
Super Simulated Trauma Comprehensive Training System

MODEL: GD/18000

Operation Manual



HONGLIAN Shanghai Honglian Tech Group

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Company Introduction

Shanghai Honglian Medical Technology Group was established in 1993, adhering to the concept of "Promote goodness and virtue, connect with the world", focusing on serving the medical clinical education business. In order to break the monopoly of foreign brands on the medical education model market and reduce the cost of training medical and nursing professionals, the company invested in research and development at the end of the 1980s, continued to innovate and successfully developed the first generation of computer-aided medical teaching system in China, and now has twelve series of teaching models, including clinical internal medicine, surgery, gynecology, pediatrics, obstetrics, emergency, anatomy, nursing, Chinese medicine, diagnosis, dentistry, etc. There are more than 1200 kinds of General Doctor brand teaching models.

Based in Shanghai, the company enjoys the geographical advantages of foreign academic exchange center and cutting-edge scientific research force, plays its own strengths of long-term good cooperation with dozens of famous universities and academic groups at home and abroad, and takes the development of international leading products and the construction of a nationwide product service marketing network as the long-term development of the enterprise, motivates the spirit, accumulates and develops. With more than 10-year unremitting efforts of development, the company now has a 1000 square-meter of marketing center office in the Bund business circle, as well as the production base in Jinshan Industrial Park which covers an area of nearly 60 acres, with a building area of more than 35,000 square meters. Currently, the company owns more than 400 employees in total. It is a high-tech enterprise integrating independent research and development, production, sales and service. The company's annual sales have exceeded one hundred million yuan, and the brand of "General Doctor" has become a well-known brand in the field in China and is also well known in the international market. Our products have been exported to 93 countries, and we have been the long-term supplier of UNFPA for 4 years with high quality, bringing honor to our country.

In order to maintain the competitive advantages of the company's products in the international arena, the company has invested heavily in recent years in the

research and development of medical education software and network digitization and other aspects of independent core technology, and has made significant breakthroughs in the production process of molds and materials, achieving the purpose of rising in the ranks with the world's strongest players for the first time in standard and quality. At the same time, the company has made great progress in the research and development of various core technologies, and the overall parameters of more than ten system products have been audited by authoritative departments. The company has become the maker of industry standards, and several designs and functions have reached the international first-class level, truly realizing the primary goal of being based in China and going to the world. In 2016, in order to improve the output, the production park of the company was upgraded and expanded again, and the annual production capacity of the upgraded industrial park will reach 500 million. In 2012, Honglian Company was successfully upgraded to "Honglian Group", and the registered capital reached 35 million.

As the creator of modern medical education equipment, the company has established 10 product marketing service sub-centers throughout the country, and implemented a set of practical and popular product service management system based on this network construction, to achieve a number of marketing service functions such as rapid response, online assistance, nearby maintenance, emergency disposal, regular tracking, etc., and become a trusted partner of many using units. With continuous deepening of the service system, the company's marketing and service network will gradually cover all major provinces, cities and regions to provide good services for medical education bases around the world to the maximum extent.

Professionalism creates quality and integrity forges the future. In the process of its own development, Honglian advocates "Concept innovation, mechanism innovation, management innovation, technology innovation", taking innovation as the basis and driving force of enterprise development, and considering reputation as the life of the enterprise, so that our enterprise will always strive for progress.

Product Description

The model, seems to be real, is nearly 1.8-meter tall, having breath, heartbeat and pulse, and can blink and talk. He is fully capable of making us believe that he is a real "person". When he is uncomfortable, he will weep and sweat and even bleed. He is the GD/18000 "Super Simulator", whose role is to act as a "patient" for doctors to train and test their skills.

This product is an interdisciplinary, highly intelligent and highly simulated full-function simulation system jointly developed by the company's scientific and technical staff and factory technicians. The simulator can realistically simulate the clinical signs, treatment measures and related nursing operations of various common diseases involved in clinical departments such as emergency medicine, internal medicine and surgery. It can be used by trainees to practice a series of clinical procedures such as clinical consultation, history taking, laboratory and auxiliary examinations, making clinical diagnosis, formulating treatment methods and taking nursing measures.

The characteristics of the GD/18000 are as follows.

Wireless control — with built-in wireless remote control, completely controlled by the handwritten tablet wireless network.

Realistic anatomy — simulates the physical appearance of Asian adults, with precise anatomical structure and obvious anatomical signs.

Comprehensive coverage of disciplines — diagnosis and treatment of diseases in various disciplines such as diagnostics, emergency medicine, medical specialties, and surgical specialties.

Easy to operate — the simulator can be put in supine, lateral and sitting position, with pre-set cases and programs to facilitate the user's training and assessment.

Easy to carry — equipped with built-in battery power, leaving behind the "wire" trouble, with greater authenticity and flexibility.

Cost-effective — for you to enjoy low-cost but high-quality services.

Scope of application of GD/18000:

Applicable disciplines: Emergency medicine, cardiovascular medicine, respiratory medicine, gastroenterology, nephrology, hematology, endocrinology, neurology, rheumatology and immunology; general surgery, neurosurgery, thoracic surgery,

urology, orthopedics.

Applicable groups: Clinical internists, doctors of various clinical departments, medical school students, clinical nursing staff and emergency personnel in various fields.

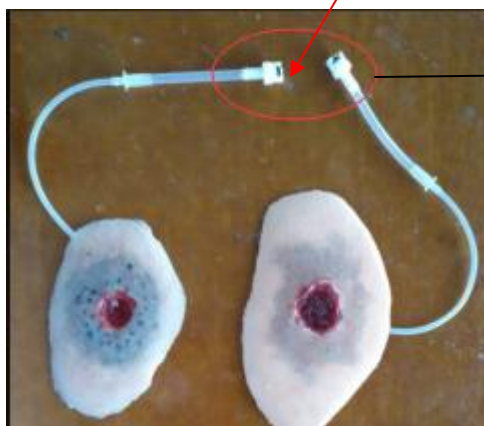
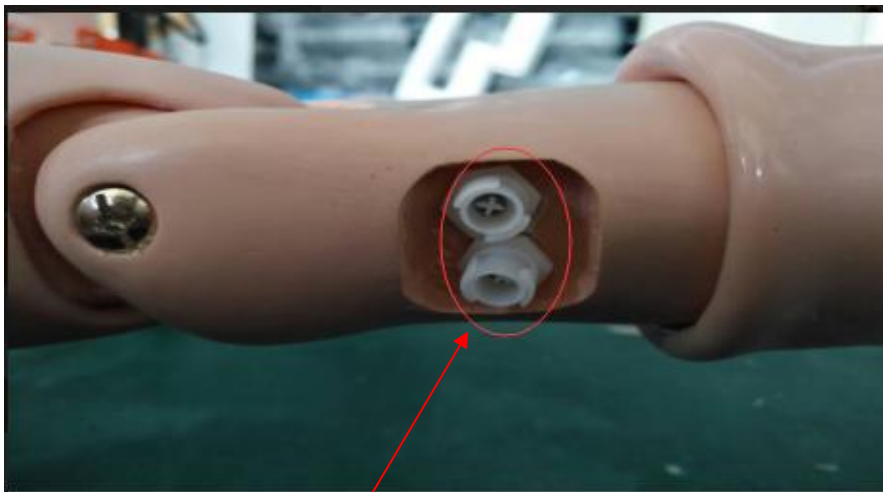
Scope of application: clinical teaching in medical schools, clinical teaching in hospitals, training of practicing physicians, various examinations and training operations of first aid personnel.

Installation

1. Hardware installation

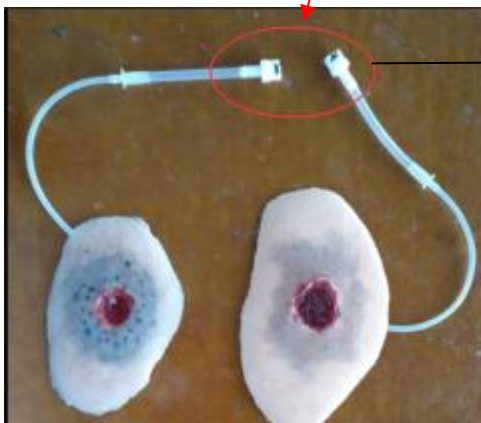
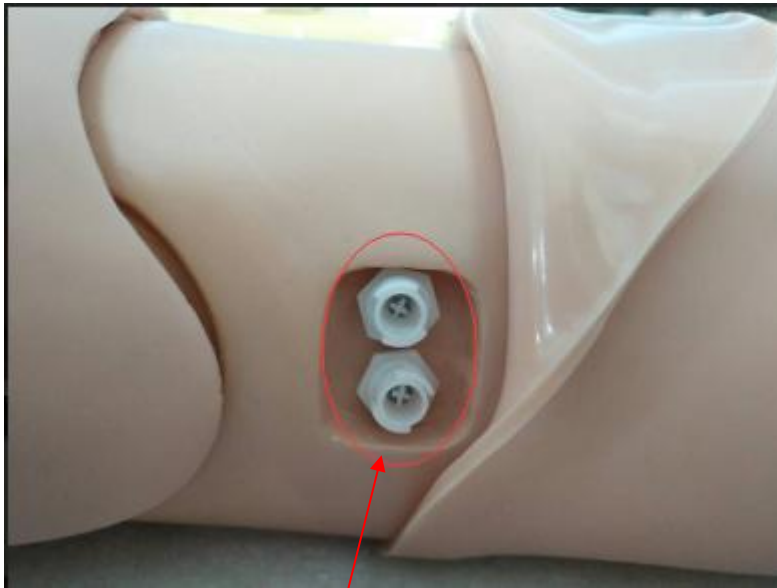
(1) Connect trauma module

Connect the left upper limb trauma module: Turn down the skin at the elbow joint of the left upper limb to expose two joints, select any two trauma modules with joints, connect the two joints, and the trauma module is glued to the skin of the left upper limb.



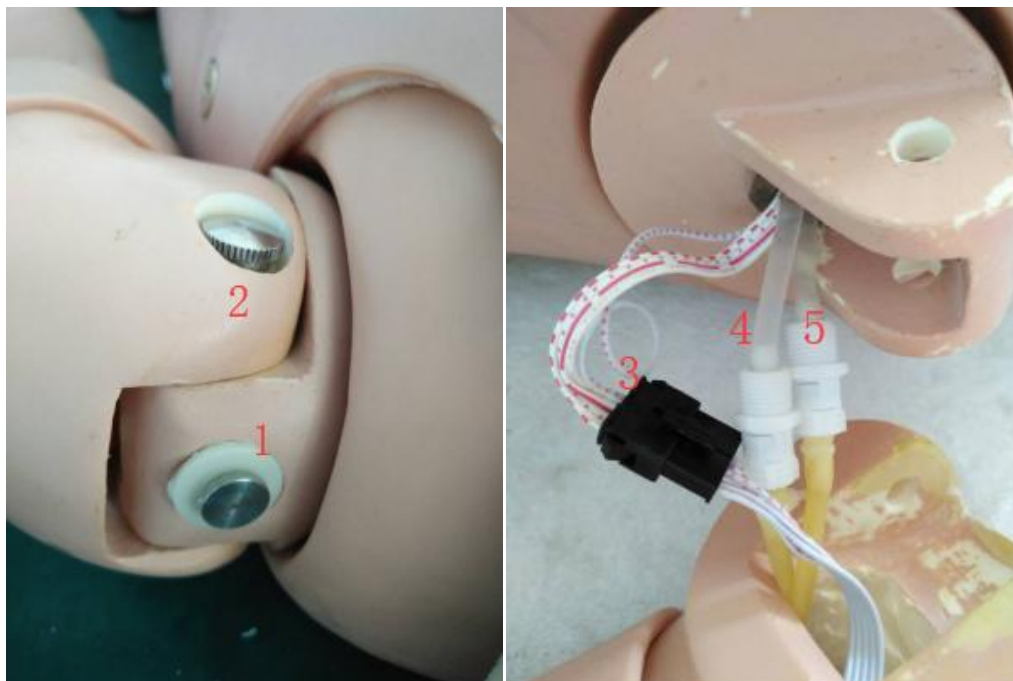
The trauma module can be randomly connected to the left upper limb

Connect the left lower limb trauma module: Turn down the skin at the knee joint of the left lower limb to expose two joints, select any two trauma modules with joints, connect the two joints, and the trauma module is glued to the skin of the left lower limb.

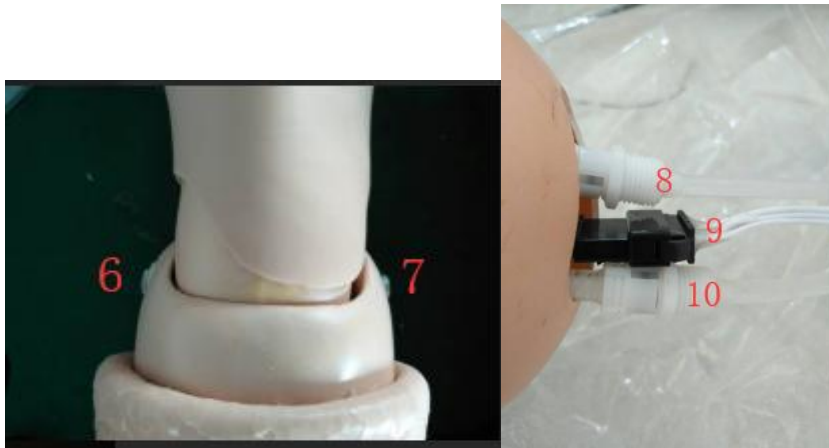


The trauma module can be randomly connected to the left upper limb

Connect the amputation module of left upper limb: Firstly, completely remove the left upper limb, method: lift up the nut at position 1, loose and pull out the nut screw at position 2 to separate the left upper limb and torso, and then pull down the joints at internal position 3, 4 and 5 to completely remove the limb. Mount the amputation of the left upper limb, method: complete the connection at the position 3, 4 and 5 (4 and 5 can be randomly connected), align the connector at position 1 and 2 with the torso, put the nut at position 1 and 2, fasten to complete the mounting.



Connect the amputation module of left lower limb: Firstly, completely remove the left lower limb, method: turn down the skin at the knee joint of the left lower limb, pull out the nut at position 6 and 7 to separate the lower leg of the left lower limb from the thigh, and remove the complete lower leg by pulling off the joint at position 8, 9 and 10 inside the left lower limb. Then, mount the amputation of left lower limb, method: complete the connection at the position 8, 9 and 10 (8 and 10 can be randomly connected), align the connector at position 6 and 7 with knee joints, put inside the nut at position 6 and 7 to complete the mounting.

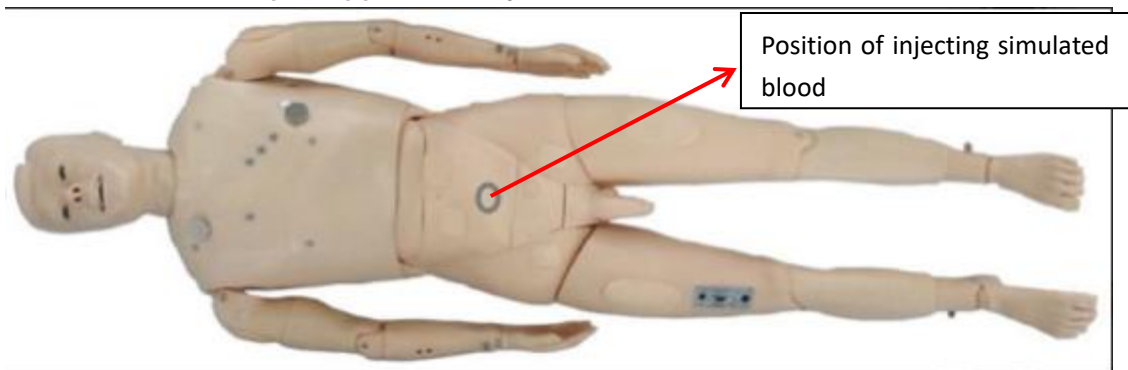


(2) Power connector (in the right upper leg area of the simulator))



(3) Position of injecting simulated blood

To simulate blood, a configuration of 4g simulated blood powder with 100ml water is recommended. Use the funnel to infuse simulated blood into the simulator, up to approximately 2000ml.



(4) Head injection position

Observe the tearing position at the corner of the eye. When the liquid starts to appear, it means the built-in water reservoir bag is full. (It takes about 60ml to fill the built-in reservoir bag)



2. Software Installation

(1) Recommended hardware configuration

CPU: Intel dual-core E5200 and AMD equivalent performance CPU.

Memory: 2G.

(2) Operating system: Supports Windows 10.

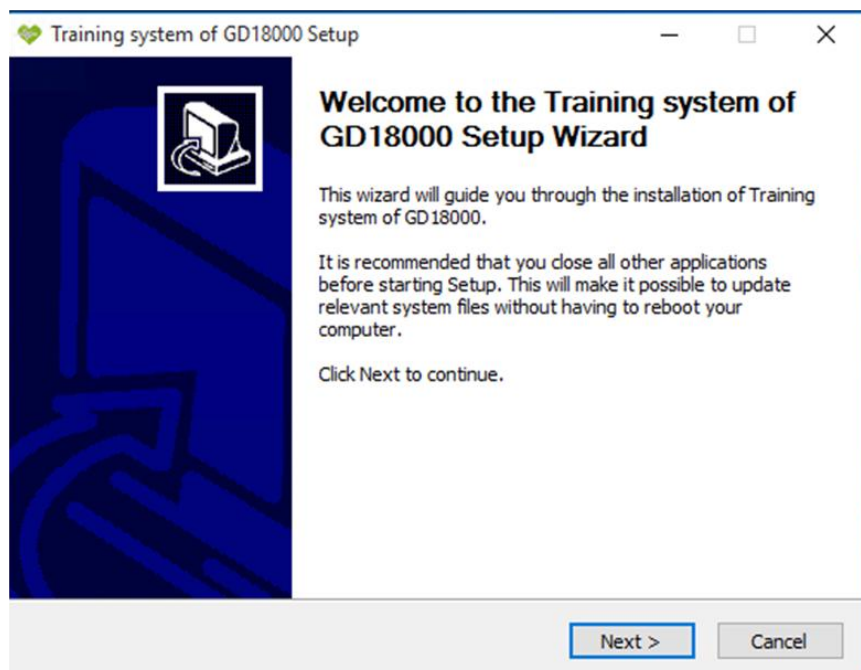
(3) Supporting software

Internet Explorer 8.0 and above is supported.

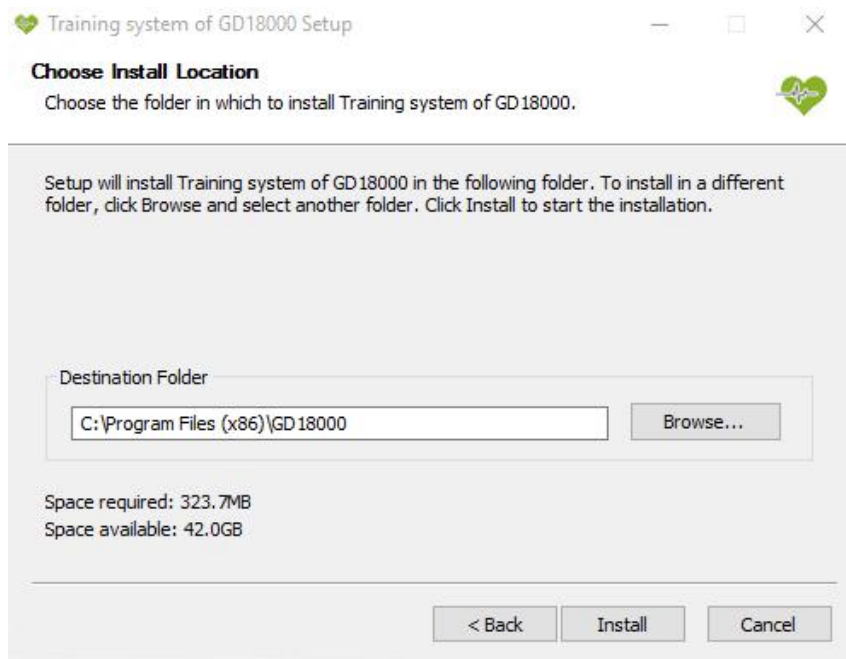
Adobe Flash Player plug-in is supported.

(4) Installation process

Double click “EN_GD1800...” icon to begin the installation, shown as follow:



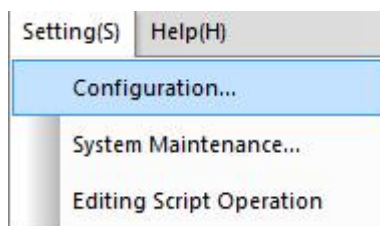
Click “Next” to select installation location



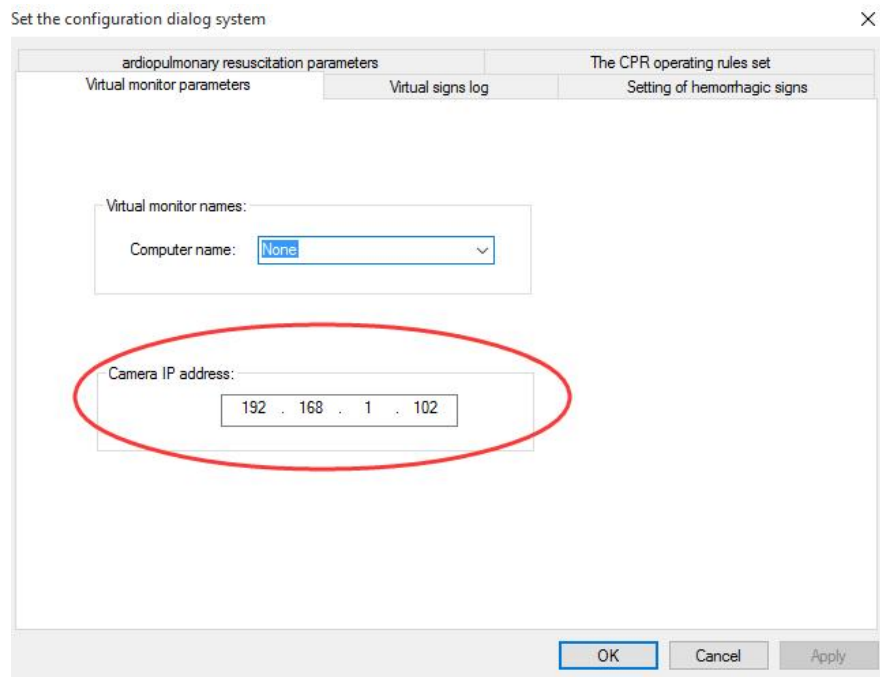
Click “Install” , and then click “OK” to complete.

(5) Configure virtual monitor

Click “Settings” → “System configuration”



Select “Virtual monitor parameters” , configure IP address of the camera



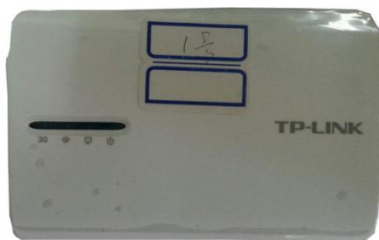
In training interface, click the camera, shown as the red box:



Will display the video surveillance images and video can be recorded.



- (6) Wi-Fi connection: Turn on the wireless router, start the simulator, turn on the wireless connection of the tablet, select the simulator to connect and then wait for auto connection.



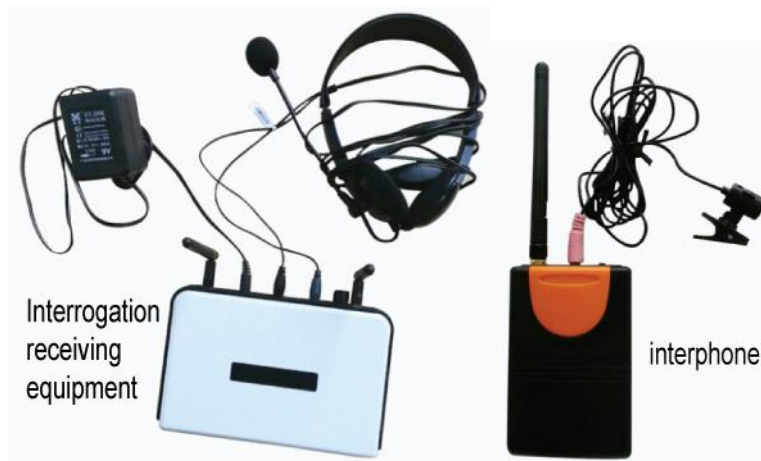
wireless router



Functions & Operating Instructions

1. Head

- (1) Simulate the pupil, while the size of the pupil can be self-adjusted, with both sides of the pupil having direct and indirect light reflection, which can be controlled separately.
- (2) The simulator's eyes can blink.
- (3) Wireless consultation, with a unique doctor-patient dialogue function, can practice consultation can be practices. Through the wireless microphone sensor on the simulator's head, the simulator can make sound, ask questions with the doctor, describe the main complaint, the condition, and can simulate the patient's cough, etc. The whole process of consultation can be simulated on the spot, and the consultation process is simulated by the instructor on the spot.



2. Pulse

- (1) True arterial pulsations can be palpated in the bilateral carotid, bilateral brachial, bilateral radial, bilateral femoral, bilateral popliteal, and bilateral dorsalis pedis arteries.





- (2) The pulse strength changes with the vital signs of the simulator, and there are three states: strong, weak, and no pulse.

3. Breath

- (1) The simulator has real voluntary breathing, and there is an undulation of the thorax when breathing.
- (2) The simulator has multiple breathing modes with adjustable breathing rate and depth.

4. Airway management

- (1) The simulator can be intubated through the mouth, the position and depth of intubation can be detected, and there is an alarm tone for intubation error.



- (2) Can simulate tongue edema
- (3) The teeth are tightly closed.
- (4) Laryngospasm.
- (5) Stiffness in the neck
- (6) Oedema of the pharynx.
- (7) Left and right bronchial blockage.
- (8) Main airway blockage.
- (9) Cricothyroidotomy, cricothyroid puncture.

5. Voice

- (1) There are a large number of voices stored in the system, and the simulator can make different sounds according to different conditions.
- (2) The sound level and other settings can be operated through the software.

