SurgMate®
The Simpler The Better

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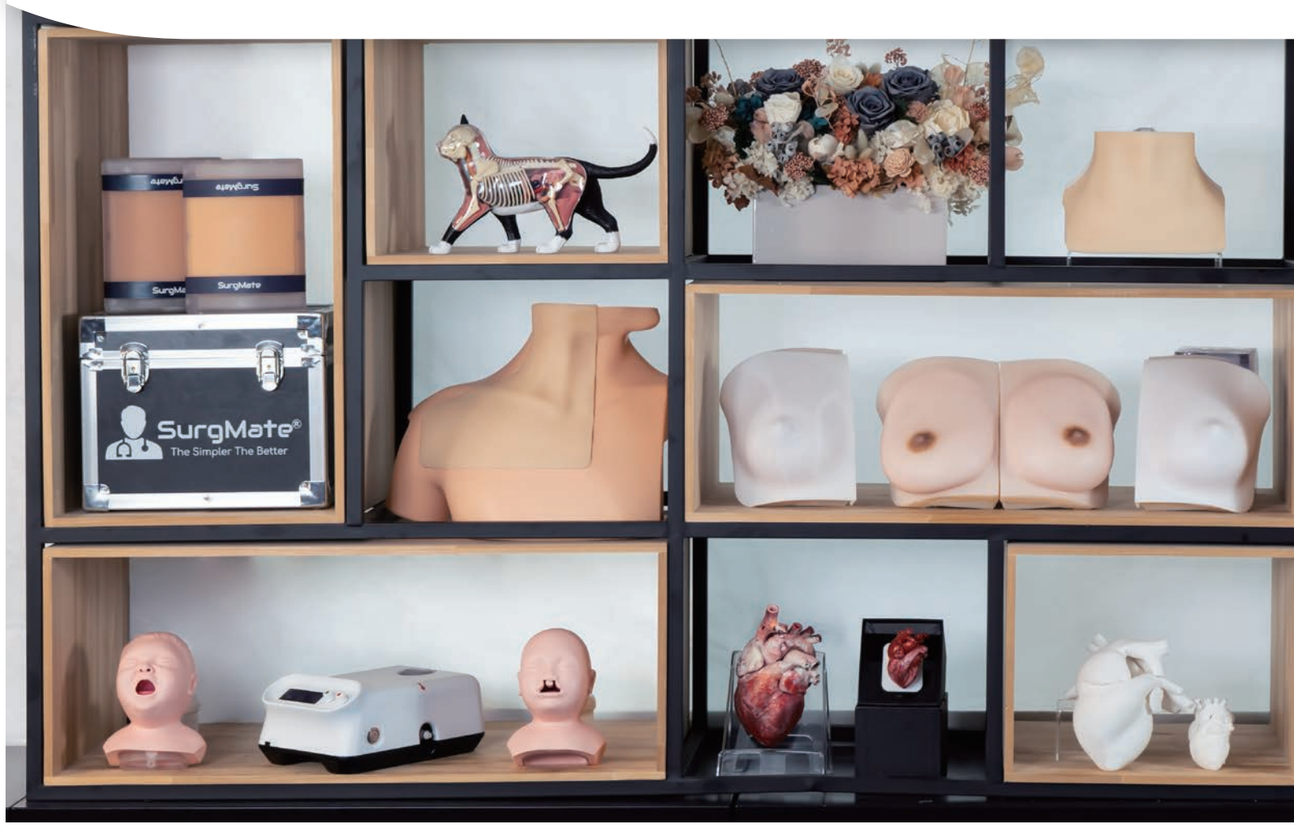

Immersive Hands-on Medical Skills Training Platforms (MSTP)

Better Skill, Better Quality of Life

Elevate Medical Skills and Innovations via Immersive Simulation

Founded in 2018, SurgMate combines over 20 years of experience in medical engineering to create immersive, hands-on training solutions for healthcare professionals. With a keen focus on minimally invasive and ultrasound-guided procedures, we develop practical, purpose-driven medical simulators, task trainers and demonstration models that enhance skill acquisition, precision and confidence.

Our platforms integrate thoughtful software, hardware and user interfaces, offering realistic training experiences and modular versatility to meet the specific needs of medical institutions and device companies. Trusted by global leaders like Medtronic, BD and Terumo, SurgMate's solutions are used in over 15 countries across Asia, America, Europe and Africa.

Through close collaborations with key opinion leaders and renowned medical organizations, we deliver innovative and accessible tools that empower professionals to provide safer, more effective care while advancing medical education and training. Practice with SurgMate to build skills that improve patient outcomes.

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Thyroid Nodules Biopsy and Ablation Training Platform

Designed for precise and immersive training, this platform allows biopsy and ablation practice on modular thyroid models with varied nodules. Featuring temperature monitoring and a “Danger Triangle” alert, it supports safe and effective procedural skill-building, enhancing proficiency in thyroid treatments.

THY-S04

THY-S01

THY-S01A

THY-S02

THY-S03

THY-S04A

Procedures

- Thyroid nodules radiofrequency ablation (RFA).
- Thyroid nodules microwave ablation (MWA).
- Thyroid nodules laser ablation.
- Thyroid nodules cryoablation.
- Thyroid nodules core needle biopsy (CNB).
- Thyroid nodules fine needle aspiration (FNA).

Features

- Visible details under ultrasound-guided procedure.
  - Thyroid gland
  - Thyroid nodules
  - Trachea
  - Vessels around the danger triangle (carotid arteries and jugular veins)
  - Hyper-echogenic cloud due to ablation
- Different sizes of nodules, 2 and 3.2 cm OD, can be embedded in the thyroid pad.
- Embedded temperature sensors monitor the area around the recurrent laryngeal nerve, triggering an alarm if the danger zone is overheated/overcooled.
- The neck muscle pad can be punctured up to 50 times.
- Modular design leads to cost-effective training.
- Realistic appearance provides trainees with more immersive experiences.
- The platform can be carried out using a portable case.

