



# OBSTETRICS AND GYNECOLOGY

## 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**

**M1111**

## MODEL OF THE FEMALE PELVIS

It is an anatomically accurate model of the bones of the female pelvis with the upper fragments of the femoral bones. All the features of these bones are reproduced.



**Dimensions:** 320x260x155 mm



**Weight:** 1 kg



### Equipment:

- model of the female pelvis;
- passport of product.

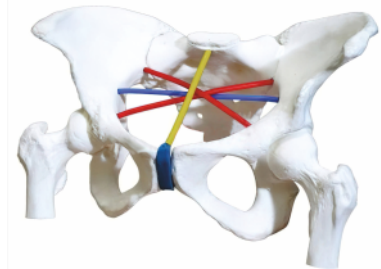
**M1080**

## SIMULATOR FOR PRACTICING PELVIOMETRY SKILLS

This simulator is an anatomically accurate model of the bones of the female pelvis with the upper fragments of the femur bones. All the features of these bones, their topography and topographical areas are reproduced.

The simulator is designed to practice pelviometry skills and determine the following dimensions:

- the distance between the anteroerior spines of the iliac bones (distantia spinarum);
- the distance between the most distant points of the crests of the iliac bones (distantia cristarum);
- the distance between the large trochanteria of the femur (distantia trochanterica);
- external conjugate (conjugata externa);
- pubic angle shapes;
- direct output size;
- the transverse size of the output.



The product is intended for doctors or students of advanced training courses, residents and interns, students of medical universities.



**Dimensions:** 320x260x155 mm



**Weight:** 1 kg

### Equipment:

- pelviometry training simulator;
- passport of product;
- methodological recommendations.

**M1101**

## PHANTOM FOR OBSTETRIC EXAMINATION

This simulator is a model of the torso of a woman at 39-40 weeks of pregnancy with proximal fragments of the lower extremities. The relief and anatomical structure of the anterior abdominal wall are reproduced. The natural significance of the physical properties of the model is provided. The simulator allows you to practice methods of prenatal diagnostics, including Leopold's techniques to perform fetal auscultation and pelviometry.



### Functional features:

- palpable head, buttocks and torso of the fetus;
- anatomical landmarks: pubic symphysis, navel, xiphoid process, iliac crest, large trochanter;
- the distance from the fetal head to the pubic symphysis is adjustable;
- the ability to simulate several options for the location of the fetus, its presentation;
- fetal heartbeat sounds recorded from real patients;
- heart rate is adjustable from 60 to 180 beats/min.



**Dimensions:** 600x300x300 mm



**Weight:** 12 kg

### Equipment:

- phantom for obstetric examination;
- passport of product;
- user manual.

**M1038**

## MODEL OF A NEWBORN BABY WITH A PLACENTA AND AN UMBILICAL CORD

Our model is made in the form of a newborn full-term male child. It has a removable placenta and umbilical cord, it anatomically correctly displays the structure of these organs, as well as the anthropometric data of a newborn child. The material is used to make the model reflects the properties of anatomical structures as closely as possible.



**Dimensions:** 490x160x120 mm



**Weight:** 2,65 kg

### Equipment:

- model of a newborn baby;
- the placenta model;
- the model of the umbilical cord;
- passport of product.

**M1028**

## OBSTETRIC SIMULATOR

This simulator is a model of the lower half of the female torso with proximal fragments of the thighs. It is intended for mastering the practice of obstetric care, practicing obstetric skills, and Leopold's techniques. The simulator includes a model of a fetus with a placenta and an umbilical cord and a removable pad that simulates the perineum.

### The simulator has the following anatomical landmarks:

- vertebral column;
- angle of the birth canal;
- iliac and sciatic bones;
- sacrum;
- pubic joint;
- sacro-spinous ligaments.

The material of the simulator in its physical properties is close to the natural values. The anatomy and structure of the birth canal ensure the passage of the dummy of the full-term fetus.



### Functional features:

- removable front wall;
- the movement of the fetus during the simulation of the birth process is carried out manually;
- the presence of the physiological volume of movements of the limbs in the fetus;
- additional transparent shell for direct observation of the progress of the fetus;
- palpable sutures and fontanelles;
- childbirth with a head facial presentation;
- childbirth with a head occipital presentation;
- delivery with pelvic presentation;
- vacuum extraction of the fetus;
- obstetric techniques for shoulder dystocia;
- birth of the placenta;
- postnatal care.

