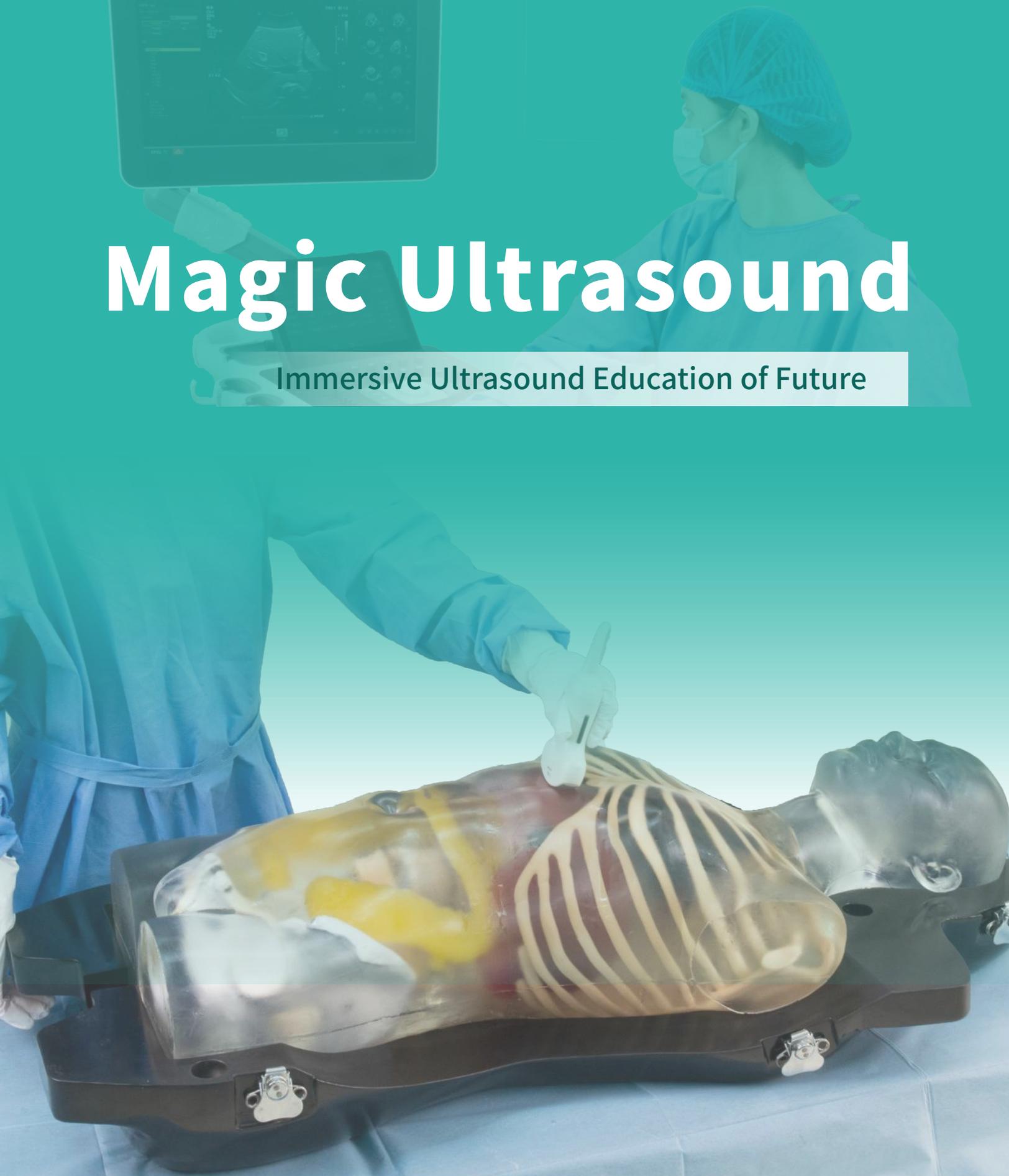




# Magic Ultrasound

Immersive Ultrasound Education of Future



# PRODUCT CATALOGUE

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## WHO are we

Magic Ultrasound is a leading developer and manufacturer of ultrasound simulation teaching products.

Our company was founded in April 2021 in Guangzhou China, with a focus on providing cutting-edge educational tools to enhance the teaching and learning experience of ultrasound and improve the quality of healthcare.

Join us on the journey to revolutionize ultrasound education and make significant strides towards a better future.

**2021** Founded in Guangzhou, China

**2023** Entering Global Market



**2018-2020**

Material development and anatomical data collection

**2022**

156 hospital & medical school users in China

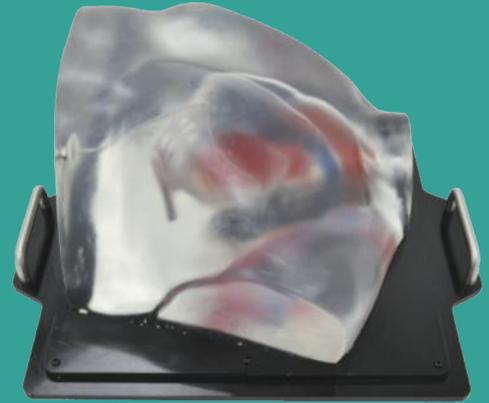
# Our History

# 3 Visualizations



## Anatomical Visualization

Accurate anatomical structure together with transparent modules to achieve anatomical visualization in ultrasound simulation teaching and ensure teaching effectiveness.



## Ultrasound Visualization

Models made of advanced materials can display realistic images under any ultrasound device, making ultrasound simulation training easier.



## AR / VR Visualization

Applying AR and VR technologies to ultrasound simulation teaching to further enhance the experience and effectiveness of teaching.



# 4 Key Features

## Durability



Our models adopt advanced materials, allowing for 1200+ punctures per square centimeter by using an 18G -21G needle.

## Versatility



We provide diverse models for different clinical training scenarios.

## Accuracy



Our models are based on real human body data and has precise anatomical structures, providing excellent ultrasound images under ultrasound equipment.

## Universality



Our models can provide superb ultrasound images under any ultrasound equipment.



# Patents & Certifications



## Ultrasound Diagnosis



Cardiology



Abdominal



Emergency



OB & GYN



Superficial Organs

## Cardiac Examination Ultrasound Model



**MU-E-HEART-MNT** Transparent



**MU-E-HEART-MNS** Skin colored



With the appearance of a right half chest and a complete left chest, this model is an effective tool for training in cardiac ultrasound examination and ultrasound-guided pericardiocentesis.

### Training Skills & Applications

- TTE (Transthoracic Echocardiogram)
- TEE (Transesophageal Echocardiogram)
- Ultrasound examination of pericardial effusion
- Ultrasound guided pericardiocentesis

### Anatomy

- Right half chest and left complete chest, left nipple
- Upper esophageal to gastric fundus
- Left atrium, right atrium, left ventricle, right ventricle, pericardium
- Ascending aorta, aortic arch, superior vena cava, inferior vena cava

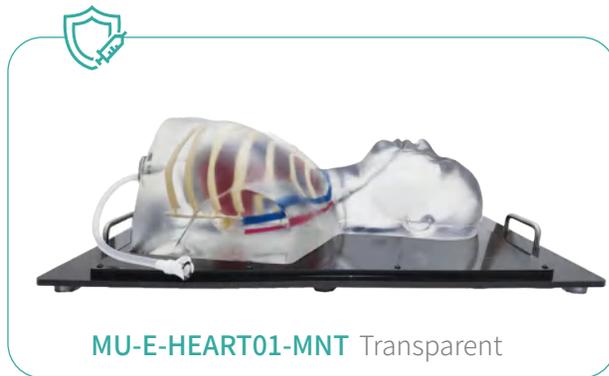
### Pathology

- Pericardial effusion

### Features

- Optional transparent model allows direct observation of internal anatomical structures.
- The pericardial effusion can be refilled with an external pipeline to simulate varying degrees of pericardial effusion or even tamponade.

## Cardiac Ultrasound And Pericardiocentesis Model



This model has the structure of human head and chest. Both transesophageal ultrasound probe and phased array probe are applicable. It is a useful tool for cardiac ultrasound examination and ultrasound-guided pericardiocentesis.

### Training Skills & Applications

- TTE (Transthoracic Echocardiogram)
- TEE (Transesophageal Echocardiogram)
- Ultrasound examination of pericardial effusion
- Ultrasound guided pericardiocentesis

### Anatomy

- Human head, chest, and nipples
- Sternum, ribs, rib arch, xiphoid process
- Oral cavity, esophagus, and heart
- Left atrium, right atrium, left ventricle, right ventricle, and pericardium
- Ascending aorta, aortic arch, superior vena cava, and inferior vena cava

### Pathology

- Pericardial effusion

### Features

- Optional transparent model allows direct observation of internal anatomical structures.
- The pericardial effusion can be refilled with an external catheter to simulate varying degrees of pericardial effusion or even tamponade.

## Pediatric Cardiac Ultrasound Model



**MU-E-PEHEART-MNT** Transparent



**MU-E-PEHEART-MNS** Skin colored



This model has the structure of a 5-year-old child head and chest. Both transesophageal ultrasound probe and phased array probe are applicable. It is a useful training tool for pediatric cardiac ultrasound examination and ultrasound-guided pericardiocentesis.

### Training Skills & Applications

- TTE (Transthoracic Echocardiogram)
- TEE (Transesophageal Echocardiogram)
- Ultrasound examination of pericardial effusion
- Ultrasound guided pericardiocentesis

### Anatomy

- 5-year-old child head, chest, and nipples
- Sternum, ribs, rib arch, xiphoid process
- Oral cavity, esophagus, and heart
- Left atrium, right atrium, left ventricle, right ventricle, and pericardium
- Ascending aorta, aortic arch, superior vena cava, and inferior vena cava

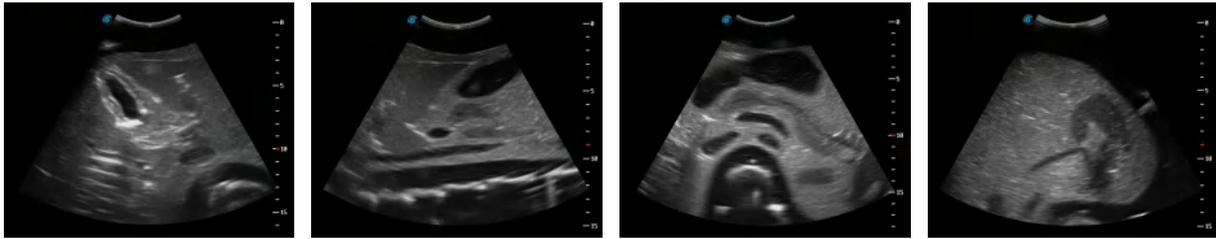
### Pathology

#### Features

- Pericardial effusion
- Optional transparent model allows direct observation of internal anatomical structures.
- The pericardial effusion can be refilled with an external catheter to simulate varying degrees of pericardial effusion or even tamponade.

