lavage;
- change of clothes.

The simulator is intended for use by students of universities and medical colleges in the course of accreditation.



Dimensions: 570x280x140 mm



Weight: 3 kg

Equipment:

- baby dummy;
- sanitary napkins (100 pcs.);
- body;
- nebulizer;
- transport bag;
- abdominal wall (2 pcs.);
- lubricant;
- gastric tube;
- passport of product;
- replacement stomach (2 pcs.);
- the diaper;
- catheter;
- user manual.

M1013

SIMULATOR FOR PRACTICING BLOOD PRESSURE MEASUREMENT SKILLS

This simulator is a model of a hand on a stand and a simulator of a sphygmomanometer for measuring blood pressure.

Implemented functional features:

- listening to the Korotkov tones of the brachial artery with a stethoscope;
- measurement of systolic and diastolic pressure;
- adjustment of systolic and diastolic pressure;
- heart rate adjustment;
- palpation of the radial artery pulse to determine the heart rate.

The hand is made of synthetic material that visually and palpationally imitates human skin. There is a function for connecting external speakers to listen to Korotkov's tones in the audience. The work with the simulator is controlled using a tablet computer.



Dimensions: 700x200x210 mm



Weight: 5 kg

Equipment:

- hand model;
- tablet computer with pre-installed software;
- power supply unit;
- sphygmomanometer simulator;
- stand for the model;
- storage bag;
- passport of product;
- user manual;
- methodological recommendations.

M1057

SIMULATOR FOR PRACTICING TRACHEAL INTUBATION SKILLS

It is a model of the human head and neck with the organs of the respiratory and digestive systems.

The simulator reproduces the anatomical features that play a key role in the course of intubation:

- physiological mobility of the head, neck, lower jaw and larynx;
- the size, elasticity, and topography of the upper respiratory tract, larynx, and trachea correspond to those of an adult.

Functional features:

- the possibility of various types of intubation: oropharyngeal, nasopharyngeal, hardware ventilator;
- feedback on the correct execution of the procedure in the form of visualization of the respiratory movements of the lungs;
- monitoring the volume of the stomach to assess the correct location of the intubation tube;
- laryngospasm and swelling of the tongue-for difficult intubation;
- sound signal when the laryngoscope blade is pressed too hard on the teeth of the upper jaw;
- the possibility of performing a tracheotomy.

This simulator is intended for using by students of universities and medical colleges in the course of accreditation.



Dimensions: 600x400x270 mm



Weight: 6 kg



Equipment:

- tracheal intubation simulator on a stand;
- replaceable inserts;
- lubricant.
- passport of product.
- user manual.

M1042

SIMULATOR FOR PALPATORY EXAMINATION OF LYMPH NODES

This simulator is an anatomically correct model of a person's head and neck, that is mounted on a base.

It's designed to master the skills of clinical palpatory examination of the lymph nodes:

- occipital;
- parotid;
- submandibular.

The physical properties of the model material are close to the real values.

Various variants of overlays allow you to combine pathologically enlarged and unchanged lymph nodes.



Dimensions: 210x210x285 mm



Weight: 3 kg



Equipment:

- head model;
- foundation;
- pads including lymph nodes (6 pcs.);
- passport of product.

M1102

UPPER LIMB PHANTOM FOR VENIPUNCTURE AND INJECTION

Simulator is a model of the upper limb and is designed to practice the technique of various types of injections. The material of the model is close to the real values in its physical properties. The complex vascular network of the upper limb is reproduced, the veins are well palpated.



The simulator includes:

- v. Basilica;
- v. Dorsalis Metacarpi;
- v. Antebrachia Mediana;
- v. Cubitalis;
- venous arcade of the back of the hand;
- v. Cephalica;
- v. Basilic Mediana;
- v. Cephalica Mediana;
- the vein of the thumb;
- intercarpal and interdigital veins.

Functional features:

- feeling of failure when inserting the needle;
- reverse blood flow when pulling the plunger of the syringe on itself;
- a tight insertion in the deltoid muscle area defines and restricts the location for intramuscular injections;
- a tight insert in the shoulder area simulates bone structures, defines and restricts the injection site;
- the site for intradermal injections is located on the forearm. Intradermal injections with the introduction of fluid cause the appearance of a characteristic skin «button».

The simulator is designed for use in medical educational institutions.