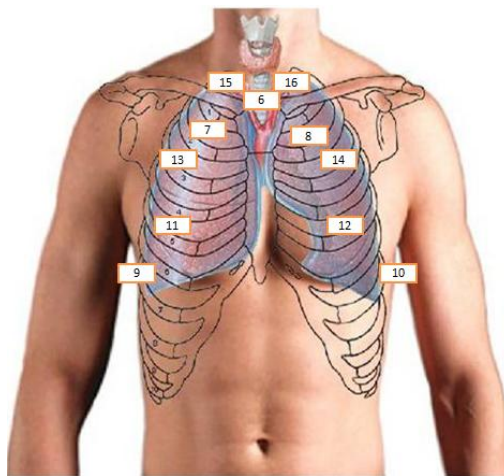
6. Auscultation

- (1) Multiple types of breath sounds can be auscultated, breath sounds are synchronized with breathing, and independent breath sounds on each side can be controlled separately.



Normal bronchial breath sounds	Auscultation site
Normal bronchoalveolar breath sounds	6
Normal alveolar breath sounds	7,8, 15,16,
Tachypnea	7-14
Hypopnea	7-14
Diminished alveolar breath sounds	7-14
Increased alveolar breath sounds	7-14
Intermittent breath sounds	7-14
Rough breath sounds	7-14
Solid lung tissue changes	7-14
Large cavity in the lung	7-14
Compressive pulmonary atelectasis	7-14
Coarse moist rales	7-14
Medium moist rales	6,13,14
Minor moist rales	7-14
Velcro rales	7-14
Crepitus	7-14
Sibilant rhonchus	7-14

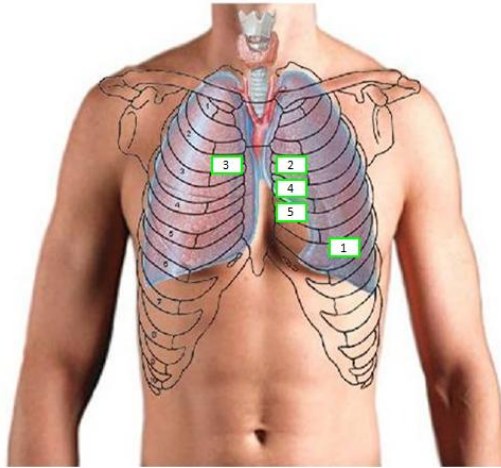
sonorous rhonchi	7-14
Bronchiloquy	6
Pectoriloquy	7-14
Egophony	7-14
Whispered pectoriloquy	7-14
Whispered pectoriloquy enhancement	7-14
Pleural friction sounds	7-14
Normal bronchial breath sounds	9,10



(2) Multiple types of heart sounds can be auscultated, and the heart sounds are synchronized with the heartbeat.

Name	Auscultation site
Normal heart sounds	1, 2, 3, 4, 5
Enhanced S1	1
Weakening S1	1
S1 strength varies	1
Enhanced S2 (A2, P2)	2,3
Weakening S2 (A2, P2)	2,3
Pendulum rhythm (fetal heart rhythm)	1
Split S1	5
Transient split S2	2
General splits S2	2
Fixed split S2	2
Paradoxical split S2	2
Early diastolic gallop rhythm	1
Late diastolic gallop rhythm	1

Overlapping gallop rhythm	1
Diastolic quadruple rhythm	1
Opening snap	1
Pericardial knock	5
Tumor plop	1
Early systolic ejection sound - pulmonary artery	2
Early systolic ejection sound - aorta	3
Late systolic ejection sound	1
Mitral valve prolapse syndrome	1
Prosthetic valve tone - mitral valve	1
Systolic murmur - mitral valve area	1
Systolic murmur - aortic valve area	3
Systolic murmur - tricuspid area	5
Systolic murmur - pulmonary valve area (organic)	2
Systolic murmur - precordial (organic)	4
Austin Flint murmur	1
Diastolic murmur - mitral valve area (organic)	1
Diastolic murmur - aortic valve area	3
Graham Steell murmur	2
Diastolic murmur - tricuspid area	5
Continuous murmur	2
Pericardial friction sounds (biphasic)	5
Sinus tachycardia	1
Sinus bradycardia	1
Sinus arrhythmia	1
Premature atrial contractions	1
Atrial fibrillation	1
Paroxysmal supraventricular tachycardia (PSVT)	1
Ventricular tachycardia	1

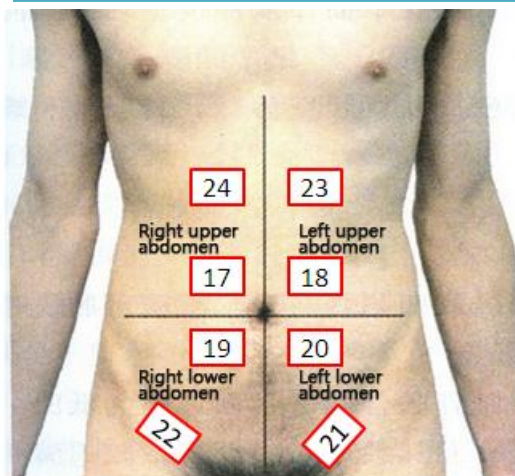


(3) Auscultation of bowel sounds

Name	Auscultation site
Normal bowel sounds	17,18,19,20
Active bowel sounds	17,18,19,20
Hyperactive bowel sounds	17,18,19,20
Diminished bowel sounds	17,18,19,20
Disappeared bowel sounds	17,18,19,20

(4) Auscultation of vascular murmur.

Name	Auscultation site
Venous murmur	17,18,19,20, 23,24
Femoral artery murmur	21,22
Renal artery murmur	23,24



7. Blood pressure

- (1) Simulate the sphygmomanometer to measure blood pressure and use a real stethoscope to perform auscultation.



(2) Realistic Korotkoff tone (Korotkoff) will be heard during the measurement.

8. Vital signs monitoring

- (1) Pulse, blood pressure, blood oxygen monitoring, ECG monitoring, etc.
- (2) Twelve-lead ECG monitoring, with a large amount of ECG data stored in the system, allows for realistic twelve-lead ECG monitoring, simulating the twelve-lead ECG of many heart diseases, and multiple leads can be displayed on the software interface.



9. First aid

- (1) Cardiopulmonary resuscitation: according to the 2015 international CPR guideline standards, electronically monitor the airway opening, blowing volume, blowing frequency, blowing times, pressing sites, number of pressings, pressing depth and frequency, the data collected through the sensor will be uploaded to the computer for display, and the software will automatically determine whether the operation is correct



- (2) Support real defibrillation and simulated defibrillation, cardiac pacing.
(Refer to the J880 manual for the use of the simulated defibrillator)



10. Drug delivery

- (1) Intramuscular injection: subcutaneous & intramuscular injection to bilateral deltoid muscles, intramuscular injection to bilateral lateral femoral muscles, intramuscular injection to gluteus.



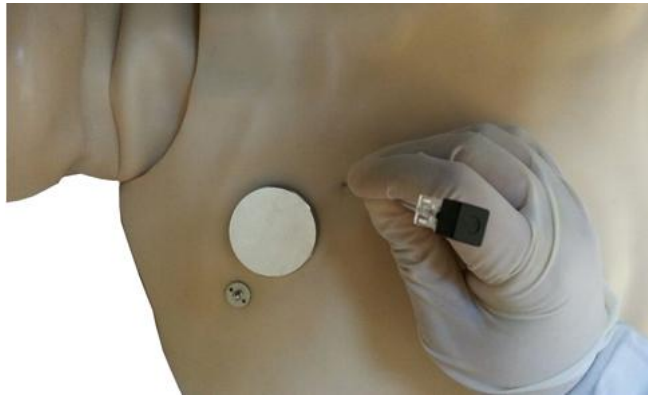
- (2) Intravenous injection: bilateral arm intravenous injection or blood drawing (please fill the simulator with liquid before operation, the injection volume is 200ml).



- (3) Right arm medication identification system: Will provide more than thirty kinds of medication labels. Scan the medication label under the right arm near the wrist, and the software will display the name of the scanned medication, dosage and administration method.
- (4) Real syringe and infusion pumps are used to achieve precise dosing for special patients, and the software system detects the operation of the infusion and syringe pumps.

11. Pneumothorax puncture

- (1) Pneumothorax puncture can be performed at the 2nd intercostal space in the midclavicular line bilaterally, and gas can be successfully extracted by puncture.



(2) There will be a prompt for successful puncture.

12. Thoracentesis drainage

(1) The thoracentesis closed drainage operation can be performed at the 5th intercostal space in the left axillary midline, and fluid can be extracted by successful puncture.



(2) There will be a prompt for successful puncture.

13. Pericardiocentesis

(1) Pericardiocentesis can be performed at the 5th intercostal space on the left side, 1-2 cm medial to the cardiac turbinate.



- (2) There will be a prompt for successful puncture.

14. Nerve examination

- (1) Knee reflex: The simulator is placed in the supine position, and the examiner holds the knee joint in the left hand to make it flex about 120° , and taps the quadriceps tendon below the patella of the knee with a percussion hammer in the right hand, which can cause calf extension. There are 5 states: unresponsive, diminished, normal, hyperactive, and clonic.
- (2) Babinski's sign: The simulator is placed in a supine position with the lower limb extended, and a bamboo stick is used along the lateral edge of the sole of the foot, from posterior to anterior to the little toe near the heel and turned medially, with a positive response of dorsal extension of the bunion and fan-like spread of the remaining toes. There are 2 states: normal and abnormal.



- (3) Oppenheim's sign: The examiner uses the thumb and index finger to press firmly along the anterior edge of the tibia from the top to the bottom of the simulator, and the positive sign is the same as Babinski's sign. There are 2 states: normal and abnormal.



15. Basic care functions

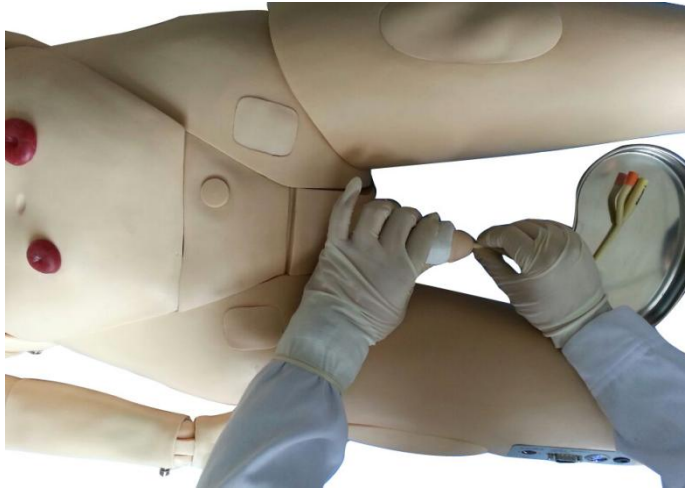
- (1) Oral care for upper and lower fixed dentures.
- (2) Basic care operations such as face washing, hair washing, eye and ear cleaning can be performed.
- (3) The joints of the limbs can be bent from side to side, up and down, and the head, neck and jaw joints can be moved, so they can practice dressing, fracture fixation and other nursing operations.
- (4) The simulator can be used for oxygen therapy, with a variety of oxygen delivery methods (nasal cannula oxygen delivery, oral mask oxygen delivery, etc.), and the oxygen concentration can be adjusted by itself.



- (5) Gastric tube insertion: the simulator can perform gastric lavage and gastrointestinal decompression operations.



- (6) The simulator can practice the enema method and the care of colostomy and rectostomy stoma.
- (7) Can practice the catheterization operation.



16. Case training/assessment

- (1) Emergency department: Built-in multiple emergency cases, independent case editing unit, supporting customers to edit the required cases by themselves.
 - (2) Internal medicine: including cardiovascular, respiratory, gastrointestinal, renal, hematological, endocrine, neurological, rheumatic immune common and frequent cases, the simulator can make diagnosis, laboratory tests and therapeutic measures for each department's cases.
 - (3) Surgery: including common cases of general surgery, neurosurgery, thoracic surgery, urology and orthopedics, the simulator can make diagnosis of cases in each department, and video observation of some surgical operations can be performed in surgery.
- Trauma: Built-in multiple cases of explosion wounds, gunshot wounds and combat wounds, which can be operated to stop bleeding and dressing on

the
simulator.



17. Others

- (1) Cyanosis, which can simulate central cyanosis (purple lips) and peripheral cyanosis (left and right extremity ends).



- (2) Weeping and sweating.



Software System Operating Instructions

1. Login interface



- (1) Double click "Training system o..." to enter the login interface.



- (2) Title bar: Shows current window, including minimize, maximize and close buttons.

Menu bar: Contains almost all commands of the system, in line with the function area.

Function display area: It is the most important component, which visually shows the main functions and components of this system, including special training, script operation, system setting and script editing.

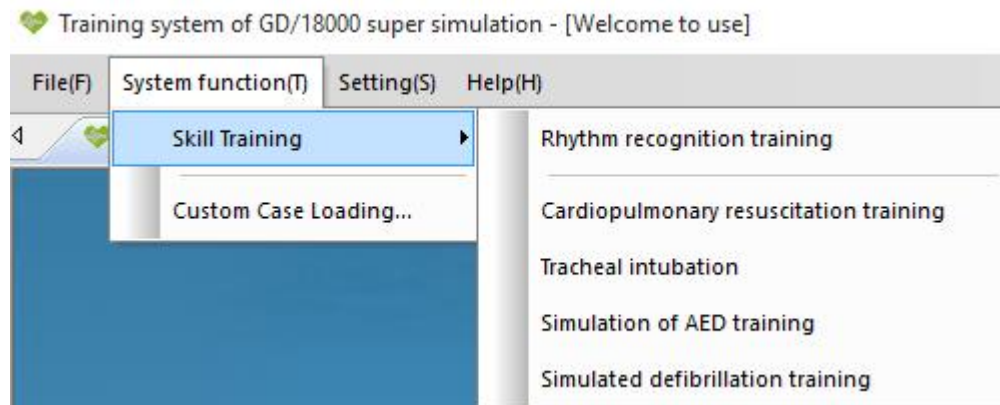


2. Special training



- Method 1: Click "Skill Training" to enter the interface.

Method 2: Click "System functions" → "Special skills training" to enter the interface directly.



Special skills training includes:

(1) CPR first-aid training

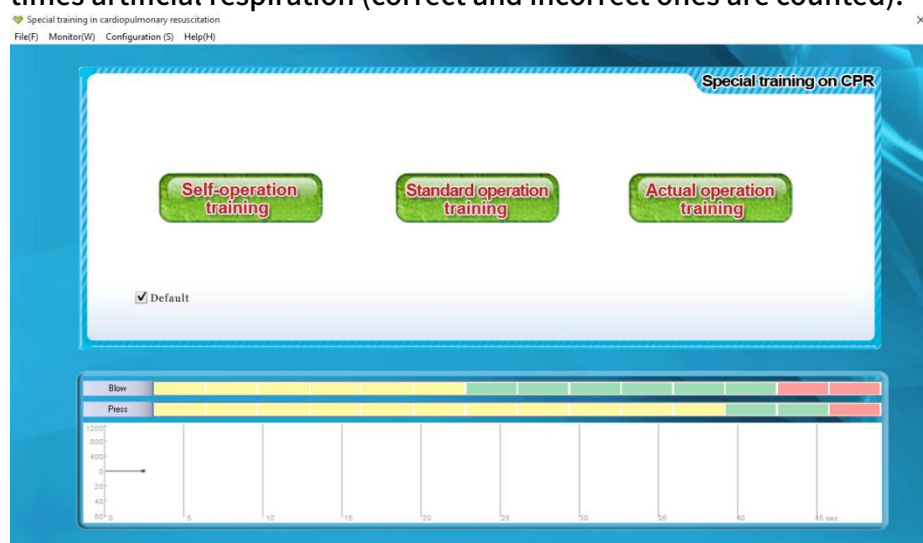
1) Click the icon "↻" to enter CPR first-aid training.

2) There are 3 types of training:

Self-operated exercises: the ratio of chest compression to artificial respiration is not required.

Standard operation practice: chest compression and artificial respiration are operated in the ratio of 30:2, doing 30 times correct compression (incorrect compression will not be counted) followed by 2 times correct artificial respiration (incorrect ones are not counted).

Practical operation practice: chest compression and artificial respiration are operated in the ratio of 30:2, doing 30 times compression (correct and incorrect ones are counted) followed by 2 times artificial respiration (correct and incorrect ones are counted).



Select any of the training methods, use the default settings, or set their own operating parameters. The set parameters including CPR

parameters and CPR operating rules.

Cardiopulmonary resuscitation parameter settings dialog box

Cardiopulmonary resuscitation parameters The CPR operating rules set Total operational time setting

pressing depth range:

maximum depth: 50 mn

maximize depth: 60 mn

tidal volume range:

maximum tidal volume range: 500 ml

maximize tidal volume range: 1000 ml

maximize depth of compression strategies:

☐ Ignore maximize depth ☒ Limit maximize depth

Beats audio prompt:

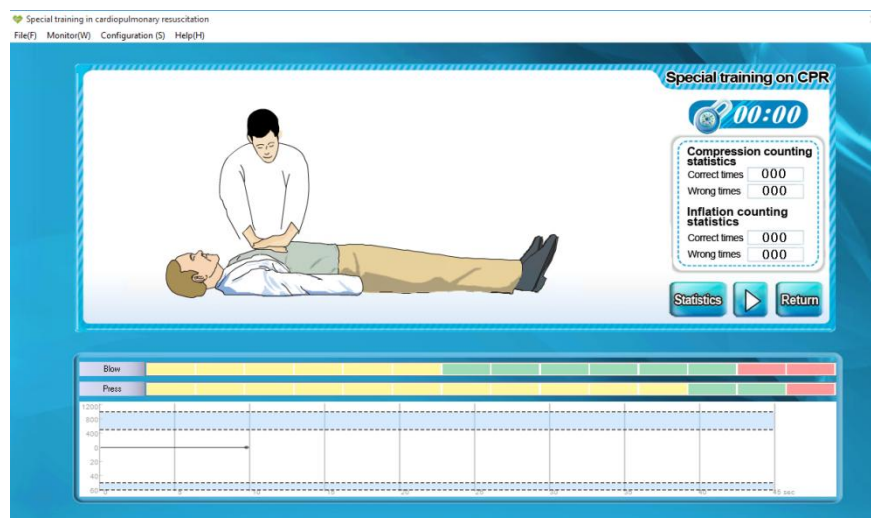
☐ No beats ☒ Beats exist

prompting sounds:

☐ No prompting sounds ☒ prompting sounds exist

OK Cancel Apply

3) CPR interface:



- ✧ Click  to initialize the simulator.
- ✧ CPR is performed on a simulator with FLASH synchronized operation demonstration on the interface.
- ✧ Compression and blowing statistics: according to the depth of compression, the number of correct and incorrect compression times can be counted, and according to the size of blowing volume, the number of correct and incorrect blowing can be counted.
- ✧ Barcode of compression and blowing: when the blowing volume is insufficient, correct or excessive, the barcode will be displayed in yellow, green and red respectively; when the compression depth is too

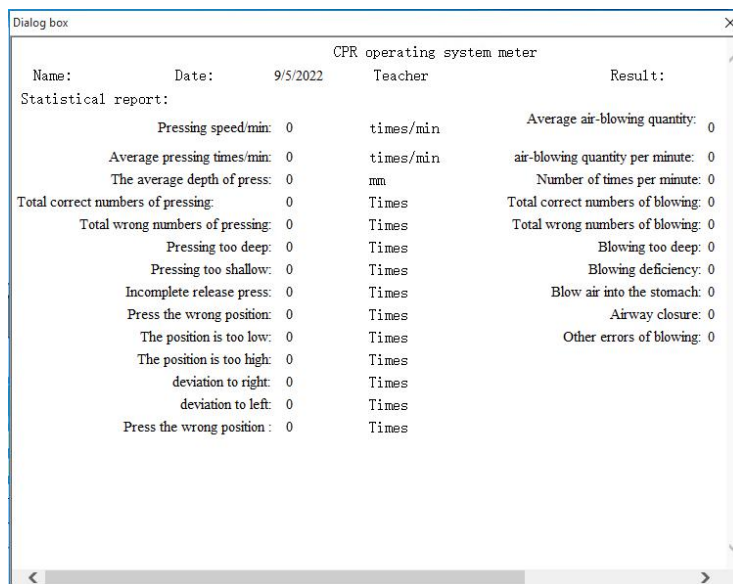
shallow or correct, the barcode will be displayed in yellow or green.



- ✧ Click  to back to the previous interface.



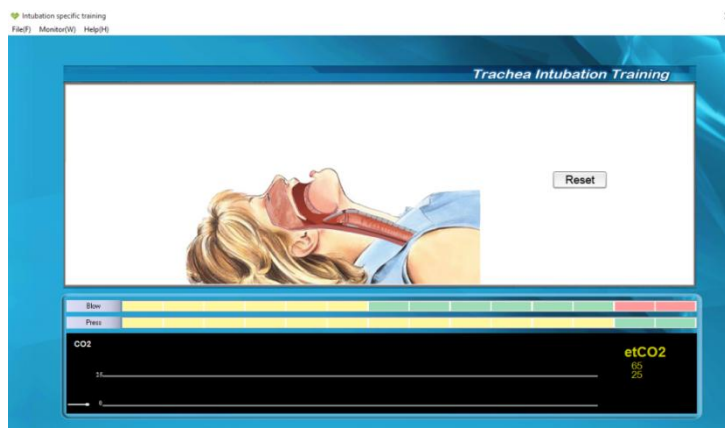
- ✧ When the operation is finished, click  for statistics, which can display student names, grades, dates, etc., and the statistics sheet can be printed.



(2) Intubation training



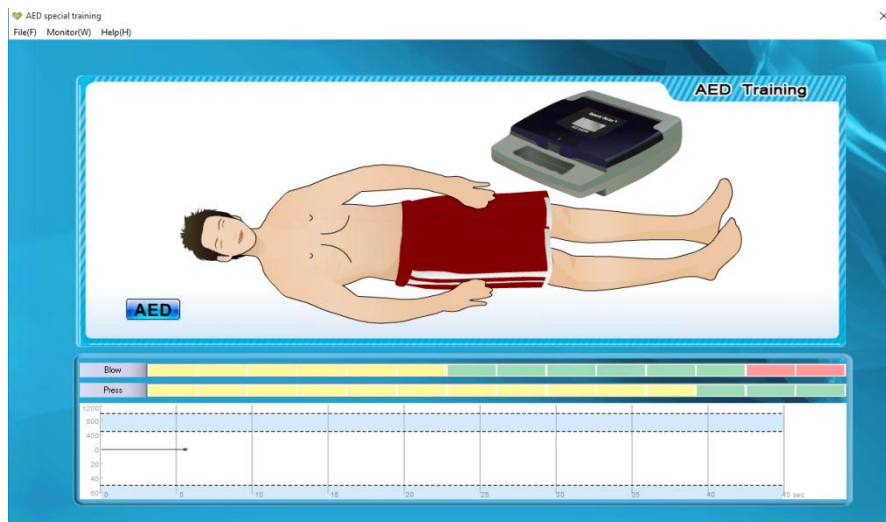
- 1) Click the icon "  " to access the tracheal intubation training.
- 2) The tracheal intubation interface is shown as below: the tracheal intubation is implemented on the simulator, the interface will demonstration the flash synchronized operation, and can display the position of tracheal intubation as well as ventilation effect.



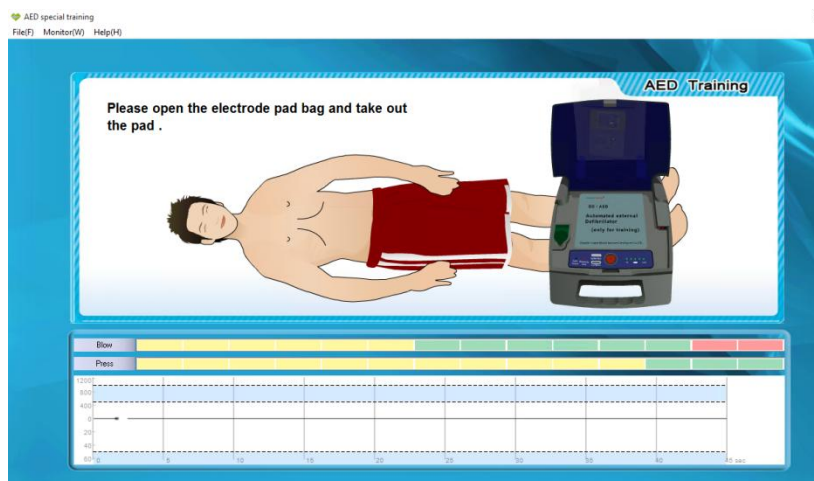
- 3) Click "  " to redo the training of tracheal intubation.

(3) AED use training

- 1) Click the icon "  " to enter AED training.
- 2) The AED training interface is shown as below:

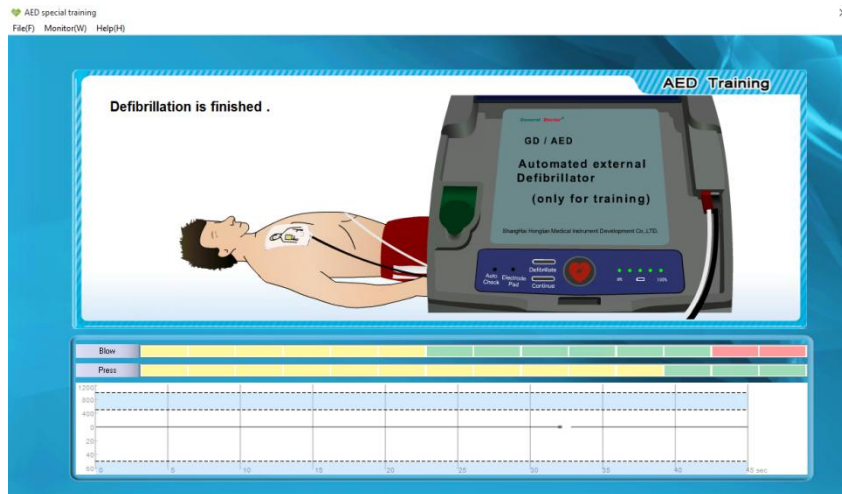


- 3) Click "  " to start the operation, the whole process uses Chinese voice and provides text prompt.



