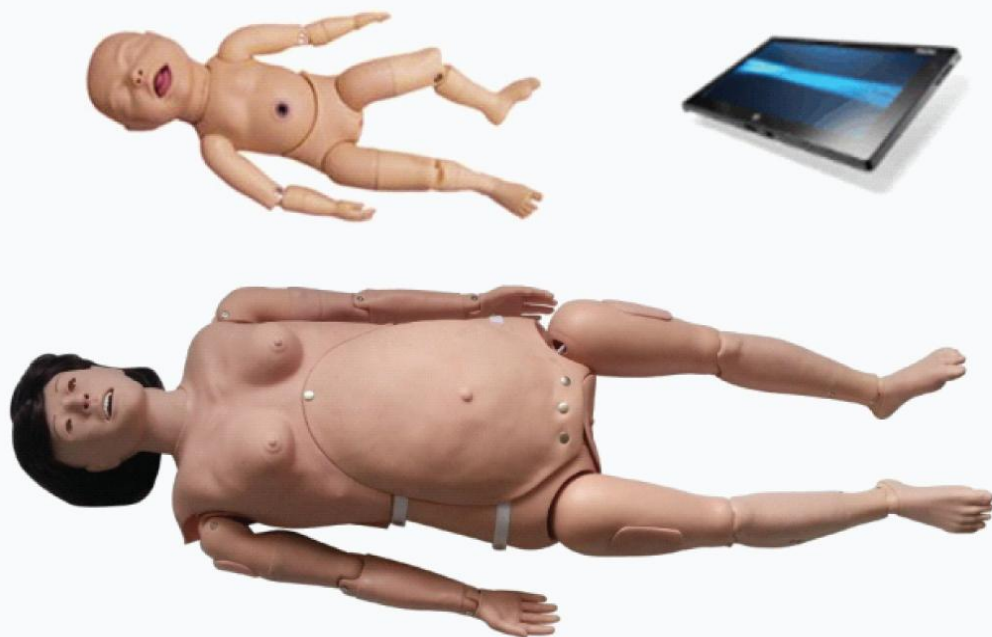


SHANGHAI HONGLIAN MEDICAL INSTRUMENT DEVELOPMENT CO.,LTD

General Doctor[®]

GD/F5700 High Intelligent Digital Skills Training System for Gynaecology and Obstetrics (3G version)

Manual instruction



Shanghai Honglian Medical Technology Group Co.,Ltd.

Content

Company brief introduction.....	4
Product brief introduction.....	6
General introduction.....	7
1. Manual instruction	
(1) Electrical safety.....	7
(2) Safety of simulated human.....	7
Installation.....	8
1. Hardware installation	8
2. Software installation.....	18
Manual instructions.....	20
Product functions.....	20
1. Respiration.....	20
2. Cycle.....	22
3. Emergency	26
4. Administration route.....	27
5. Gravida care:.....	28
6. Obstetrical department.....	28
7. Others	37
8. Cases training/assessment	38
Software system operation instruction.....	40
Log-in interface.....	40
Main interface introduction.....	40
1. System courseware.....	40
2. Special training.....	43
3. System script operation.....	56
4. Sysem setting.....	98
5. Script edit.....	101
Repair and maintenance	126
1. Repair.....	126
2. Maintenance.....	126
3. Cautions.....	126
4. Packing list.....	127

Company brief introduction

Shanghai Honglian Medical Tech Group was initially built in 1993. It is located in Shanghai - a cosmopolis. It embraces the most advanced scientific strength and has the geographical advantage of international academic exchange center. It maximizes its own talent in good long-term cooperation with several dozens of domestic and abroad famous universities. It develops international leading products, builds products marketing network that covers all over the country to set the long-term idea for development. It works hard for peace and spurs with long accumulation. After the persistent hard-work for over 10 years, the company has an office of 1000 square meters as marketing center in the Bund business center in Shanghai. The covered area of production base in Shanghai Jinshan and Jiading new high level technology development zones has reached to 35,000 square meters. It is a high-tech enterprise that contains a combination of independent research and development, manufacturing, sales and services. The annual turnover is over billions. The brand of General Doctor has become a famous brand among the counterparts. It has a world-wide reputation.