Dimensions: 770x140x150 mm



Weight: 4 kg

Equipment:

- upper limb phantom for venipuncture and injection;
- artificial blood infusion tank;
- artificial blood;
- passport of product;
- user manual.

M1005

SIMULATOR-PAD FOR PRACTICING SUBCUTANEOUS INJECTION SKILLS

This simulator is a plastic pad with soft elastic skin and subcutaneous fat with the possibility of attaching to a person's arm or a simulator using elastic straps. The liquid injected into the simulator during injections can be easily squeezed out.



All components of the lining (skin, adipose tissue) are removable and can be replaced as they wear out.



Dimensions: 210x140x80 mm



Weight: 0,1 kg

Equipment:

- exercise equipment-pad;
- passport of product.

M1002

ARM SIMULATOR FOR PRACTICING THE SKILLS OF INTRAVENOUS PROCEDURES (ADULT)

The simulator is an accurately executed model of the upper limb of an adult with superficial veins mounted on a base (stand position).

The material used in the manufacture, fully imitates the skin and subcutaneous fat of a person. Imitators of veins and surrounding tissues are made taking into account functional mobility and elasticity, and provides a «sense of failure» of the needle during intravenous injection. The needle holes remain invisible even after repeated insertion into the same place.



The hand model makes it possible to practice several skills at once:

- blood sampling; ■ injection; ■ infusion.

The simulator has several points for blood sampling, injection and infusion. The veins on the arm are well palpable, due to this, you can quickly learn the skills to perform manipulations on the upper limb. The simulator is great for group classes, respectively, all materials are replaceable. The network of veins and arteries is shown on the base, which contributes to the study of the anatomy of the upper limb.



Dimensions: 535x200x150 mm



Weight: 3 кг

Equipment:

- base (stand);
- capacity for dilution of blood;
- spare veins;
- passport of product;
- anatomical model of the upper limb;
- pressure pear;
- injection kit;
- user manual.
- talc;
- spare skin;

M1003

ARM SIMULATOR FOR PRACTICING THE SKILLS OF INTRAVENOUS PROCEDURES (CHILD 5-8 YEARS)

The simulator is a precisely executed model of the upper limb of a child (5-8 years old) of a person with superficial veins, mounted on a base (stand).

The material used in the manufacture, fully imitates the skin and subcutaneous fat of a person. Imitators of veins and surrounding tissues are made taking into account functional mobility and elasticity, and provides a «sense of failure» of the needle during intravenous injection. The needle holes remain invisible even after repeated insertion into the same place.



The hand model makes it possible to practice several skills at once:

- blood sampling; ■ injection; ■ infusion.

The simulator has several points for blood sampling, injection and infusion. The veins on the arm are well palpable, due to this, you can quickly learn the skills to perform manipulations on the upper limb.

The simulator is great for group classes, respectively, all materials are replaceable. The network of veins and arteries is shown on the base, which contributes to the study of the anatomy of the upper limb.



Dimensions: 600x130x100 mm



Weight: 1,5 kg

Equipment:

- base (stand);
- capacity for dilution of blood;
- spare veins;
- passport of product;
- anatomical model of the upper limb;
- pressure pear;
- injection kit;
- user manual.
- talc;
- spare skin;

M1006

PELVIC FLOOR SIMULATOR FOR ENEMA, INTRAMUSCULAR INJECTIONS, STOMA TREATMENT

This simulator is an anatomical model of the lower part of the human torso, with the proximal extremities of the thighs. The simulator has removable elastic inserts in the anal area for practicing enema setting skills, in the upper-outer square of the buttock-for practicing intramuscular injection skills, as well as on the anterior abdominal wall three types of stomas: iliostoma, colostoma and urostoma that allows you to practice skills in their processing.

The material of manufacture of the simulator simulates the tissues of the human body.

The simulator is designed to improve the effectiveness of training students of colleges and universities of medical profile.

The simulator is designed for practicing skills:

- enema setting;
- intramuscular injections;
- treatment, drainage of stomas.



Dimensions: 295x270x305 mm



Weight: 1,1 kg



Equipment:

- the phantom of the pelvis;
- needles (5 pcs.);
- passport of product .

M1008

BUTTOCK PHANTOM FOR INTRAMUSCULAR INJECTIONS

This phantom is a realistic model of the human gluteal region with bone landmarks (sacrum, large trochanter, iliac crest) for determining the location and direct implementation of all stages of the intramuscular injection algorithm. The simulator consists of a strong base, removable elastic skin and soft tissues.