Specification

Net Dimensions (L × W × H)	20.5 cm × 15.5 cm × 11 cm
Net Weight	2.5 kg
Gross Dimensions (L × W × H)	31 cm × 24 cm × 25.5 cm
Gross Weight	4 kg

Models

THY-B01

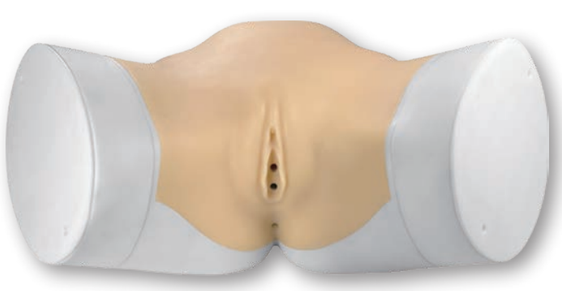
» Applicable for RFA, MWA, laser ablation, cryoablation, CNB, and FNA
» Includes portable case, trachea base, neck muscle pad (THY-S04), thyroid pad for ablation (THY-S01), temperature indicator, temperature sensor connector, power, speaker, gel, electrode pad and electrode connector

Spare Parts

THY-S01	Thyroid pad with two 2 cm OD nodules for MWA, RFA, laser ablation and cryoablation
THY-S01A	Thyroid pad with 2 cm and enlarged 3.2 cm OD nodules for MWA, RFA, laser ablation and cryoablation
THY-S02	Thyroid pad with two 2 cm OD nodules for CNB
THY-S03	Thyroid pad with two 2 cm OD cysts for FNA
THY-S04	Neck muscle pad
THY-S04A	Neck muscle pad for enlarged thyroid pad
THY-S05	Gel for electro-conduction in RFA procedure (60 mL/pack, compatible with human body impedance)

Uterine Fibroids (Myomas) Biopsy and Ablation Training Platform

This 1:1 female pelvis model, crafted with realistic materials, supports hands-on training for gynecological procedures, including fibroid ablation and ultrasound-guided examinations. The platform enhances procedural accuracy and skill-building, offering a lifelike experience for effective practice in gynecological care.



MYO-S01

MYO-S02

Procedures

- Transcutaneous uterine fibroids microwave ablation.
- Transcutaneous uterine fibroids radiofrequency ablation.
- Transcutaneous uterine fibroids laser ablation.
- Transcutaneous uterine fibroids cryoablation.
- Transvaginal ultrasonography.
- Abdominal ultrasound.
- Hysteroscopy checking.
- Laparoscopic visualization checking.
- Laparoscopic myomectomy.
- Basic gynecological examination.
- Cervical cap, female condom, and contraceptive sponge placement.
- Foley catheter indwelling.

Features

- 1:1 female pelvis model made of soft material, supporting up to 200 punctures.
- Ultrasound compatible.
- Abdominal and vaginal scanning access.
- Anatomical features:
  - Uterus with endometrium.
  - Myometrium and perimetrium.
  - Bladder with urethra.
- Two 3.2 cm OD fibroids are embedded in the inner wall of the uterus and can be seen under ultrasound.
- Modular design leads to cost-effective training.
- Realistic appearance provides trainees with more immersive experiences.
- The platform can be carried out using a portable case.

Specification

Depth of the vagina	Approximately 6 cm
Net Dimensions (L × W × H)	30.5 cm × 49 cm × 22.5 cm
Net Weight	10.5 kg
Gross Dimensions (L × W × H)	70 cm × 40 cm × 32 cm
Gross Weight	17.5 kg

Models

MYO-B01
» Applicable for RFA, MWA, laser ablation, cryoablation and other gynecological procedures » Includes portable case, female pelvis base, uterus (MYO-S01), conductive contact block for RFA (MYO-S02) and nonconductive contact block (MYO-S03)

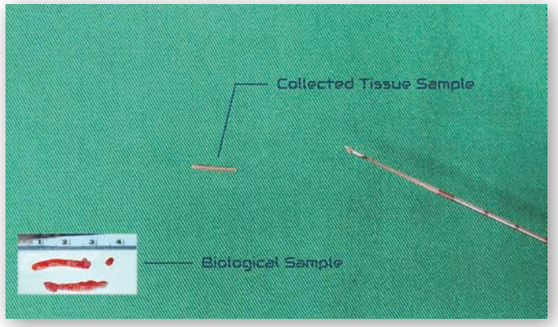
Spare Parts

MYO-S01	Uterus with two 3.2 cm OD fibroids embedded for ablation
MYO-S02	Conductive contact block for RFA
MYO-S03	Nonconductive contact block

Breast Examination, Biopsy and Ablation Training Platform

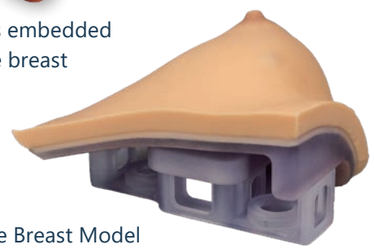
This platform offers realistic tactile feedback for practicing palpation, biopsy, cryoablation, and microwave ablation on breast models with embedded lumps and cysts. Its lifelike design enhances training precision, enabling healthcare professionals to refine diagnostic and interventional skills in breast care.

Full Model

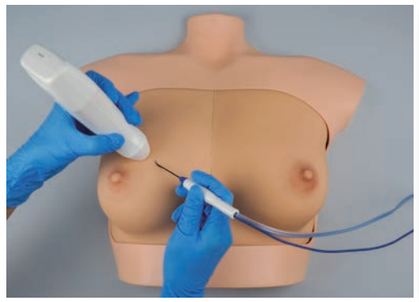


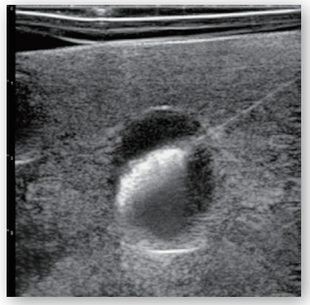
Training Demo - Biopsy

5 lumps/cycsts embedded in 1 single breast



Single Breast Model





Training Demo - MWA

Training Demo - Cryoablation

Procedures

- Breast tumor microwave ablation (MWA).
- Breast tumor cryoablation
- Breast tumor core needle biopsy (CNB).
- Breast tumor fine needle aspiration (FNA).
- Breast tumor palpation.

Features

- Ultrasound compatible.
- Different types of lumps or cysts can be embedded for different training purposes.
- Embedded lumps are distributed randomly in various depths, from areola to chest wall.
- Different sizes of lumps are embedded, from 1.8 cm to 2.5 cm OD.
- Lumps can be pre-shaped as benign or malignant masses depending on training purposes.
- Modular design leads to cost-effective training.
- Realistic appearance provides trainees with more immersive experiences.
- The platform can be carried out using a portable case.