Consumables: .  
Refill Fluid (Transparent) MU-E-FLUID03-C

## Abdominal Ultrasound Model



This model has the appearance of lower chest to abdomen of a male adult, available in skin and transparent colors. With lesions in multiple abdominal organs, it is designed to be an ideal training tool for abdominal ultrasound examination.

### Training Skills & Applications

#### Anatomy

- Teaching of anatomical structure of abdominal organs
- Ultrasound image identification of abdominal organs and lesions

#### Pathology

- Lesions in liver, gallbladder, pancreas, spleen and kidneys
- Abdominal aortic aneurysm, gallstone

#### Features

- Optional transparent model allows direct observation of internal anatomical structures and helps achieve comprehensive understanding of the relationships among ultrasound transducer position, ultrasound imaging, and anatomical structures.

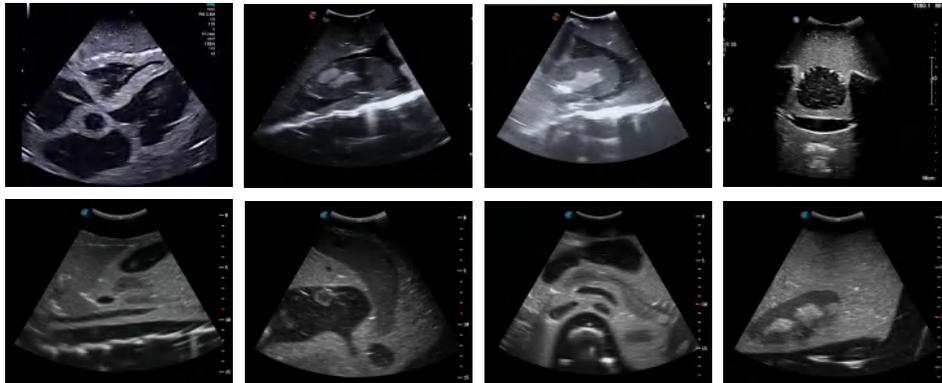
## Integrated Ultrasound Diagnosis Simulator



MU-E-INTUD-MNT Transparent



MU-E-INTUD-MNS Skin colored



This model has the appearance of lower chest to abdomen of a male adult, available in skin and transparent colors. With lesions in multiple abdominal organs, it is designed to be an ideal training tool for abdominal ultrasound examination.

### Training Skills & Applications

- eFAST
- Ultrasound examination of abdominal organs and lesions
- TTE (transthoracic echocardiogram)
- Ultrasound-guided pericardiocentesis/thoracocentesis/pneumothorax puncture
- Ultrasound examination of optic nerve sheath

### Anatomy

- Full torso with head to upper one-third of thighs, nipples, umbilicus, pubic symphysis
- Sternum, ribs, rib arch, xiphoid process, spine
- Stomach, heart, lungs, liver, gallbladder, pancreas, spleen, kidneys, bladder, pelvic cavity
- Inferior vena cava, abdominal aorta, splenic vein
- Double eyeballs, optic nerve (sheath)
- Left hepatic vein, middle hepatic vein, right hepatic vein, portal vein

### Pathology

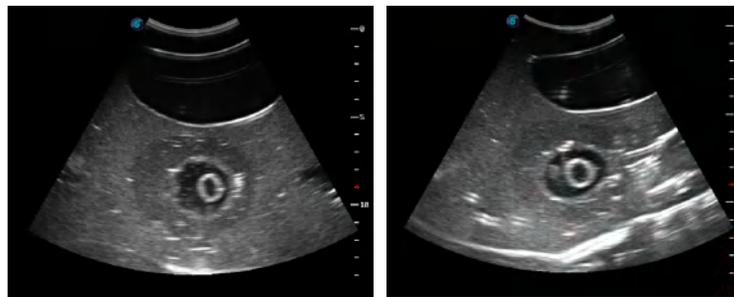
- Pericardial effusion, hepatorenal space effusion, splenorenal space effusion, pelvic effusion, pneumothorax, pleural effusion
- Lesions in liver, gallbladder, pancreas, spleen, kidney and appendix
- Abdominal aortic aneurysm
- Edema of optic nerve

### Features

- Optional transparent model allows direct observation of internal anatomical structures.
- The volume of pericardial effusion and pleural effusion can be adjusted separately by tubes.

Consumables: .  
Refill Fluid (Red) MU-E-FLUID01-C

## Early Pregnancy Ultrasound Examination Model (7 weeks of pregnancy)



This is a 7-week pregnancy model with the appearance of a female pelvic cavity. It supports the teaching and training of transvaginal and transabdominal ultrasound examination in early pregnancy.

### Training Skills & Applications

- Trans-abdominal ultrasound examination in early pregnancy
- Trans-vaginal ultrasound examination in early pregnancy

### Anatomy

- Female pelvic appearance, female perineum
- Vagina, uterus, fallopian tubes, ovaries, bladder
- Gestational sac with embryo and yolk sac

### Pathology

- N/A

### Features

- Optional transparent model allows direct observation of internal anatomical structures and helps achieve comprehensive understanding of the relationships among ultrasound transducer position, ultrasound imaging, and anatomical structures.

## Early Pregnancy Fetal Ultrasound Screening Model (12 weeks of pregnancy)



MU-E-FETAL02-MNS Skin colored



This is a 12-week pregnancy model with the appearance of a female pelvic cavity. It can be used in the teaching and training of trans-abdominal ultrasound examination of fetus Nuchal Translucency (NT) and measurement of fetus growth in early pregnancy.

### Training Skills & Applications

- Trans-abdominal ultrasound examination of fetus in early pregnancy
- Measurement of fetus NT
- Measurement of fetus CRL

### Anatomy

- Female abdomen and pelvic cavity at 12 weeks of pregnancy, female perineum
- Vagina, uterus, bladder, 12-week fetus, placenta, umbilical cord, amniotic cavity, and amniotic fluid
- Fetus has head, nuchal translucency, torso, limbs

### Pathology

- N/A

### Features

- Characteristics similar to human tissue with superb ultrasound imaging.
- Accurate external and internal anatomical structures.

## Mid-trimester Pregnancy Ultrasound Model (24 weeks of pregnancy)



This is a 24-week pregnancy model. It has the appearance of a female pelvic cavity with fetus inside. The fetus has accurate anatomical structure and its position can be adjusted flexibly, providing a superb educational platform for ultrasound examination in mid-trimester pregnancy.

### Training Skills & Applications

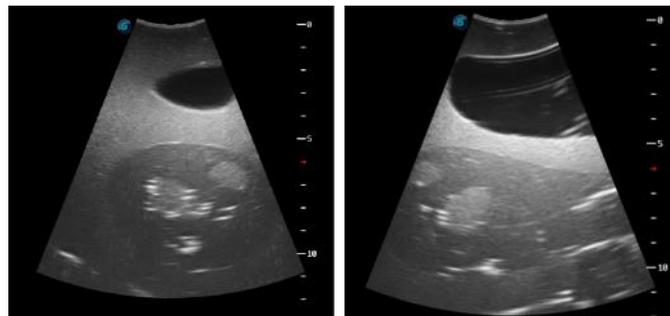
#### Anatomy

#### Pathology

#### Features

- Ultrasound examination of fetus in the second trimester (24W)
- Measurement of fetal BPD, CRL, AC, HC, FL to estimate gestational age
- Ultrasound examination of fetal brain, four-chamber heart, liver, kidney, bladder, and great vessels
- 24-week pregnant woman's abdomen with fetus inside
- Fetus anatomical structure: head, nose, brain, cerebellum, brain stem, lateral ventricle, heart (left atrium, left ventricle, right atrium, right ventricle), kidneys, stomach, liver, bladder, external genitalia, spine, limbs, bones
- Uterus, amniotic fluid, umbilical cord, placenta
- N/A
- The position of the fetus can be adjusted both horizontally and vertically to simulate the real clinical scenarios.

## Female Pelvic Disease Ultrasound Examination Model



This model has the appearance of a female pelvic. It supports the teaching and training of ultrasound examination of gynecological disease by both transvaginal and transabdominal approaches.

### Training Skills & Applications

- Trans-abdominal ultrasound examination of gynecological disease
- Trans-vaginal ultrasound examination of gynecological disease
- Ultrasound image identification of uterine fibroid, ovarian cyst, and ovarian tumor

### Anatomy

- Female pelvic cavity, female perineum
- Vagina, cervix, uterus, fallopian tubes, ovaries, bladder

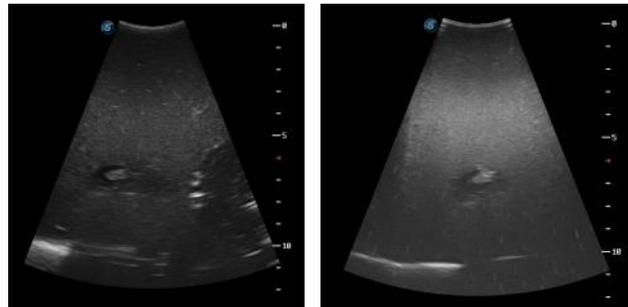
### Pathology

- Fibroids, pelvic effusion, ovarian tumors, ovarian cyst

### Features

- Characteristics similar to human tissue with superb ultrasound imaging.
- Accurate external and internal anatomical structures.

## Ectopic Pregnancy Ultrasound Examination Model



This model has the appearance of a female pelvic cavity. It supports the teaching and training of ultrasound examination of ectopic pregnancy by both transvaginal and transabdominal approaches.

### Training Skills & Applications

- Trans-abdominal pelvic ultrasound examination of ectopic pregnancy
- Trans-vaginal pelvic ultrasound examination of ectopic pregnancy
- Ultrasound identification of ectopic pregnancy sac

### Anatomy

- Female pelvic cavity, female perineum  
Vagina, cervix, uterus, fallopian tubes, ovaries, bladder

### Pathology

- Ectopic pregnancy in right fallopian tube

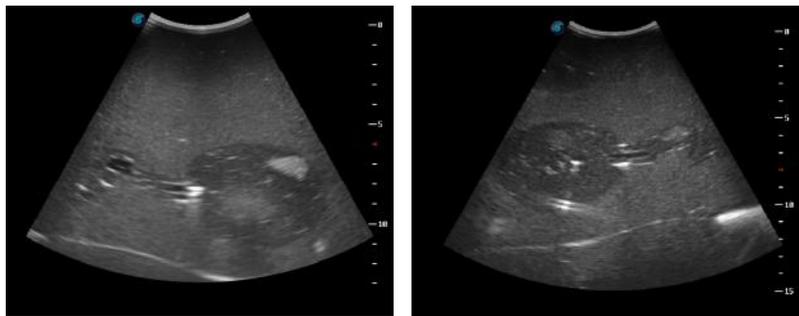
### Features

- Characteristics similar to human tissue with superb ultrasound imaging.
- Accurate external and internal anatomical structures.