The company invested huge amounts of funds in research and development of independent core technology that is relevant with software for medical education and digital network to maintain the the international competitive advantage. It also gains great breakthrough in artwork of molds and materials. It is the first time to realize the products criterion and quality comes out in front all over the world . At the meantime, the research and development of every core

technology of the company achieves great progresses in development. The overall parameters of dozens of systematic products are examined and verified by authoritative department, and it becomes the constitute of the industry criterion, among which, there are several designs and functions have reached the international first-class level. It really achieves its primary goal of basing company upon China and finding a foothold worldwide.

The company passed the ISO9001-2000 in the System of National Quality Certification by AOQC; in the same year, it gained the manufacturing license and commercial license of five-year exemption granted by State Food and Drug Administration; series products gained the golden prize of Excellent Products in the 12th National Spark Creative Invention Competition held in 2002; during 2004 and 2011, it achieved the honor of Carrying Out the Terms of Contract to the Letter and Standing by What We Say; in 2007, it won the fame of Shanghai High-tech Enterprise; in 2008, it passed the GB/T24001-2004-ISO14001:2004 of Environmental Management System Requirements; in 2009, it was certificated by Occupational Health&Safety Management System.

The company manufactures the General Doctor brand product. There are over 1000 varieties of series, including medical first aids, diagnosis, clinical, nursing, maternal and child health, paediatrics, anatomy, multi-media, traditional Chinese medicine, oral cavity, specimens, etc. We became the recommended manufacturing suppliers of the 11th Five-Year Planned experimental demonstration center of medical schools and practice base of occupational education in nursing by

Ministry of Health and Ministry of Education. Meanwhile, the CPR simulation human and first-aid appliances of our company have been purchased by Chinese Red Cross for we won the bid. Presently, first-aid products of ours have popularized in different industries, including health care, medical education, Red Cross, electricity, transportation, fire control, safety in production and public communities, which occupies a delightful market share.

Initially products are exported to Southeast Asia since the establishment of International Trade Department in 2005. Products export has extended to nearly 80 countries and regions after two years' development. And we won the bids for many times in the United Nations. Annual export pictures have reached over \$5,000,000. The General Doctor has gained recognition of the international market and won the honor for China.

As the leader of modern medical teaching equipment, the company has built 10 product marketing service center branches, and it applied a set of applicable and popular products service management system in the basis of this network construction to realize the marketing services functions including quick response, online help, nearby maintenance, emergency measures, regular tracking, etc. and become a reliable cooperative partner of majority of users. Products export has extended to nearly 80 countries and regions. And we won the bids for many times in the United Nations. Annual export pictures have reached over \$5,000,000. The General Doctor has gained recognition of the international market and won the honor for China.

After achieving the primary goal of great varieties of goods, advanced technology and well service. Honglian staff see the pig picture again. In October, 2007, the company calls on the Third Business Start-up to set the goal of being national corporation model. Pay attention to quality and creativity; focus on brand and indomitable spirit; attach importance to service and integrity; value talents and rules. The purpose of this is to realize the transition to modern management company. Giving returns to society and benefits mankind while improving ourselves. We are willing to cooperate with domestic and abroad friends and march forward hand in hand. We will try our best to serve for the medical teaching for our country and make more contributions to the health of mankind.