The simulator can be used by students of universities and medical colleges in the course of accreditation.



**Dimensions:** 410x470x280 mm



**Weight:** 6,75 kg

### Equipment:

- model of the female pelvis;
- the skin of the anterior abdominal wall (opaque);
- the skin of the anterior abdominal wall (transparent);
- full-term fetus dummy;
- the placenta model;
- set of umbilical cord models;
- clips for the umbilical cord model (6pcs);
- replaceable vulva model;
- powder for dilution of simulated blood;
- transport bag;
- passport of product;
- user manual.

**M1034**

## **SIMULATOR FOR GYNECOLOGICAL EXAMINATION**

This simulator is a model of the lower half of the female torso with proximal fragments of the thighs and it is designed to master the practice of gynecological examination. The material of the simulator is made according to its physical properties and it is close to natural values, that creates maximum realism when performing manipulations.

**Accurate anatomy and structure of the genitals allows you to work out the following skills:**

- bimanual research;
- inspection in mirrors;
- sampling of smears for cystology.

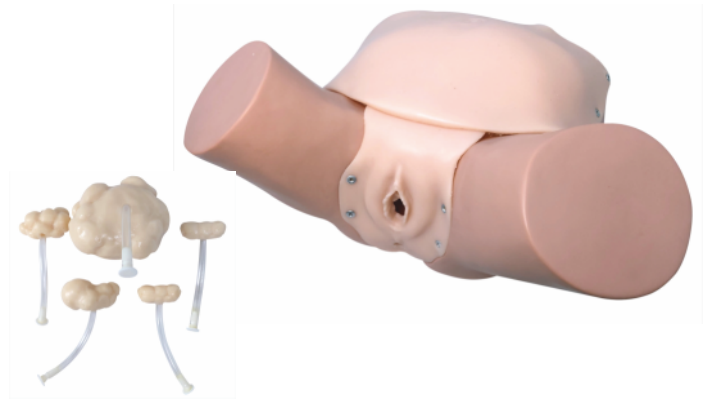
The replaceable components have a modular system, so the simulator can be used with various combinations of pathologies and can be created by your own training tasks.

**7 replaceable models of the uterus with a neck:**

- norm;
- retroversion and cervicitis;
- transparent model for the installation of intrauterine devices;
- postmenopausal and genital herpes;
- fibromyomas and cervical polyp;
- cancer of the uterus and cervix;
- early pregnancy..

**4 ovarian models:**

- normal;
- cyst;
- polycystic disease;
- tumor of the appendages..



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



**Dimensions:** 350x520x250 mm



**Weight:** 6 kg

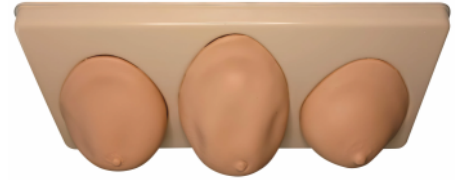
**Equipment:**

- model of the female pelvis;
- normal genital insertion;
- normal pelvic organ block;
- gel abdominal insert;
- tissue abdominal insert;
- abdominal skin pad;
- a set of models of the uterus with a neck (7 pcs.)
- set of ovarian models (5 pcs.);
- insert with pelvic organ prolapse;
- baby powder;
- makeup palette of primary colors;
- makeup palette to simulate damage;
- simulated blood powder;
- hydroxyethylcellulose powder (thickener);
- the Syringe;
- lubricant;
- transport bag;
- passport of product;
- user manual.

**M1039**

## SIMULATOR OF BREAST PALPATION SKILLS

This simulator consists of three models of the breast that is placed on the base. It is intended for practicing the skills of clinical palpatory examination. The first model of the breast includes three neoplasms of different shapes and densities, simulating the malignant growth of a tumor at different stages. On the surface of this model you can see the symptom of «lemon peel». The second mammary gland contains a simulated benign neoplasm with smooth edges, with a diameter of 10 mm. The third mammary gland does not contain pathological changes and displays a variant of the normal structure of the organ.



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

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



**Dimensions:** 520x100x245 mm



**Weight:** 2,5 kg

### Equipment:

- breast model (3 pcs.);
- base;
- passport of product .

**M1047**

## PHANTOM OF THE DEGREE OF CERVICAL DILATION

A phantom is a model of the female genitalia that is designed for practicing of conducting a vaginal examination to assess the degree of opening of the cervix during childbirth. The material of the simulator in its physical properties is close to the natural values.