- 4) The AED will automatically analyze the heart rhythm and charge

automatically. After charging is completed, click "  " to discharge and end the defibrillation.

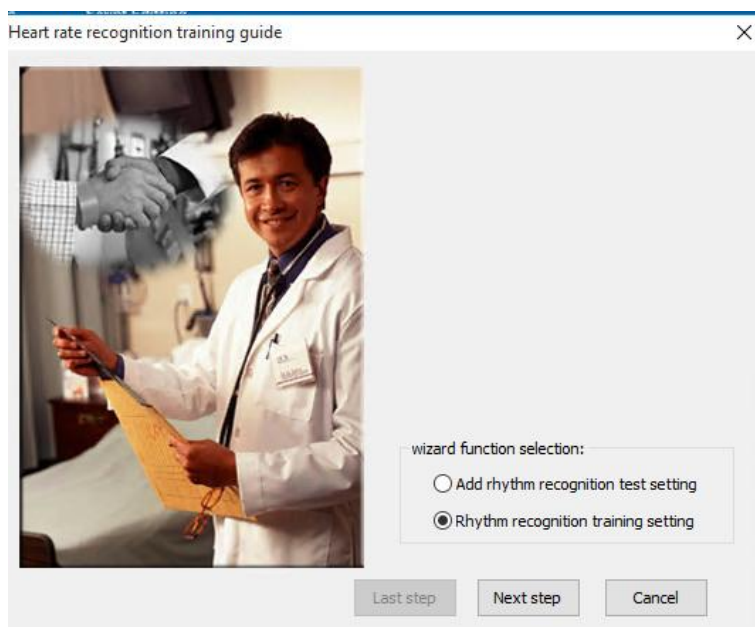
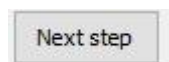


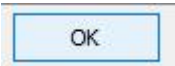
- 5) If a real monitor is connected, the ECG will change accordingly after defibrillation.

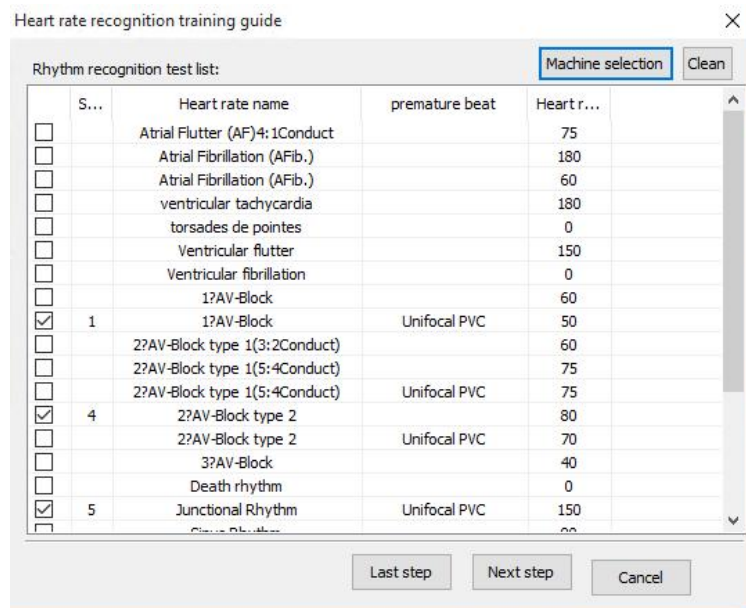
(4) Heart rhythm recognition training



- 1) Click the icon " " to enter the heart rhythm recognition training.
- 2) Select "Heart Rhythm Recognition Training Settings" and click

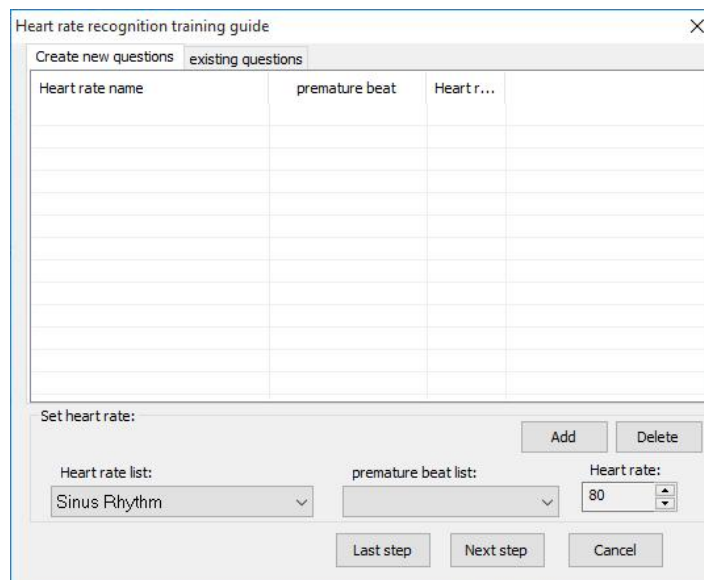


- 3) Select corresponding test question, click  , then click  to start the test training.



- 4) Select "Add heart rhythm recognition test settings" and click

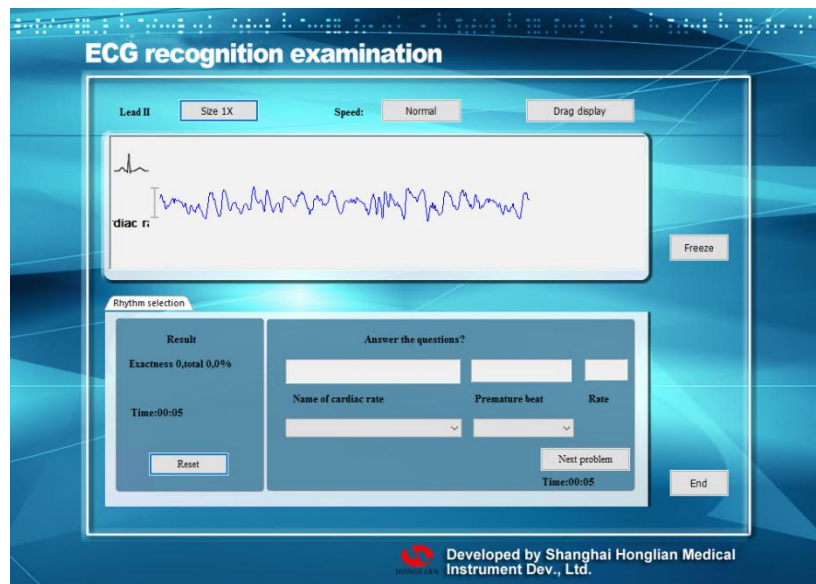
Next step



- 5) Click **Create new questions** to set the heart rhythm or select from **existing questions**, click **Add**, click **Next step** and then click **OK** for test training.

- 6) To delete a test question, select the test question you want to delete and click **Delete** to delete the added test question.

- 7) The training interface is shown as below:



Size 1X **Size 2X** : Indicates the magnification of the ECG waveform.

Normal **Quicken** : Indicates whether the speed of ECG playback is normal or accelerated.

Drag display **Block refresh display** : Indicates the ECG waveform display method.

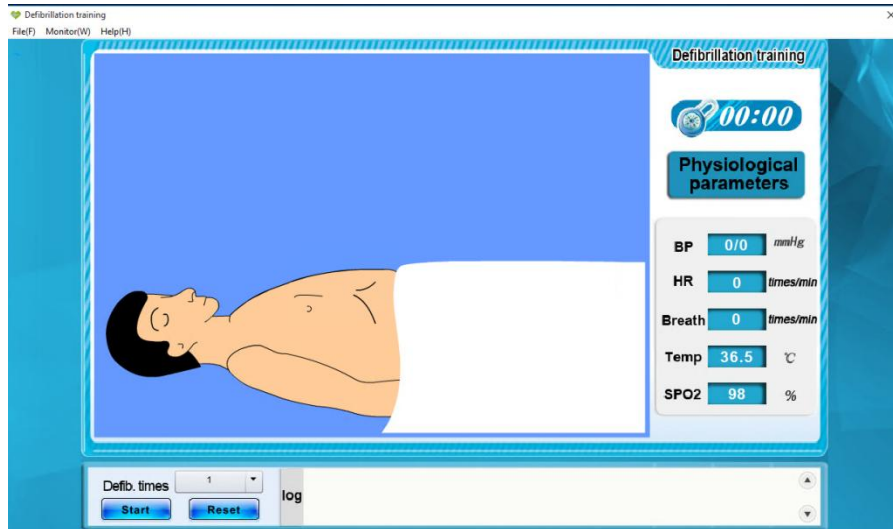
Freeze : Freeze ECG waveform, ECG paper appears on the background.

Reset : Restart the training.

The training time is displayed on the left side, select the ECG name through the drop-down box, click **Next problem**, the answer bar shows the correct answer, click **End** to directly exit the training interface.

(5) Use training of defibrillator

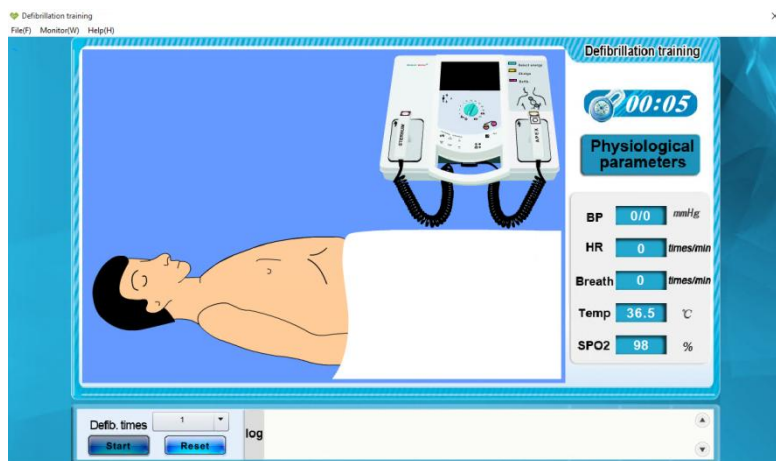
- 1) Click “” to enter training interface.



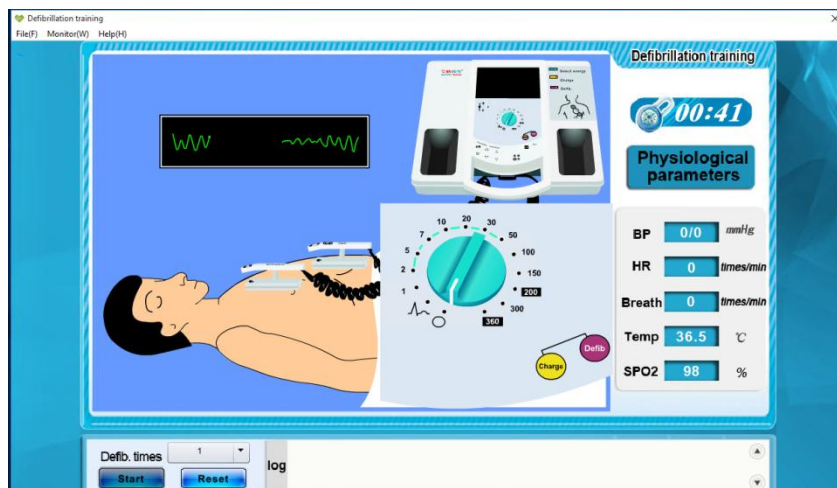
2) Set physiological parameters, select defibrillation times, click



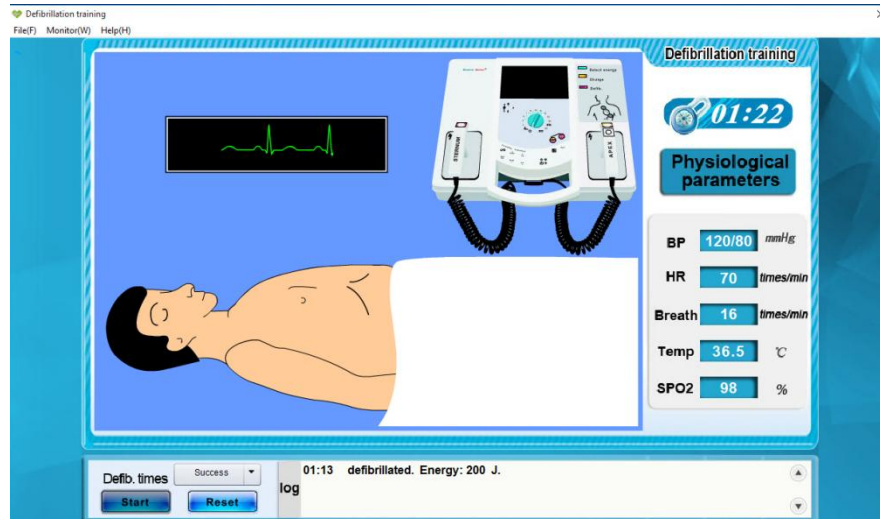
to operate.



3) Tap the power switch to turn on the defibrillator, and select the defibrillation energy.



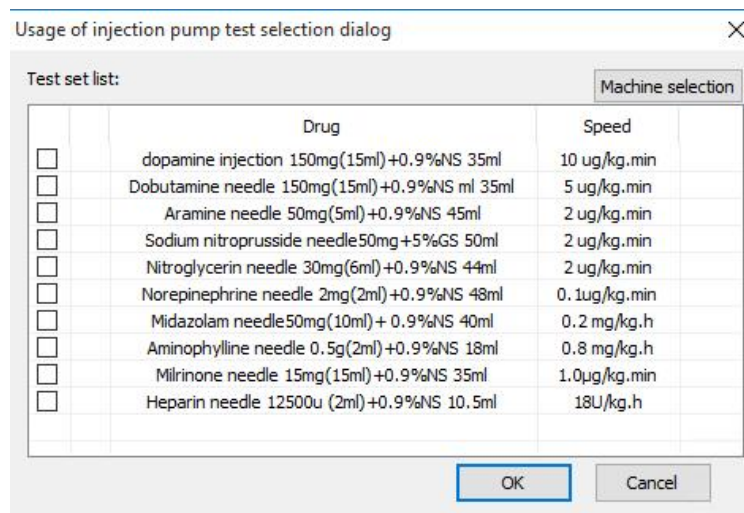
- 4) Click “” to charge. After fully charged, click “” to discharge, then one time defibrillation is complete.



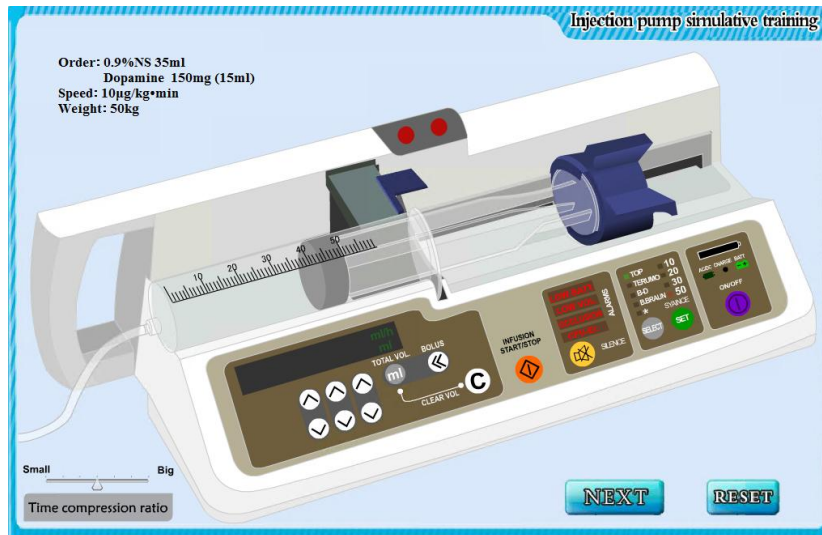
- 5) The logs record the specific operation process, click  to restore to the original state.

- (6) Use training of syringe pump (Note: Infusion pump 9 needle line has obvious labeling tips while the syringe pump has no tips)

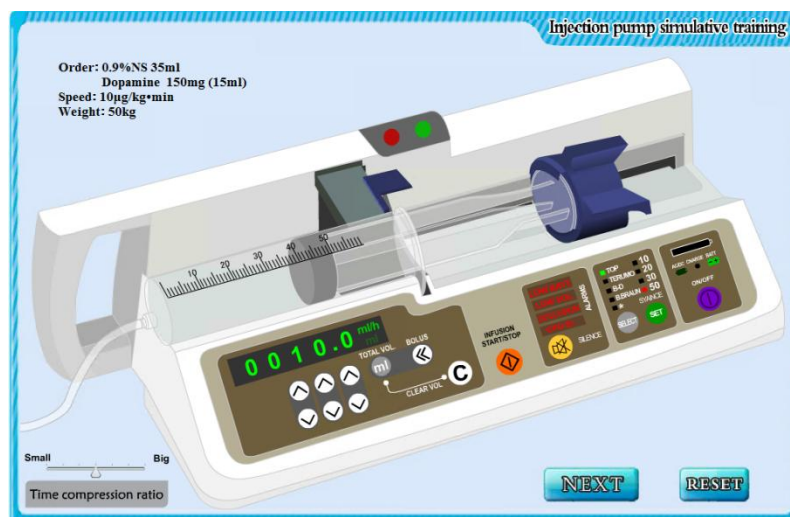
- 1) Click “” to select the drug to inject.



- 2) Enter the training interface and calculate the dosing speed.



- 3) Turn on the power of syringe pump, set the dosing speed and start the injection.



- 4) The injection is complete and shown as below.



(7) Use training of infusion pump

- 1) Click “” to select the drug to inject.

Usage of infusion pump selection dialog box

Test set list: Machine selection

	Drug	Speed	
☐	dopamine needle 200mg(20ml)+ 5%GS 200ml	20ug/kg.min	
☐	Sodium nitroprusside needle100mg+5%GS...	3ug/kg.min	
☐	Cordarone needle 300mg + 0.9%NS 250ml	75ug/kg.min	
☐	Amrinone needle 100mg + 0.9%NS 100ml	10ug/kg.min	
☐	Regular insulin needle 16u + 0.9%NS 100ml	4u/h	
☐	Nimodipine Injection 10mg(50ml)	1mg/h	
☐	hypophysin60U+ 0.9%NS 100ml	0.4 U/min	
☐	Naloxone needle 0.4mg +0.9%NS 100ml	0.1ug/kg.min	

OK Cancel

- 2) Enter the training interface and calculate the dosing speed.



- 3) Turn on the power of infusion pump, set the dosing speed and start the drip.



4) The infusion is complete and shown as below.

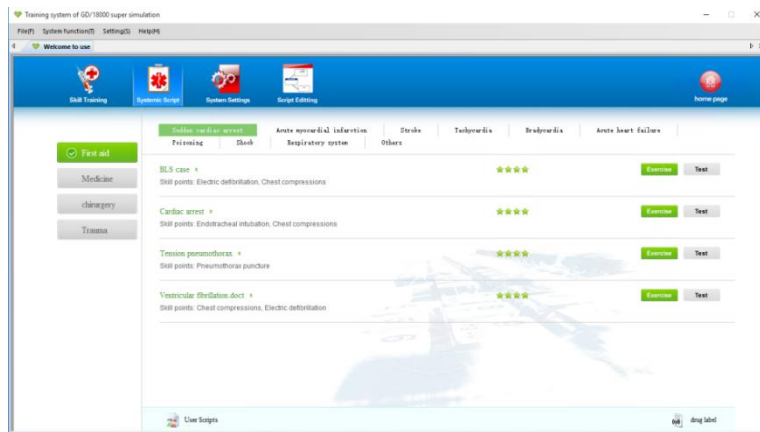


3. Script operations

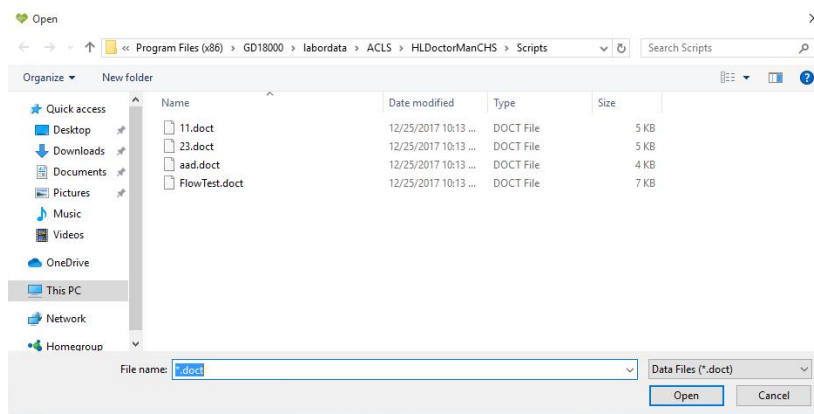
(1) Script training.



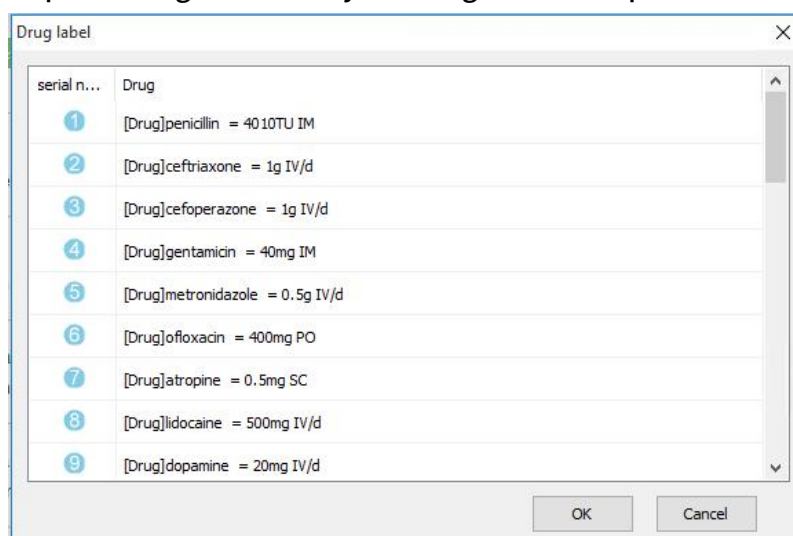
1) Click “Systemic Script” to enter the case scenario.



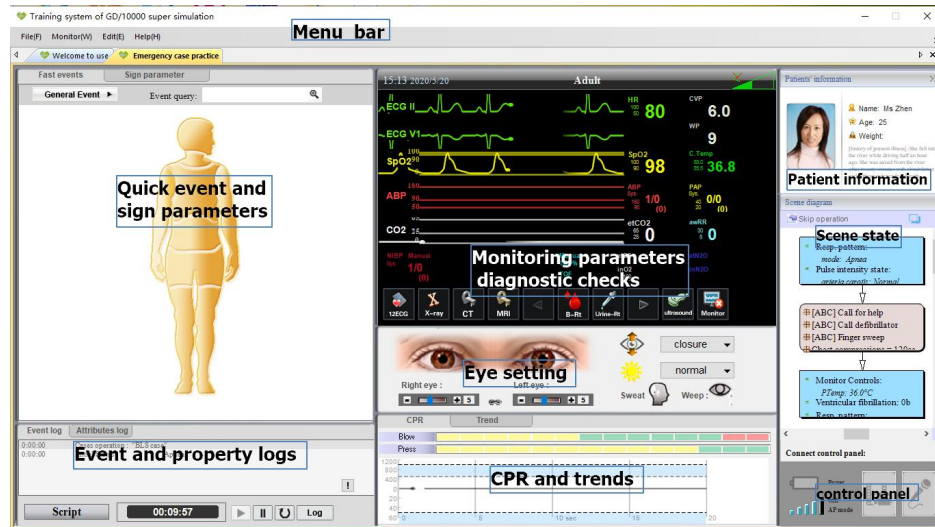
User script: Click to display “Script exercise...”, select script training or test to directly select the script to train or to test.



Drug label: Click “” to display the dialog box below, select the required drug and identify the drug at the arm position.



2) Interface introduction of case scenarios training, shown as below:



- ❖ **Menu:** Including Files, Monitor, Edit and Help
Click “Files → Exit” to close the software.
Click “Monitor” to connect the monitor.
- ❖ **Quick event & Sign parameters**
Quick event: The human body is divided into 7 parts: head, neck, chest, abdomen, pelvis, upper limbs, and lower limbs.