Dimensions: 310x290x150 mm



Weight: 3,8 kg



Equipment:

- phantom;
- needles (5 pcs.);
- passport of product.

M1010

SIMULATOR-PAD FOR INTRADERMAL, INSULIN, SUBCUTANEOUS AND INTRAMUSCULAR INJECTIONS

Simulator is an overlay with an imitation of the skin, subcutaneous fat and human muscles, it is mounted on a plate that protects from injuries with the possibility of attachment to the thigh, abdomen and arm of a person or a mannequin.

The simulator is fixed with an elastic locking belt. There are 4 areas on the outer part of the pad for performing intradermal injections.

The pad is designed for practicing the skills of intradermal injections, subcutaneous injections, intramuscular injections, insulin injections.



Dimensions: 125x90x45 mm



Weight: 0,2 kg

Equipment:

- equipment-pad;
- passport of product.

M1011

A DEMONSTRATION MODEL OF A DIABETIC FOOT

This model reproduces the structure of the foot and the distal half of the lower leg.

The model shows the following manifestations of diabetes mellitus:

- soft tissue edema;
- various stages of necrotic lesions;
- infectious suppuration.
- black scab;
- ulcers;

The model is made of a durable polymer material, the aim of design is to increase the visibility of teaching the relevant section of medicine.



Dimensions: 390x90x200 mm



Weight: 2,8 kg

Equipment:

- foot model;
- passport of product.

M1007

SIMULATOR-PAD FOR PRACTICING INTRAVENOUS INJECTION SKILLS

This simulator is a plastic pad with soft elastic skin, subcutaneous fat and imitation veins with the possibility of attaching to a person's arm or a simulator. All components of the lining (skin, adipose tissue, veins) are removable and can be replaced as they wear out.



Dimensions: 210x140x80 mm



Weight: 0,2 kg

Equipment:

- equipment-pad;
- passport of product.

M1012

SIMULATOR FOR TAKING SMEARS FROM THE NOSE AND THROAT

This simulator is an anatomical model of a human head on a stable platform.

The phantom allows you to practice skills:

- taking swabs from the nose and throat;
- placing medications in the eyes, nose and ears;
- introduction of air ducts;
- head dressing.

The material of the simulator as much as possible imitates the visible organs of the front part of the head: lips, cheeks, tongue, eyelids.



Dimensions: 310x210x210 mm



Weight: 1,5 kg



Equipment:

- phantom head;
- passport of product.

M1014

SIMULATOR FOR PROBING AND FLUSHING

It is an anatomically correct model of a human head with an esophagus and stomach. The frame of the head is rigid and the shell, tongue and ears of simulator are made of soft PVC, that allows you to bend the eyelids, lips and cheeks, pull the tongue.

Purpose:

- taking smears from the nose and throat;
- introduction of air ducts;
- gastric lavage;
- putting medicines in the eyes nose and ears.
- artificial feeding;
- head bandaging;
- stomach probing;



Dimensions: 210x210x610 mm



Weight: 2,8 kg



Equipment:

- anatomical model of the head;
- two-level stand;
- stomach model;
- passport of product.

M1015

REPLACEMENT STOMACH MODEL FOR SIMULATOR OF PROBING AND FLUSHING (M1014)

It is a hollow bulky model of the stomach. This model is designed for installation in the simulator of probing and gastric lavage.



Dimensions: 190x140x100 mm



Weight: 0,18 kg



Equipment:

- stomach model;
- passport of product.

M1016

BUTTOCK PHANTOM FOR INTRAMUSCULAR INJECTIONS

A phantom is a realistic model of the gluteal part of a human with bone landmarks (sacrum, large trochanter), to determine the location and practice the skills of intramuscular injections. The phantom consists of a base, removable elastic leather and soft fabrics.



Dimensions: 310x295x145 mm



Weight: 2,8 kg

Equipment:

- the phantom;
- needles (5 pcs.);
- passport of product.



M1017

TORSO PHANTOM FOR STOMA TREATMENT

The phantom represents the ventral part of the female torso with stomas.

It is intended for practicing the skills of treatment and drainage of stomas (tracheostomy, gastrostomy, ileostomy, colostomy, ostomy), the installation of postoperative colostomy bags.



Dimensions: 620x440x140 mm



Weight: 1 kg

Equipment:

- trunk phantom for stoma treatment;
- passport of product.