## Sonohysterography And Sonosalpingography Ultrasound Model



MU-E-OBGY03-MNS Skin colored



This model has the appearance of a female pelvic cavity. It is a useful tool in the teaching and training of the complete procedure of sonohysterography and sonosalpingography.

### Training Skills & Applications

- Transvaginal and trans-abdominal sonohysterography
- Transvaginal and trans-abdominal sonosalpingography
- Ultrasound examination and identification of uterine fibroids, ovarian cysts, ovarian tumors, and blocked fallopian tubes
- Ultrasound examination of pelvic effusion

### Anatomy

- Female pelvic cavity, female perineum
- Vagina, cervix, uterus, fallopian tubes, ovaries, bladder

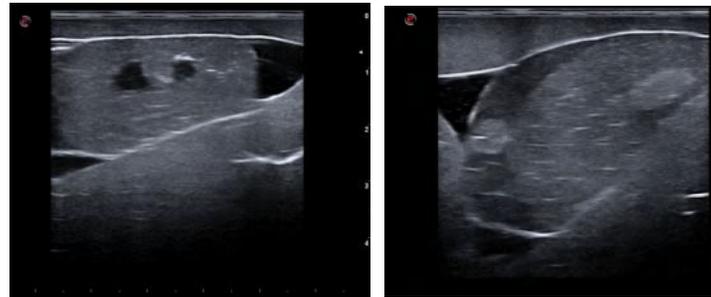
### Pathology

- Uterine fibroids, ovarian cysts, ovarian tumors, blocked fallopian tube(one side), pelvic effusion

### Features

- Simulated contrast agent can be injected to observe the difference of bilateral fallopian tubes.
- Accurate external and internal anatomical structures.
- Characteristics similar to human tissue with superb ultrasound imaging.

## Scrotum And Prostate Ultrasound Examination Model



This model has the appearance of a male pelvis and scrotum. It can be used in the teaching and training of scrotum and prostate ultrasound examination.

### Training Skills & Applications

- Ultrasound examination of scrotum
- Ultrasound examination of prostate
- Ultrasound identification of lesions in scrotum and prostate

### Anatomy

- Scrotum, penis, testicles, epididymis, prostate, seminal vesicle
- Anus, rectum, bladder

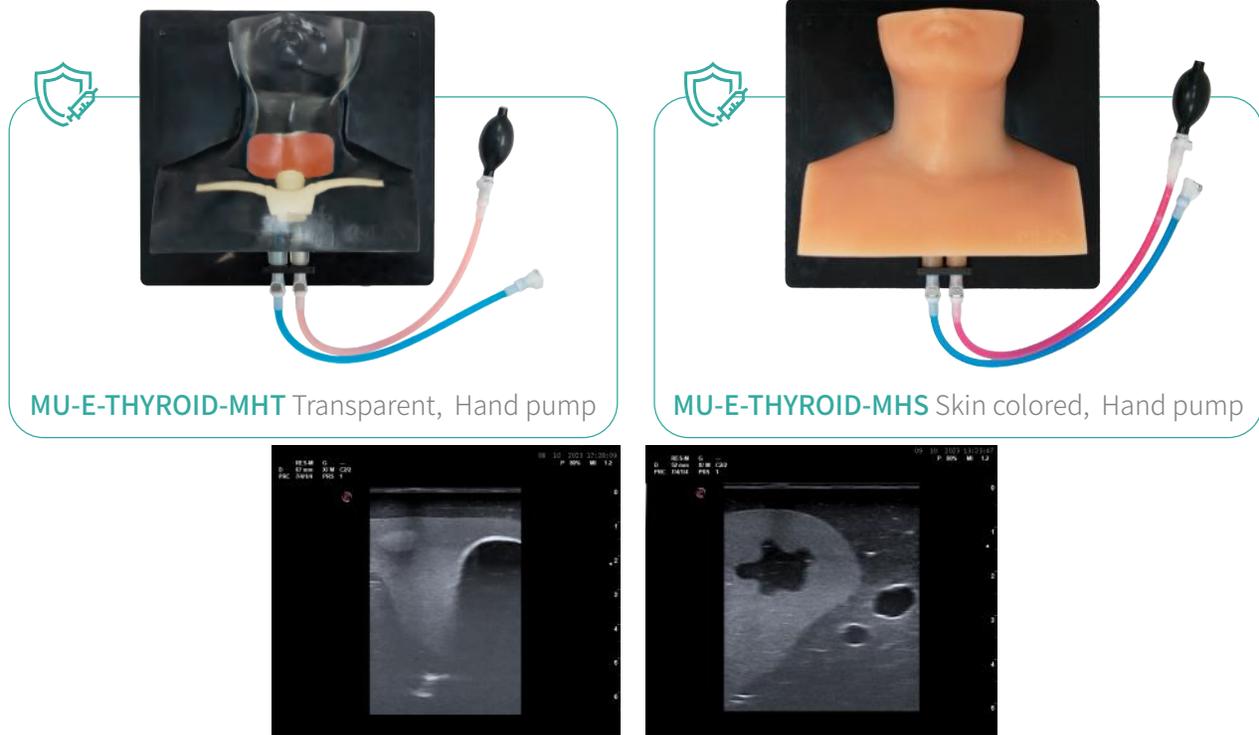
### Pathology

- Tumors in epididymis, testicle, and prostate
- Hydrocele

### Features

- Characteristics similar to human tissue with superb ultrasound imaging.
- Accurate external and internal anatomical structures.

## Thyroid Diagnosis Ultrasound Model



This model simulates the thyroid and adjacent structures. It can mainly be used in the teaching and training of ultrasound examination of thyroid and ultrasound-guided thyroid puncture.

### Training Skills & Applications

- Thyroid ultrasound examination
- Ultrasound-guided puncture and biopsy of thyroid tumor
- Ultrasound examination of common carotid artery and internal jugular vein

### Anatomy

- Jaw, neck, upper front chest
- Trachea, sternal manubrium, bilateral clavicles
- Thyroid
- Common carotid artery and internal jugular vein

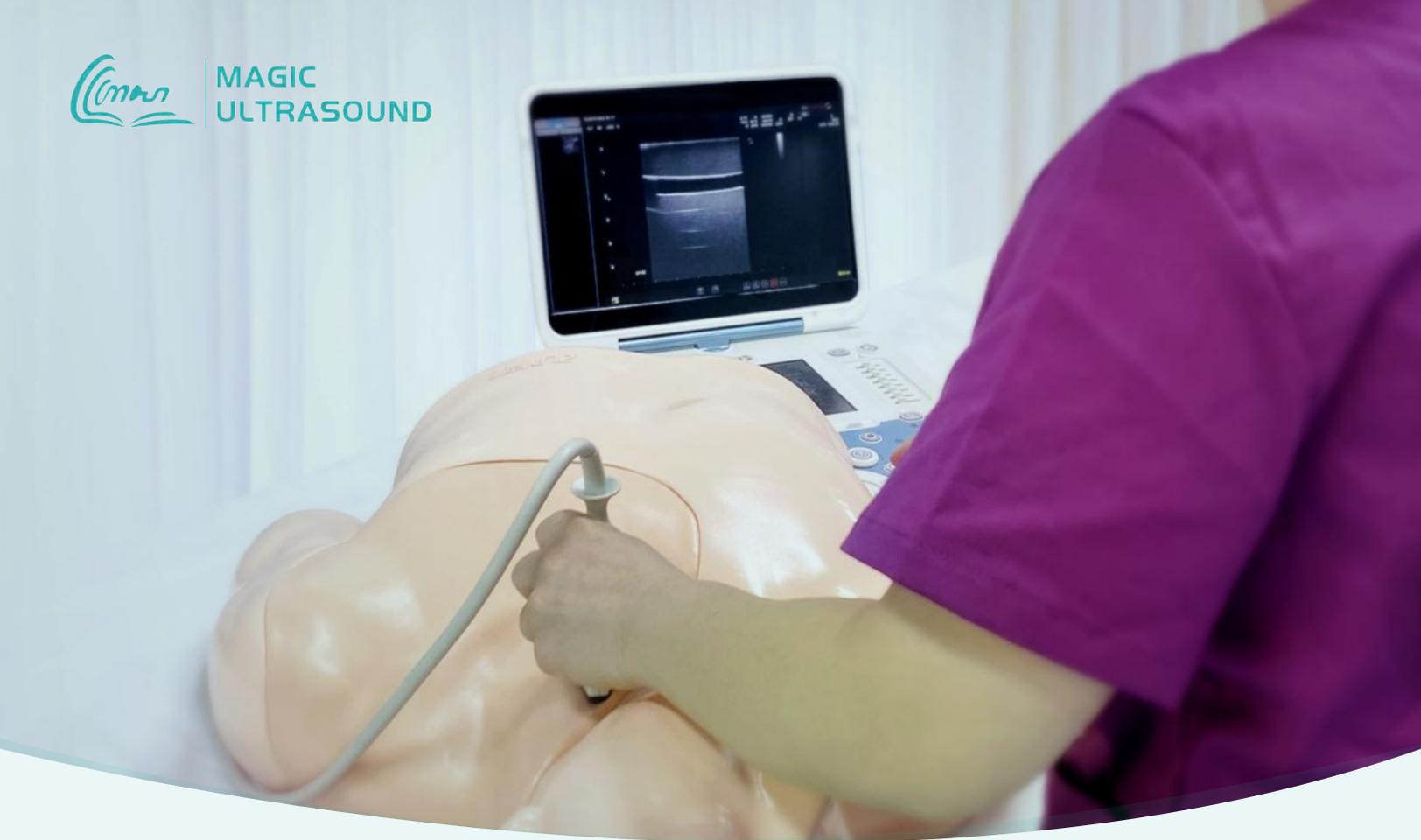
### Pathology

- Thyroid tumors of different shapes and echos

### Features

- Optional transparent model allows direct observation of internal anatomical structures.
- Bilateral internal jugular veins are infused with blue simulated blood, while the common carotid artery with red simulated blood.
- Equipped with hand pump to simulate arterial pulse. The arterial pulse can be palpated on the body surface.