Product brief introduction

GD/F5700 high intelligent digital delivery and mother-child emergency simulated human provides comprehensive teaching system. It combines advanced delivery and emergency simulated human (Matrix) and new born baby model (for delivery use). It is available to finish the practices of techniques in the whole delivery and emergency process in accordance with basic requirements of obstetrical department. It is designed through cooperative efforts of technicians in our company and mechanics in the factory, which integrates the advantages of the same product of domestic and overseas counterparts. It has automatic delivery

system which enables fetus and placenta to be delivered. It is also able to demonstrate mechanism of labor, internal and external rotation of fetus during the process of delivery, fetal head up and stretch, etc. It is available to perform prenatal cervical examination, episiotomy and suture, prenatal gravida and fetus examination, abnormal delivery (eg. Shoulder dystocia, breech delivery), various postpartum emergency treatments (eg. postpartum hemorrhage), palpation of prenatal uterine contraction, fetal heart rate monitoring, postpartum maternal care and new born baby care. The abdominal wall of gravida could be dismantled, so it is applicable to replace caesarean abdominal skin which makes simulation of uterine-incision delivery possible. Catheterization is available for gravida. And gravida could simulate auscultation positions of various fetal positions and fetal heart sounds. It is also able to simulate different kinds of cyanosis, all kinds of care of clinical gravida and neonate , multiple breath sounds, cardiac sounds auscultation, CPR on gravida and tracheal intubation, etc. It is useful to demonstrate and observe and operate the delivery process with hands. It is also available to simulate comprehensive training like normal and abnormal delivery process, midwifery techniques during delivery, perineum protection as well as perineum incision and suture skills.

The product is made of emulational skin which is lifelike. The gravida has fixed artificial teeth which enables people to practice oral care. It is available to practice dressings with separate fingers and toes. Four limbs could be moved, rotated, curved. Head and neck and jaw joint could also be moved, which can simulate

status of laryngospasm, real pupilla light reaction and clinical care of grvida. (eg. Scrub and wash, comb hair, etc.) Abdominal wall could be moved and replaced, which could be replaced with skin of abdominal wall for caesarean to simulate caesarean. It is able to operate catheterization on grvida whose appearance is similar to body of real grvida. It feels lifelike no matter from its appearance or texture.

The model is made of PVC plastic materials and its abdominal appearance is cast through mould. Perinaeum is made of foam rubber. Its texture is soft with great elasticity. It has features of rational structure and durability. It works for high education medical schools, nursing schools, nurses of polytechnic schools, midwives, clinical health care personnel of obstetrics and gynecology department, clinical teaching and demonstration in primary health unit and practices for students. The model is one of the most ideal teaching aids for internship training of clinical obstetrics and gynecology department.

General introduction

1. Manual instruction



Safety cautions: Please read and understand the cautions below before using the system.

(1) Electrical safety

- Use matched power supply. Do not use other power cord.
- Do not overload auxiliary input power supply.

- Utilization of output power supply with earth wire is a must for the product.
Please check whether earth wire and polarization still work in advance.
- Please be far away from electromagnetic field for utilization and storage of product.
- Please shut down and start up the product if any problem occurs caused by power supply fluctuation or electromagnetic interference.
- Do not leave any liquid on the interface and inner part of any components.
- Do not use the system in the rain. The utilization of water is only limited to the functions available which are mentioned in the manual book.
- Do not use chemical solution to clean the systematic parts. Only clean water and dilute soap are applicable.