M1018

MALE PERINEUM SIMULATOR FOR BLADDER CATHETERIZATION

This simulator is a model of the lower torso of a man. The body of the simulator is made of a durable material and removable, soft liner, a male sexual organ that installed on it. The design of the simulator has a built-in fluid reservoir and a valve that simulates a sphincter that holds fluid in the bladder.

If the catheter is inserted correctly, fluid will be removed from the bladder through it. The phantom allows you to feel a realistic effort of moving the catheter.



Dimensions: 450x280x145 mm



Weight: 1,6 kg

Equipment:

- the simulator of the female perineum;
- catheter;
- passport of product.

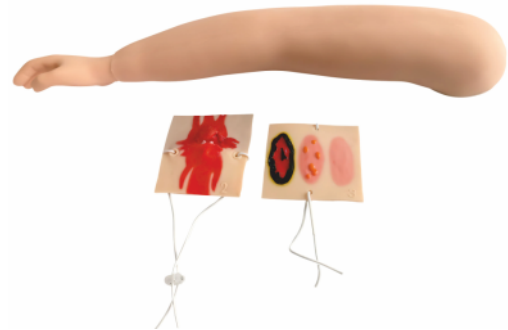


M1026

PHANTOM OF HANDS FOR APPLYING AND REMOVING STITCHES, TREATING BURNS AND WOUNDS

A phantom is made as an upper limb of a teenager and is intended for mastering the practice of applying and removing surgical sutures, treating wounds and burns. The material of the simulator imitates the human skin by its visual properties that promotes to the resistance to breaking loads when it pulled together with suture material. In the area of the forearm a wound defect is placed for suturing. Self-inflicted wounds and cuts are provided.

The simulator kit includes two pads, a cut and burn wound for practicing the skills of care and dressing. The pads are made with a special mount and can be installed in any place.



Dimensions: 535x80x85 mm



Weight: 1 kg

Equipment:

- upper limb model;
- pad for treating burns and wounds (2 pcs.);
- needle for suturing (10 pcs.);
- passport of product.

M1033

SIMULATOR FOR PRACTICING THE SKILLS OF FEMALE URETHRAL CATHETERIZATION

This simulator is a fragment of the female perineum with an imitation of the urinary tract and it is designed to master the practice of catheterization of the bladder. The material of the simulator in its physical properties is close to the natural values. The valve integrated into the simulator, that simulates the urethral sphincter, provides real resistance when the catheter is inserted. With its correct introduction the liquid is released from a special tank.

The model is attached to a person or a dummy, so that it can be used on a standardized patient during the accreditation process.



Dimensions: 200x100x70 mm



Weight: 0,5 kg

Equipment:

- model;
- liquid container;
- set of drainage pipes;
- catheter;
- tube connector;
- transport bag;
- passport of product;
- user manual.

M1029

SIMULATOR FOR INTRAMUSCULAR INJECTIONS (HIP)

This simulator is a model of the proximal fragment of the lower limb of a person. It is intended to mastering the practical skills of intramuscular injections into the thigh and displaying all important anatomical landmarks, such as the kneecap and large trochanter.

To achieve feedback and an objective assessment of the intramuscular injection technique, the simulator kit includes a controller that allows you to evaluate the needle insertion site and the depth of the injection by giving sound and light signals when the manipulation is performed correctly and incorrectly.

The material of the simulator according to its physical properties is close to natural values, that creates maximum realism when performing manipulations.

The simulator is intended for using by students of universities and medical colleges in the course of accreditation.



Dimensions: 500x180x120 mm



Weight: 2,75 kg

Equipment:

- model of the lower limb fragment;
- electric controller;
- AA type power supply (2 pcs.);
- injection kit;
- transport bag;
- passport of product;
- user manual.

M1037

FEMALE PERINEUM SIMULATOR FOR BLADDER CATHETERIZATION

This simulator is an anatomically right model of the lower torso of a woman with external genitals. It is intended for practicing the skills of catheterization of the bladder with the function of monitoring the actions performed. The simulator has a built-in fluid reservoir and a valve that imitates the internal urethral sphincter that holds fluid in the bladder.

When the catheter is inserted correctly, fluid will be removed from the bladder. The simulator allows you to feel a realistic effort when moving the catheter.

External genitals are replaceable.



Dimensions: 450x280x145 mm



Weight: 1,6 kg

Equipment:

- female perineum trainer;
- catheter;
- passport of product.