Consumables:  
 Refill Fluid (Red) MU-E-FLUID01-C (Blue) MU-E-FLUID02-C



## Ultrasound Intervention



Vascular Access

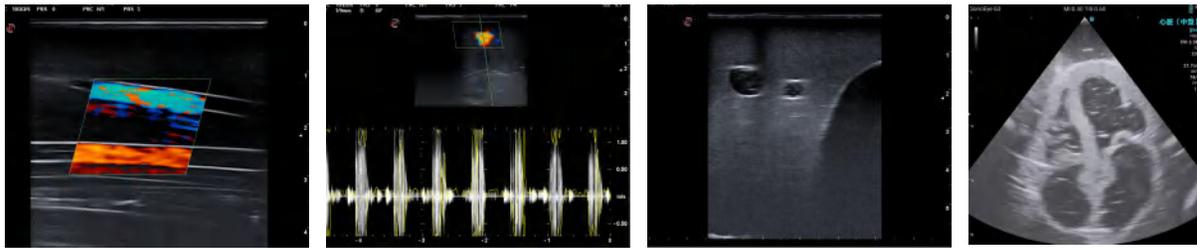


Regional Anesthesia



Punctures & Biopsy & Ablation

## ECMO And CRRT Catheterization Ultrasound Simulator



This is a full torso model with head to upper one-third of thighs. The equipped auto pump can be used to simulate human blood circulation. It is designed to provide a realistic and integrated teaching and training platform for ultrasound guided ECMO and CRRT by connecting to real equipments.

### Training Skills & Applications

- Ultrasound guided VA-ECMO or VV-ECMO via internal jugular vein, femoral artery and femoral vein
- Ultrasound guided CRRT
- TTE (transthoracic echocardiogram)

### Anatomy

- Full torso with head to upper one-third of thighs
- Trachea, sternal manubrium, clavicle, nipples, groin
- Right internal jugular vein, common carotid artery
- Femoral artery and vein, abdominal aorta, inferior vena cava
- Heart with anatomical structure of left atrium, right atrium, left ventricle, right ventricle, superior vena cava, inferior vena cava and aortic arch

### Pathology

- N/A

### Features

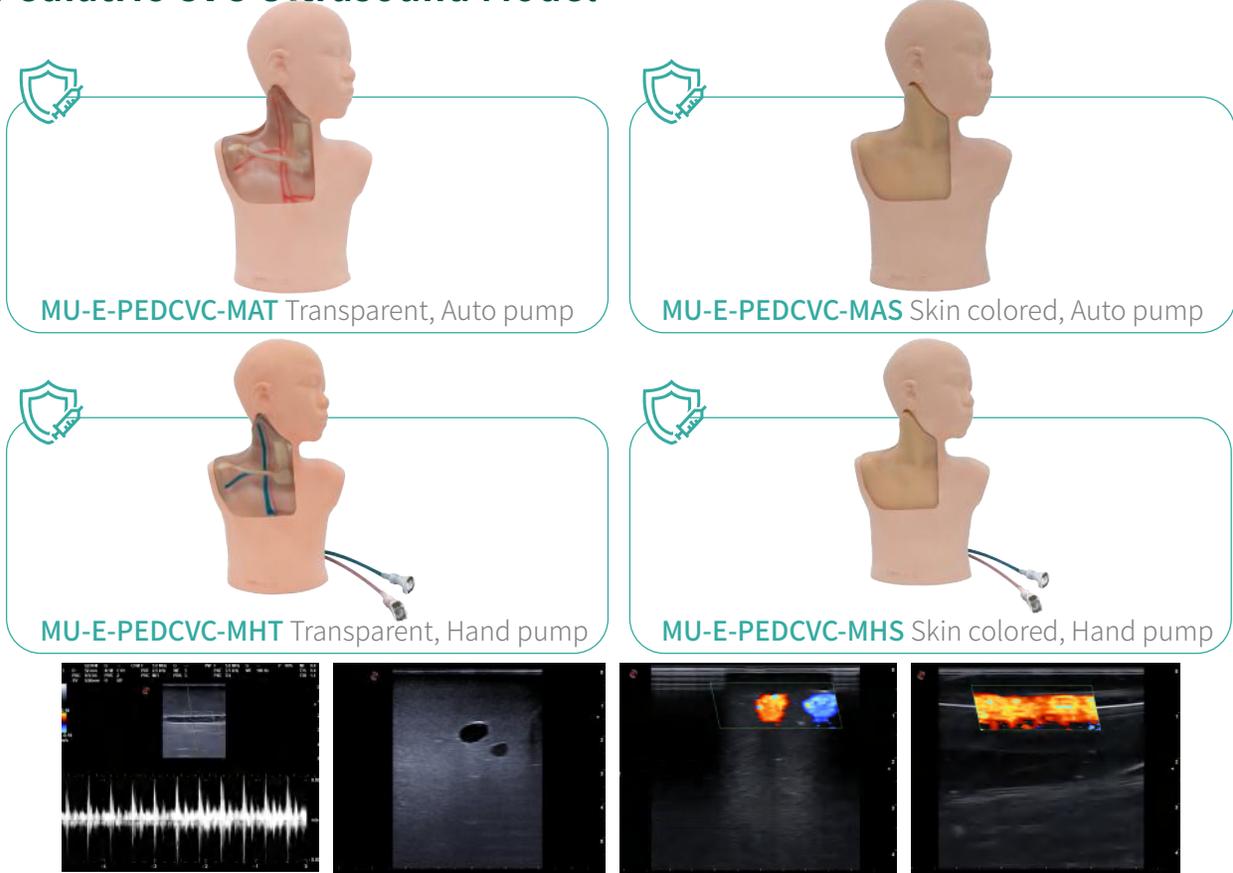
- The transparent module allows direct observation of internal anatomical structures.
- Containing 3 ECMO puncture modules at neck, left femoral triangle area and the right femoral triangle area. Equipped with 4 additional sets of replaceable puncture modules (3 skin tone and 1 transparent) to ensure the best training experience.
- The puncture modules can be purchased separately for replacement.
- Equipped with auto pump of 2 different modes (Standard mode and ECMO mode) to simulate realistic human blood circulation.

#### Consumables:

Refill Fluid (Red) MU-E-FLUID01-C

Replaceable Module: Available for purchase

## Pediatric CVC Ultrasound Model



This model is an 5-year-old child upper torso with right side as CVC module. It supports the complete process teaching and training of CVC via internal jugular vein and subclavian vein.

### Training Skills & Applications

#### Anatomy

#### Pathology

#### Features

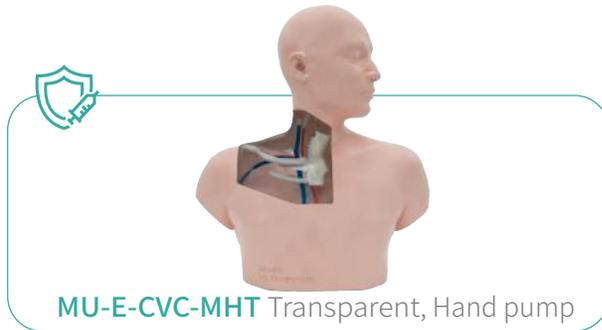
- Ultrasound-guided CVC skill training via internal jugular vein and subclavian vein
- Blind central line placement via internal jugular vein and subclavian vein
- Doppler ultrasound examination of internal jugular vein and common carotid artery (auto pump models only)
- 5-year-old child upper torso with head
- Trachea, sternal manubrium, and clavicle
- Vascular in right: internal jugular vein, common carotid artery, subclavian vein, subclavian artery, axillary vein, brachiocephalic vein, brachiocephalic trunk
- N/A
- Optional transparent model.
- Models equipped with auto pump can simulate blood circulation and arterial pulse. The arterial pulse rate can be adjusted. The arterial pulse can be palpated on the body surface. Easy to observe simulated blood volume and add as needed.
- Models equipped with hand pump can simulate arterial pulse. The arterial pulse can be palpated on the body surface.

#### Consumables:

Auto Pump Model; Refill Fluid (Red) MU-E-FLUID01-C  
Hand Pump Model: Refill Fluid (Red) MU-E-FLUID01-C  
Replaceable Module: Available for purchase

Refill Fluid (Blue) MU-E-FLUID02-C

## CVC Ultrasound Model



This model is an adult male upper torso with right side as CVC module. It supports the complete process teaching and training of CVC via internal jugular vein and subclavian vein.

### Training Skills & Applications

### Anatomy

### Pathology Features

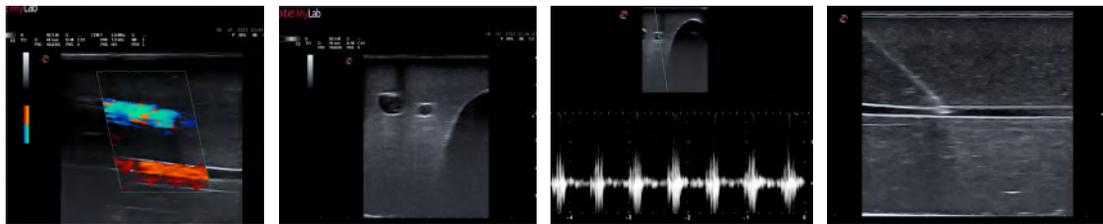
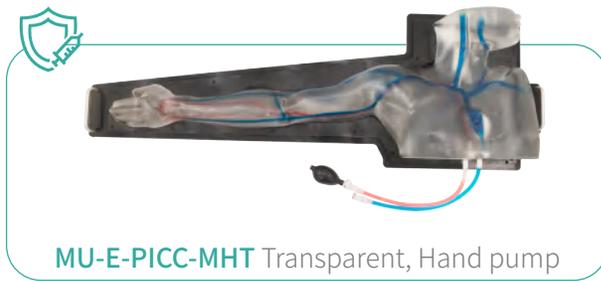
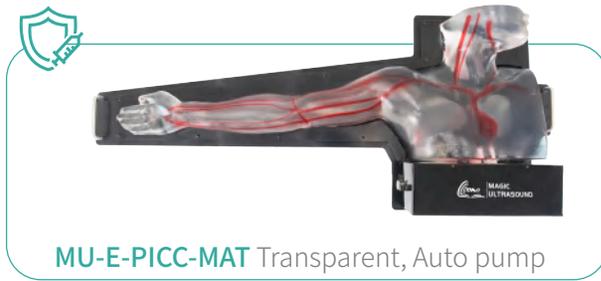
- Ultrasound-guided CVC skill training via internal jugular vein and subclavian vein
- Blind central line placement via internal jugular vein and subclavian vein
- Doppler ultrasound examination of internal jugular vein and common carotid artery (auto pump models only)
- Adult male upper torso with head
- Trachea, sternal manubrium, and clavicle
- Vascular in right: internal jugular vein, common carotid artery, subclavian vein, subclavian artery, axillary vein, axillary artery, brachiocephalic vein, brachiocephalic trunk
- N/A
- Optional transparent model.
- Models equipped with auto pump can simulate blood circulation and arterial pulse. The arterial pulse rate can be adjusted. The arterial pulse can be palpated on the body surface. Easy to observe simulated blood volume and add as needed.
- Models equipped with hand pump can simulate arterial pulse. The arterial pulse can be palpated on the body surface.

#### Consumables:

Auto Pump Model; Refill Fluid (Red) MU-E-FLUID01-C  
 Hand Pump Model: Refill Fluid (Red) MU-E-FLUID01-C  
 Replaceable Module: Available for purchase

Refill Fluid (Blue) MU-E-FLUID02-C

## PICC Ultrasound Model



This is model has the adult right chest, shoulder, and extended right arm. It aims to provide a realistic teaching and training tool for ultrasound guided PICC and PORT.