### Models demonstrate 5 different cervical conditions:

- stage 1: no opening, no shortening.
- stage 2: opening 2 cm, smoothing 100 %.
- stage 3: opening 5 cm, smoothing 100 %.
- stage 4: opening 7 cm, smoothing 100 %.
- stage 5: opening 9 cm, smoothing 100 %.

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



**Dimensions:** 555x390x190 mm



**Weight:** 10 kg

### Equipment:

- set of 5 phantoms;
- transport case;
- passport of product.

# M1079

## BREAST MODELS FOR PUNCTURE BIOPSY UNDER ULTRASOUND CONTROL

This simulator is designed as a set of breast models that is placed on the base.

The kit includes two types of models:

- **Transparent:** the initial level, hypo-echogenic and hyperechogenic inclusions are colored differently. The biopsy is performed under direct visual control.
- **Opaque:** for experienced learners, covered with imitation leather. A biopsy is performed under the control of an ultrasound machine.



Inside each model there are 12 neoplasms (6 hyperechoic, 6 hypoechoic), with a diameter of 0.6 to 12 mm, lying at different levels. The simulator is designed to teach the interpretation of information and perform punctures under the control of the ultrasound sensor.

Practiced skills:

- fine needle aspiration biopsy;
- thick-needle biopsy.

The simulator is designed for use in medical educational institutions.

The ultrasonic device is not included in the delivery package.



Dimensions: 136x70 mm



Weight: 0,65 kg

Equipment:

- breast models (2 pcs.);
- passport of product.

# M1081

## MODELS OF THE CERVIX WITH VARIANTS OF PATHOLOGIES

This training and demonstration manual is a full-color tablet with seven anatomical models of the cervix that are located on it, one corresponds to normal morphology, six-with frequent types of pathologies of this organ. The models are presented in a scaled view.

The following types of pathologies are presented:

- cervical cancer;
- purulent cervicitis;
- cervical erosion;
- cervical polypoidosis;
- cyst (nabotovoi gland) of the cervix;
- ruptures of the cervix.

The manual is intended for using in the educational process under the section «Obstetrics and Gynecology» in medical universities, colleges, as well as when conducting classes in women's clinics.



Dimensions: 230x300x40 mm



Масса: 1,15 kg

Equipment:

- tablet with models;
- user manual;
- passport of product;
- methodological recommendations.



**M1082**

## CHILD MODEL FOR MASTERING THE SKILLS OF PEDIATRIC CARE

This manikin is intended for practicing practical skills (within the framework of the primary accreditation program in the specialty «Pediatrics» for the station «Preventive Examination of the Child»), care and preventive examination. The head and neck, large joints of the limbs are mobile. The facial mask, limbs and ventral part of the torso are made of materials that visually and palpationally imitate the skin of the human body.

The design of the simulator provides for the development of the following skills of care and inspection:

- washing the ears and eyes, instilling drops;
- suction of sputum from the oral cavity;
- gastric lavage;
- intramuscular and subcutaneous injections into the deltoid muscle;
- injections into the lateral broad thigh muscle;
- catheterization, bladder lavage;
- change of clothes;
- breast circumference measurement;
- oral care;
- feeding through the mouth and nasal probe;
- intramuscular injections in the buttocks;
- stoma care;
- enema setting;
- testicular palpation;
- head circumference measurement;
- height and weight measurement.



Dimensions: 570x280x140 mm



Macca: 3 kg

### Equipment:

- baby dummy;
- abdominal wall (2 pcs.);
- removable stomach (2 pcs.);
- sanitary napkins (100 pcs.);
- lubricant;
- the diaper;
- body;
- gastric tube;
- catheter;
- libra;
- height meter;
- measuring tape;
- transport bag;
- passport of product;
- user manual;
- methodological recommendations.

**M1112**

## MODEL OF THE PELVIS WITH A FETAL HEAD

This simulator is a demonstration complex which is consisting of a model of a female pelvis, a base and two models of fetal heads. The models of the fetal heads are replaceable and are installed on a flexible shaft. This complex allows you to demonstrate the process of passing the fetus through the birth canal with different heads in size.

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

### Equipment:

- pelvis model;
- base with flexible shaft;
- fetal head models;
- passport of product;
- user manual.





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