(2) Safety of simulated human

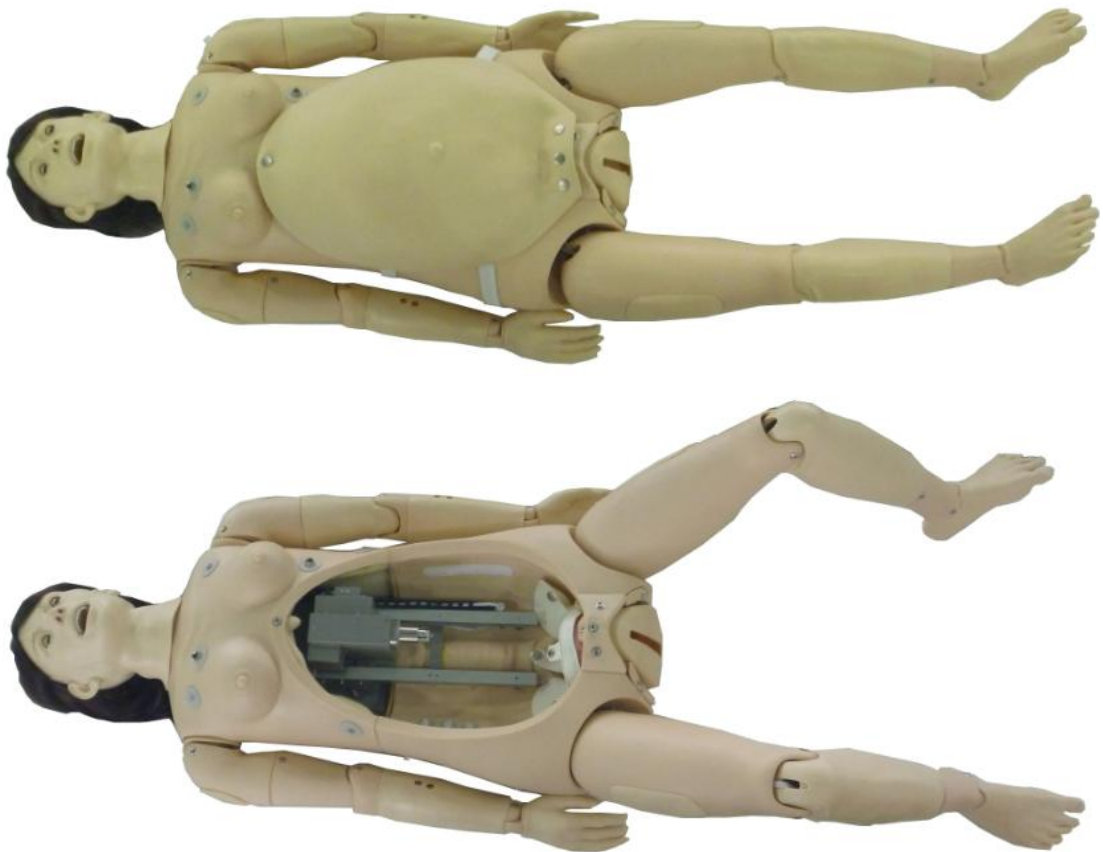
- Do not presume to dismantle the parts installed on the simulated human.
- Utilization of invasive operation supported by system is only applicable in application projects described in the manual instructions.
- Please ensure the simulated human is put on a stable and fixed platform in case fall causes any injury.
- Do not ..other substances into airway (except gas), little lubricant is available.
- Be careful when moving the simulated human. Move stably. Do not stretch the limbs of simulated human and do not fall it.
- Do not use mark pen or pencil to scrawl on the skin of simulated human since the traces could not be removed.
- Do not use propyl alcohol or any iodine preservative since they will spoil or stain the skin of the model.

- Do not use press-work like newspaper to wrap up the model.

Installation

1. Hardware installation

- High intelligent F5700 gravida simulated human



- Neonate model (for delivery use). Pat on the soles of neonate, there will be sound of crying.



➤ Neonate emergency treatment model



➤ Parts of neonate care model



1 . Arterial outlet of upper limbs

2 . Arterial inlet of upper limbs

3 . Umbilical vein inlet

4 . Liquid injection inlet of nasal feeding

5 . Umbilical venous infusion outlet

6 . Arterial outlet of lower limbs

7 . Arterial inlet of lower limbs

8 . Tube interface for connection of pressure
ball of pulses arteriopalmus

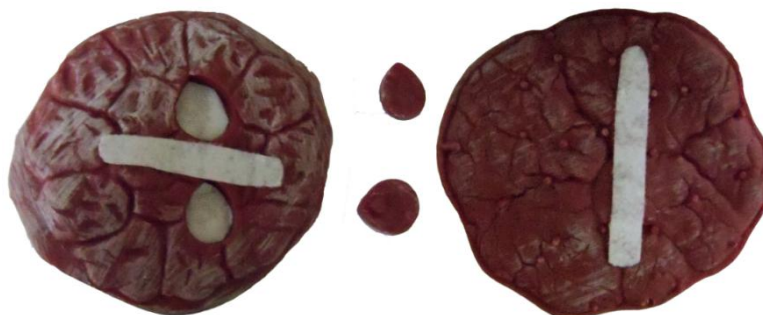
- Models of cervical change. They simulate dilatation degree of the cervix stage in the first stage of labor, including the no dilatation of uterine neck, dilatation of 2cm, 4cm, 5cm, 7cm and 10cm.