### Training Skills & Applications

- Ultrasound-guided PICC placement
- Ultrasound-guided PORT placement
- Ultrasound-guided puncture of internal jugular vein

### Anatomy

- Adult right thorax, shoulder, and right arm
- Basilic vein, median cubital vein, cephalic vein, axillary vein, subclavian vein, cephalobrachial vein, superior vena cava, brachial artery, axillary artery, subclavian artery, right atrium

### Pathology

- N/A

### Features

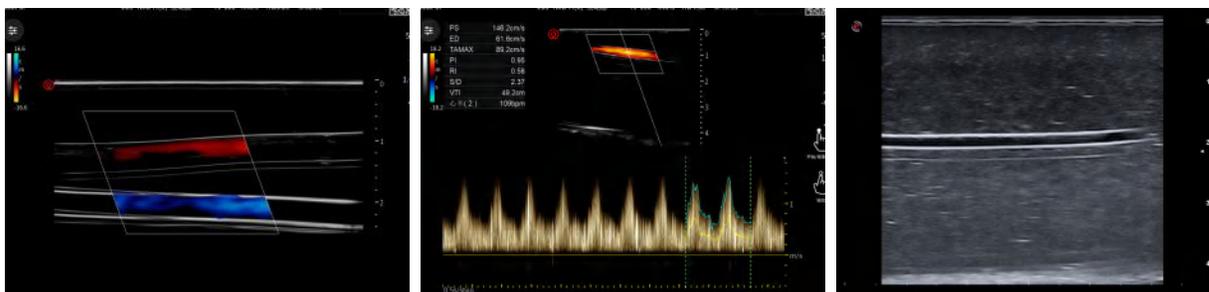
- Optional transparent model allows direct observation of internal anatomical structures.
- Models equipped with auto pump can simulate blood circulation and arterial pulse. The arterial pulse rate can be adjusted. The arterial pulse can be palpated on the body surface. Easy to observe simulated blood volume and add as needed.
- Models equipped with hand pump can simulate arterial pulse. The arterial pulse can be palpated on the body surface.

#### Consumables:

Auto Pump Model; Refill Fluid (Red) MU-E-FLUID01-C  
Hand Pump Model: Refill Fluid (Red) MU-E-FLUID01-C

Refill Fluid (Blue) MU-E-FLUID02-C

## Radial Artery Puncture Ultrasound Model



This is a model of human adult arm with color options(transparent and skin colored). It is equipped with auto pump to simulate blood circulation and radial artery pulse, aiming to provide an effective teaching and training tool for ultrasound guided radial artery puncture.

### Training Skills & Applications

- Ultrasound guided radial artery puncture
- Radial artery puncture via blind approach
- Doppler examination of radial artery

### Anatomy

- Human palm, and forearm
- Brachial artery, radial artery, ulnar artery, basilic vein, cephalic vein, and cubital median vein

### Pathology

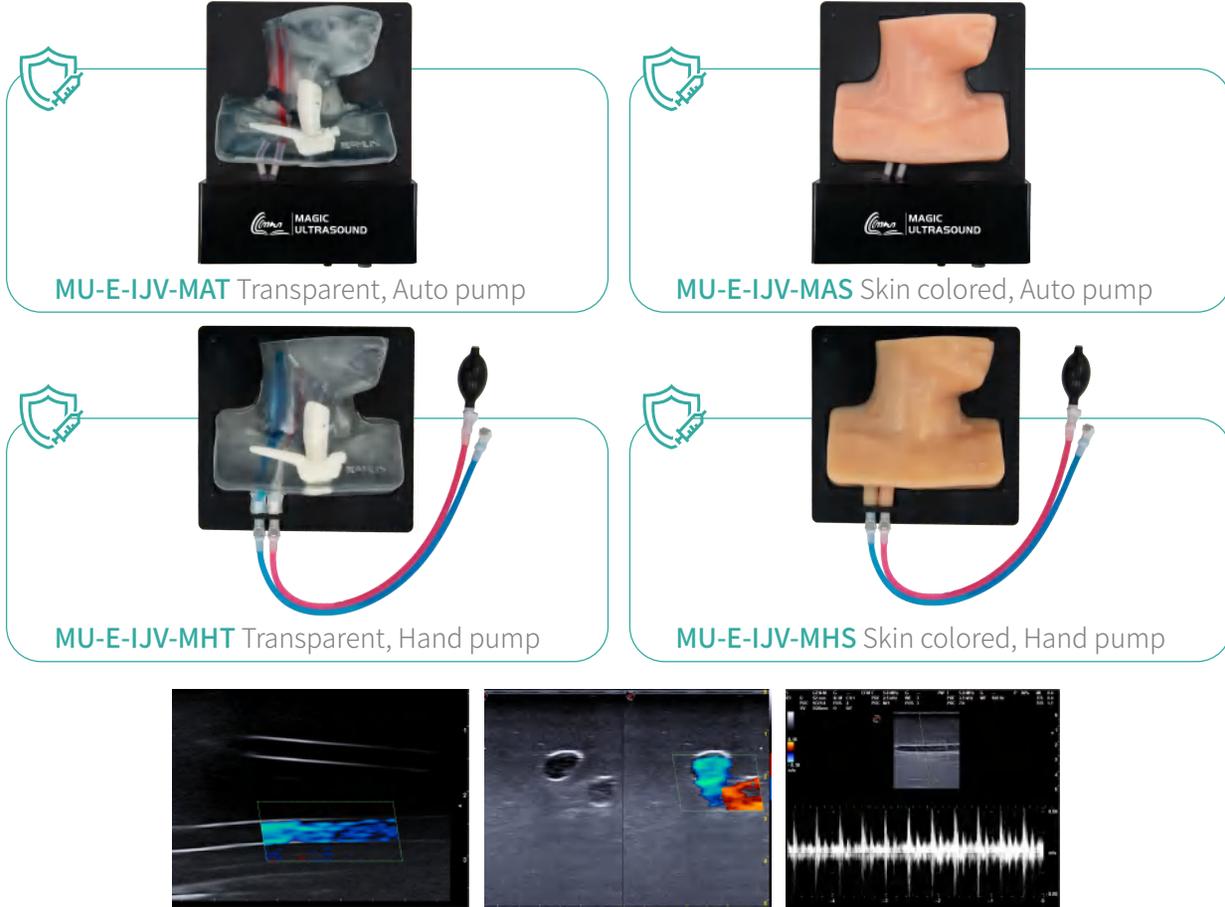
- N/A

### Features

- Optional transparent model allows direct observation of internal anatomical structures.
- Equipped with auto pump to simulate blood circulation and arterial pulse. The arterial pulse rate can be adjusted. The arterial pulse can be palpated on the body surface.
- Easy to observe simulated blood volume and add as needed.

Consumables:  
Refill Fluid (Red) MU-E-FLUID01-C

## Internal Jugular Vein Puncture Ultrasound Model



This model is an effective tool for teaching and training of the complete procedure of internal jugular vein puncture.

### Training Skills & Applications

#### Anatomy

#### Pathology

#### Features

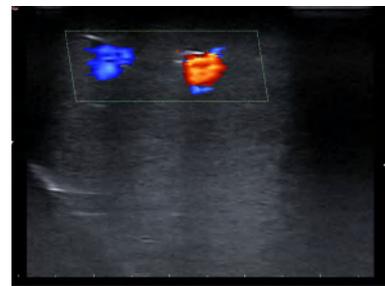
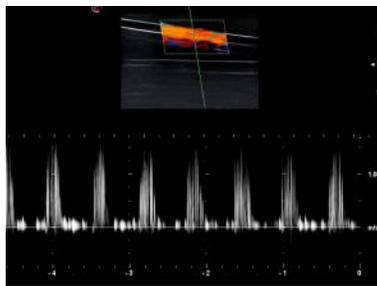
- Ultrasound guided puncture of internal jugular vein
- Internal jugular vein puncture via blind approach
- Ultrasound examination of internal jugular vein and artery
- Lower half head, neck, with upper front chest
- Trachea, sternal manubrium, and clavicle
- Right internal jugular vein, common carotid artery, brachiocephalic vein, brachiocephalic trunk
- N/A
- Optional transparent model allows direct observation of internal anatomical structures.
- Models equipped with auto pump can simulate blood circulation and arterial pulse. The arterial pulse rate can be adjusted. The arterial pulse can be palpated around the neck. Easy to observe simulated blood volume and add as needed.
- Models equipped with hand pump can simulate arterial pulse. The arterial pulse can be palpated around the neck.

#### Consumables:

Auto Pump Model; Refill Fluid (Red) MU-E-FLUID01-C  
Hand Pump Model: Refill Fluid (Red) MU-E-FLUID01-C

Refill Fluid (Blue) MU-E-FLUID02-C

## Femoral Artery And Vein Puncture Ultrasound Model



This model has the appearance of human upper abdomen to the upper 1/3 of thighs. It supports the teaching and training of femoral vein and artery puncture guided by ultrasound or via blind approach.

### Training Skills & Applications

- Ultrasound guided femoral vein and artery puncture
- Femoral vein and artery puncture via blind approach
- Doppler ultrasound examination of femoral vein and artery (auto pump models only)

### Anatomy

- Human upper abdomen to the upper 1/3 of thighs, umbilicus, inguinal region
- Bilateral femoral artery and vein

### Pathology

- N/A

### Features

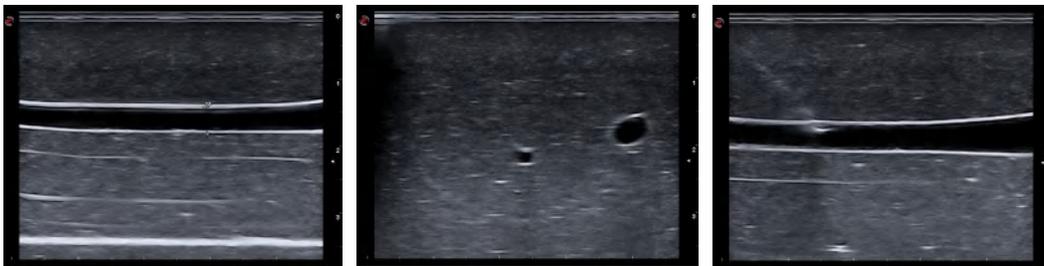
- Models equipped with auto pump can simulate blood circulation and arterial pulse. The arterial pulse rate can be adjusted. The arterial pulse can be palpated in the femoral triangle area. Easy to observe simulated blood volume and add as needed.
- Models equipped with hand pump can simulate arterial pulse. The arterial pulse can be palpated in the femoral triangle area.