Specification

Full Model

Net Dimensions (L × W × H)	42 cm × 35.5 cm × 15 cm
Net Weight	3 kg
Gross Dimensions (L × W × H)	56 cm × 40.5 cm × 32 cm
Gross Weight	10 kg

Single Breast Model

Net Dimension (L × W × H)	16 cm × 21 cm × 11 cm
Net Weight	1.1 kg

Models

Full Model

BR-B01

» Applicable for MWA, cryoablation, CNB and FNA (according to the types of lumps or cysts embedded in the breast assigned by the customer)
» Includes portable case, platform base and 2 single breasts

Single Breast Model

BR-B02 (Left) / BR-B03 (Right)

» Applicable for MWA, cryoablation and CNB
» Includes single breast (BR-S01/BR-S02) and single breast support base (BR-S07/BR-S08)

BR-B06 (Left) / BR-B07 (Right)

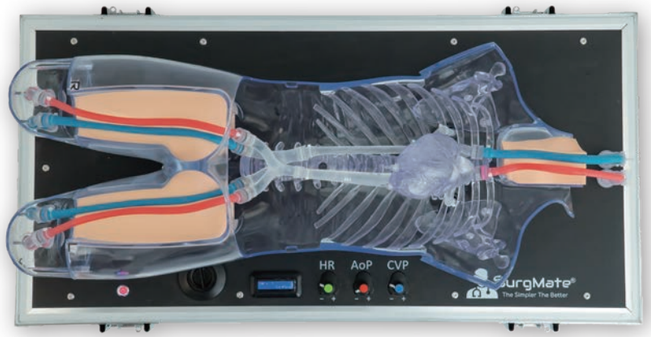
» Applicable for FNA
» Includes single breast (BR-S05/BR-S06) and single breast support base (BR-S07/BR-S08)

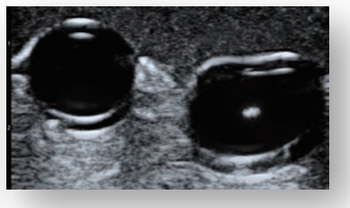
Spare Parts

BR-S01 (Left) BR-S02 (Right)	Single breast with 5 lumps embedded for MWA, cryoablation and CNB
BR-S05 (Left) BR-S06 (Right)	Single breast with 5 cysts embedded for FNA
BR-S07 (Left) BR-S08 (Right)	Single breast support base

ECMO Cannulation and Endovascular Procedures Training Platform

Designed with a transparent structure, this platform allows real-time monitoring of procedures, enabling participants to assess status, identify anomalies, and engage in immediate discussions. With integrated systemic and pulmonary circulatory systems and ECMO console compatibility, it creates an immersive environment for skill-building, teamwork, and scenario-based critical care practice.





Procedures

- Establishment of ECMO support
  - Cannulation for both access (drainage) and returning (re-infusion) cannulas.
  - Initiating ECMO together with the cannulas and ECMO circuit.
  - Hybrid ECMO configurations, such as VV-A, V-AV, VV-V, etc.
  - ECMO troubleshooting for hypovolemia, oxygenator failure, pump head or pump drive failure, cannula malpositioning, sudden introduction of air into circuits, etc.
- Intra-aortic balloon pump (IABP) assist
  - The IABP catheter insertion.
  - Connect the IABP console.
- Hemodialysis support
  - Insertion of a hemodialysis catheter.
  - Connect to the hemodialysis machine.
- Impella support - Intravascular micro-axial blood pumps that provide temporary MCS.

Features

- 1:1 scale rigid male body shell.
- Integrated systemic and pulmonary circulation.
- Adjustable heart rate, AoP, CO, and CVP.
- Panel knob control with heart rate display.
- The water reservoir capacity is 8 L.
- Multiple ultrasound-guided vascular procedures are applicable.
- Modular design leads to cost-effective training.
- Realistic appearance provides trainees with more immersive experiences.

Specification

Dimensions (L × W × H)	115.5 cm × 58.5 cm × 56 cm
Weight	50 kg

Models

ECMO-B01
» Applicable for the establishment of ECMO support » Includes model base, veins (ECMO-S01*2, ECMO-S03) and arteries (ECMO-S02*2, ECMO-S04), left and right inguinal muscle pads (ECMO-S07, ECMO-S08), neck muscle pad (ECMO-S09), left and right inguinal muscle bases (ECMO-S10, ECMO-S11), neck muscle base (ECMO-S12), AC/DC converter and water filling and drainage accessories

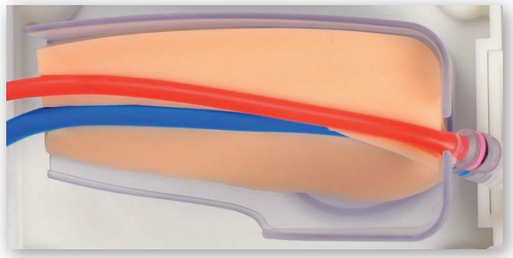
Spare Parts

ECMO-S01	Femoral vein (33.5 cm, blue)
ECMO-S02	Femoral artery (33.5 cm, red)
ECMO-S03	Internal jugular vein (33.5 cm, blue)
ECMO-S04	Carotid artery (33.5 cm, red)
ECMO-S07	Left inguinal muscle pad
ECMO-S08	Right inguinal muscle pad
ECMO-S09	Right neck muscle pad
ECMO-S10	Left inguinal muscle base
ECMO-S11	Right inguinal muscle base
ECMO-S12	Right neck muscle base
ECMO-S13	Vein quick connector
ECMO-S14	Artery quick connector

Femoral Vascular Access Trainer

This portable and easy-to-assemble trainer is perfect for practicing femoral vascular access, a crucial skill for procedures like PCI, TAVR, mechanical circulatory support and structural heart treatments. When combined with a pulse generator, it offers an immersive, realistic training experience, enhancing procedural accuracy and skill development in cardiovascular care.

Basic Version



Advanced Version

Procedures

- Femoral vascular puncture.
- Femoral vascular guide-wire insertion.
- Femoral vascular catheterization.
- Femoral vascular cannulation.

Features

- Designed with a 1:1 ratio to the right thigh of a human body.
- Available in two versions: basic and advanced, based on the anatomical variation of vessels.
- The artery can be connected to the Electro-hydraulic Pulse Generator (PG-B01, sold separately) to automatically generate pulsations with adjustable heart rate and aortic pressure.
- Venous pressure is generated by connecting an IV drip.
- Multiple ultrasound-guided vascular procedures are applicable.
- The muscle pad supports up to 30 cannulations or 200 catheterizations, depending on the training purpose.
- Modular design leads to cost-effective training, allowing quick assembly and easy portability.
- Realistic appearance provides trainees with more immersive experiences.

Specification

Net Dimensions (L × W × H)	27 cm × 14 cm × 22 cm
Net Weight	5.5 kg
Gross Dimensions (L × W × H)	39 cm × 37 cm × 40 cm
Gross Weight	10.5 kg

Note: Specification of PG-B01, please check page 16.