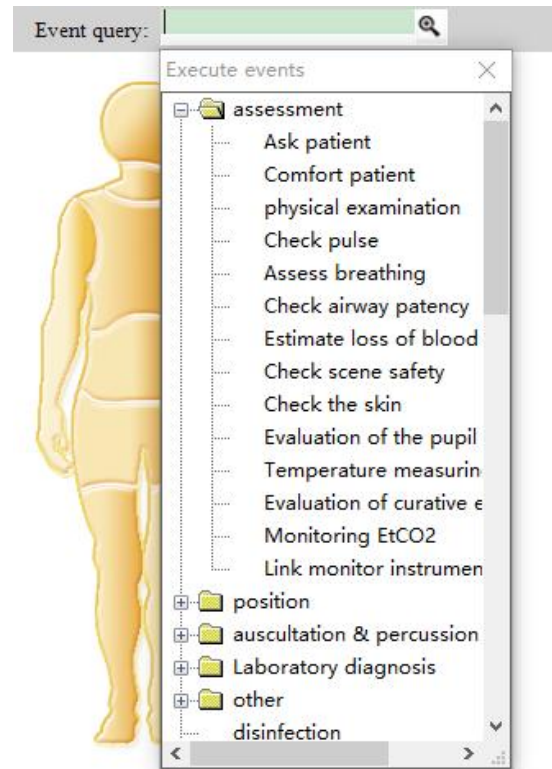


There are 3 methods to select the event:

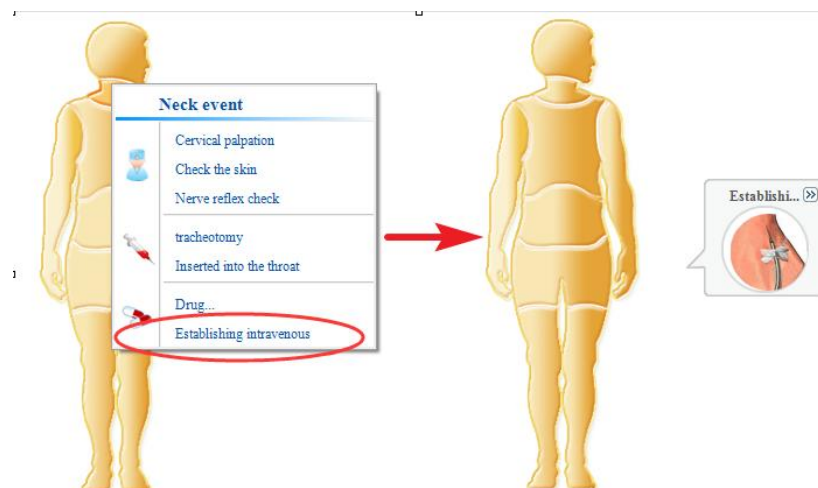
A. Selection of common events

General Event ▶	
Common events	
	Call for help
	Tap the touch
	Ask patient
	Evaluation of curative effect
	Estimate loss of blood
	check scene safety
	Put the position
	Check the skin
	Physical examination...
	Laboratory tests...
	Auxiliary examination ▶
	to ICU
	to CT scan
	To OR
	TO ER
	Into the ward
	Bind up
	Discharge

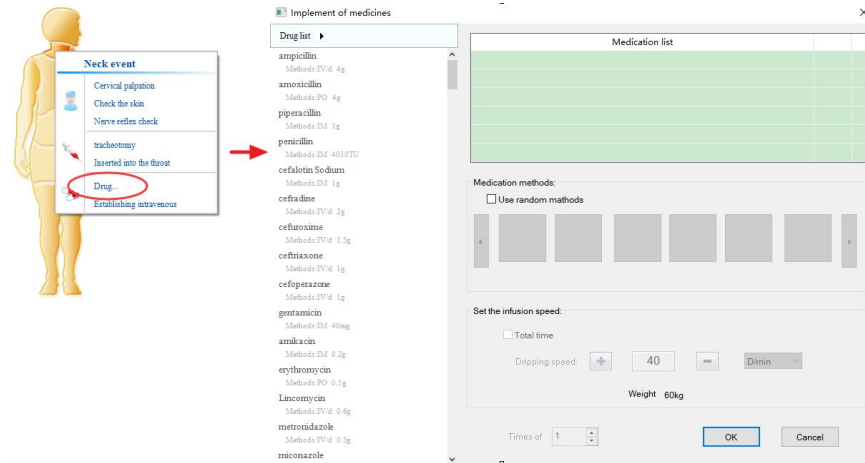
B. Search events



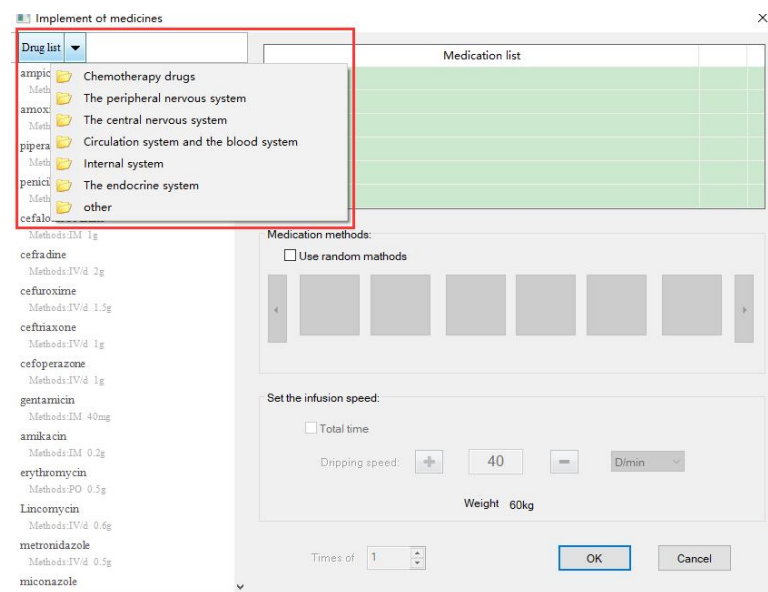
C. Body of simulator: Put mouse on a part of the human body, the color of this part will deepen, then click to display dialog box of event, select different events which will display on the event log.



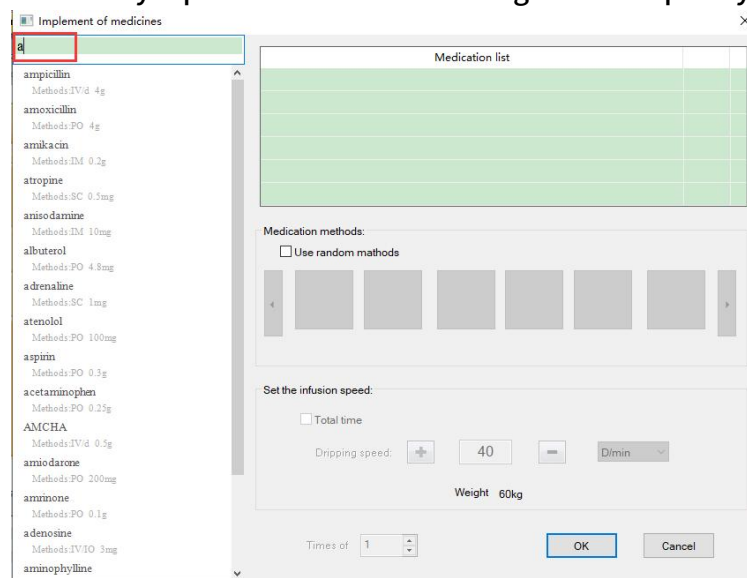
Select the dosing event.



Click the medication list to select the drug to use.



Or directly input the initials of the drug to find it quickly.



After selecting the drug, set the method of drug delivery or apply

the default method of drug delivery. If set as IV, you can set the dose of drug delivery.

Implement of medicines

Drug list ▶

- ampicillin
Methods: IV/d 4g
- amoxicillin
Methods: PO 4g
- amikacin
Methods: IM 0.2g
- atropine
Methods: SC 0.5mg
- anisodamine
Methods: IM 10mg
- albuterol
Methods: PO 4.8mg
- adrenaline
Methods: SC 1mg
- atenolol
Methods: PO 100mg
- aspirin
Methods: PO 0.3g
- acetaminophen
Methods: PO 0.25g
- AMCHA
Methods: IV/d 0.5g
- amiodarone
Methods: PO 200mg
- aminone
Methods: PO 0.1g
- adenosine
Methods: IV/IO 3mg
- aminophylline

Medication list

ampicillin = 4 g	Delete

Medication methods:

☐ Use random methods

PO IM IV/IO IV/d

Set the infusion speed:

☐ Total time

dripping speed: + 40 - D/min

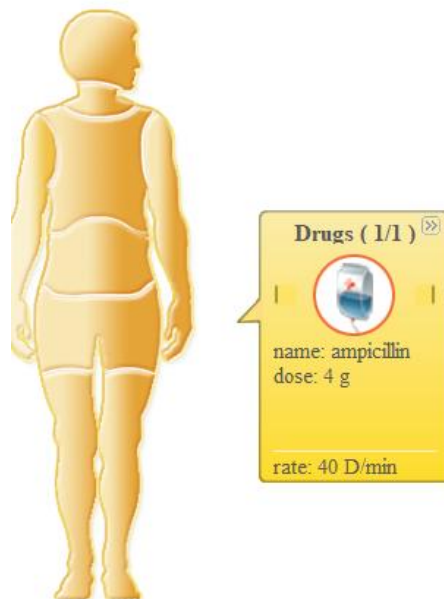
Weight 60kg

Times of 1

OK Cancel

Use of syringe pump and infusion pump

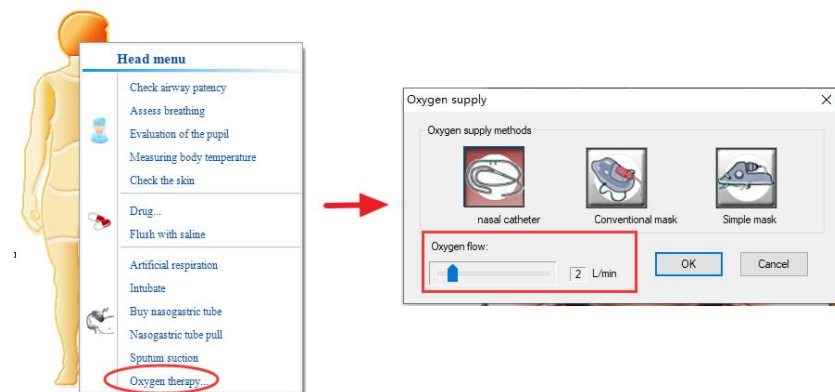
Connect the peripheral device adapter, select the drug to be injected by syringe pump or infusion pump.



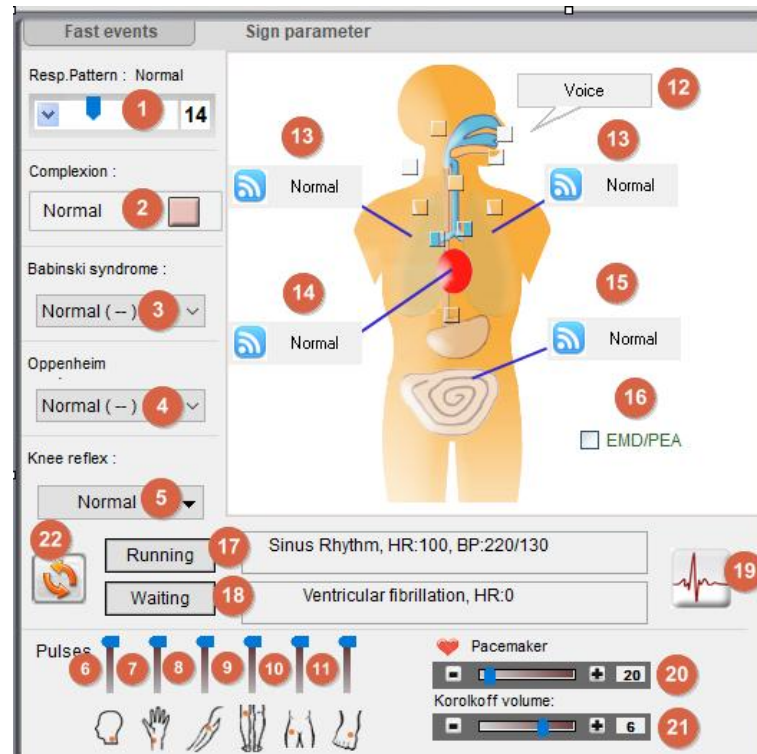
Adjust the dose and delivery speed on a real infusion pump or syringe pump.



Oxygen inhalation event, can set the method of oxygen delivery and oxygen flow rate.



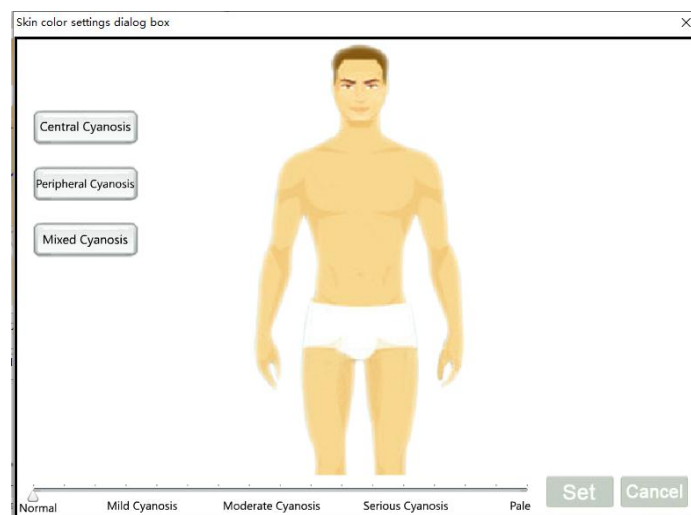
Sign parameters



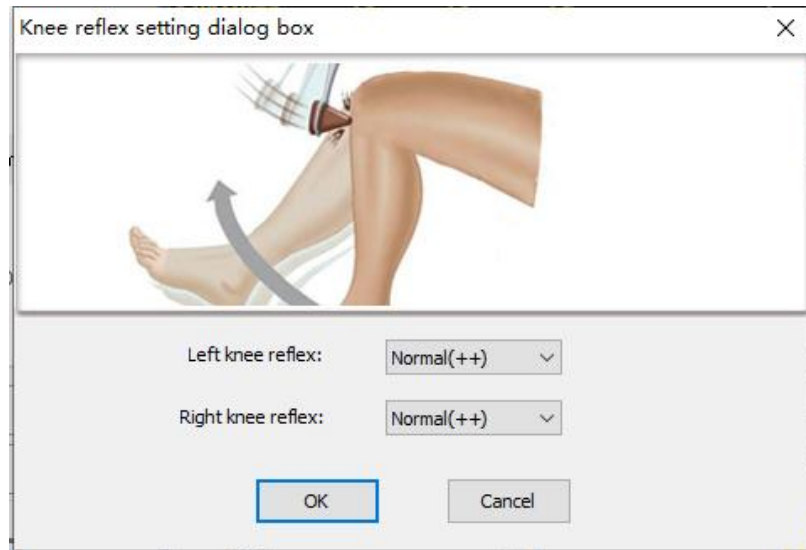
1	Breathing mode and frequency	There are multiple breathing modes to set, and the number of breathing times can be changed by directly dragging the slider.
2	Skin color	Includes normal skin color and cyanosis (central and peripheral)
3	Babinski sign	Normal (-) Left side abnormal (+) Right side abnormality (+) Bilateral abnormalities (+)
4	Oppenheim sign	Normal (-) Left side abnormal (+) Right side abnormality (+) Bilateral abnormalities (+)
5	Knee reflex	Normal Exception settings
6	Carotid artery pulsation	Divided into strong, medium and weak, drag the slider to change the pulse strength
7	Radial artery pulsation	Same as above
8	Brachial artery pulsation	Same as above
9	Popliteal artery pulsation	Same as above
10	Femoral artery pulsation	Same as above

	pulsation	
11	Dorsalis pedis artery	Same as above
12	Voice settings	Can set to simulate a variety of sounds
13	Breath sound settings	Auscultation of different breath sounds can be set for different areas
14	Heartbeat settings	Auscultation of different heart sounds can be set for different areas
15	Bowel tone settings	Auscultation of different bowel tone can be set for different areas
16	Electro-mechanical separation	Heartbeat does not produce physiological signs after selection
17	Run	Run the currently set heart rhythm
18	Wait	Set the heart rhythm to run next
19	Ventricular fibrillation	Click to skip directly to ventricular fibrillation rhythm
20	Pacing current	Drag the slider to change the pacing current directly
21	Blood pressure volume	Drag the slider to change the blood pressure volume directly
22	Exchange	Change the current running heart with the waiting heart rate

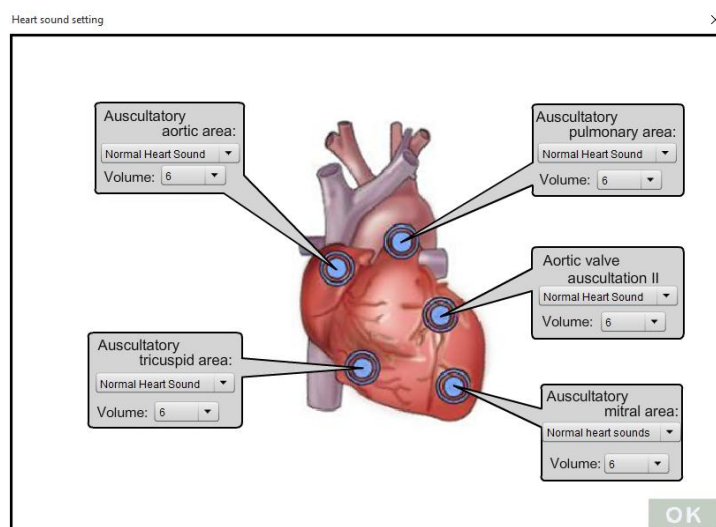
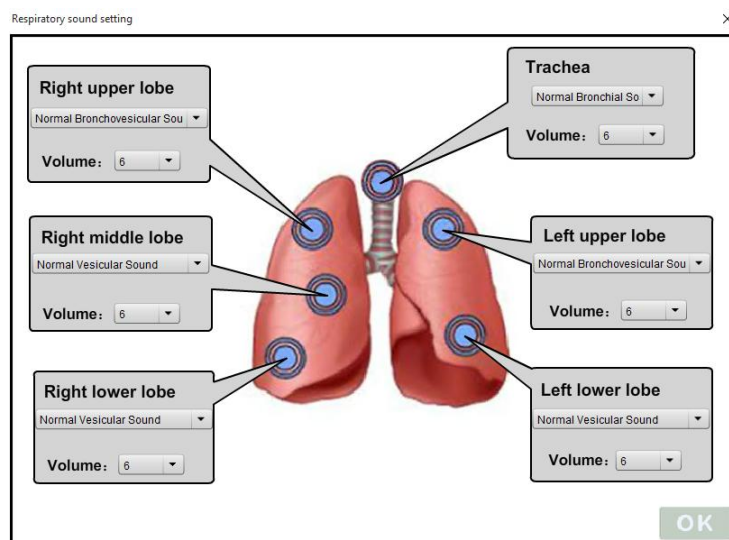
Skin color settings: The degree of cyanosis can be adjusted, or the simulator becomes pale state..

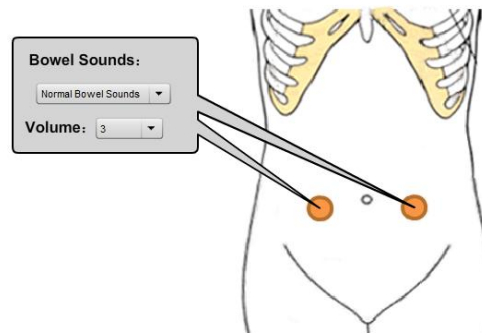


Set abnormal knee reflex: The left and right leg can be set separately and there are several states: no response, diminished, normal, hyperactive, and clonic.



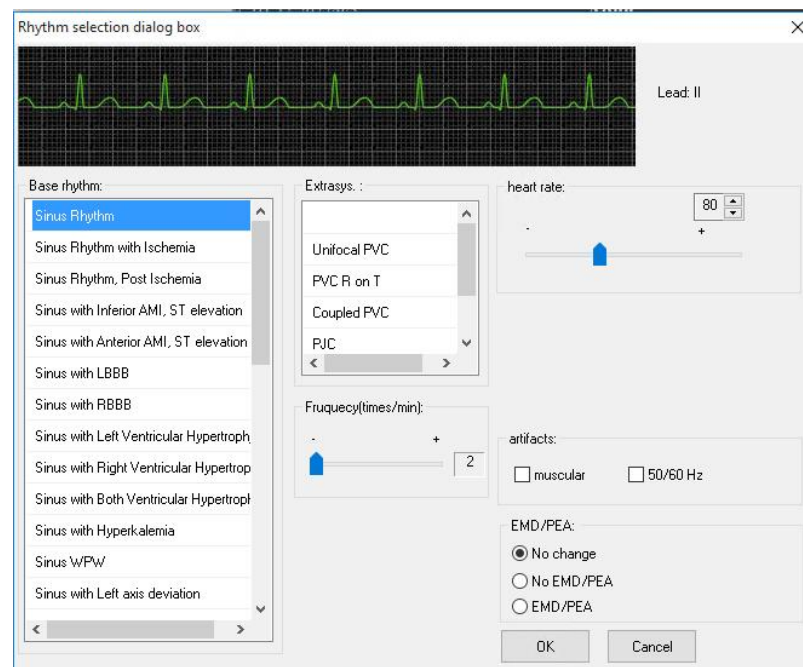
Set breath sound, heart sound and bowel tone





OK

Set heart rhythm: Click “Run” and “Wait” to set heart rhythm.



Other settings

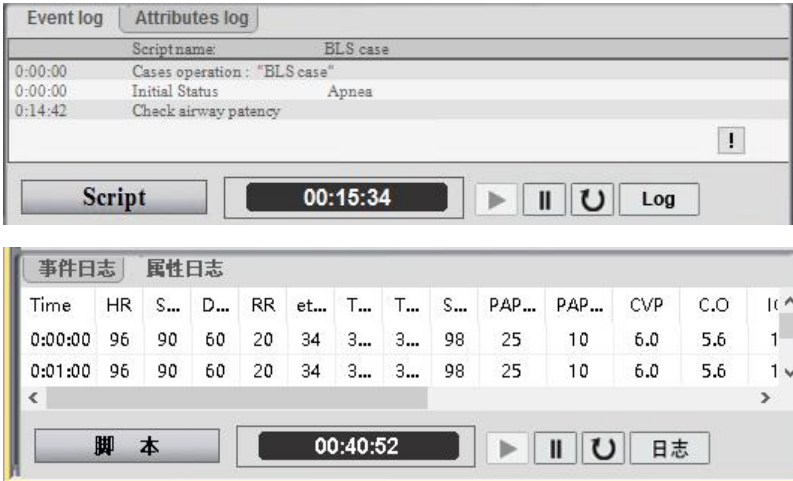
1	Normal or spastic occlusal muscles	
2	Enlarged or normal pharynx	
3	Normal or obstructed larynx	
4	Normal or stiff neck	
5	Normal or enlarged tongue	
6	Lung compliance settings	
7	Normal left chest or left pneumothorax	

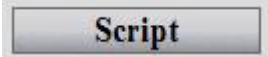
8	Left airway resistance control	
9	Right airway resistance control	
10	Normal gastrointestinal or gastrointestinal decompression	

✧ Event & Property logs

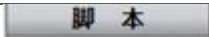


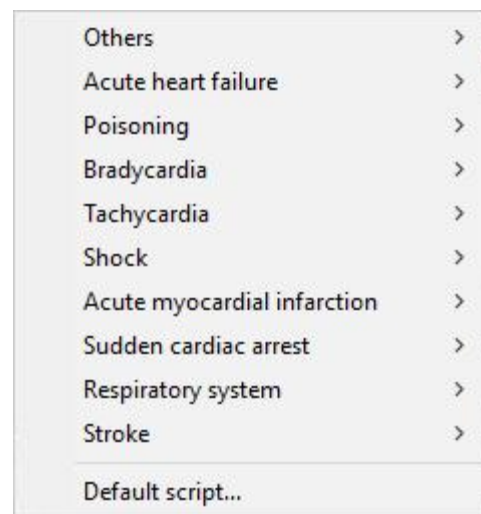
Event logs show the event measures taken, while , property logs show the changes in physical signs of the simulator at different times.

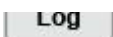


	Click to display the list of scripts, can select different scripts
	Time of current running script
	Run the script

	Stop running
	Reset the script
	Click to display operation logs
	Window of adding event logs

 is shown as below: including all cases and custom cases in the department.



 is shown as below: the simulator's event logs, sign logs, differential diagnosis and videos can be displayed.

Check the operation log report


GD/18000 Super Simulation Log

Diagnosis

Events

logs of simulating human events

September 15, 2022

She fell into the river while driving half an hour ago. She was saved from the river after twenty minutes with obnubilation and without independent breath.

0:00:00	Cases operation : "BLS case"
0:00:00	Initial Status Apnea



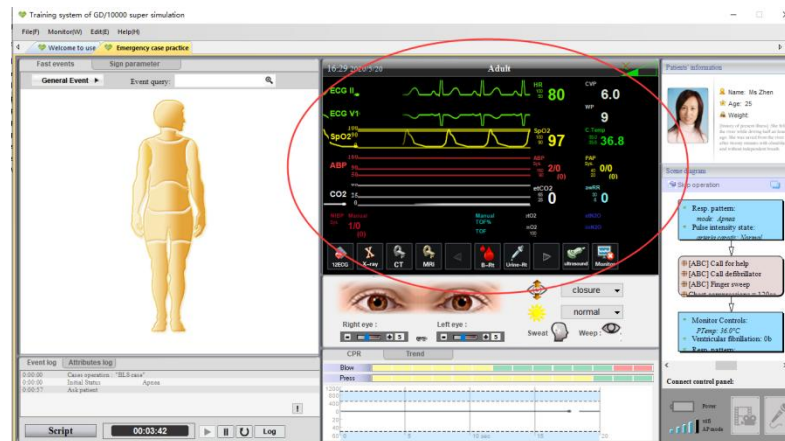
No Video

logs of virtual monitored signs

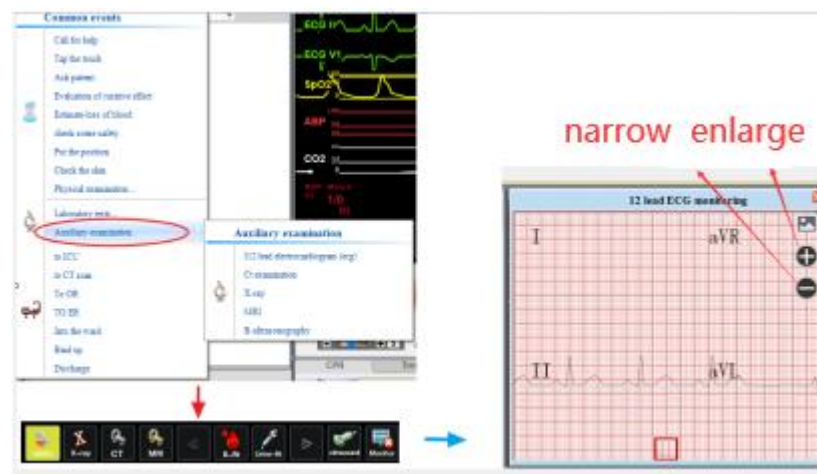
Time	HR	SBP	DBP	RR	etCO2	Tblood	Tpent	SpO2	CvP	C.O	ICP	WP	etO2	inO2	inN2O	etN2O	etAGT	inAGT	TOF
0:00:00	80	119	89	0	34	36.8	35.2	98	6.0	5.6	10	9							

Monitoring parameters and diagnostic check

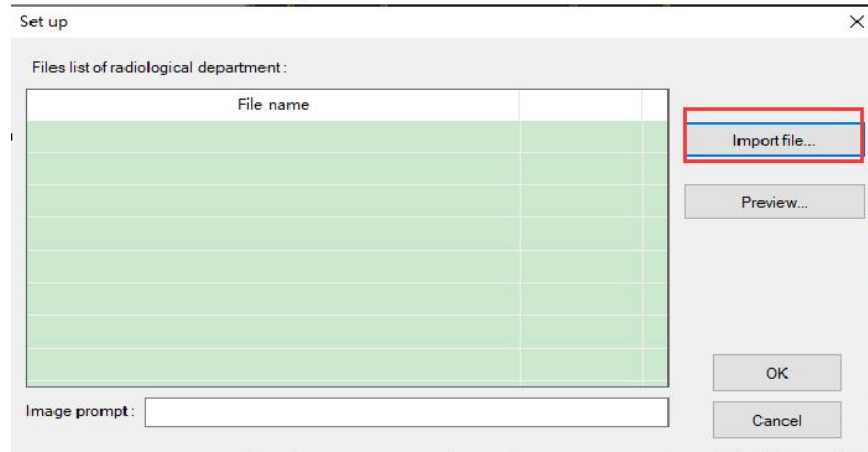
Real-time monitoring of all vital signs, including ECG, heart rate, oxygen saturation, arterial blood pressure, respiration, end-breath carbon dioxide, body temperature, and non-invasive blood pressure.