HEART AND LUNG AUSCULTATION SIMULATOR

Simulator is a model of the human torso that is installed on a special base. It is intended for practicing the skills of auscultation of the heart and lungs with subsequent interpretation of the results. The auscultation points are located in projections which are adopted in medical practices. It makes it possible to listen to the dorsal and ventral parts.

Highly sensitive sensors is integrated into standard auscultation points, it allows you to reproduce a particular sound when they are correctly touched with a stethoscope.

Functional features:

- the possibility of conducting individual and group classes;
- extensive database of real sound pictures;
- anatomical landmarks in the form of clavicles, ribs, intercostals and large pectoral muscles.

The material of the simulator's manufacture is close to the natural values of the skin by its physical properties.

Auscultative sounds and heart rhythms: aortic stenosis; the second heart tone is split; the second heart tone is amplified; holosystolic noise; ventricular septal defect; atrial septal defect; pendulum-like rhythm; mitral stenosis; mitral valve insufficiency; normal heart tones; open ductus arteriosus; the first heart tone is weakened; the first heart tone is split; the first heart tone is amplified; various options for the gallop rhythm; blood regurgitation in case of aortic valve insufficiency; blood regurgitation in case of tricuspid valve insufficiency; stenosis of the pulmonary trunk; physiological third heart tone; four-part rhythm; pericardial friction noise; isolated pulmonary artery valve stenosis; atrial fibrillation; aortic insufficiency.

Breathing sounds: wet wheezing; dry wheezing; rough wet wheezing; rough breathing noises; crepitation; small bubbly wet wheezes; normal bronchial breathing; normal vesicular respiration; reduced respiratory noise; abnormal bronchial breathing; shortness of breath; whistling wheezes; dry wheezing (low tone); pleural friction noise.

The simulator is equipped with a tablet computer with installed software that allows you to conduct classes in two modes-training and control.

In the training model the student independently chooses a particular pathology and listens to it in standard places of auscultation. When you choose the control mode, the program randomly selects the sound and the student must correlate them with a certain pathology.

For group listening to the studied pathologies, it is possible to connect an acoustic system with the ability to output sound to the audience.

The simulator is intended for use in educational institutions of a medical profile.



Dimensions: 760x520x330 mm



Weight: 20 kg

Equipment:

- simulator;
- phonendoscope;
- wireless headphones;
- tablet computer;
- passport of product;
- user manual.

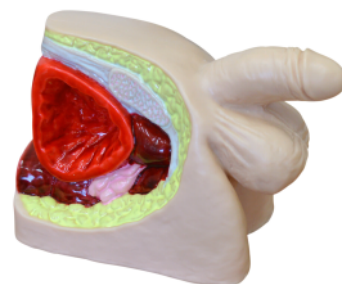
M1085

BLADDER CATHETERIZATION SIMULATOR FOR MEN

It is a model of the male pelvis in a parasagittal section. The model reproduces the external male genitalia, bladder, seminal vesicle, prostate, rectum, and pubic symphysis. The material of the simulator in its physical properties is close to the real values.

The simulator allows you to perform:

- catheterization of the bladder;
- demonstration of the passage of the catheter through the appropriate organs and tissues when the instrument is properly positioned;
- study of the topographic anatomy of the male pelvic organs.



The simulator is designed for use in medical educational institutions, as well as for self-training of patients.



Dimensions: 160x220x115 mm



Weight: 2 kg

Equipment:

- bladder catheterization simulator for men;
- passport of product.

M1077

SIMULATOR FOR PRACTICING THE SKILLS OF INTRAVENOUS PROCEDURES

This simulator is a base with two modules that are installed on it, simulating areas of the skin with subcutaneous fat and veins, of different caliber and are located at different depths. The physical properties of the material are close to the natural values.

The model is designed for practicing the technique of intravenous procedures:

- intravenous injection;
- placement of an intravenous catheter;
- blood collection using a syringe or vacuum cleaner.

Module with different vein depth:

- visible location;
- average depth location;
- surface location;
- deep location.
- shallow location;

The correct execution of manipulations is carried out by means of the flow of fluid that simulates blood. The panel shows the anatomy of the veins of the upper arm for the study of anatomy.



Dimensions: 400x500x100 mm



Weight: 2 kg

Equipment:

- full-color panel;
- training module (2 pcs.);
- injection kit;
- passport of product;
- user manual.