Models

Basic Version

FVA-B01
» Applicable for femoral vascular puncture, guide-wire insertion, catheterization, and cannulation » Includes portable case, basic muscle pad (ECMO-S08) and muscle base (ECMO-S11), along with other standard components (PG-B01 not included)

Advanced Version

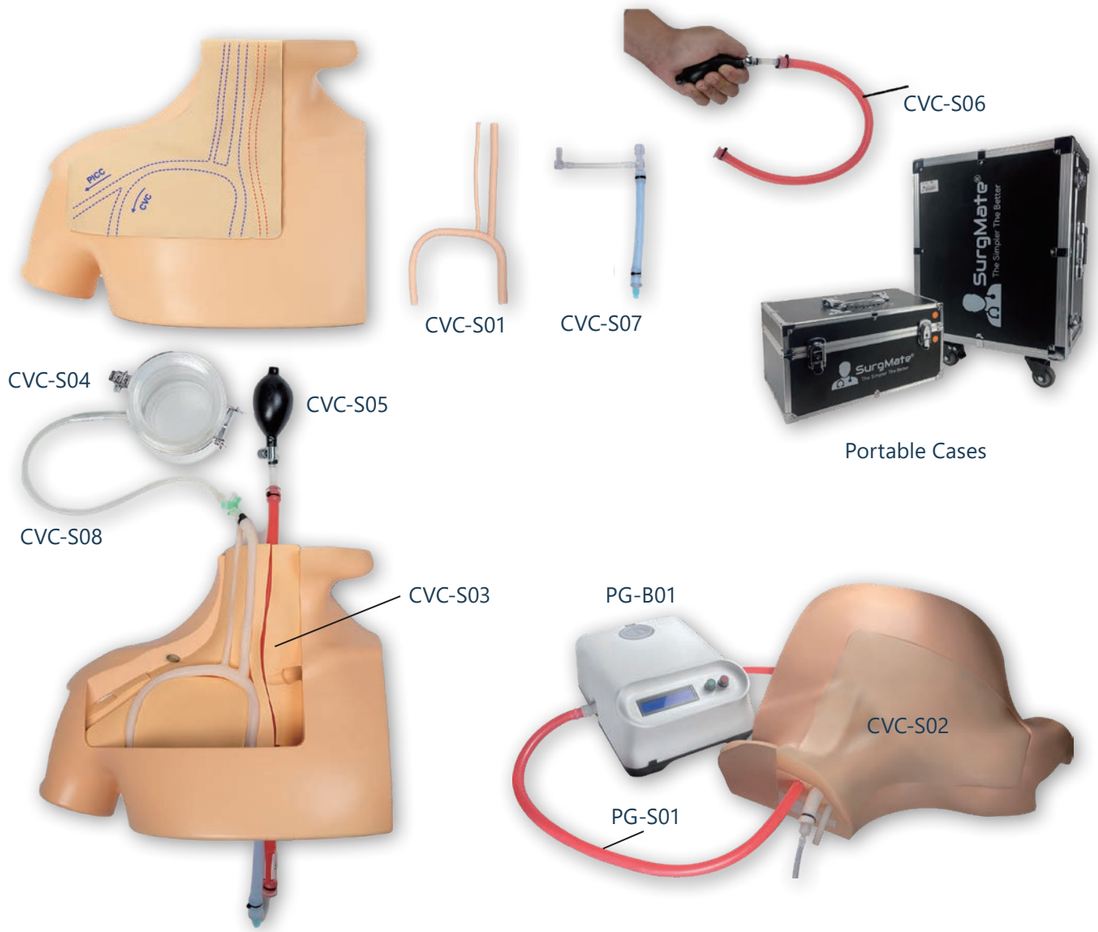
FVA-B02
» Applicable for femoral vascular puncture, guide-wire insertion, catheterization, and cannulation » Includes portable case, advanced muscle pad (FVA-S01) and muscle base (FVA-S02) , along with other standard components (PG-B01 not included)

Spare Parts

ECMO-S01	Femoral vein (33.5 cm, blue)
ECMO-S02	Femoral artery (33.5 cm, red)
ECMO-S08	Right inguinal muscle pad
ECMO-S11	Right inguinal muscle base
FVA-S01	Advanced right inguinal muscle pad
FVA-S02	Advanced right inguinal muscle base
FVA-S03	Drip stand
PG-B01	• Electro-hydraulic Pulse Generator • Includes portable case, the machine, 150 cm artery with quick connectors (valved) at both ends (PG-S01), open-loop vessel & control valve set (PG-S02) and extension liquid reservoir (PG-S03)

Central Venous Catheterization and Port Access Training Platform

This versatile platform features a modular design, enabling functional expansion with accessories and reducing costs by replacing consumables only when needed. It offers dual pulsatility simulation via a hand pump or Electro-hydraulic Pulse Generator for realistic training. A durable, self-healing muscle pad supports repeated use, ensuring cost-effective and high-quality practice.



Hand Pump Version

Electro-dydraulic Driver Version

Procedures

- Ultrasound-guided CVC line implantation
- External landmark catheterization for CVC lines
- Insertion skills for PermCath, Hickman catheters and CVP-Cath
- Port access and care

Features

- The neck muscle pad features a clavicle skeleton design, allowing practitioners to locate the needle insertion point through palpation and further enhance accuracy with ultrasound guidance.
- The enhanced ultrasound-compatible material provides better visibility of vascular positions under ultrasound guidance.
- The self-healing neck muscle pad supports up to 50 punctures.
- The aortic pressure and heart rate can be created and adjusted by the hand pump or the Electro-hydraulic Pulse Generator.
- Adding fake blood to the water tank and neck vessel set (SVC) creates a more realistic training environment.
- Under-skin tunneling is applicable on this platform.
- The product comes with pre-set grooves, allowing for the extension and addition of modules for practicing PICC procedures.
- Modular design leads to cost-effective training.
- Realistic appearance provides trainees with more immersive experiences.
- The platform can be carried out using a portable case.

Specification

Net Dimensions (L × W × H)	37.5 cm × 29 cm × 18 cm
Net Weight	3.5 kg
Gross Dimensions (L × W × H)	54 cm × 37.5 cm × 27 cm
Gross Weight	9.5 kg

Note: Specification of PG-B01, please check page 16.