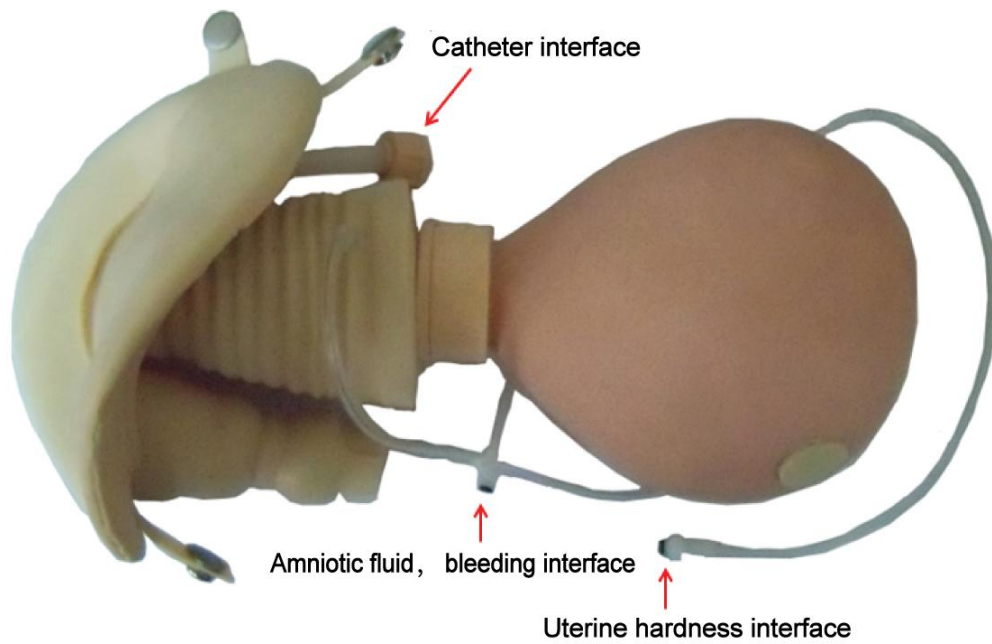
➤ Perinaeum parts



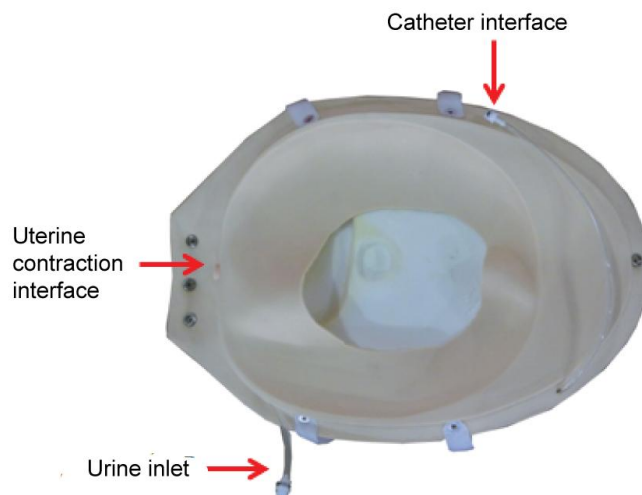
➤ Placenta parts (Normal placenta and placenta fragments)



➤ Postpartum uterus



- Skin of abdominal wall of uterine contraction: connect uterine contraction port with uterine contraction port of abdominal wall of simulated human. Connect catheter port with catheter port of postpartum uterus.