#### Consumables:

Auto Pump Model; Refill Fluid (Red) MU-E-FLUID01-C  
 Hand Pump Model: Refill Fluid (Red) MU-E-FLUID01-C  
 Replaceable Module: Available for purchase

Refill Fluid (Blue) MU-E-FLUID02-C

## Vascular Puncture Ultrasound Block



This training block is designed to support the teaching and training of vascular puncture guided by ultrasound. Available in both transparent and skin color.

### Training Skills & Applications

#### Anatomy

- Ultrasound guided vascular puncture
- Y-shaped blood vessel x1
- 4mm linear blood vessel x1
- 2mm linear blood vessel x1

#### Pathology

- N/A

#### Features

- Optional transparent model allows direct observation of internal anatomical structures.
- The diameter of blood vessels varies to support vascular puncture training of different skill levels.

## Integrated Anesthesia Ultrasound Simulator



The model has the appearance of a head and a full torso to upper one-third of thighs. Equipped with dual auto pumps, the upper and lower blood circulation and artery pulse can be separately simulated. It is designed to provide an realistic and integrated platform for teaching and training of ultrasound guided anesthesia.

### Training Skills & Applications

- Ultrasound guided nerve block skill training (brachial plexus, TAP and femoral nerve)
- Ultrasound guided CVC skill training(via internal jugular vein, subclavian vein and femoral vein)
- Cardiac ultrasound examination (TEE&TTE)
- Ultrasound guided femoral artery puncture

### Anatomy

- Head with a full torso to upper one-third of thighs
- Oral cavity, esophagus, nipple, umbilicus
- Right internal jugular vein, common carotid artery, subclavian vein, subclavian artery, axillary artery, axillary vein and brachial plexus
- External oblique muscle, internal oblique muscle, transversus abdominis, and peritoneum
- Heart, including left atrium, right atrium, left ventricle, right ventricle, superior vena cava, inferior vena cava and aortic arch
- Bilateral femoral artery, femoral vein, and femoral nerve

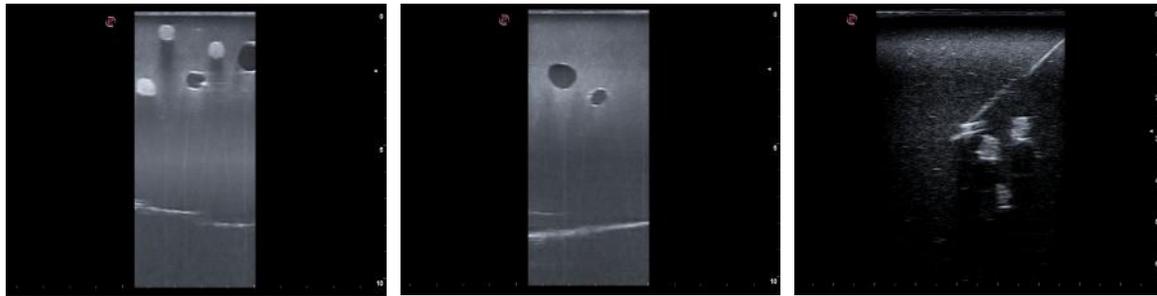
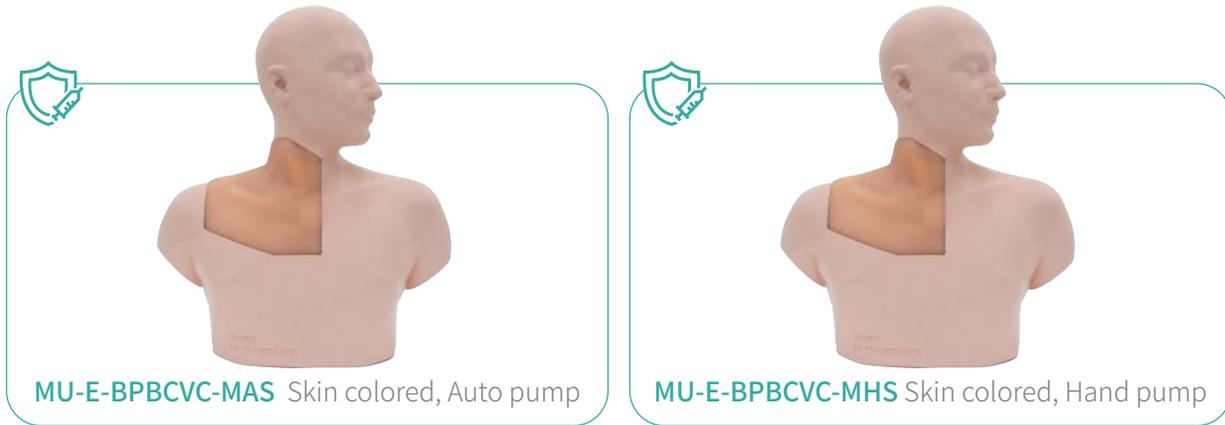
### Pathology Features

- Pericardial effusion
- A comprehensive anesthesia skills training platform that integrates multiple anesthesia skills.
- Equipped with auto pump to simulate arterial pulse and blood circulation. The arterial pulse rate can be adjusted. The arterial pulse can be palpated on the body surface.
- Easy to observe simulated blood volume and add as needed. The amount of pericardial effusion can be adjusted.

Consumables:

Refill Fluid (Red) MU-E-FLUID01-C Refill Fluid (Transparent) MU-E-FLUID03-C

## Brachial Plexus Block and CVC Ultrasound Model



This model is an adult male upper torso with right side as brachial plexus block and CVC module. It provides a realistic platform for teaching and training of central venous catheterization and brachial plexus block.

### Training Skills & Applications

- Ultrasound guided brachial plexus block
- Ultrasound-guided CVC via internal jugular vein and subclavian vein
- Central venous puncture and catheterization by blind puncture

### Anatomy

- Upper torso with head
- Trachea, manubrium sterni, and clavicle
- Vascular in right: internal jugular vein, common carotid artery, subclavian vein, subclavian artery, axillary vein, axillary artery, brachiocephalic vein, superior vena cava
- Right brachial plexus nerve

### Pathology

- N/A

### Features

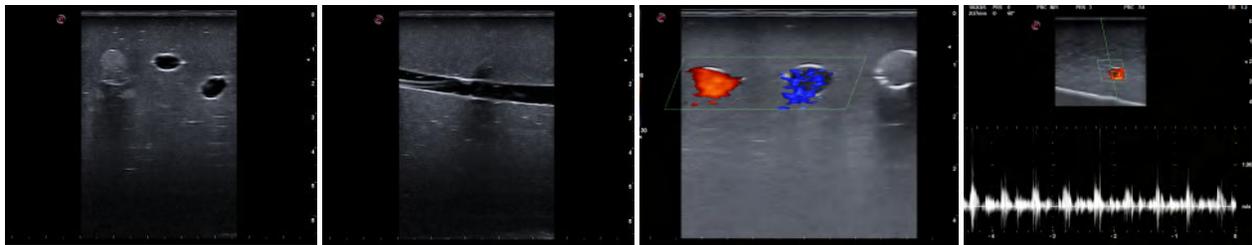
- Models equipped with auto pump can simulate blood circulation and arterial pulse. The arterial pulse rate can be adjusted. The arterial pulse can be palpated on the body surface. Easy to observe simulated blood volume and add as needed.
- Models equipped with hand pump can simulate arterial pulse. The arterial pulse can be palpated on the body surface.

#### Consumables:

Auto Pump Model; Refill Fluid (Red) MU-E-FLUID01-C  
Hand Pump Model: Refill Fluid (Red) MU-E-FLUID01-C  
Replaceable Module: Available for purchase

Refill Fluid (Blue) MU-E-FLUID02-C

## Femoral Nerve Block and Femoral Artery And Vein Puncture Ultrasound Model



This model has the appearance of human upper abdomen to the upper 1/3 of thighs. It is designed to be a useful training tool for femoral nerve block and femoral vessel puncture guided by ultrasound or via blind approach.

### Training Skills & Applications

- Ultrasound guided femoral nerve block
- Ultrasound guided femoral vein puncture and catheterization
- Ultrasound guided femoral artery puncture
- Femoral vein and artery puncture guided via blind approach

### Anatomy

- Human upper abdomen to the upper 1/3 of thighs, umbilicus, inguinal region
- Bilateral femoral vein, femoral artery and femoral nerve

### Pathology

- N/A

### Features

- Models equipped with auto pump can simulate blood circulation and arterial pulse. The arterial pulse rate can be adjusted. The arterial pulse can be palpated in the femoral triangle area. Easy to observe simulated blood volume and add as needed.
- Models equipped with hand pump can simulate arterial pulse. The arterial pulse can be palpated in the femoral triangle area.

#### Consumables:

Auto Pump Model; Refill Fluid (Red) MU-E-FLUID01-C  
 Hand Pump Model: Refill Fluid (Red) MU-E-FLUID01-C  
 Replaceable Module: Available for purchase

Refill Fluid (Blue) MU-E-FLUID02-C

## Intraspinal Anesthesia Ultrasound Model



This model provides a complete training platform for intraspinal anesthesia guided by ultrasound or via blind approach. Puncture can be performed in 3 spinal sections including lumbar, thoracic and cervical spine.

### Training Skills & Applications

- Ultrasound guided intraspinal anesthesia in cervical spine, thoracic spine, and lumbar spine
- Lumbar puncture guided by ultrasound or via blind approach
- Measurement of cerebrospinal fluid pressure

### Anatomy

- Cervical spine C4-T1
- Thoracic spine T8-T11
- Lumbar spine L1-L5
- Spine, spinous process, posterior superior iliac spine, sacrum
- Skin, subcutaneous tissue, ligamentum flavum, spinal dura mater, epidural space, arachnoid membrane, subarachnoid space

### Pathology

- N/A

### Features

- Simulating the two breakthroughs during puncture process of intraspinal anesthesia.
- The subarachnoid space is filled with simulated cerebrospinal fluid. Cerebrospinal fluid can be seen after a successful lumbar puncture. The cerebrospinal fluid pressure can be measured and adjusted.
- The simulated anesthetics injected during the training process can be expelled through the corresponding tubes.

Consumables:

Refill Fluid (Transparent) MU-E-FLUID03-C

Replaceable Module: Available for purchase

## Lumbar Puncture Ultrasound Model



This is an compact and effective training model for lumbar puncture guided by ultrasound or via blind approach.

### Training Skills & Applications

- Ultrasound guided intraspinal anesthesia in lumbar spine
- Lumbar puncture guided by ultrasound or via blind approach
- Measurement of cerebrospinal fluid pressure

### Anatomy

- Lumbar spine L1-L5
- Spinous process, posterior superior iliac spine, sacrum
- Skin, subcutaneous tissue, ligamentum flavum, spinal dura mater, epidural space, arachnoid membrane, subarachnoid space

### Pathology

- N/A

### Features

- Simulating the two breakthroughs during the process of lumbar puncture.
- The subarachnoid space is filled with simulated cerebrospinal fluid. Cerebrospinal fluid can be seen after a successful lumbar puncture. The cerebrospinal fluid pressure can be measured and adjusted.
- The simulated anesthetics injected during the training process can be expelled through the corresponding tube.