Models

Hand Pump Version

CVC-B01

» Applicable for ultrasound-guided CVC insertion and Port-A
» Includes a portable case, upper body base, and all CVC spare parts (CVC-S01 to CVC-S08)

Electro-hydraulic Driver Version

CVC-B02

» Applicable for ultrasound-guided CVC insertion and Port-A
» Includes a portable case, upper body base, all CVC spare parts (CVC-S01 to CVC-S08) and Electro-hydraulic Pulse Generator (PG-B01)

Spare Parts

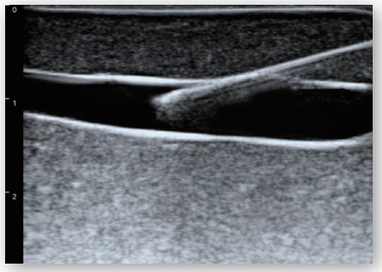
CVC-S01	Neck vessel set (SVC)
CVC-S02	Neck muscle pad
CVC-S02A	Pre-tunneled neck muscle pad
CVC-S03	Neck muscle base
CVC-S04	Water tank
CVC-S05	Hand pump (for creating pulsation manually)
CVC-S06	75 cm carotid artery for hand pump (one end is sealed)
CVC-S07	Extension tubing
CVC-S08	Connection tubing
PG-B01	• Electro-hydraulic Pulse Generator • Includes portable case, the machine, 150 cm artery with quick connectors (valved) at both ends (PG-S01), open-loop vessel & control valve set (PG-S02) and extension liquid reservoir (PG-S03)

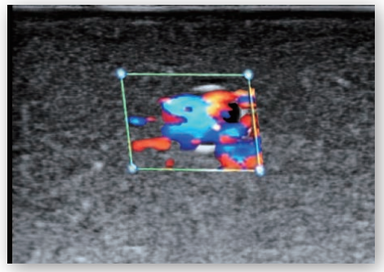
Vascular Access Phantom
(4 Vessels – 2 Straight & 2 Curved)

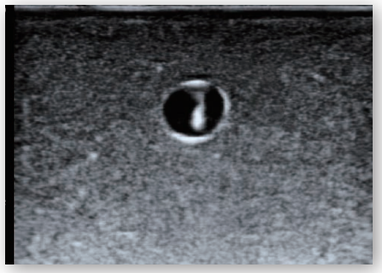
Featuring exceptional ultrasound imaging performance and self-healing materials, this phantom ensures effective and durable training. With four palpable vessels of varying shapes and depths, it provides an ideal platform for healthcare professionals to practice and refine basic vascular access skills with accuracy and confidence.

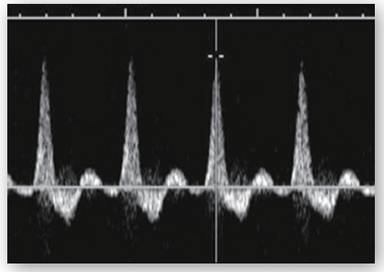
*The path of the internal vessels.

*Embedded vessels vary in depth.









Procedures

- Ultrasound-guided vascular puncture.
- IV injection.
- Intermittent catheterization.
- Intradermal injection.

Features

- Clear vessel image under ultrasound.
- Made of muscle-like and self-healing material.
- Provide force feedback when practicing.
- Human body curvature design.
- 4 vessels, 2 straight and 2 curved, are embedded at different depths.
- Training eye-hand coordination capabilities under an immersive environment.
- Realistic appearance provides trainees with more immersive experiences.
- All-in-one design, easy to carry.

Specification

Vessel ID	(7 ± 1) mm
Depth of vessels embedded	Middle：2 mm under surface External：2-10 mm under surface
Net Dimensions (L × W × H)	24.5 cm × 16 cm × 7 cm
Net Weight	1.2 kg
Gross Dimensions (L × W × H)	33.5 cm × 23 cm × 10.5 cm
Gross Weight	1.6 kg

Models

VAP-B01
» Applicable for ultrasound-guided IV injection » Includes the model, one set of Luer 3-way valve (VAP-S01) and 10 cm Luer extension tube (VAP-S02)

Spare Parts

VAP-S01	Luer 3-way valve
VAP-S02	10 cm luer extension tube

Electro-hydraulic Pulse Generator

Upgrade your training platform with pulsatile circulation simulating realistic heart rates and blood pressure. This versatile generator connects seamlessly to various products, offering adjustable settings to suit diverse applications. Delivering an unparalleled immersive experience, it enhances the realism and effectiveness of medical skills training.

Portable Case

PG-S01

PG-S02

PG-S03

Power Card

Features

- Palpable vascular pulse.
- Visible pulse under ultrasound-guided procedures.
- It can be used independently or with other products to generate pulsatile flow required for various applications.
- The container and artery can be installed and easily disassembled using quick connectors.
- Heart rate and blood pressure are adjustable.
- The Electro-hydraulic Pulse Generator can be carried out using a portable case.

Specification

Heart Rate Range	30~180 bpm
Reservoir Capacity	350 ~ 850 mL
Net Dimensions (L × W × H)	25.5 cm × 18 cm × 11.3 cm
Net Weight	3 kg
Gross Dimensions (L × W × H)	57 cm × 33.5 cm × 19.5 cm
Gross Weight	6.5 kg

Models

PG-B01
» Used to generate arterial pulsation » Includes portable case, the machine, 150 cm artery with quick connectors (valved) at both ends (PG-S01), open-loop vessel & control valve set (PG-S02) and extension liquid reservoir (PG-S03) » Usually used in conjunction with the Central Venous Catheterization and Port Access Training Platform (CVC-B02) and the Femoral Vascular Access Trainer (FVA-B01 & FVA-B02)

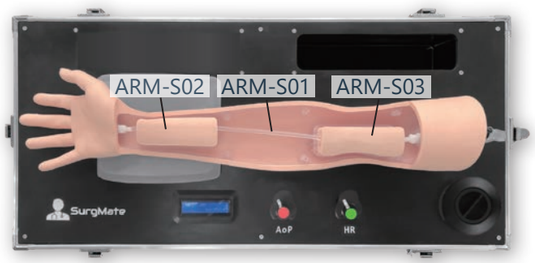
Spare Parts

PG-S01	150 cm artery with quick connectors (valved) at both ends
PG-S02	Open-loop vessel & control valve set
PG-S03	Extension liquid reservoir (500 mL)

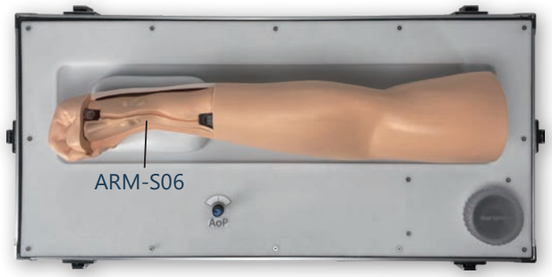
Arterial Puncture Training Arm

This advanced trainer features a built-in pulsatile circulation system for realistic arterial puncture practice. It allows doctors to perform needle insertion using palpation or ultrasound guidance. The durable, self-healing muscle pad supports repeated use, providing a cost-effective solution for mastering arterial access techniques.

Radial Artery Model



Fist Model



Procedures

- Arm artery puncture training.
- Snuff box radial artery training.

Features

- Palpable radial and brachial pulse.
- Realistic resistance of the tissue can be felt during puncture.
- Self-healing muscle pad.
- Electric-powered blood circulation system.
- Realistic blood reflux occurs when an artery is punctured.
- Heart rate and blood pressure are adjustable.
- Modular design leads to cost-effective training.
- Realistic appearance provides trainees with more immersive experiences.
- Integrated product and packaging for easy portability.