- Skin of abdominal wall for palpation



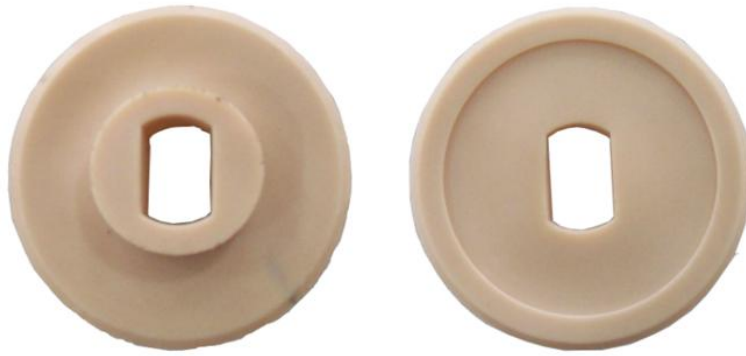
- Fetus for palpation



- Leopold elevated "Cushion" (Front and back)



- Fetus position rotation shaft (front and back)



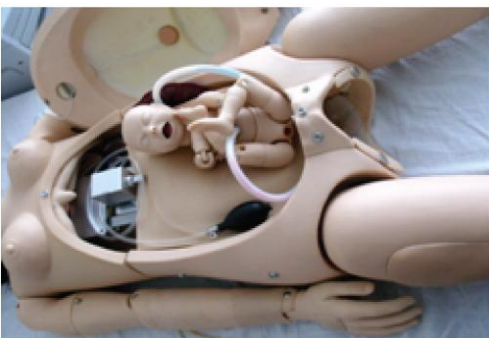
- Install Leopold cushion



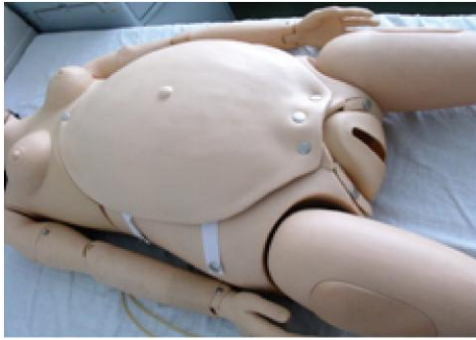
Open the cover



Place cushion



Put fetus

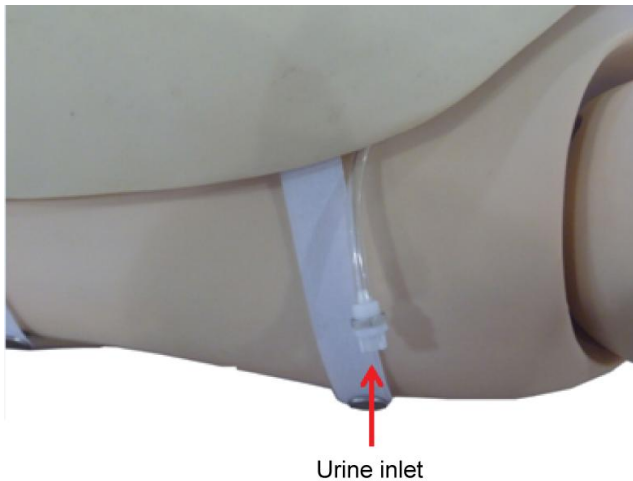


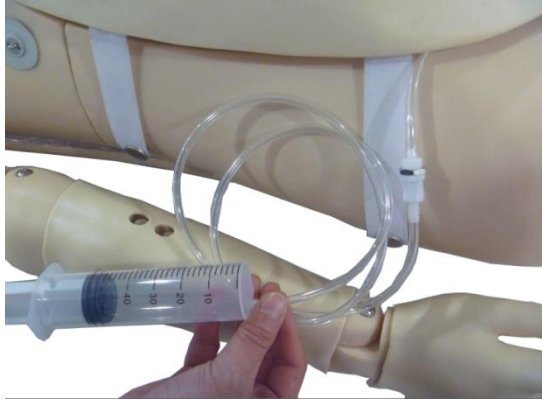
Close the cover

- Laryngoscope device



- Catheterization device (as picture shows)