#### Consumables:

Refill Fluid (Transparent) MU-E-FLUID03-C  
 Replaceable Module: Available for purchase

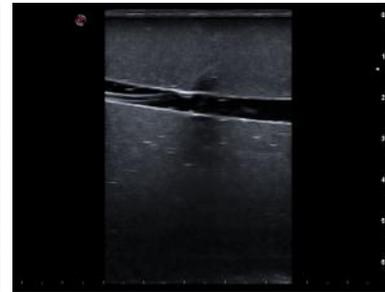
## Ultrasound Guided Regional Anesthesia Training Block



MU-E-ANA-BNT Transparent



MU-E-ANA-BNS Skin colored



This training block is designed to support the training of regional nerve block guided by ultrasound. Available in both transparent and skin color.

### Training Skills & Applications

- Ultrasound guided regional nerve block
- Ultrasound guided vascular access

### Anatomy

- Sciatic nerve, popliteal artery and vein
- Femoral nerve, femoral artery and vein

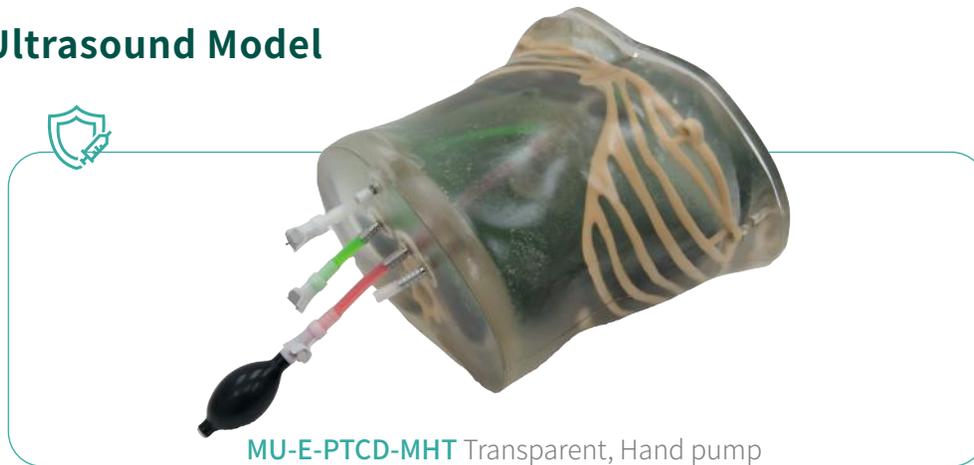
### Pathology

- N/A

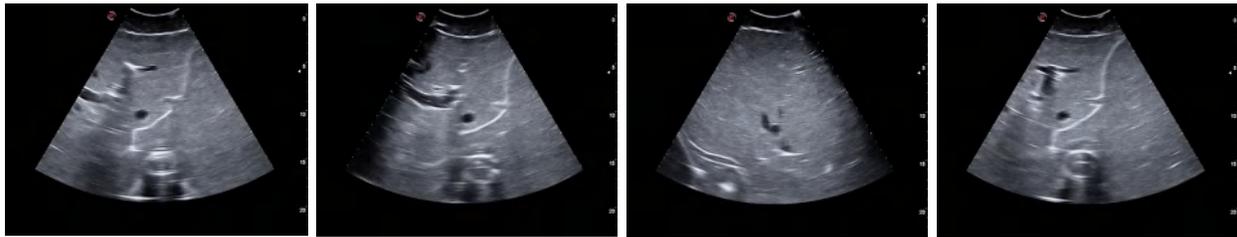
### Features

- Optional transparent model allows direct observation of internal anatomical structures and helps achieve comprehensive understanding of the relationships among ultrasound transducer position, ultrasound imaging, and anatomical structures.

## PTCD Ultrasound Model



MU-E-PTCD-MHT Transparent, Hand pump



This model has the appearance of the upper abdomen of an adult male. The transparent abdominal cavity can be used together with the internal organ module to support the training of ultrasound-guided PTCD (percutaneous transhepatic cholangio drain).

### Training Skills & Applications

- Ultrasound guided PTCD (percutaneous transhepatic cholangial drainage)
- Ultrasound guided puncture and biopsy of liver tumors
- Ultrasound examination of liver and gallbladder

### Anatomy

- Ribs, rib arches, xiphoid process, umbilicus
- Liver, gallbladder
- Abdominal aorta, inferior vena cava
- Vessels in the liver: left /middle/right hepatic vein, portal vein, left/right branch of portal vein
- Left hepatic duct, right hepatic duct, common hepatic duct, common bile duct

### Pathology

- Liver tumors
- Bile duct dilation
- Gallstones

### Features

- Transparent abdomen allowing for direct observation of internal anatomical structure.
- The organ module can be inserted into the abdominal cavity to support the complete training of ultrasound-guided PTCD(percutaneous transhepatic cholangio drain).
- Equipped with hand pump to simulate the dilation and contraction of hepatic portal vein.
- Containing liver tumors of both high echo and low echo. Bile and simulated blood can be refilled.

#### Consumables:

Refill Fluid (Red) MU-E-FLUID01-C Refill Fluid (Green) MU-E-FLUID04-C

Replaceable Module: Available for purchase

## Abdominal Intraoperative & Laparoscopic Ultrasound Model Series



Transparent  
**MU-E-AILU01-MNT**  
**MU-E-AILU02-MNT**  
**MU-E-AILU03-MNT**

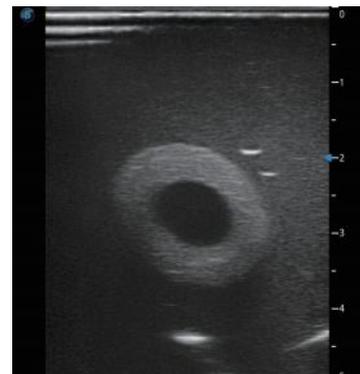
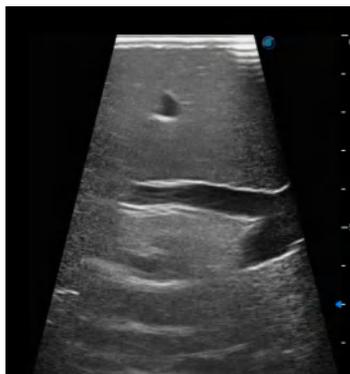


Opaque  
**MU-E-AILU01-MNO**  
**MU-E-AILU02-MNO**  
**MU-E-AILU03-MNO**



Transparent Abdomen Cavity  
**MU-E-AILU-A**

This series of models aims to provide a realistic training platform for abdominal intraoperative and laparoscopic ultrasound examination.



Name	Training Skills & Applications	Color	SKU
Abdominal Intraoperative & Laparoscopic Ultrasound Diagnosis Model (With Lesions)	<ul style="list-style-type: none"> <li>Abdominal intraoperative ultrasound examination</li> <li>Laparoscopic ultrasound examination</li> </ul>	Transparent	MU-E-AILU01-MNT
		Opaque	MU-E-AILU01-MNO
Abdominal Intraoperative & Laparoscopic Ultrasound Diagnosis Model (With Lesions)	<ul style="list-style-type: none"> <li>Abdominal intraoperative ultrasound examination</li> <li>Laparoscopic ultrasound examination</li> <li>Intraoperative ultrasound-guided puncture of abdominal lesions</li> </ul>	Transparent	MU-E-AILU02-MNT
		Opaque	MU-E-AILU02-MNO
Abdominal Intraoperative & Laparoscopic Ultrasound Ablation Model	<ul style="list-style-type: none"> <li>Abdominal intraoperative ultrasound examination</li> <li>Laparoscopic ultrasound examination</li> <li>Intraoperative ultrasound-guided puncture of abdominal lesions</li> <li>Intraoperative ultrasound-guided ablation of abdominal lesions</li> </ul>	Transparent	MU-E-AILU03-MNT
		Opaque	MU-E-AILU03-MNO
Abdomen Cavity	<ul style="list-style-type: none"> <li>Used with intraoperative series models for relevant skill training</li> </ul>	Transparent	MU-E-AILU-A

## Anatomy

### Transparent Abdomen Cavity

- Lower chest to abdomen, nipples, and umbilicus
- Ribs, rib arch, xiphoid process, and spine

### Abdominal Intraoperative & Laparoscopic Ultrasound Model

- Liver, gallbladder, pancreas, spleen, kidney, stomach
- Vessels in the liver: left/middle/right hepatic vein, portal vein and left/right branch vessels
- Inferior vena cava

## Pathology

- Lesions in liver, gallbladder, pancreas, spleen, kidney, stomach (Only apply to MU-E-AILU02-MNO MU-E-AILU02-MNT MU-E-AILU03-MNO MU-E-AILU03-MNT)

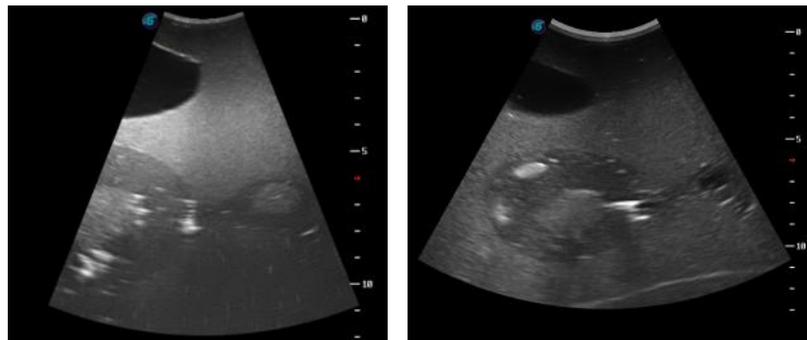
## Features

- Multiple models with specific functions.
- Optional transparent model allows direct observation of internal anatomical structures.
- Transparent abdomen cavity can be purchased separately to use with the model series to simulate realistic laparoscopic ultrasound process.
- Ablative models only: The ablative tumors can be purchased separately for replacement.

### Consumables:

Ablative Tumor Replacement MU-E-TUMOR-C

## Uterine Tumor Puncture And Ablation Ultrasound Model



This model has the appearance of a female pelvic cavity. It can be used as an effective tool for ultrasound guided tumor puncture and ablation skill training.