Specification

Dimensions (L × W × H)	70 cm × 35 cm × 28.5 cm
Weight	11.5 kg

Note: The two models have same specification.

Models

Radial Artery Model

ARM-B01

» Applicable for arm artery puncture training
» Includes the model, arm artery (ARM-S01), wrist and upper arm muscle pad (ARM-S02, ARM-S03)

Fist Model

ARM-B02

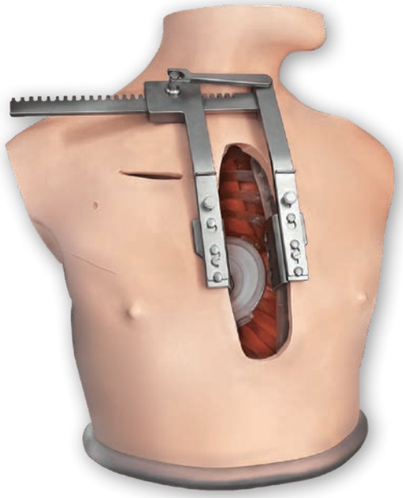
» Applicable for arm artery puncture and snuff box radial artery training
» Includes the model, arm radial artery (ARM-S04), wrist muscle pad (ARM-S05) and wrist muscle base (ARM-S06)

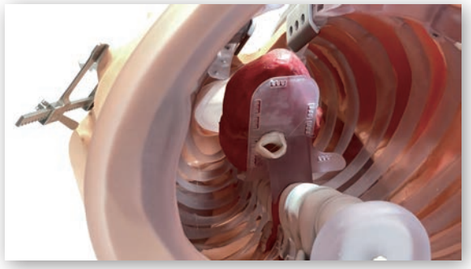
Spare Parts

ARM-S01	Arm artery for radial artery model
ARM-S02	Wrist muscle pad for radial artery model
ARM-S03	Upper arm muscle pad for radial artery model
ARM-S04	Arm radial artery for fist model
ARM-S05	Wrist muscle pad for fist model
ARM-S06	Wrist muscle base used for fist model

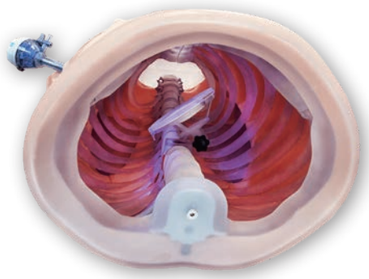
Minimally Invasive and Open Chest Surgical Skills Training Platform

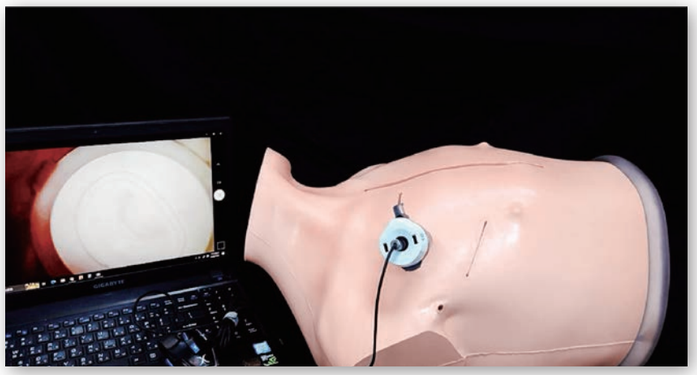
This versatile platform allows doctors to practice cardiothoracic procedures using either open-chest or minimally invasive approaches. Applications include heart valve repair/replacement, anterior thoracotomy, VAD implantation, OPCABG, and other beating-heart surgeries, offering an immersive environment for refining advanced surgical skills in a realistic setting.





HVR-S01 HVR-S02





Procedures

- Mini sternotomy (e.g., heart valve repair and replacement)
- Anterior thoracotomy
- VAD implantation
- Off-pump coronary artery bypass grafting (OPCABG)
- Other beating heart-related surgery

Features

- 1:1 upper body (male).
- Applicable for anterior thoracotomy, axillary parasternal, or mini sternotomy.
- Valve repair and replacement can proceed via intercostal space.
- Retractable skin and muscle.
- Both porcine or polymer hearts can be mounted on a movable tray.
- Modular design leads to cost-effective training.
- Realistic appearance provides trainees with more immersive experiences.
- The platform can be carried out using a portable case.

Specification

Net Dimensions (L × W × H)	43.5 cm × 48 cm × 22.5 cm
Net Weight	12.5 kg
Gross Dimensions (L × W × H)	52 cm × 51.5 cm × 66 cm
Gross Weight	21.5 kg

Models

MIOC-B01
» Applicable for mini sternotomy, anterior thoracotomy, VAD implantation, OPCABG and other beating heart-related surgery » Includes thoracic cage, suturable mitral valve (MIOC-S01) and valve support base (MIOC-S02)

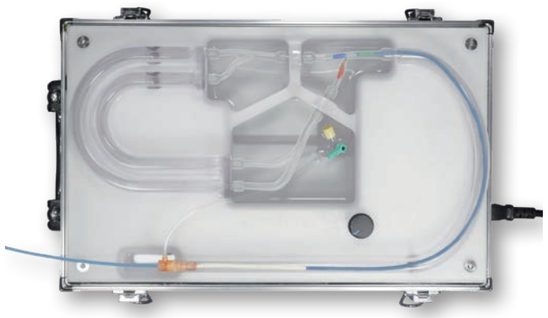
Spare Parts

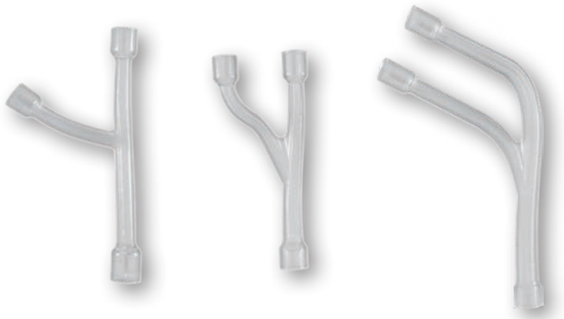
MIOC-S01	Suturable mitral valve
MIOC-S02	Valve support base (applicable for suturable mitral valve)
MIOC-S03	Movable tray for porcine or polymer heart

Note: Suturable aortic and tricuspid valves are available upon request.

Coronary and Bifurcation Stenting / Wiring Training Platform

This portable, user-friendly platform enables hands-on training in guidewire maneuvering, catheter navigation and stent deployment and retraction. Featuring a built-in circulatory system that simulates blood flow resistance and feedback, along with interchangeable vessels, it provides an immersive and flexible environment for mastering coronary and bifurcation techniques.