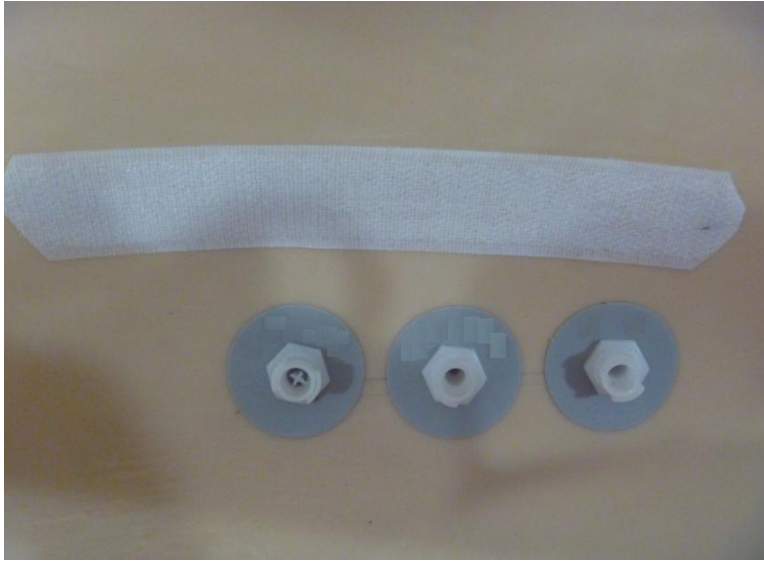


- Left side abdominal interface: sound-box interface for auscultation.

Amplified sounds could be played.



- Interior interface of abdominal wall: include amniotic fluid, bleeding interface, interface of uterine hardness and uterine contraction interface.



- Inlet and outlet (There is no specific difference between them, which means if one of them is outlet, then the other one becomes inlet)