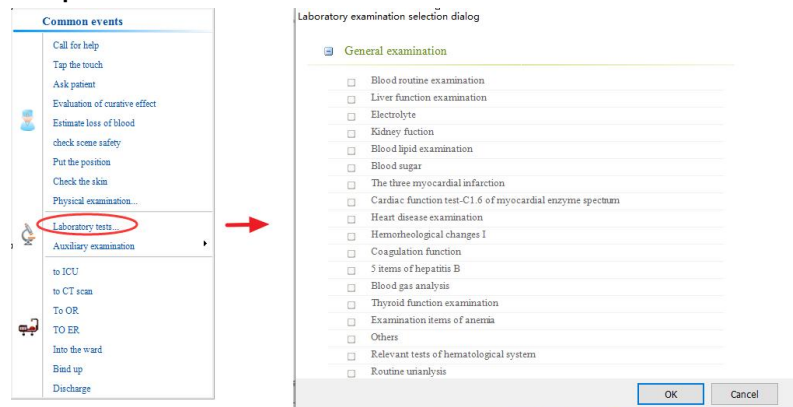
Select "Auxiliary examinations" → "12-lead ECG" in the left side common events, the ECG icon will flash, click the flashing icon, the ECG will be displayed, and you can click "+" or "-" to enlarge or reduce the picture.

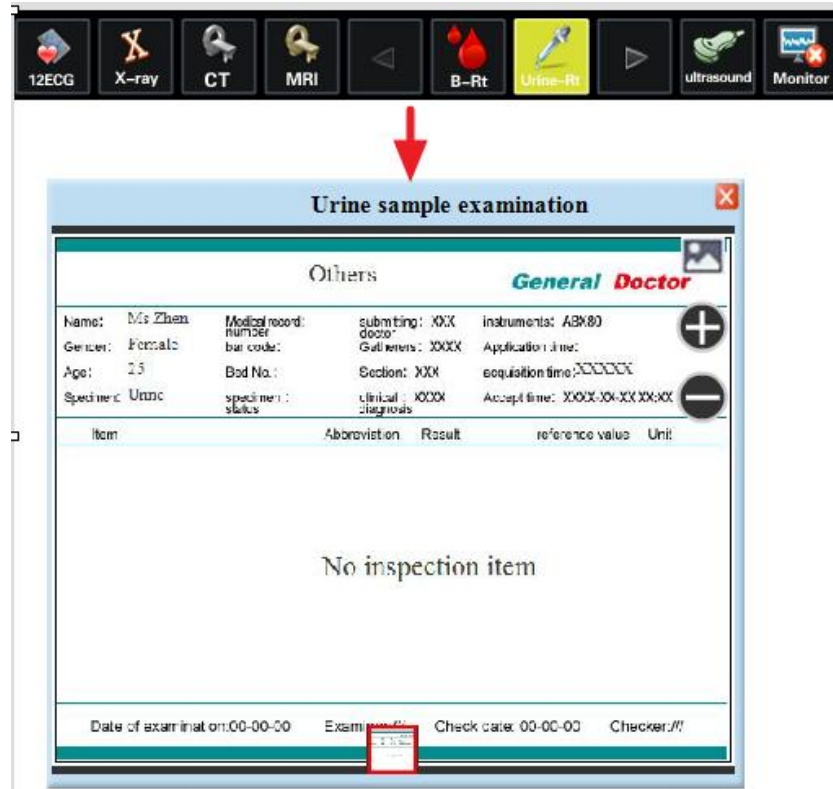


CT examination, X-ray examination, MRI examination, ultrasound examination with the same 12-lead ECG, and can import your own file images.



Select "Lab tests" → "Urinalysis" in the left side common events, the icon of urine test will flash, click the flashing icon, the checklist will be displayed, and you can click "+" or "-" to enlarge or reduce the picture.



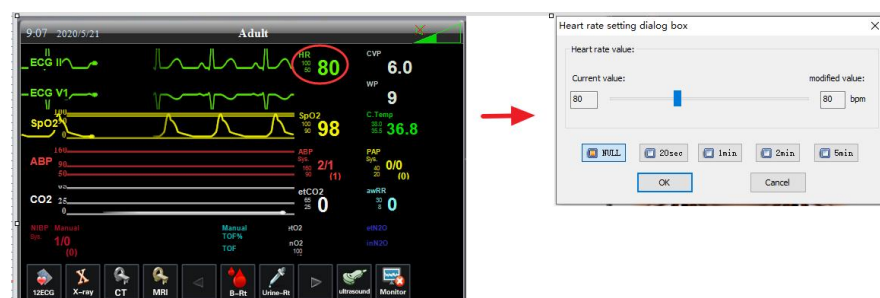


Settings of the blood test and stool test are the same as that of the urine test.

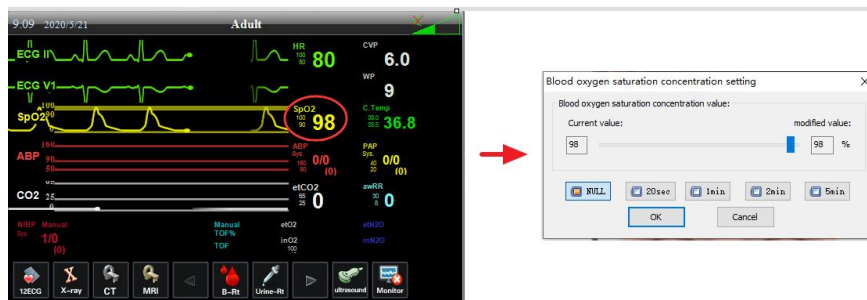
Monitor connection: Click this icon to connect the monitor.



Heart rate settings: Click the heart rate parameter directly to set the heart rate.



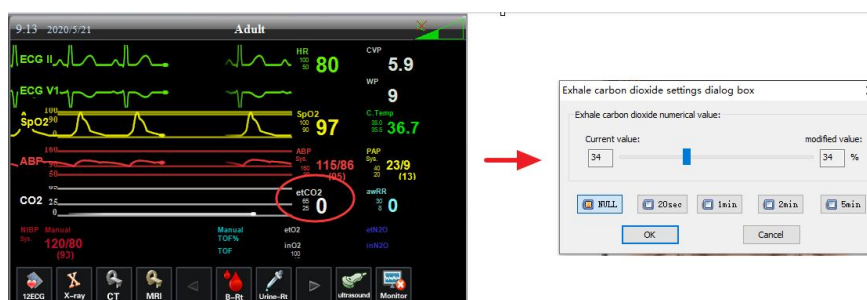
Oxygen saturation settings: Click directly on the oxygen saturation parameter to set.



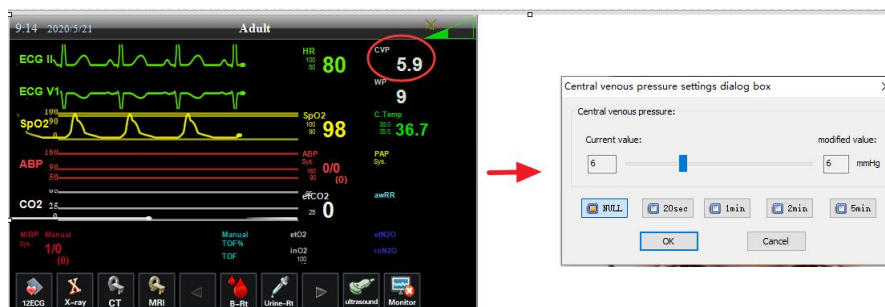
Blood pressure modification settings: Click directly on the blood pressure parameter to set.



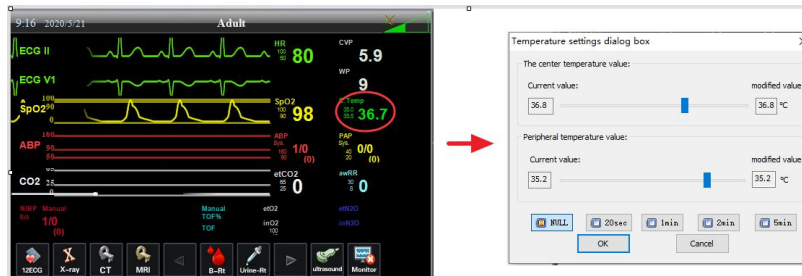
End-breath carbon dioxide modification settings: Click directly on the etCO2 parameter to set.



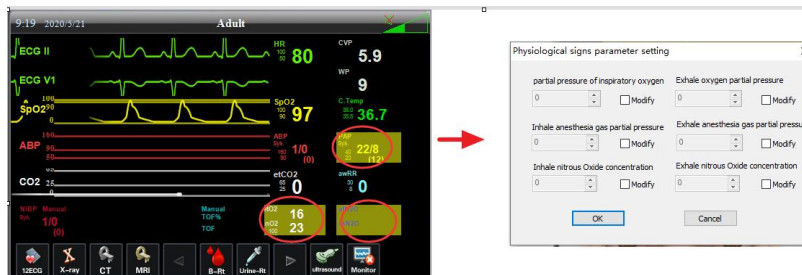
Central venous pressure modification settings: Click directly on the CVP parameter to set.



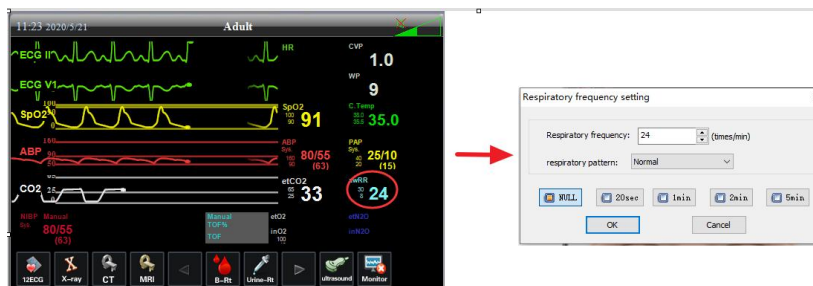
Body temperature modification settings: Click directly on the body temperature parameters to set.



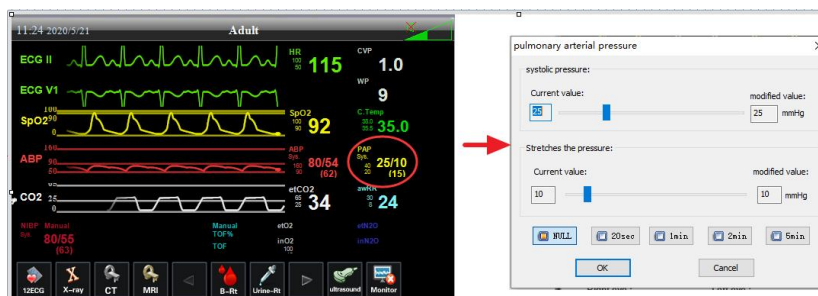
Physiological sign signal parameter modification settings:



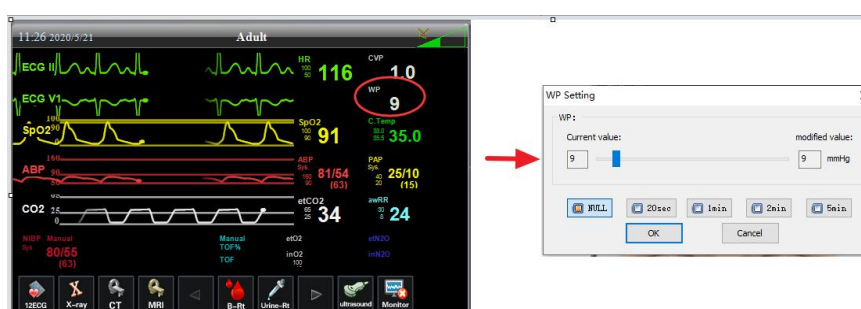
Breathing modification setting: Click directly on the breathing parameters to set.



Non-invasive blood pressure modification settings: Click directly on the non-invasive blood pressure parameters to set.



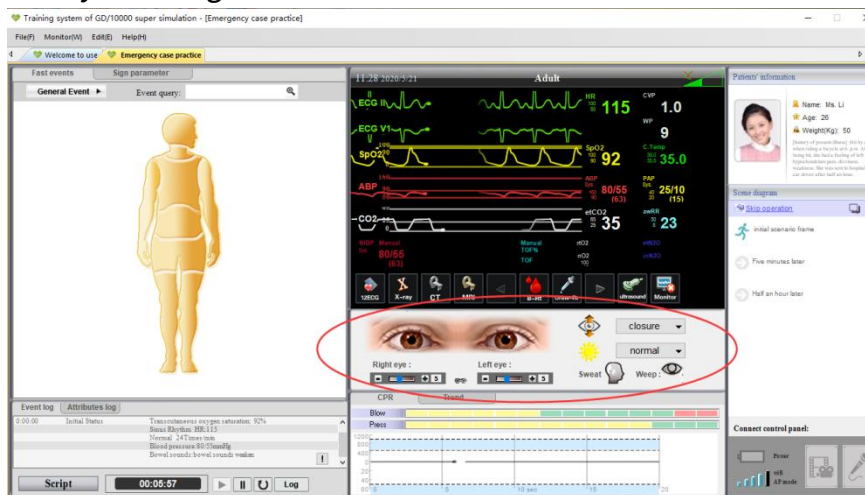
WP modification settings: Click WP parameters directly to set.



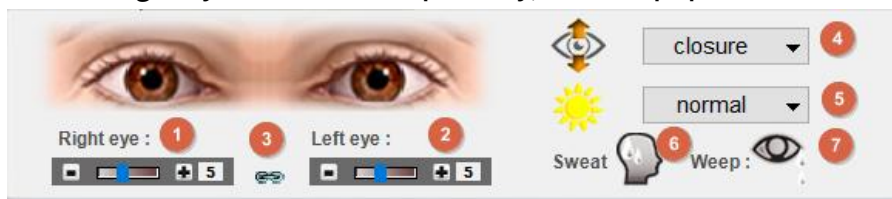
TOF modification settings: Click directly on the TOF parameters to set.



✧ Eyes settings

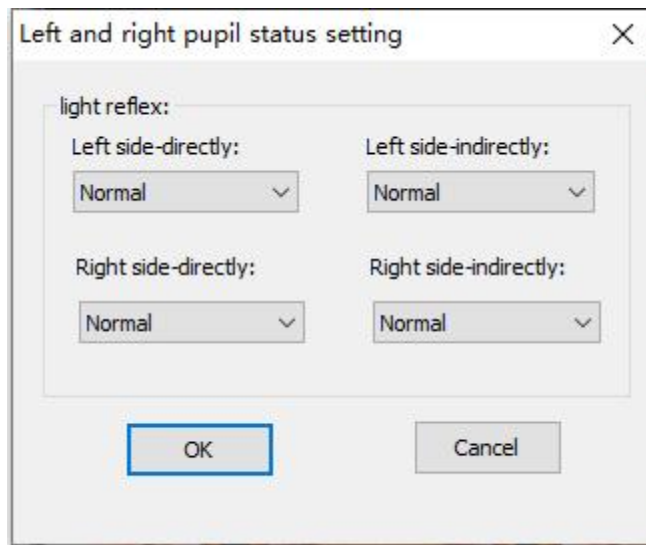


This includes settings for direct and indirect pupil-to-light reflection. The left and right eye can be set separately, and the pupil size can also be set.

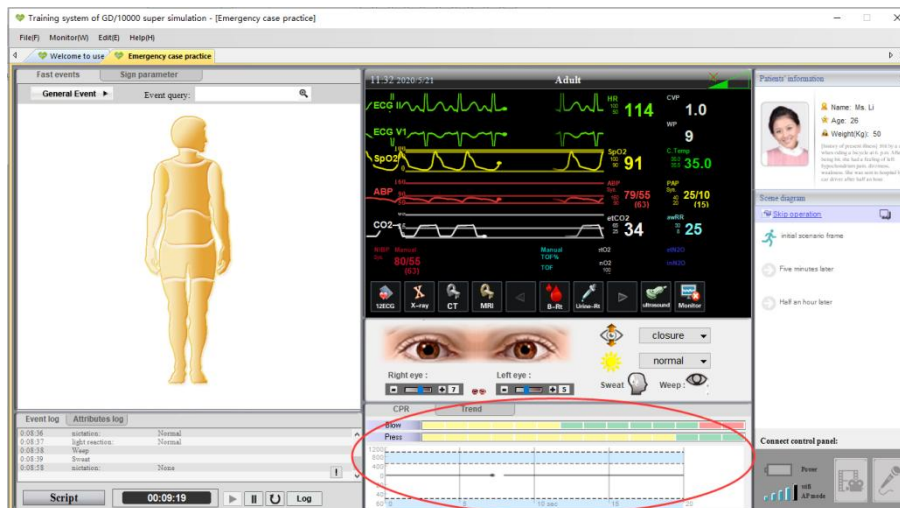


1	Right settings	eye	Drag the slider to set the size of the pupil of the left eye
2	Left settings	eye	Drag the slider to set the size of the pupil of the left eye
3	Affiliate settings		When connected, set the left eye, same changes will occur on the right eye When disconnected, set the left eye, the right eye will not change
4	Blink		Blink Off
5	Pupil settings		Normal Exception settings
6	Sweating		The simulator will have sweat coming out of the forehead after clicking
7	Weeping		Tears flow from the corners of the simulator's eyes after clicking

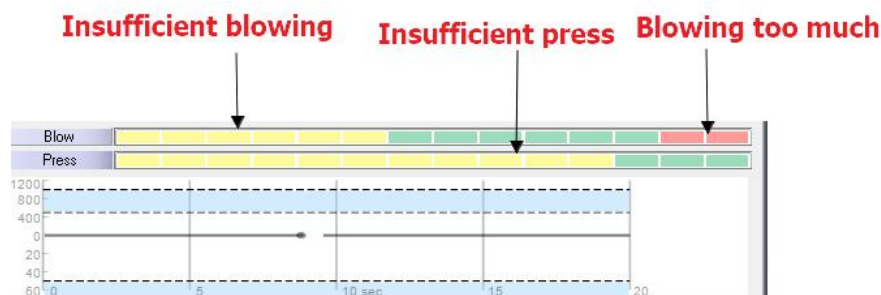
Pupil exception settings: Include the settings of direct and indirect light reflection in the left and right eye. There are 3 kinds of states: normal, slow and none.



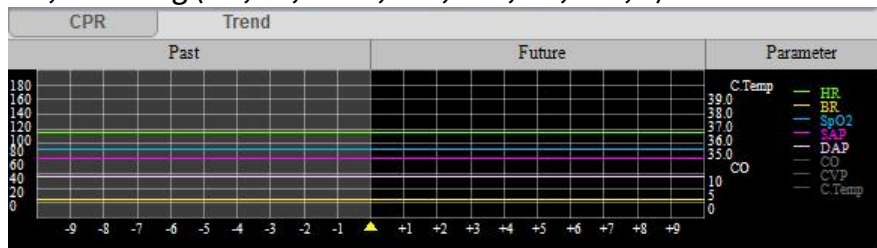
✧ CPR & Trends



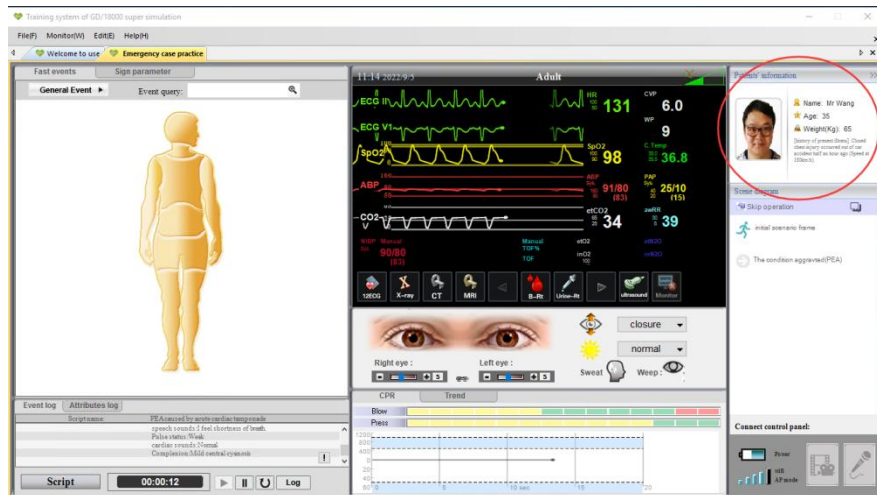
CPR: CPR can be operated on the simulator and the operation waveform will be displayed simultaneously; the blowing volume size and compression intensity can be displayed according to the barcode, and there will be a tone to remind if the blowing or the compression is too big or too small.



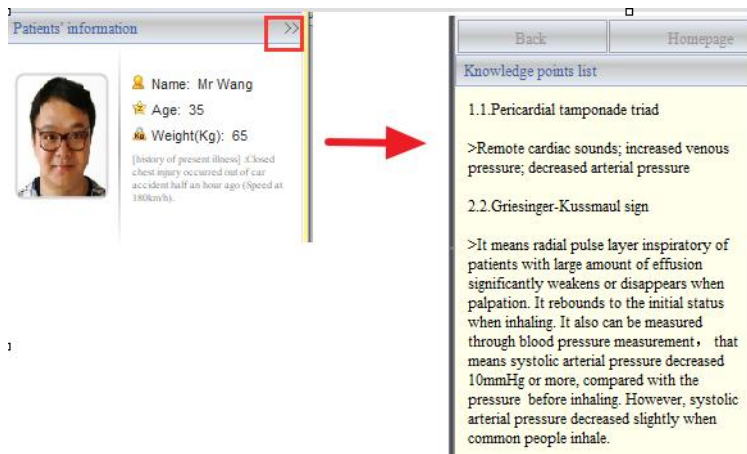
Trend settings: Trend changes of past and future physiological signs can be set, including (HR, BP, SPO2, SAP, DAP, CO, CVP, T).



✧ Patient information



The interface will display the basic information of the simulator, including name, age, weight, etc. Click on the red frame pattern to display the list of case knowledge points.



Click on the patient's image to modify the patient's information.

Patient's information

Name: Mr Wang
 Gender: Male
 Age: 35
 Weight: 65 pound

Modify the picture

Main report:
 Thoracalgia and dyspnea for half an hour.

History of present illness:
 Closed chest injury occurred out of car accident half an hour ago (Speed at 180km/h).

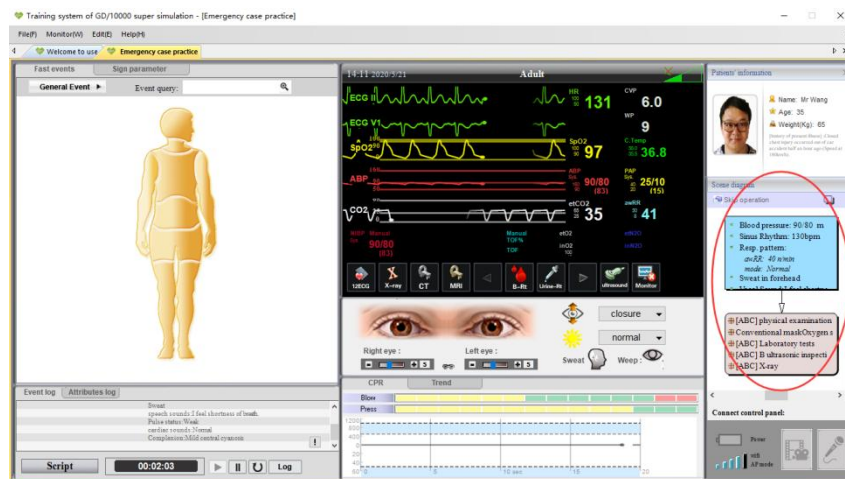
Respiratory system | circulatory system | digestive system

History of past illness:
 Health condition: poor
 Previous diseases:
 allergic history:
 Specific performances:
 Others:

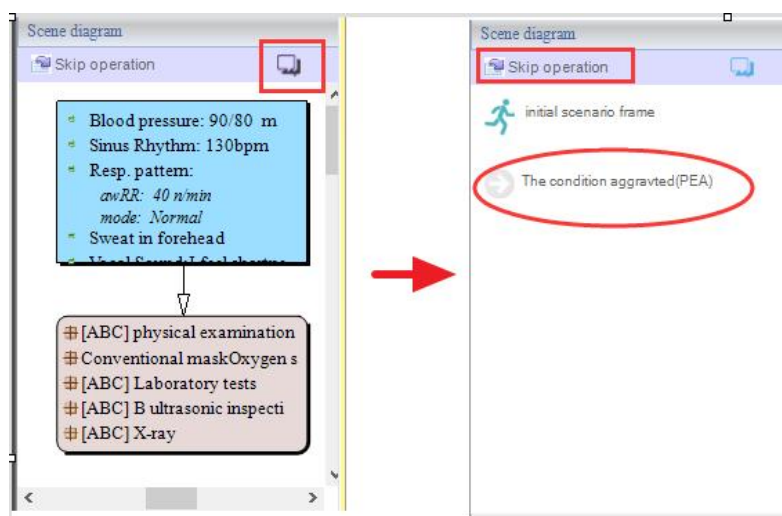
Personal:
 Personal history:
 Marital history:
 Menstrual/reproductive history:
 Family history:

OK Cancel

✧ Scenario status



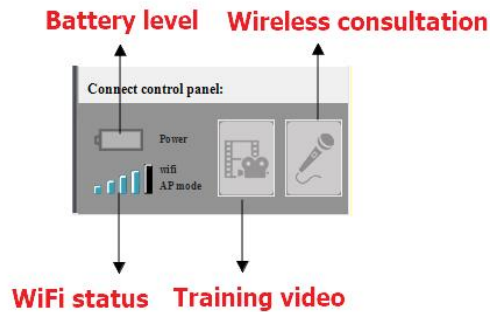
Show the scenario points of the current script, including scenarios and events. Click the red box on the left to display all scenarios, select the scenario you want to skip to, and click "Skip action" to skip to the desired scenario.