M1084

TRAINING MODEL FOR STOMA CARE

It is a model of the anterior abdominal wall with intestinal stomas that are placed on it.

The simulator reproduces the anatomical features of the specified area and allows you to work out the skills:

- treatment of the skin around the intestinal stoma;
- placement of the colostomy bag;
- washing of the stoma lumen with a catheter;
- applying bandages.

The material of the simulator in its physical properties is close to the real values.

The model presents 4 types of stomas:

- double-barrelled colostomy;
- ileostomy;
- colostomy – 2 types.

The simulator is designed for use in medical educational institutions, as well as for self-training of patients.



Dimensions: 290x210x100 mm



Weight: 2,8 kg

Equipment:

- training model for stoma care;
- passport of product.



M1078

REPLACEMENT MODULE FOR PRACTICING THE SKILLS OF INTRAVENOUS PROCEDURES

It is a set of inserts that includes realistic replacement veins, areas of the skin and subcutaneous fat, it's designed to be installed in the simulator to practice the skills of intravenous procedures. The simulator allows you to practice the skills of intravenous injections and blood collection from various types of vessels that are in different degrees of availability.

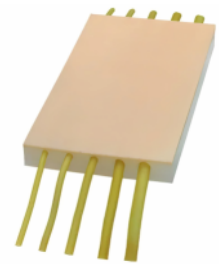
The simulator is designed for training students of medical educational institutions.

Equipment:

- replaceable insert (2 pcs.);
- passport of product.



Weight: 1 kg



M1056

SIMULATOR-PAD FOR PRACTICING THE SKILLS OF INTRAMUSCULAR AND SUBCUTANEOUS INJECTIONS

This simulator is a pad that simulates the skin, subcutaneous fat and muscle layer and it is designed to practice the technique of subcutaneous and intramuscular injections. The material of the simulator in its physical properties is close to the real values.

The solid base of the pad ensures the safe insertion of the needle when it is performing manipulations. The simulator is attached to the hip, stomach, arm with a belt with a buckle.

Students of higher education institutions and medical colleges in the course of accreditation intend the simulator for use. Also it's good for self-study of patients during training in correct insulin injections.



Dimensions: 155x135x45 mm



Weight: 0,2 kg

Equipment:

- exercise equipment-pad;
- passport of product.



M1095

STOMA CARE SIMULATOR (WEARABLE)

It is a model of a fragment of the anterior abdominal wall with intestinal stomas that are placed on it.

The simulator allows you to work out your skills:

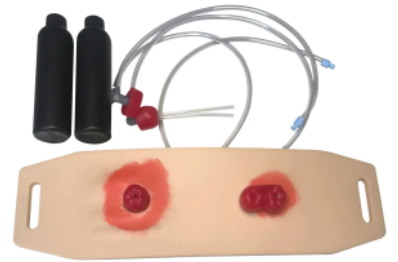
- stoma care;
- applying bandages;
- placement of the colostomy bag.

The material of the simulator in its physical properties is close to the real values. When you install each stoma, you can simulate the output of urine or feces on both sides to create realistic working conditions. All elements are removable that allows you to set different training scenarios. The simulator allows you to get the skills of proper care in order to maintain the health of the skin and develop good hand-eye coordination.

The model presents 4 types of stomas:

- double-barrelled colostomy;
- ileostomy;
- colostomy;
- urostoma.

The simulator is designed for use in medical educational institutions, as well as for self-training of patients.



Dimensions: 440x130x190 mm



Weight: 1,2 kg

Equipment:

- stoma care simulator (wearable);
- velcro strap;
- stent (2 pcs.);
- artificial feces;
- artificial urine;
- 35 ml syringe with Luer tip;
- passport of product.

M1076

SIMULATOR FOR PRACTICING THE SKILLS OF STOMA CARE (TYPE 1)

This simulator is a model of the anterior abdominal wall and it is designed to practice the technique of caring for intestinal stomas. A convenient attachment system allows you to attach the simulator to the body of a person or a mannequin. The physical properties of the model material are close to the natural values.

With the help of the model, skills are worked out:

- placement of care products;
- technique of stoma care.

The simulator is intended for use in medical universities, as well as in the framework of the World Skills professional skills competition.



Dimensions: 400x250x12 mm



Weight: 3 kg

Equipment:

- simulator for practicing the skills of stoma care
- passport of product.



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