CBS-S01 CBS-S02 CBS-S03

Procedures

- Coronary stent placement.
- Coronary bifurcation stenting placement.
- Coronary wire insertion.

Features

- Three main coronary arteries
  - Left main coronary artery (LMCA)
  - Left circumflex artery (LCx)
  - Left anterior descending artery (LAD)
- Vessel trunks and branches with different bifurcation angles can be placed for different types of bifurcation stents.
- Electric-powered blood circulation system.
- The blood flow rate is adjustable.
- The transparent vessel design enables immediate feedback during training and allows trainers to demonstrate guidewire manipulation techniques effectively.
- Modular design leads to cost-effective training.
- Integrated into a carrying case for quick practice.

Specification

Dimensions (L × W × H)	40 cm × 25 cm × 10 cm
Weight	2.5 kg

Models

CBS-B01
» Applicable for wiring and stenting in the bifurcation of the coronary and its branches » Includes the platform and one set of flexible transparent vessels (CBS-S01, CBS-S02 and CBS-S03)

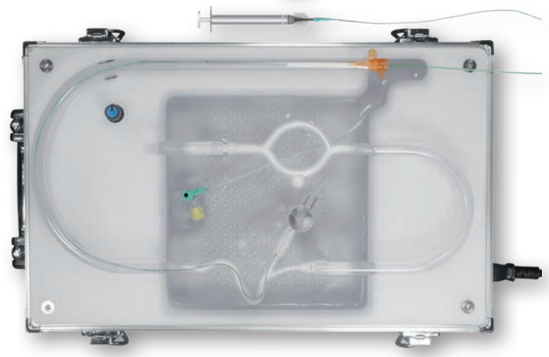
Spare Parts

Flexible transparent vessel (ID 4 mm, 3 mm, 3 mm)

CBS-S01	LMCA 75 degrees
CBS-S02	LCx (OB1) 30 degrees
CBS-S03	LAD (D1) 25 degrees

AVM Liquid Embolization Wiring and Glue Injection Training Platform

This portable, user-friendly platform enables hands-on training in guidewire maneuvering, catheter navigation and glue injection. Featuring a built-in circulatory system that simulates blood flow resistance and feedback, along with interchangeable vessels, it provides an immersive and flexible environment for mastering AVM embolization techniques.

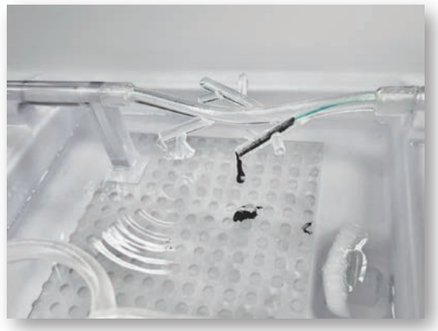


AVM-S01

AVM-S02

AVM-S03

AVM-S04



Procedures

- Wiring and glue injection training.

Features

- Multiple flexible and rigid AVM vessels with different aneurysm morphologies are available.
- Electric-powered blood circulation system.
- The blood flow rate is adjustable.
- The transparent vessel design enables immediate feedback during training and allows trainers to demonstrate guidewire manipulation techniques effectively.
- Modular design leads to cost-effective training.
- Integrated into a carrying case for quick practice.

Specification

Dimensions (L × W × H)	40 cm × 25 cm × 10 cm
Weight	2.5 kg

Models

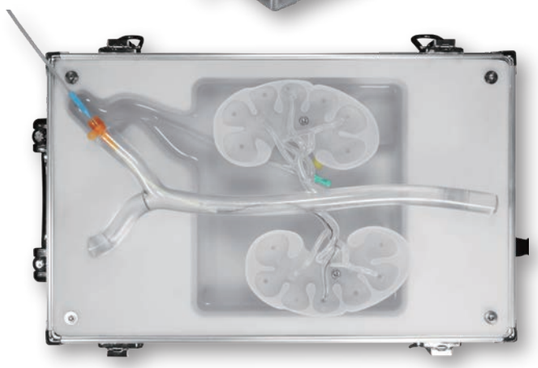
AVM-B01
» Applicable for wiring and glue injection training » Includes the platform and one set of flexible AVM vessels (AVM-S01, AVM-S02, AVM-S03 and AVM-S04)

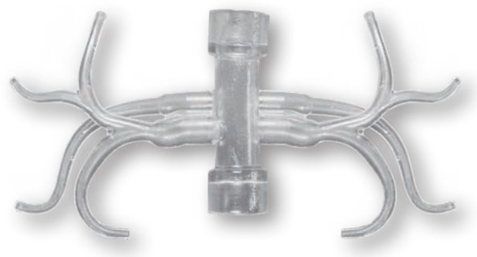
Spare Parts

AVM-S01	Flexible AVM vessels with bifurcation configuration
AVM-S02	Flexible AVM vessels with tree-like configuration
AVM-S03	Flexible AVM vessels with circle-like configuration
AVM-S04	Flexible AVM vessels with S-curve configuration

Renal Artery Wiring and Spiral Ablation Training Platform

This portable, user-friendly platform with high-fidelity kidneys enables hands-on training in guidewire maneuvering, catheter navigation and spiral ablation. Featuring a built-in circulatory system that simulates blood flow resistance and feedback, along with interchangeable vessels, it provides an immersive and flexible environment for mastering renal artery access techniques.





RDN 9999_00

Procedures

- Wiring and ablation catheter placement training.

Features

- The morphology of attached renal arteries is replaceable.
- Both the left and right femoral arteries can be accessed.
- With high-fidelity kidneys on both sides.
- Electric-powered blood circulation system.
- The blood flow rate is adjustable.
- The transparent vessel design enables immediate feedback during training and allows trainers to demonstrate guidewire manipulation techniques effectively.
- Integrated into a carrying case for quick practice.

Specification

Dimensions (L × W × H)	40 cm × 25 cm × 10 cm
Weight	2.5 kg
Renal arteries ID	Tapered from 8 mm to 3 mm (wall thickness around 1 mm)

Models

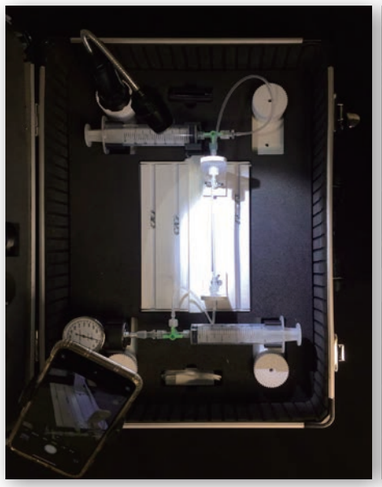
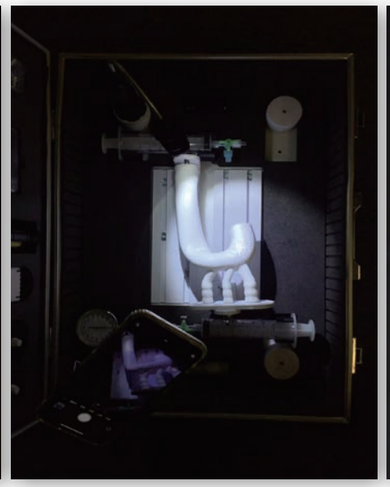
RDN-B01
» Applicable for guide wiring and device placement » Includes the platform and a rigid or flexible vessel (according to customer request)

Spare Parts

RDN-S01	Flexible transparent vessel

Portable Distance Surgical Skills Training Platform

This compact, versatile platform supports cutting, suturing and knotting exercises with various tissues, including vessels and intestines. It features a mount for mobile phones, enabling image capture or video streaming for remote learning and teaching, making it ideal for both practice and distance education.