✧ Control panel

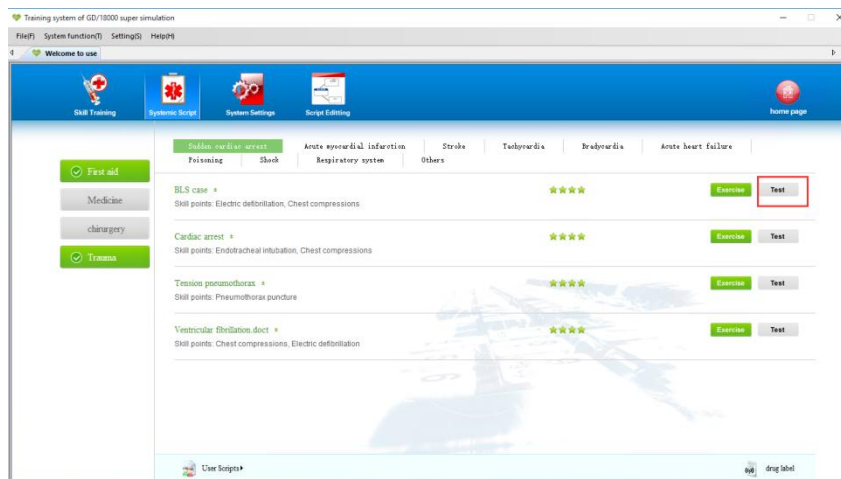


It includes the display of battery power, the connection status of wireless consultation, the recording and playback of training videos, and the wireless Wi-Fi connection status.

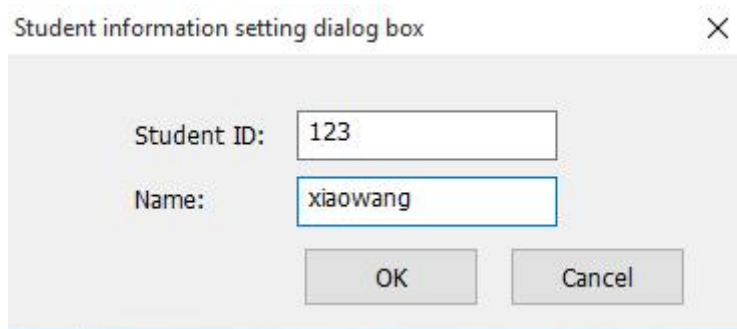


(2) Script assessment

Enter the script operation interface and select Test



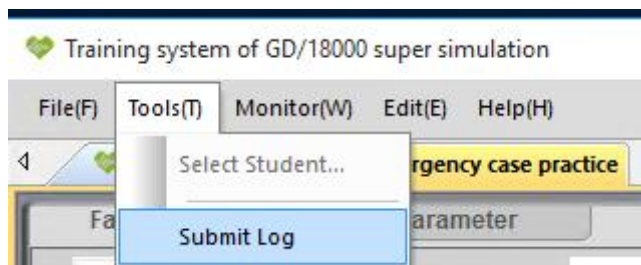
Fill in the student information



Enter the assessment interface



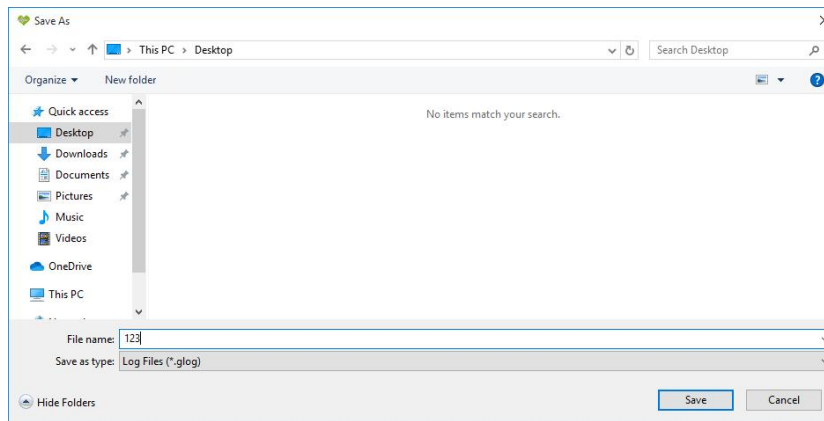
Submit the operation log after the assessment is complete



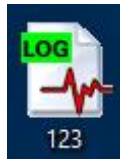
Save the operation log



Select the location to save

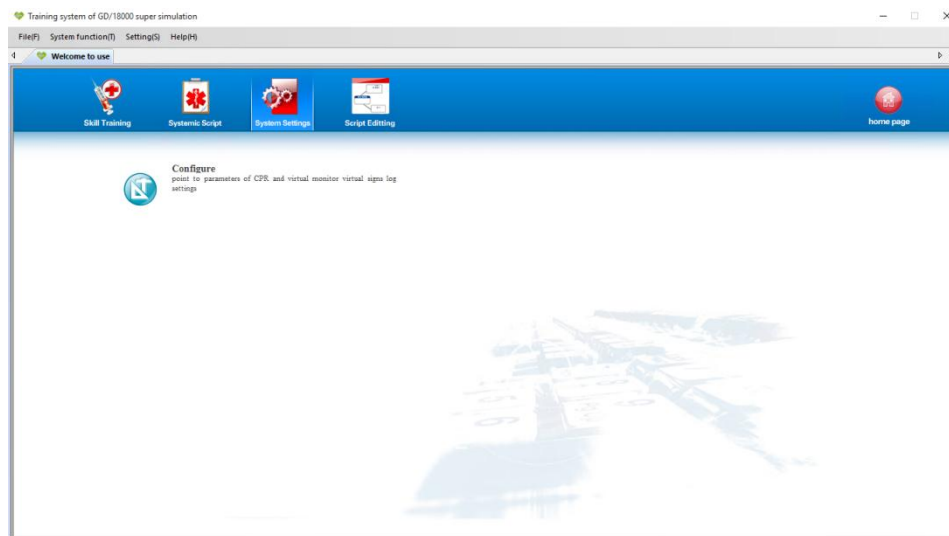


The icon of saved log is shown as below



4. System settings

(1) Click "System settings" → "System configuration settings", shown as below:



1) CPR parameter settings: can set the compression depth range, cyclic operation mode, operation beat tone prompt, and operation prompt sound.

Set the configuration dialog system

Virtual monitor parameters Virtual signs log Setting of hemorrhagic signs

cardiopulmonary resuscitation parameters The CPR operating rules set

Range of compression depth

Mini-press depth: 50 mm

Max-press depth: 60 mm

tidal volume range:

Minimum tidal volume: 500 mL

Maximum tidal volume: 1000 mL

maximize depth of compression strategies:

☒ Ignore maximize depth ☐ Limit maximize depth

Give CPR cycle operation mode:

☐ Standard operation mode ☒ Combat operation mode

Operational beats:

☐ No beats ☒ Beats exist

Operational prompting sounds:

☐ No prompting sounds ☒ prompting sounds exist

OK Cancel Apply

- 2) CPR operation rule settings: can set non-professional rescuer and professional rescuer.

Set the configuration dialog system

Virtual monitor parameters Virtual signs log Setting of hemorrhagic signs

cardiopulmonary resuscitation parameters The CPR operating rules set

☐ Non professional rescuer

Chest compressions times: 150 Times

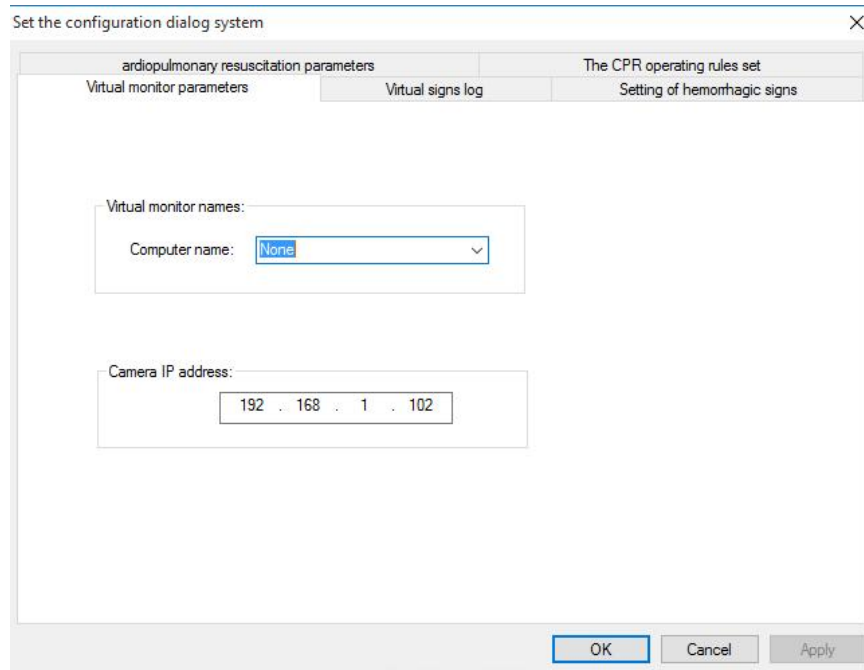
☒ Non professional rescuer

☐ Three cycles of CPR operation

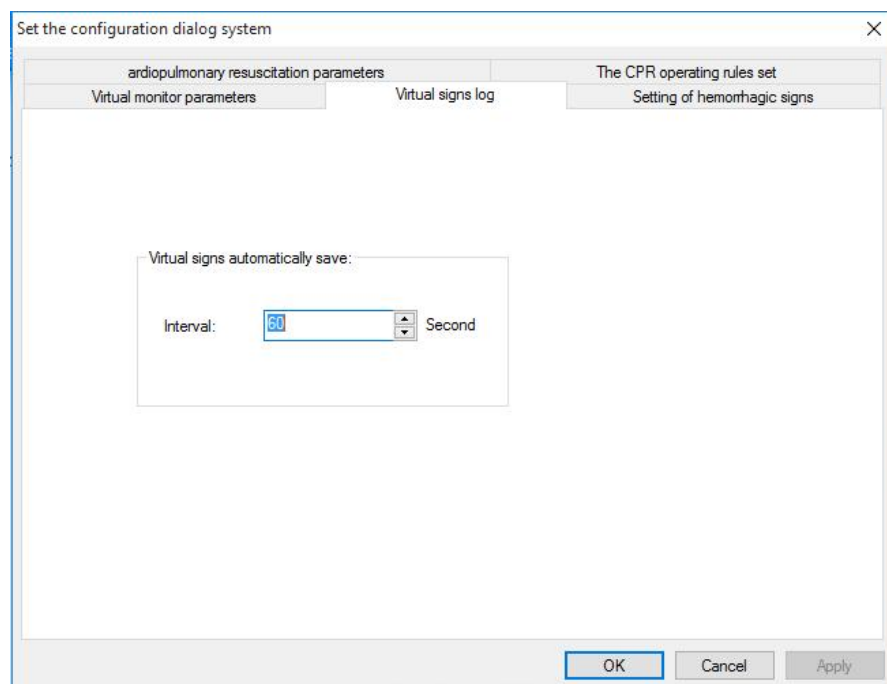
☒ Five cycles of CPR operation

OK Cancel Apply

- 3) Virtual monitor parameters: can set the computer name and camera IP address.



- 4) Virtual sign logs: can set the interval for the virtual log to be saved automatically.



- 5) Bleeding sign settings: can set the vital signs and blood amplification factor. The default state is on, while the vital signs set by the script will not be displayed. When off, the vital signs set by the script will be displayed.

Set the configuration dialog system

ardiopulmonary resuscitation parameters The CPR operating rules set

Virtual monitor parameters Virtual signs log Setting of hemorrhagic signs

Default signs:

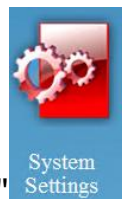
	one-level	two-level	three-level
Blood loss:	<800~1600ml	<1600~2000ml	<2000~3000ml>descend
heart rate:	> 100 times / minute	> 120 times / minute	140 times / minute
respiration:	20 ~ 30 times / minute	30 ~ 40 times / minute	35 times / minute
systolic pressure:	70 ~ 80 mmHg	50 ~ 70 mmHg	40 mmHg

Default ☒ Turn on ☐ Turn off

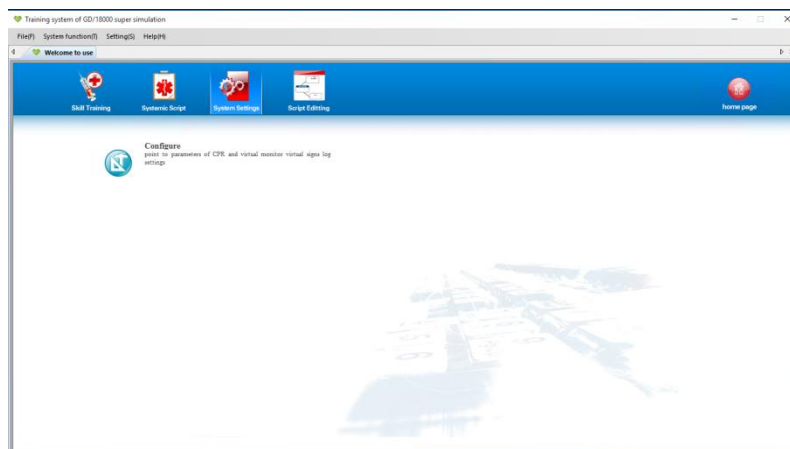
Blood volume

1 times

OK Cancel Apply



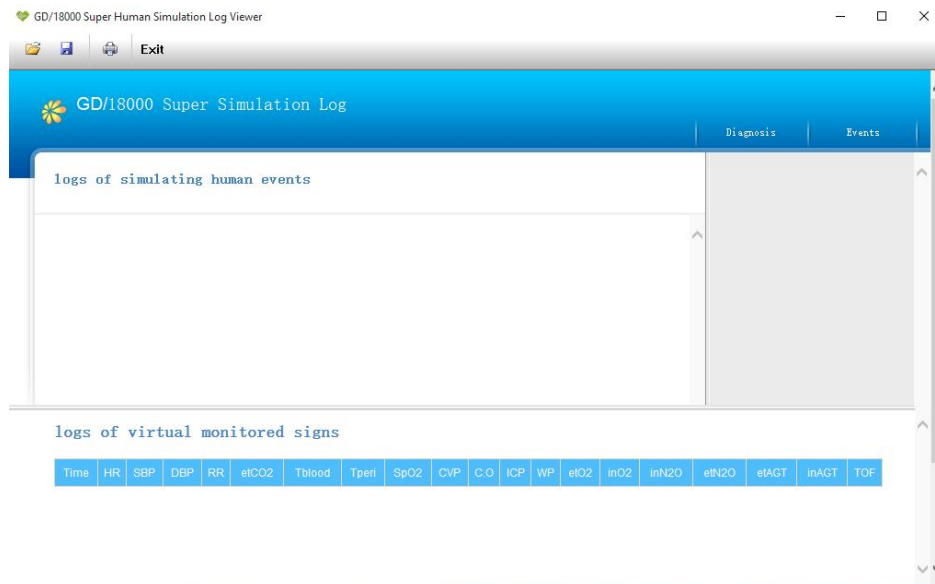
(2) Click the icon "System Settings" to enter the System settings, you can set various parameters, and the setting methods are as described above, shown in the figure:



5. View the logs

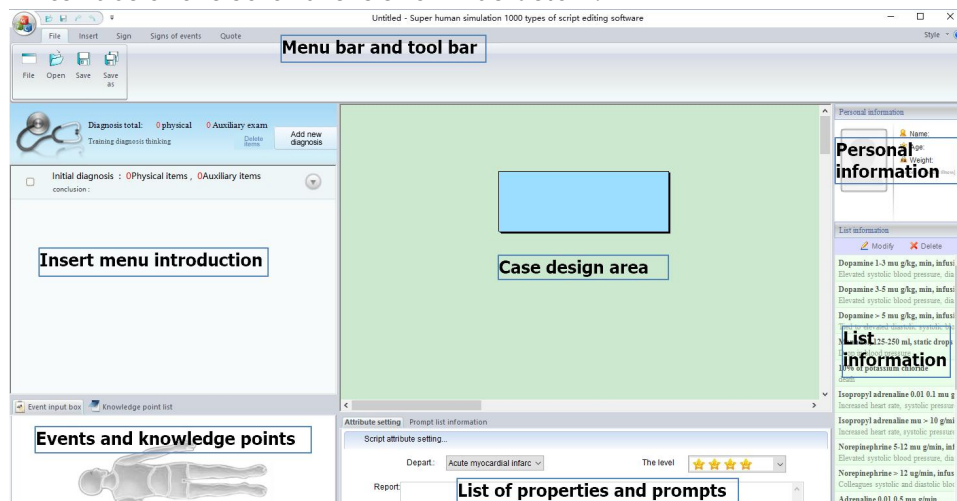


Click “ ” to directly view the saved logs.



6. Edit the script

- (1) Click “ ” to enter script editing software.。
- (2) Double click “ GDoctorScenarioEdit.exe ” to directly enter the software.
- (3) Interface of the software is shown as below:



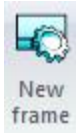
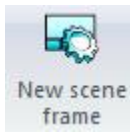
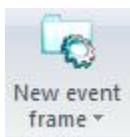
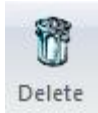
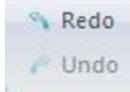
1) Menu and Toolbar:

Introduction of “Files” menu:

	Create a new script, the shortcut is Ctrl+N
--	---

	Open an existing script
	Save the currently designed script , the shortcut is Ctrl+S
	Save the current script in another name or to another location

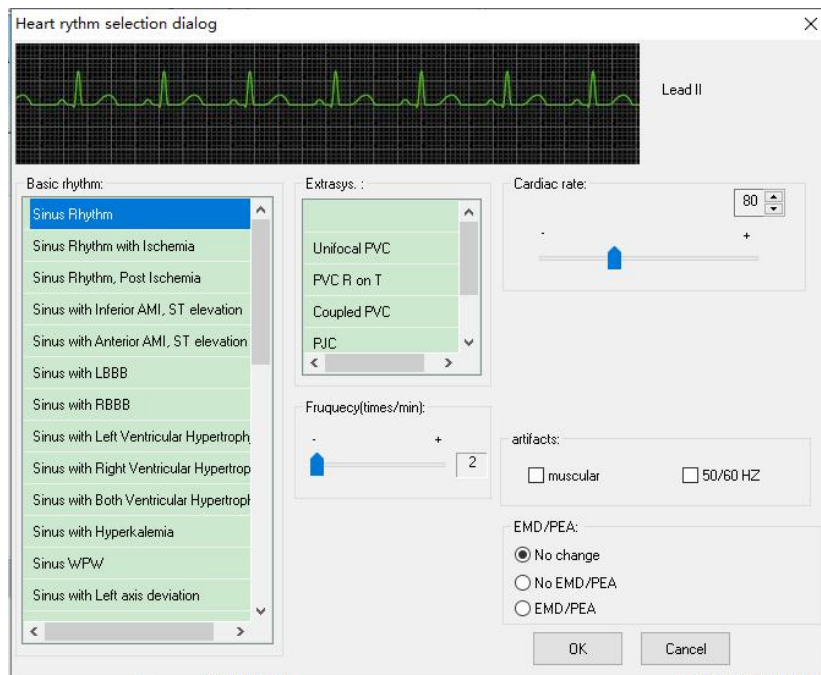
Introduction of “Insert” menu:

	Create a new scene box
	Create a new scenario box with events and signs in it
	Create new event boxes, including combination and event selection boxes  Select Event Frame  Combine Event Frame
	Connect scenario boxes and event boxes
	Delete the scenario box or the elements in it, delete the event box or the events in it, delete the connecting lines
	Undo the user's operation or restore the user's original operation

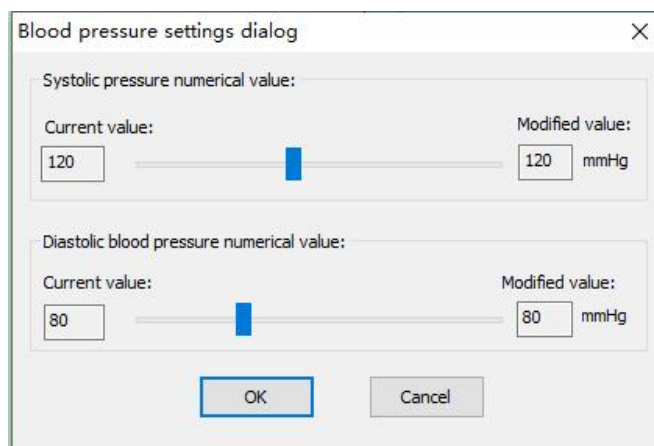
Introduction of “Signs” menu: includes physiological parameters, signs and symptoms, and other settings. Different signs can be set in the scene and scenario boxes.



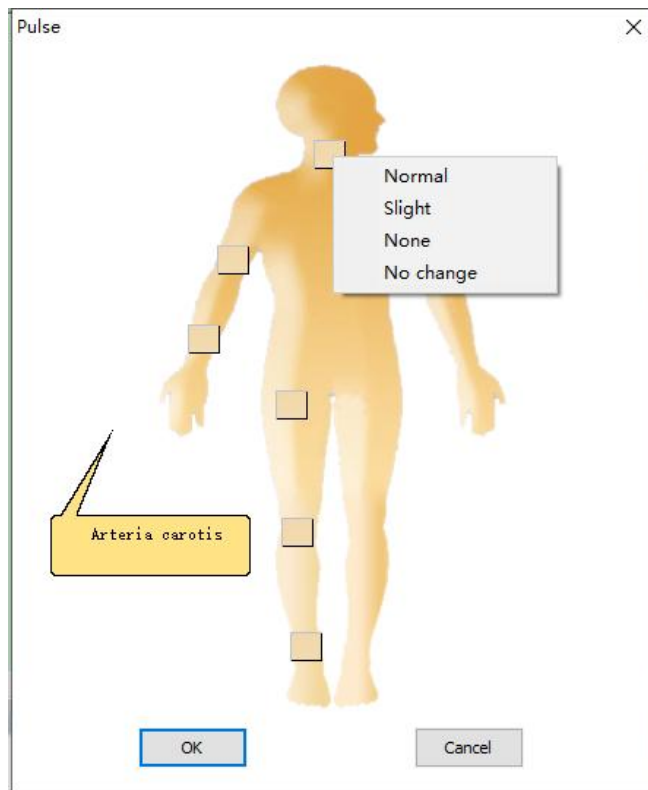
Click **Ecg** to set the heart rhythm parameters.



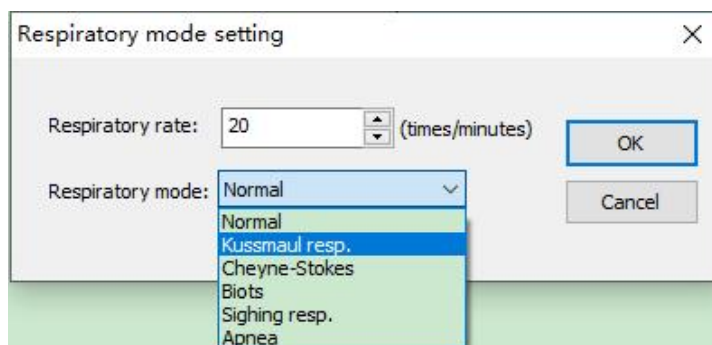
Click  to set blood pressure parameters.



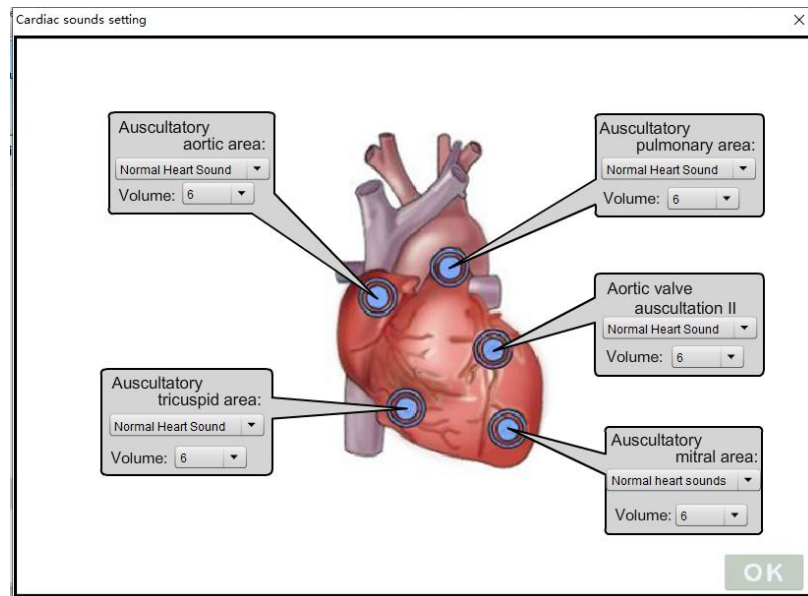
Click  to set pulse parameters.