### Training Skills & Applications

#### Anatomy

#### Pathology

#### Features

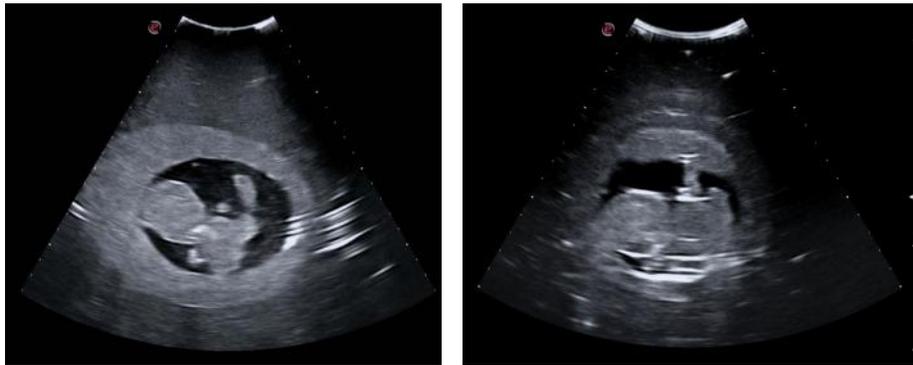
- Ultrasound examination of female pelvic cavity
- Ultrasound guided puncture of uterine tumors via vagina or abdomen
- Ultrasound guided ablation of uterine tumors
- Female pelvic cavity, female perineum, urethra, vagina
- Uterus, fallopian tubes, ovaries, bladder
- Fibroids
- The puncture module can be purchased separately for replacement.
- The tumors can be ablated by using real ablation equipments of microwaves or lasers.
- The ablative tumors can be purchased separately for replacement.

Consumables:

Ablative Tumor Replacement MU-E-TUMOR-C

Replaceable Module: Available for purchase

## CVS Ultrasound Model (11 weeks of pregnancy)



This model has the appearance of the pelvic cavity of a 11-week pregnant female. It can be used as an effective tool for ultrasound guided CVS skill training.

### Training Skills & Applications

- Ultrasound guided transabdominal CVS (Chorionic Villus Sampling)
- Ultrasound guided transcervical CVS
- Measurement of fetus CRL (crown-rump length)

### Anatomy

- Female pelvic cavity, female perineum, vagina
- 11-week fetus, umbilical cord and placenta

### Pathology

- N/A

### Features

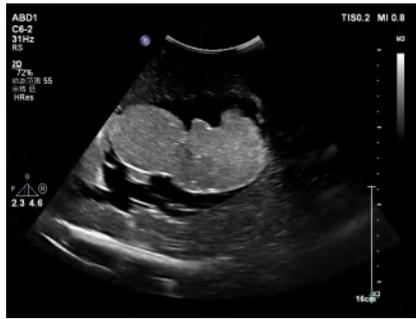
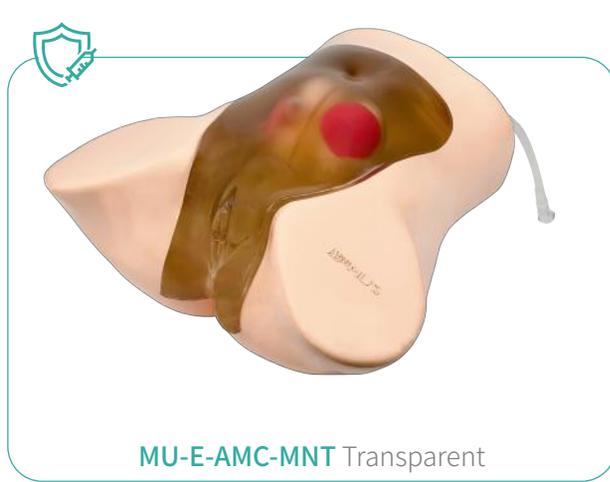
- The puncture module can be purchased separately for replacement.

#### Consumables:

Refill Fluid (Transparent) MU-E-FLUID03-C

Replaceable Module: Available for purchase

## Amniocentesis Ultrasound Model (16-week twin pregnancy)



This model has the appearance of the pelvis of a 16-week pregnant female with twin fetuses. With built-in twin fetus, it can be used as an effective tool for the skill training of ultrasound guided amniocentesis in special clinical scenario.

### Training Skills & Applications

#### Anatomy

#### Pathology

#### Features

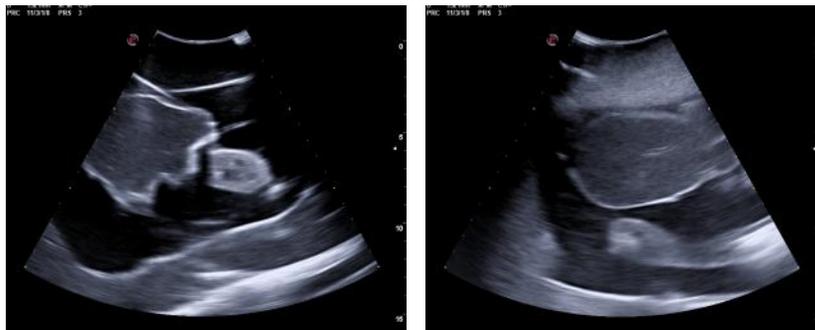
- Ultrasound guided amniocentesis
- Ultrasound identification of twin fetuses in mid pregnancy
- 3D ultrasound examination of fetus in mid pregnancy
- Female pelvic cavity, female perineum
- 16-week twin fetuses in 2 separate amniotic cavities filled with amniotic fluid, with respective umbilical cords and placentas
- N/A
- Optional transparent model allows direct observation of internal anatomical structures.
- The amount of amniotic fluid can be adjusted.
- The puncture module can be purchased additionally for replacement.

Consumables:

Refill Fluid (Transparent) MU-E-FLUID03-C

Replaceable Module: Available for purchase

## Fetal Blood Sampling (FBS) Ultrasound Model (20 weeks of pregnancy)



This model has the appearance of the pelvic of a 20-week pregnant female. It can be used as an effective tool for the complete operational process training of ultrasound guided percutaneous umbilical blood sampling (PUBS) and amniocentesis.

### Training Skills & Applications

- Ultrasound guided percutaneous umbilical blood sampling (PUBS)
- Ultrasound guided amniocentesis
- Ultrasound examination of fetus in mid-trimester pregnancy

### Anatomy

- Female pelvic cavity, female perineum
- 20-week fetus in amniotic cavity filled with amniotic fluid
- Placenta, umbilical cord (with 1 umbilical vein and 2 umbilical arteries)

### Pathology

- N/A

### Features

- The amount of amniotic fluid, blood in umbilical artery and umbilical vein can be adjusted.
- The umbilical arteries and umbilical vein are filled with simulated blood. Simulated blood can be seen after a successful umbilical cord puncture.
- Equipped with hand pump to simulate the umbilical arterial pulse.
- The puncture module can be purchased separately for replacement.

#### Consumables:

Refill Fluid (Red) MU-E-FLUID01-C

(Blue) MU-E-FLUID02-C

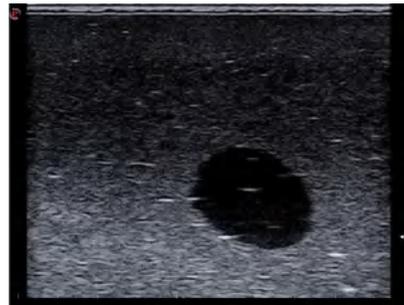
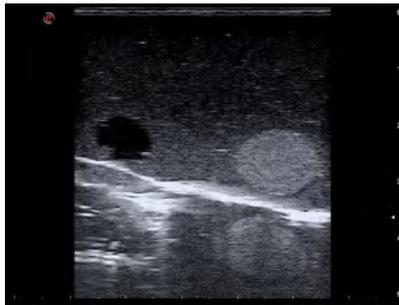
(Transparent) MU-E-FLUID03-C

Replaceable Module: Available for purchase

## Breast Tumor Puncture Ultrasound Model



## Breast Tumor Puncture And Ablation Ultrasound Model



These models can be used in teaching and training of ultrasound-guided breast tumor puncture and biopsy.

### Training Skills & Applications

#### MU-E-BREAST-MNS

- Ultrasound guided breast tumor puncture and biopsy
- Ultrasound examination and measurement of breast tumor

#### MU-E-BREAST01-MNS

- Ultrasound guided breast tumor puncture and biopsy
- Ultrasound examination and measurement of breast tumor
- Ultrasound guided breast tumor ablation

### Anatomy

- Adult female breast

### Pathology

- Breast tumors with different shapes, sizes and echo types.

### Features

- Breast tumors with different sizes, echoes, and depths distributed within the model can be used for ultrasound guided breast tumor puncture and biopsy training of different skill levels.
- Separate model for ablation skill training. Ablation equipments of microwaves or lasers are applicable. The ablative tumors can be purchased separately for replacement.

Consumables:

Ablative Tumor Replacement MU-E-TUMOR-C (ablative model only)

## Tumor And Vascular Puncture Ultrasound Block



MU-E-MAIV-BNT Transparent

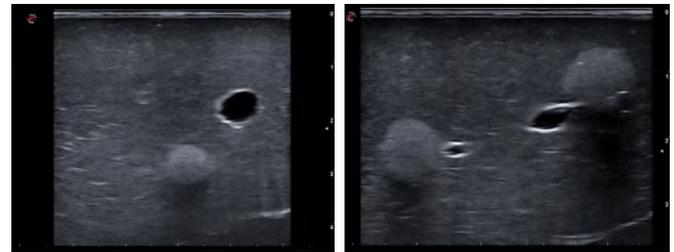


MU-E-MAIV-BNS Skin colored

## Tumor Ablation And Vascular Puncture Ultrasound Block



MU-E-MAIV01-BNS Skin colored



These training blocks are designed to support the teaching and training of ultrasound guided vascular puncture, tumor biopsy and ablation.

### Training Skills & Applications

- **MU-E-MAIV-BNT & MU-E-MAIV-BNS**
  - Ultrasound guided vascular puncture
  - Ultrasound guided tumor puncture and biopsy
- **MU-E-MAIV01-BNS**
  - Ultrasound guided vascular puncture
  - Ultrasound guided tumor puncture and biopsy
  - Ultrasound guided tumor ablation

### Anatomy

- **MU-E-MAIV-BNT & MU-E-MAIV-BNS**
  - Y-shaped blood vessel x 2
  - Tumors x 9
- **MU-E-MAIV01-BNS**
  - Blood vessel x 5
  - Tumors x 3

### Pathology

#### Features

- Hyperechoic tumors
- Optional transparent model allows direct observation of internal anatomical structures.
- Tumors of different sizes and locations enable effective training of different skill levels.
- Separate model for ablation skill training. Ablation equipments of microwaves or lasers are applicable. The ablative tumors can be purchased separately for replacement.

Consumables:

Ablative Tumor Replacement MU-E-TUMOR-C (ablative model only)



## Accessories & Consumables

 Tumor Granule

 Refill Fluid

### Tumor Replacement (20 units)



### Refill Fluid (Red, 250ml)



### Refill Fluid (Blue, 250ml)



### Refill Fluid (Transparent,250ml)



### Refill Fluid (Green,250ml)



# Magic Ultrasound

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