Procedures

- Vascular suturing and suture removal
- Deep suturing and suture removal
- Basic and complex suturing
- Instrument and deep knotting
- Appendicular suture

Features

- Different simulated organs or modules can be replaced according to training purposes.
- Pumping system that provides feedback on sewing and knotting techniques.
- Equipped with a tripod and mobile phone connection functions to support remote teaching.
- Various modules can be replaced according to requirements.
- Integrated into a carrying case for quick practice.

Specification

Dimensions (L × W × H)	45.5 cm × 34 cm × 16 cm
Weight	5.4 kg

Models

PDS-B01
» Applicable for vascular suturing and suture removal

Product Number List

Thyroid Nodules Biopsy and Ablation Training Platform		
THY-B01	Main body	2
THY-S01	Thyroid pad for ablation (2 cm)	2
THY-S01A	Thyroid pad for ablation (3.2 cm)	2
THY-S02	Thyroid pad for CNB	2
THY-S03	Thyroid pad for FNA	2
THY-S04	Neck muscle pad	2
THY-S04A	Neck muscle pad for enlarged thyroid pad	2
THY-S05	Gel for RFA procedure	2
Uterine Fibroids (Myomas) Biopsy and Ablation Training Platform		
MYO-B01	Main body	4
MYO-S01	Uterus for ablation.	4
MYO-S02	Conductive contact block for RFA	4
MYO-S03	Nonconductive contact block	4
Breast Examination, Biopsy and Ablation Training Platform		
BR-B01	Full model	6
BR-B02/BR-B03	Single breast model for ablation & CNB (L/R)	6
BR-B06/BR-B07	Single breast model for FNA (L/R)	6
BR-S01/BR-S02	Single breast for ablation & CNB (L/R)	6
BR-S05/BR-S06	Single breast for FNA (L/R)	6
BR-S07/BR-S08	Single breast support base (L/R)	6
ECMO Cannulation and Endovascular Procedures Training Platform		
ECMO-B01	Main body	8
ECMO-S01	Femoral vein	8
ECMO-S02	Femoral artery	8
ECMO-S03	Internal jugular vein	8
ECMO-S04	Carotid artery	8
ECMO-S07	Left inguinal muscle pad	8
ECMO-S08	Right inguinal muscle pad	8
ECMO-S09	Right neck muscle pad	8
ECMO-S10	Left inguinal muscle base	8
ECMO-S11	Right inguinal muscle base	8
ECMO-S12	Right neck muscle base	8
ECMO-S13	Vein quick connector	8
ECMO-S14	Artery quick connector	8
Femoral Vascular Access Trainer		
FVA-B01	Basic version	10
FVA-B02	Advanced version	10
FVA-S01	Advanced right inguinal muscle pad	10
FVA-S02	Advanced right inguinal muscle base	10
FVA-S03	Drip stand	10
Central Venous Catheterization and Port Access Training Platform		
CVC-B01	Hand pump version	12
CVC-B02	Electro-hydraulic driver version	12
CVC-S01	Neck vessel set (SVC)	12
CVC-S02	Neck muscle pad	12
CVC-S02A	Pre-tunneled neck muscle pad	12
CVC-S03	Neck muscle base	12
CVC-S04	Water tank	12
CVC-S05	Hand pump	12
CVC-S06	75 cm carotid artery for hand pump	12
CVC-S07	Extension tubing	12
CVC-S08	Connection tubing	12
Vascular Access Phantom		
VAP-B01	Main body	14
VAP-S01	Luer 3-way valve	14
VAP-S02	10 cm Luer extension tube	14
Electro-hydraulic Pulse Generator		
PG-B01	Main body	16
PG-S01	150 cm artery for PG-B01	16
PG-S02	Open-loop vessel & control valve set	16
PG-S03	Extension liquid reservoir (500 mL)	16
Arterial Puncture Training Arm		
ARM-B01	Radial artery model	18
ARM-B02	Fist model	18
ARM-S01	Arm artery for radial artery model	18
ARM-S02	Wrist muscle pad for radial artery model	18
ARM-S03	Upper arm muscle pad for radial artery model	18
ARM-S04	Arm radial artery for fist model	18
ARM-S05	Wrist muscle pad for fist model	18
ARM-S06	Wrist muscle base used for fist model	18
Minimally Invasive and Open Chest Surgical Skills Training Platform		
MIOC-B01	Main body	20
MIOC-S01	Suturable mitral valve	20
MIOC-S02	Valve support base	20
MIOC-S03	Movable tray for porcine or polymer heart	20
Coronary and Bifurcation Stenting / Wiring Training Platform		
CBS-B01	Main body	22
CBS-S01	LMCA 75 degrees	22
CBS-S02	LCx (OB1) 30 degrees	22
CBS-S03	LAD (D1) 25 degrees	22
AVM Liquid Embolization Wiring and Glue Injection Training Platform		
AVM-B01	Main body	24
AVM-S01	Flexible AVM vessels with bifurcation configuration	24
AVM-S02	Flexible AVM vessels with tree-like configuration	24
AVM-S03	Flexible AVM vessels with circle-like configuration	24
AVM-S04	Flexible AVM vessels with S-curve configuration	24
Renal Artery Wiring and Spiral Ablation Training Platform		
RDN-B01	Main body	26
RDN-S01	Flexible transparent vessel	26
Portable Distance Surgical Skills Training Platform		
PDS-B01	Main body	28

Medical Simulator Contract Design and Manufacturing Service

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Benefits

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- Fit for purpose
- User-friendly
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Features

- Ultrasonic guidable
- Simulated lesion implantable
- Self-healing skin & muscle
- Pulsatile blood flow or respiratory tide
- Modularization

Arterial Puncture Training Arm
- Radial Artery Model

Coronary and Bifurcation Stenting
& Wiring Skills Training Platform