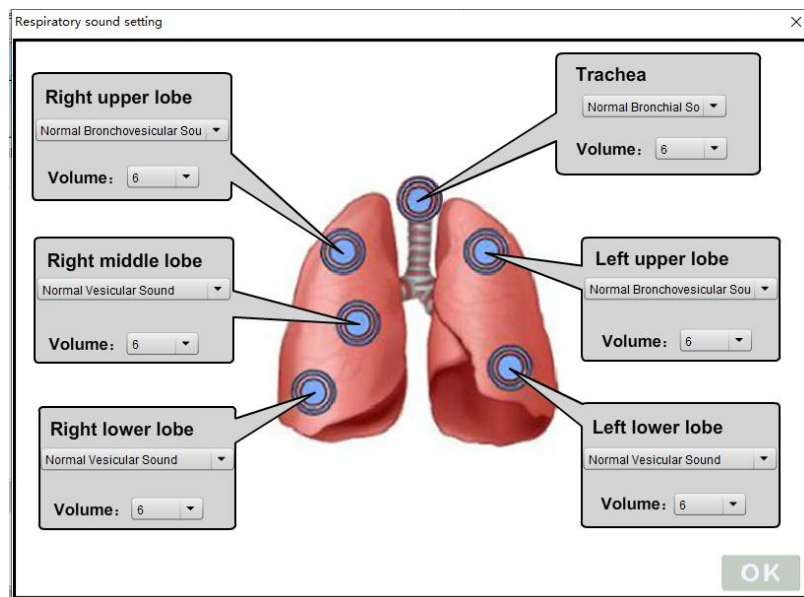
Click  **Resp. Pattern** to set breathing parameters.



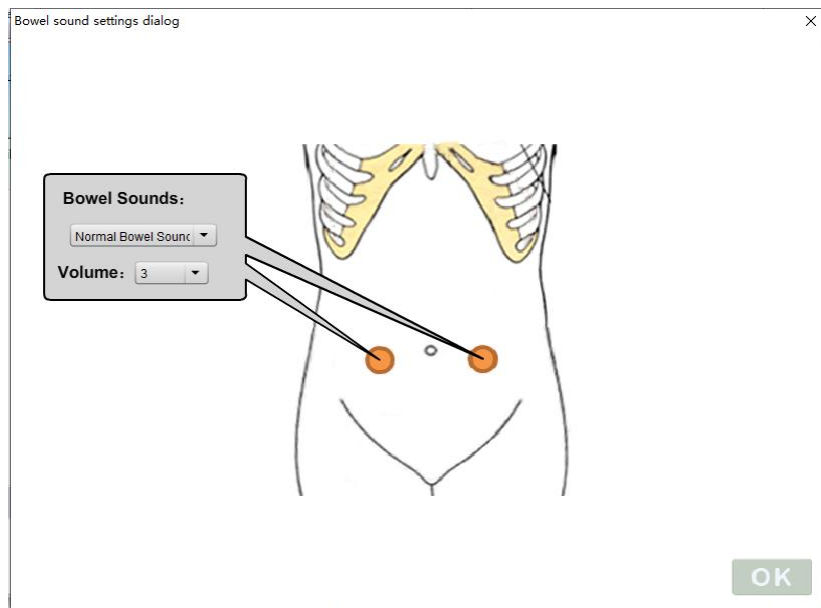
Click  to set the auscultation of heart sound.



Click  **Lung sounds** to set the auscultation of breath sound.



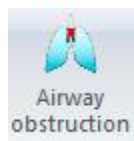
Click  **Bowel sounds** to set the auscultation of bowel tone.



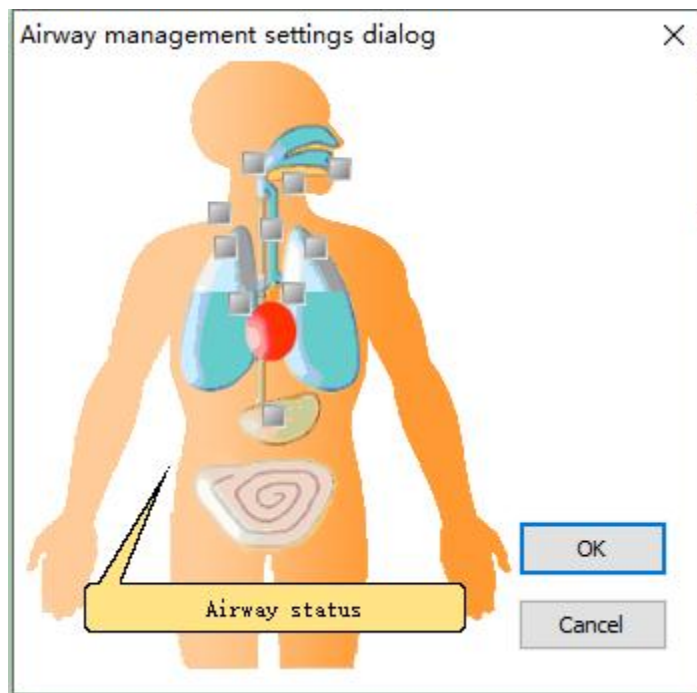
Click **Monitor parameters** to set all kinds of parameters.

Signal parameters of physiological signs setting

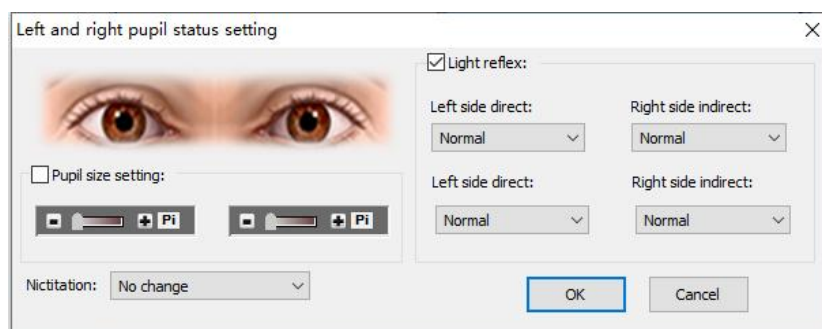
Breathe end-tidal carbon dioxide: -1 mmHg ☐ Modify	Central body temperature: °C -1.0 ☐ Modify	Peripheral temperature: °C -1.0 ☐ Modify
Pulmonary systolic pressure mmHg -1 ☐ Modify	Pulmonary diastolic pressure mmHg -1 ☐ Modify	Blood oxygen saturation: % -1 ☐ Modify
WP: mmHg -1 ☐ Modify	ICP: mmHg -1 ☐ Modify	
Central venous pressure: mmHg -1.0 ☐ Modify	FiO2: % -1 ☐ Modify	ETiO2: % -1 ☐ Modify
CO: L/min -1.0 ☐ Modify	FIANES: % -1.0 ☐ Modify	ETANAEST: % -1.0 ☐ Modify
CO2: -1 ☐ Modify	TOF: -1 ☐ Modify	TOF(%): -1 ☐ Modify
OK Cancel		



Click **Airway obstruction** to set the airway.



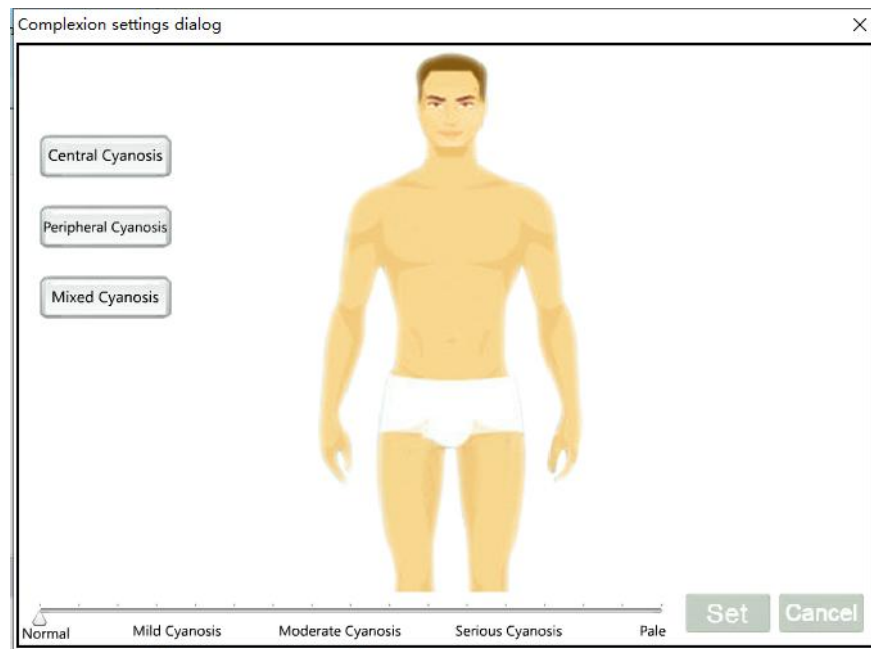
Click **Pupil** to set the pupils.



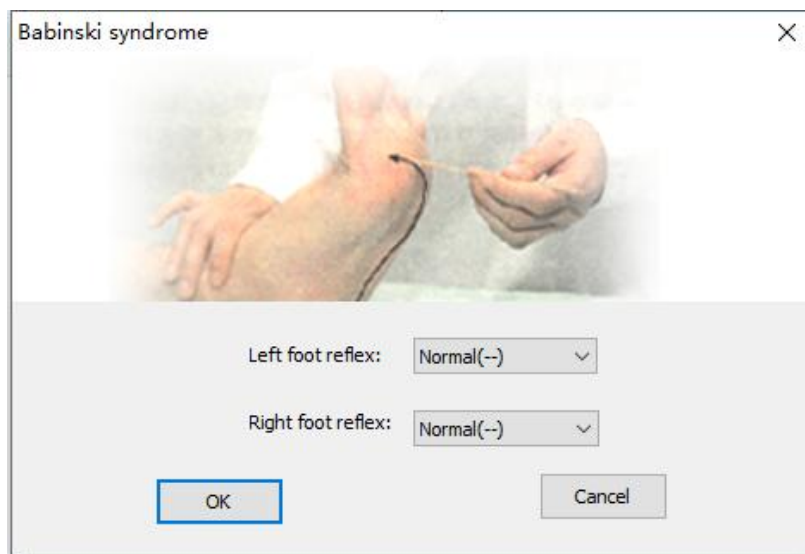
Click **Sweat Weep**, the "Forehead sweating" and "Eye sweeping" will be displayed in the scene box.



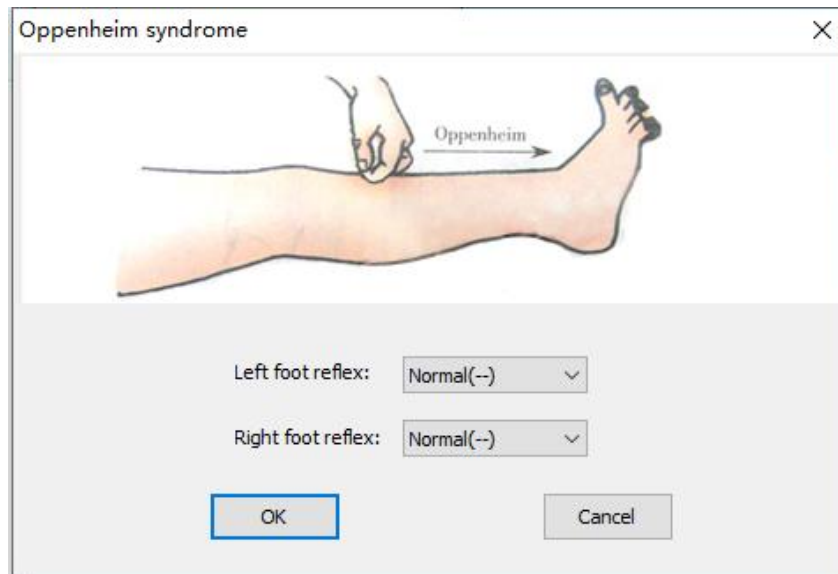
Click **Complexion** to set the simulator cyanosis.



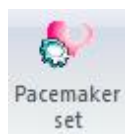
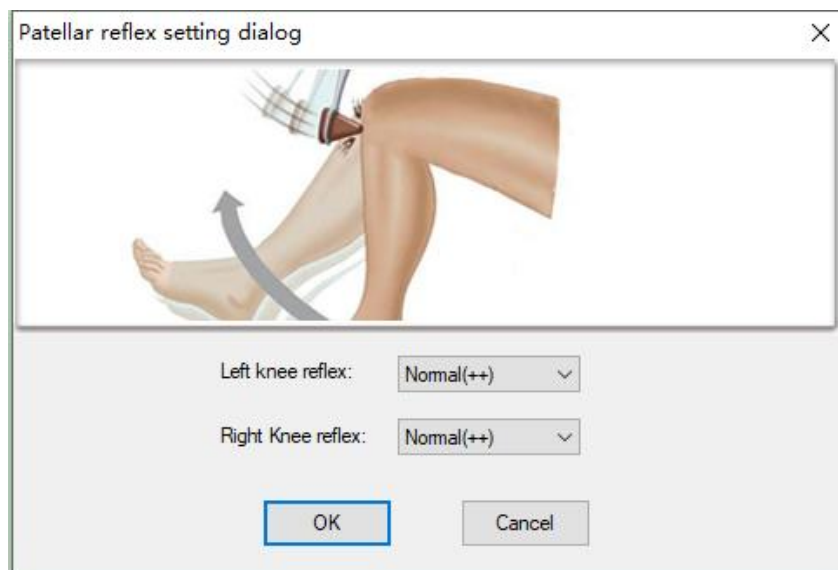
Click **Babinski syndrome** to set the plantar nerve reflex.



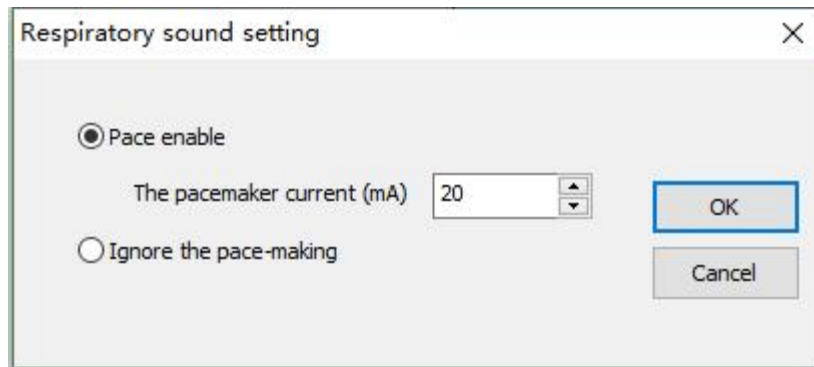
Click **Oppenheim syndrome** to set the tibial nerve reflex.



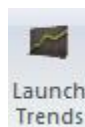
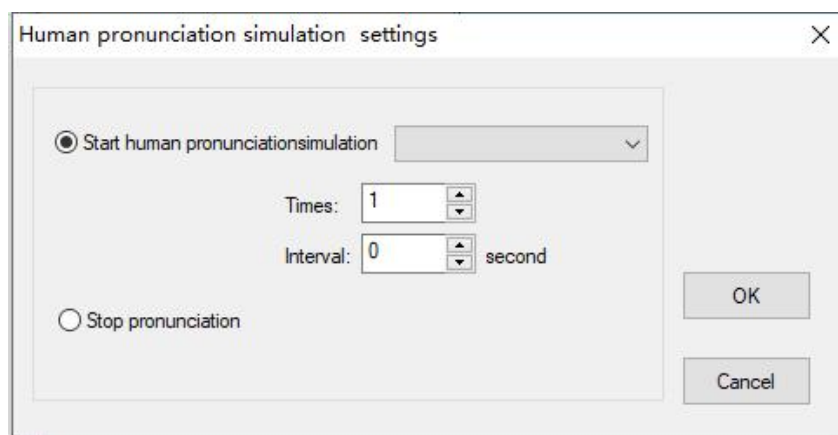
Click **Knee reflex** to set the knee reflex nerve.



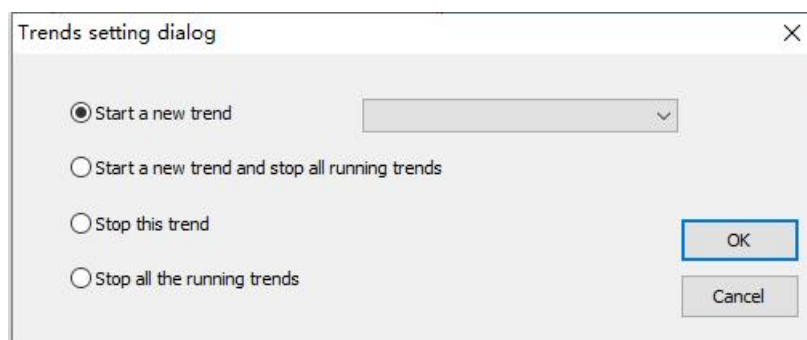
Click **Pacemaker set** to set the pacing, which allows setting different pacing current.



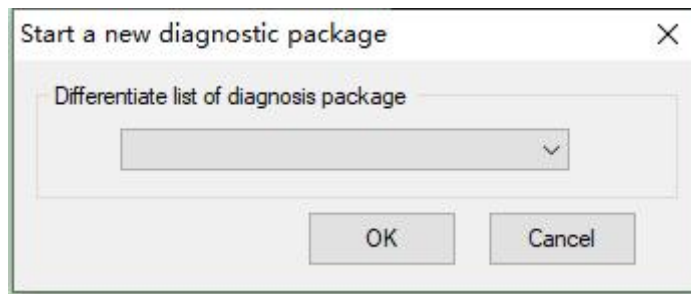
Click **Voice** to set the simulator pronunciation. The system will provide a variety of simulated sounds for selection, and can set the number of times to play and the interval time or stop pronunciation.



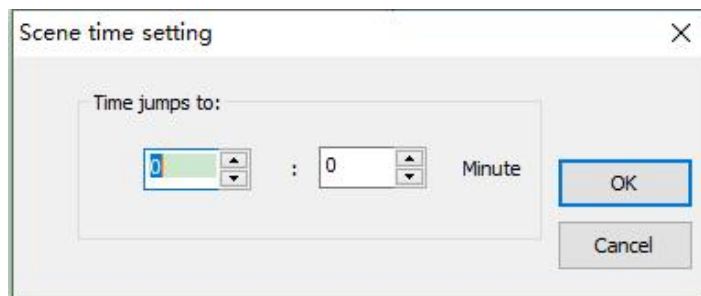
Click **Launch Trends** to set the simulator trend. First of all, set the trend in "Quote" menu and then set it here.



Click **Launch diagnostic package** to start a new diagnostic package. First of all, set the new diagnosis and name it in diagnostic project.



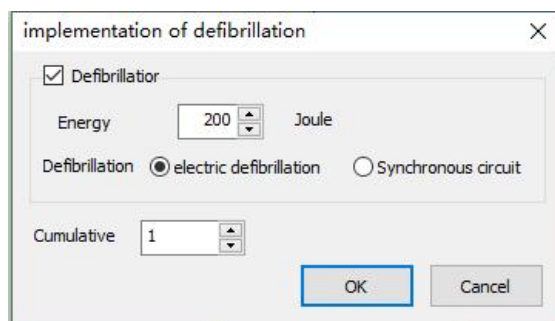
Click **Time** to set the scene time..



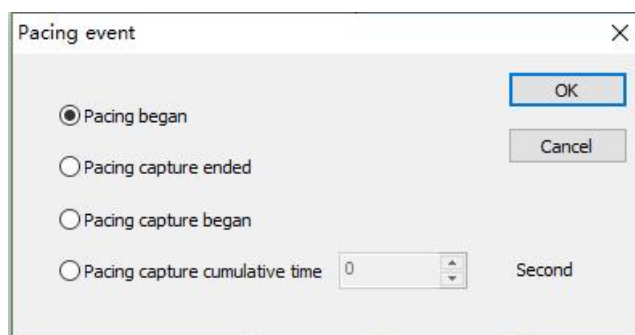
Introduction of “Sign events” menu: includes event items and others, and can set different events in the event box and scenario box.



Click **Defibr.** to set the times of defibrillation.



Click **Pace-making** to set the pacing event parameters.





Click **Intubate** to display tracheal intubation in the event box.



Click **Oxygen** to set the oxygenation parameters.

Oxygen supply

Methods of oxygen supply

nasal catheter Ordinary mask Simple mask

☐ Oxygen flow: Revise value:

0 L/min +/0 + 0 -

OK Cancel



Click **CPR** to set the CPR parameters.

Cardio-pulmonary resuscitation

Operational mode

☐ Blow ☐ Cumulative time of 0 Second

☐ Chest compressions

☐ Operation of cardio-pulmonary resuscitation

☒ Five circulating CPR operation SVS

☐ Press the frequency ☐ Compression ☐ Blowing rate

mini 0 max 0 0 0

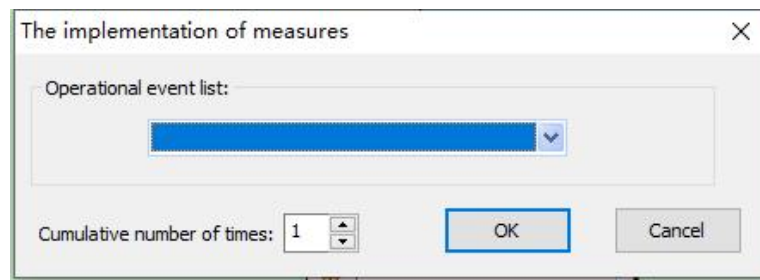
Cumulative time 1

OK Cancel



Click **ABC** to set the implemented measure items. Select event in

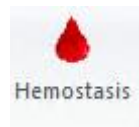
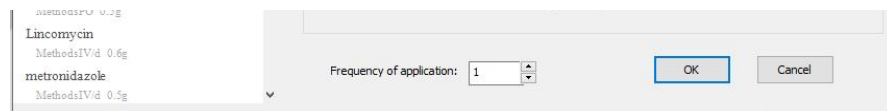
the drop-down menu to set the time for the event execution.



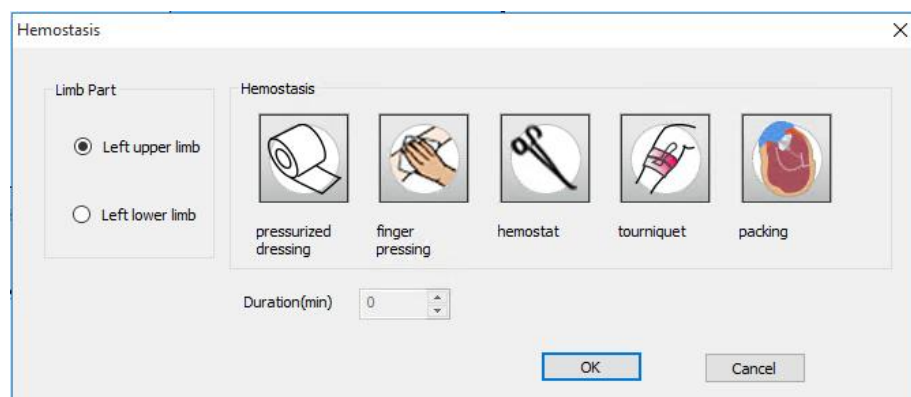
Click **Drugs** to set the drug. Can set the method, time and times of

drug delivery, as well as drip rate

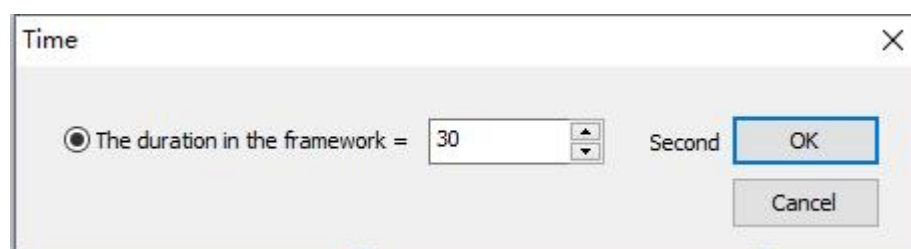
parameters.



Click **Hemostasis** to set the hemostasis method.



Click **Time** to set the patient time or duration in frame.





Click to set the bleed amount.

A dialog box titled "Bleeding volume setting" with a close button (X) in the top right corner. It contains a label "Blood" followed by a text input field containing "100" and a small up/down arrow control. To the right of the input field is the label "milliliter". At the bottom right are two buttons: "OK" and "Cancel".

Introduction of "Quote" menu:

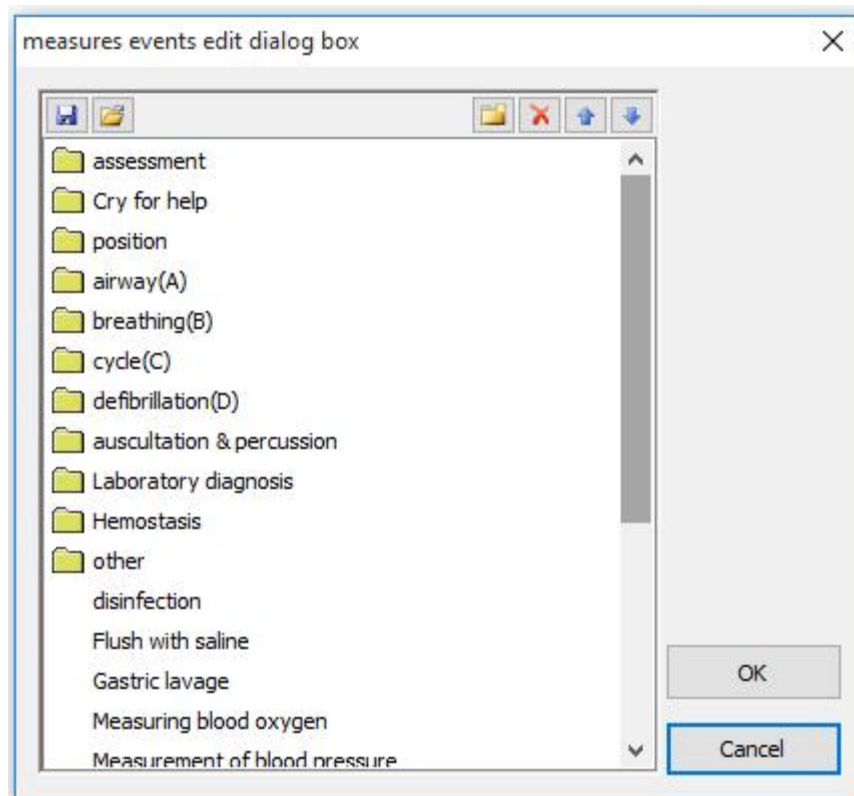


Click to set the patient information. This includes the patient's name, gender, age, weight, chief complaint, current medical history, physical examination and other medical history collection content.

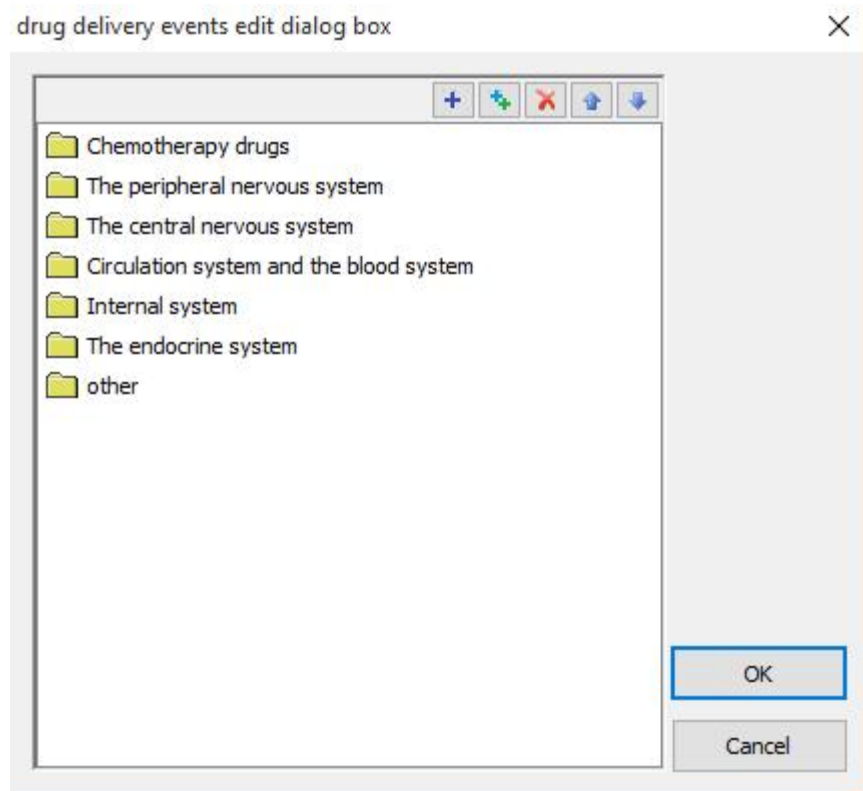
A complex dialog box titled "Patient's information" with a close button (X) in the top right corner. It is divided into several sections. On the left, there is a placeholder for a patient photo, a "Name:" text field, a "Gender:" dropdown menu (set to "Men"), an "Age:" text field, a "Weight:" text field, and a "Pounds" dropdown menu. Below these is a "Report:" section with a green text area. The "History of present illness:" section also contains a green text area. At the bottom left, there are tabs for "Respiratory system", "Circulatory system", and "Alimentary system", with a large green text area below them. On the right side, the "History of past illness:" section includes a "Health condition:" dropdown (set to "poor") and a "Previous diseases:" text field. Below that is the "Allergic history:" section with a "Specific representation:" text field and an "Others:" text field. The "personal:" section includes "Personal history:" (with a green text area), "Marital history:" (text field), "Menstrual/reproductive history:" (text field), and "Family history:" (text field). "OK" and "Cancel" buttons are at the bottom right.

Click to set measure events, click to save added events,

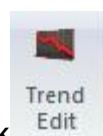
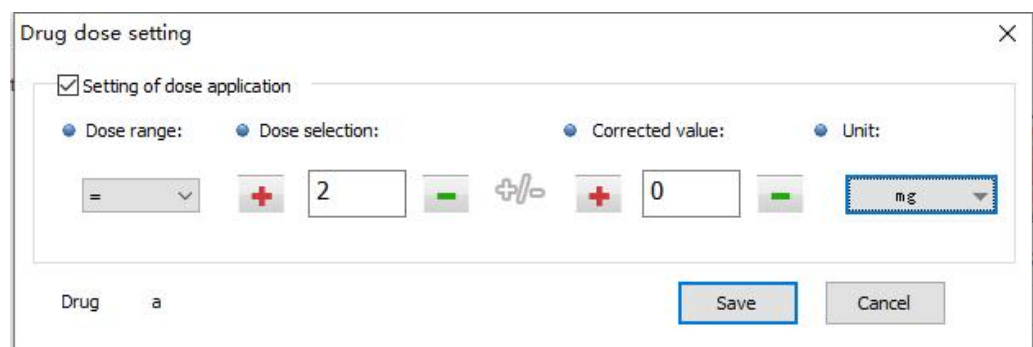
click  to restore system default event entries, click  to add new events, click  to delete added events, click  option to move up, and  option to move down.

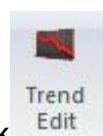


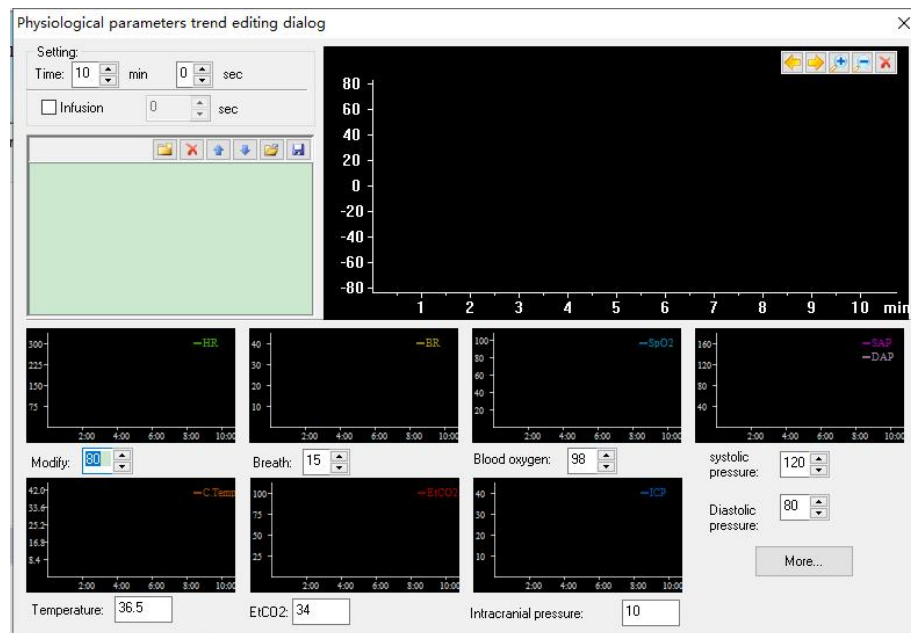
Click  to display the medication administration list box to select the medication to be used, click  to save the added medication, click  to restore the system default medication entry, click  to add a new medication, click  to delete the added medication, click  option to move up, and  option to move down.



The dose and unit of the added drug can be set by yourself.



Click  to set the trend. Click  to create new trend, click  to delete the trend, click  option to move up and  option to move down, click  to open the trend in other location, click  to save the trend. Click  to zoom in and  to zoom out , and the start time and recovery time can be set by yourself.



- 2) Diagnosis items: including physical examination, ancillary tests, laboratory tests and evaluation form.

Diagnosis total: 12 physical 10 Auxiliary exam

Training diagnosis thinking

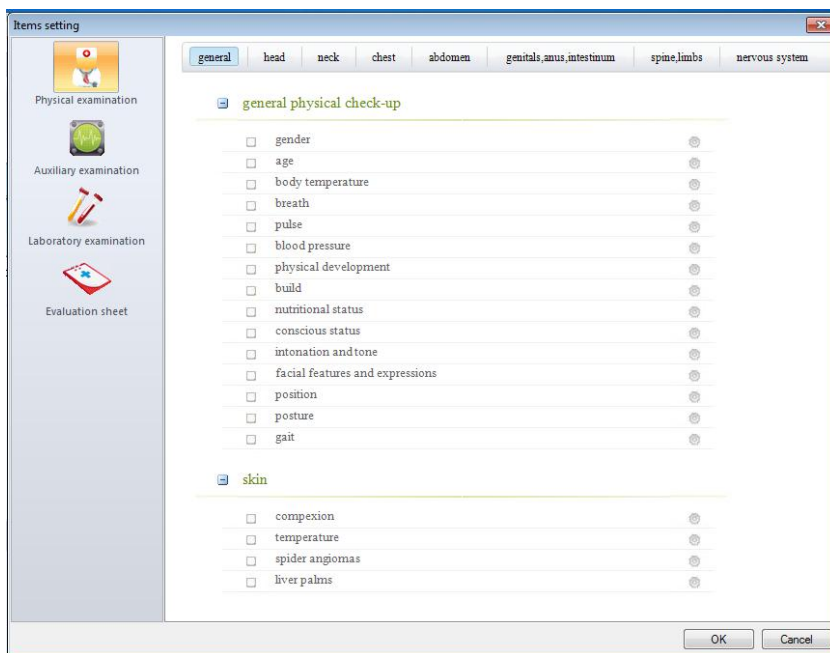
Add new diagnosis

Initial diagnosis : 12Physical items , 10Auxiliary items

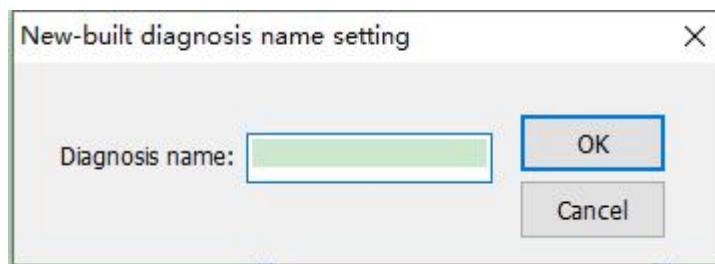
conclusion :

physique :	body temperature , breath ,...	delay 0sec
Auxiliary exam :	X ray , Brightness mode , 1...	delay 0sec
Lab exam :	Blood routine examination ...	delay 0sec

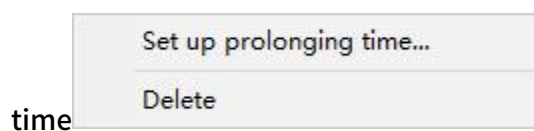
Double click to initialize the differential diagnosis, will display the dialog box of diagnosis items, select the item to test.



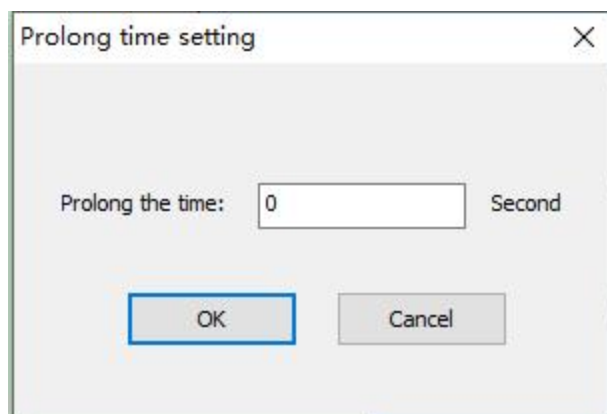
Click **Add new diagnosis** to show the dialog of new diagnosis, input the name to add new diagnosis package.



Click  to delete diagnosis or set the delay

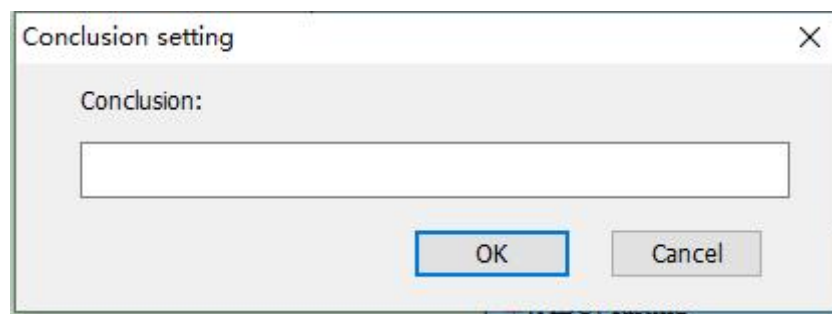


time.



After the diagnosis is completed, you can fill in the diagnosis conclusion

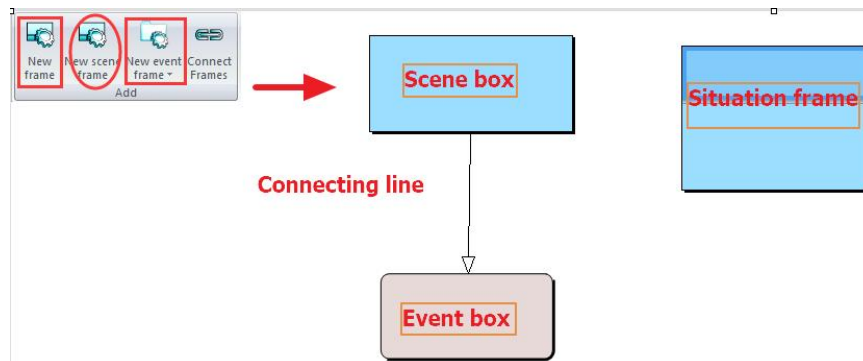
by clicking conclusion :



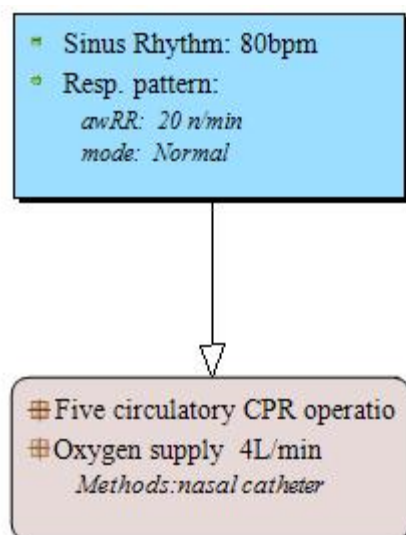
Select the diagnosis package to delete and click Delete items to delete.

3) Case design area:

Select Insert→New scene box, New scenario Box and New event Box in the menu bar, you can add scene box, scenario box and event box in the case design area.

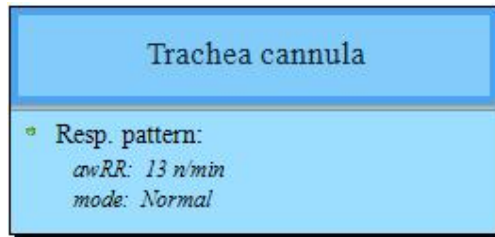


Double-click the scene box to add various physiological parameters; double click the event box to add events.



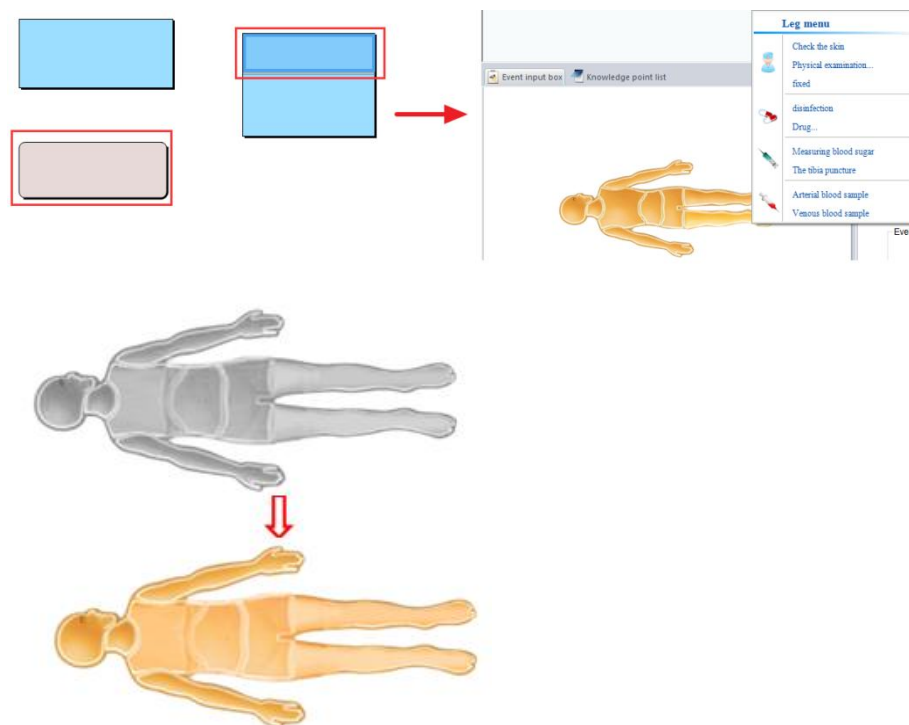
The scenario box contains two parts, the event box at the top and the scene box at the bottom, i.e. the physiological parameters will be changed to the state in the scene box after an event in the event box is

done. The scenario box can be applied to the entire case script, i.e. any time an event in the scenario box is done, it will trigger the physiological parameters in the scenario box to occur.



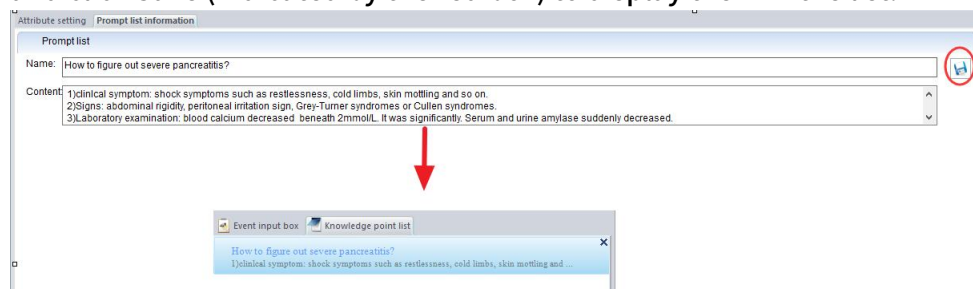
4) List of events and knowledge points:

Double click on the event box in the case design area, the picture turns from gray to color, and click on different parts to select the event.



List of knowledge points:

Enter the case script knowledge points in the prompt list on the right, and click Save (indicated by the red box) to display them in the list.



5) Properties and tip list settings:

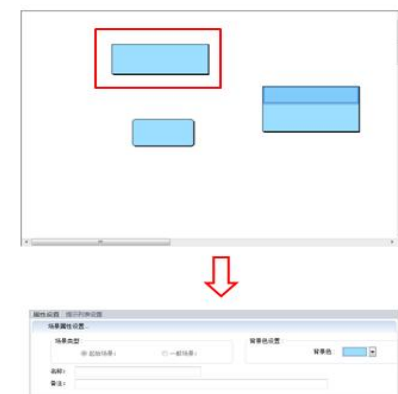
Property settings include script property settings, scene box property

settings, event box property settings and scenario box property settings.

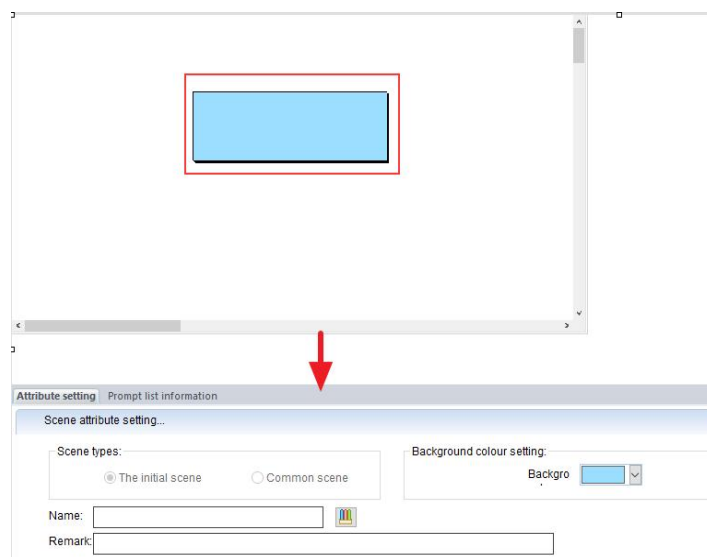
Click on the blank area in the case design area to set script properties, including department, script difficulty, and patient chief complaint.



Click the scene box to set the scene properties, including scene type, scene name, notes, and background color settings.

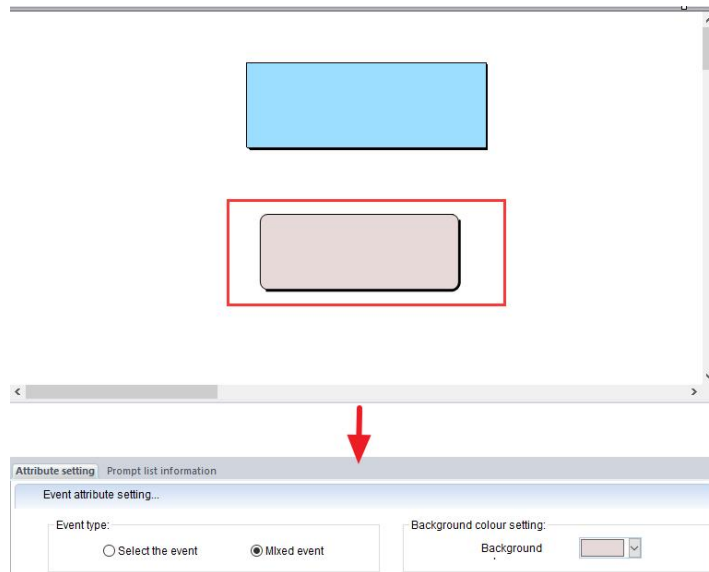


Click the event box to set the event properties, including the event type and background color settings.



Click the scenario box to set the scenario properties, including behavior

settings and background color settings.



Tip list settings: Enter the case script knowledge points in the tip list and click Save (indicated by the red box) to display it in the knowledge points list on the left.



6) Personal information:

Click on the avatar to display the patient information editor, as shown below, to record the medical history collected during the consultation.

After completion, the patient's basic information will be displayed on the interface:

Personal information



Name: Mr. Zhang
Age: 75
Weight(Kg): 65

[history of present illness] :Precordial pain always occurred out of repetitive strain for 10 years. It was paroxysmal and it spontaneously improved after several minutes; Previous coronary CT scanning gave a hint of multivessel coronary artery disease and no intervention was done, and it was cured through regular oral drops like aspirin. Dyspnea on exertion occurred in one year. In the recent day the condition aggravated and symptoms like paroxysmal dyspnea, orthopnoea, cough out pink frothy sputum, cyanochroa, lassitude, coldness of extremities occurred.

7) List information:

Create a new scenario box and set the changes of event and sign parameters, shown as below:

1 hypo-defibrillation

 Sinus Rhythm: 80bpm

Click Save (indicated by the red box) in the scenario box settings to display “Save patient sign template” which can set name and note of the template.

Circumstance attribute setting...

Behavior setting
☒ Continue main process ☐ Exit main process

Background colour setting:
 Background



Scenario template saving dialog

Scenario template name:

Remar

OK Cancel

After the setting, name will be displayed on the right.

List information

 Modify  Delete

Defibr

Saved sign templates can be directly dragged into the case design area for use, as shown in the figure, select the sign template to drag, hold

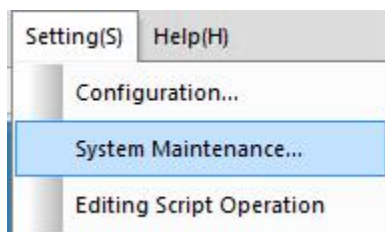
the left mouse button and drag it towards the case design area.



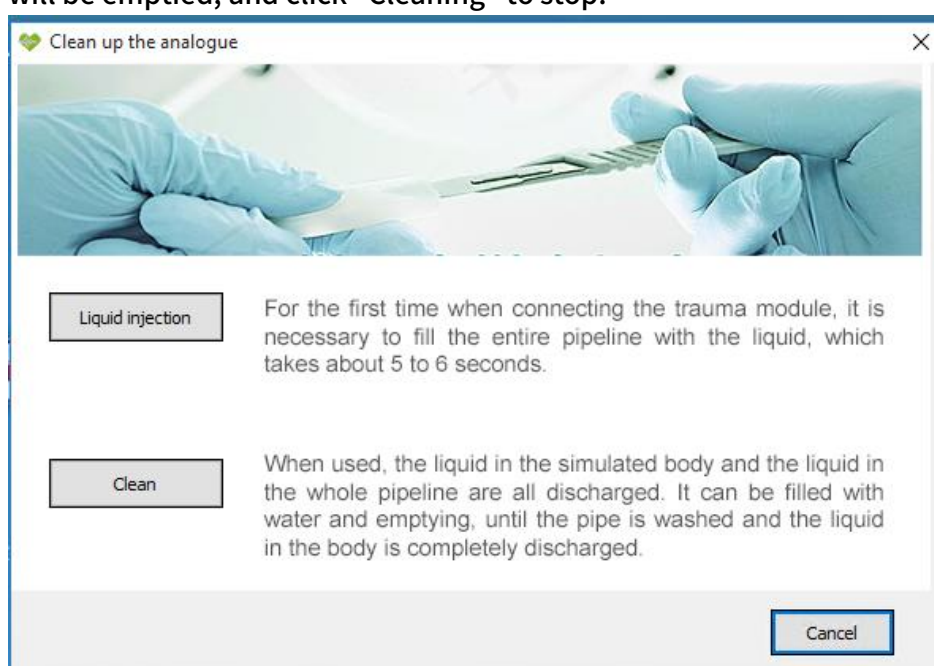
Maintenance & Care

1. Maintenance

- (1) After the operation, click "Settings" → "System maintenance".



Click "Clean" and will display "Cleaning", filled liquid during the operation will be emptied, and click "Cleaning" to stop.



- (2) After the model training is completed, wash it with soap water or clean water and dry it out.
- (3) When the model is not used for a long time, it should be stored in a cool and dry place in a box to prolong the service life.

2. Care

- (1) When apply the model for liquid-related training, such as tears sweeping, sweating and bleeding, pay attention to inject pure water to avoid other water impurities blocking the interface.

3. Cautions

- (1) Within one year of the date of purchase or contractual warranty period, if any quality problems occur due to the manufacturing process or the failure

of the original parts (except those caused by man), the company is responsible for free repair services. The company also guarantees commitment to lifelong maintenance at the user's own expense.

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