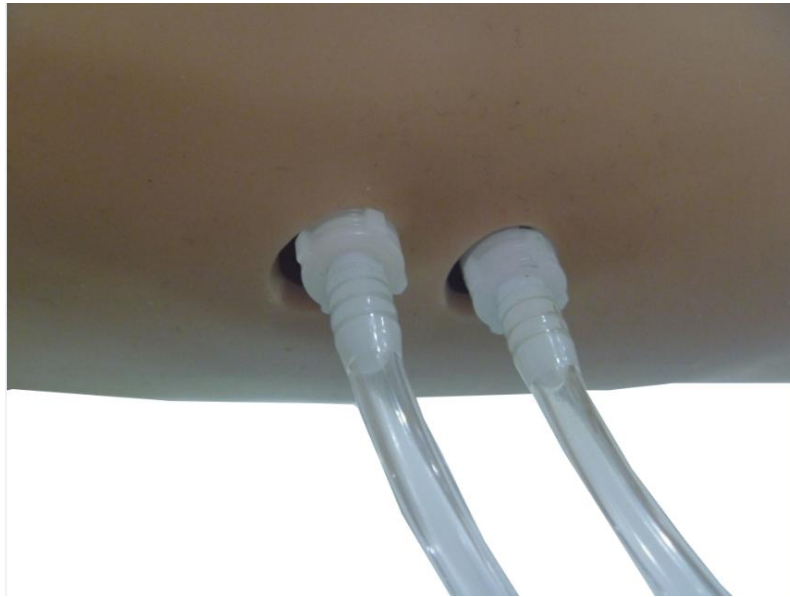


Inlet and outlet of upper limbs

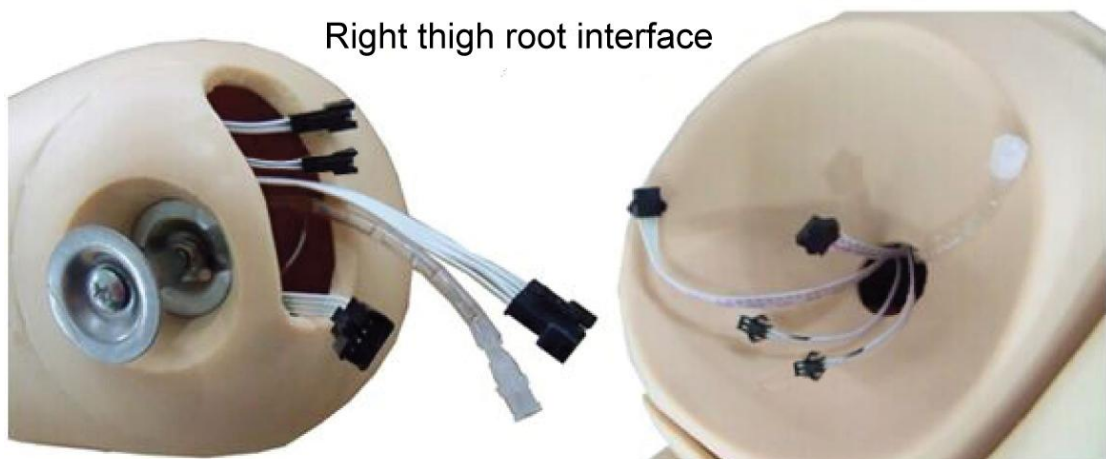


Inlet and outlet of lower limbs

- Method of water injection: as shown in the picture, connect inlet tube and outlet tube with inlet and outlet respectively. Use a syringe of 50ml to inject liquid into one of the tubes. When the liquid flows out of the other tube, it means the tube is filled with liquid injected.



- Right leg interface of simulated human: connect the corresponding color (white). Connect the plugs(black, there are different labels of four plugs).
The connection method of left leg is the same as the right one. Insert the plug according to labels.



- Monitor connection: the ports of blood oxygen detector, ECG cable and ultrasound detector have corresponding ports (eg. Six pin plug should be connected to six pin port), connect telecommunication line with corresponding port of monitor.

Monitor and parts for monitor connection



Blood oxygen detector



Cardiac conductance



Internet cable: connect monitor with wireless route



Ultrasonic probe



Telecommunication line: connect with corresponding interface on monitor

- Wireless router: Try your best not to connect with other instruments or it will interfere with simulated human.

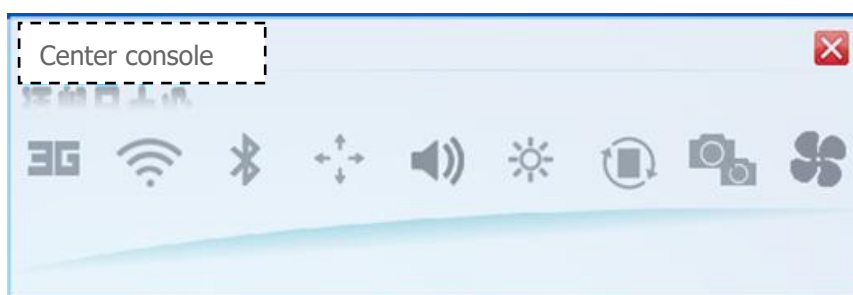


- Tablet PC



- Wireless connection of tablet PC

Switch on the tablet PC,  click the icon of on the left corner in the bottom, then console center will be displayed, which is shown in the picture below.



Click , the icon will become , WIFI is activated. Tablet PC and simulated human is connected successfully.

1. Software installation

- Hardware minimum configuration

CPU: Intel Pentium D dual-core CPU and CPU of the same performance of AMD

Memory: 1G

- Recommended configuration of hardware

CPU: Intel dual-core E5200CPU and CPU of the same performance of AMD

Memory: 2G

- Operating system: Windows7 system is available
- Ancillary software supporting

Internet Explorer 8.0 or above is a must.

Plug-in of Adobe Flash Player is a must.

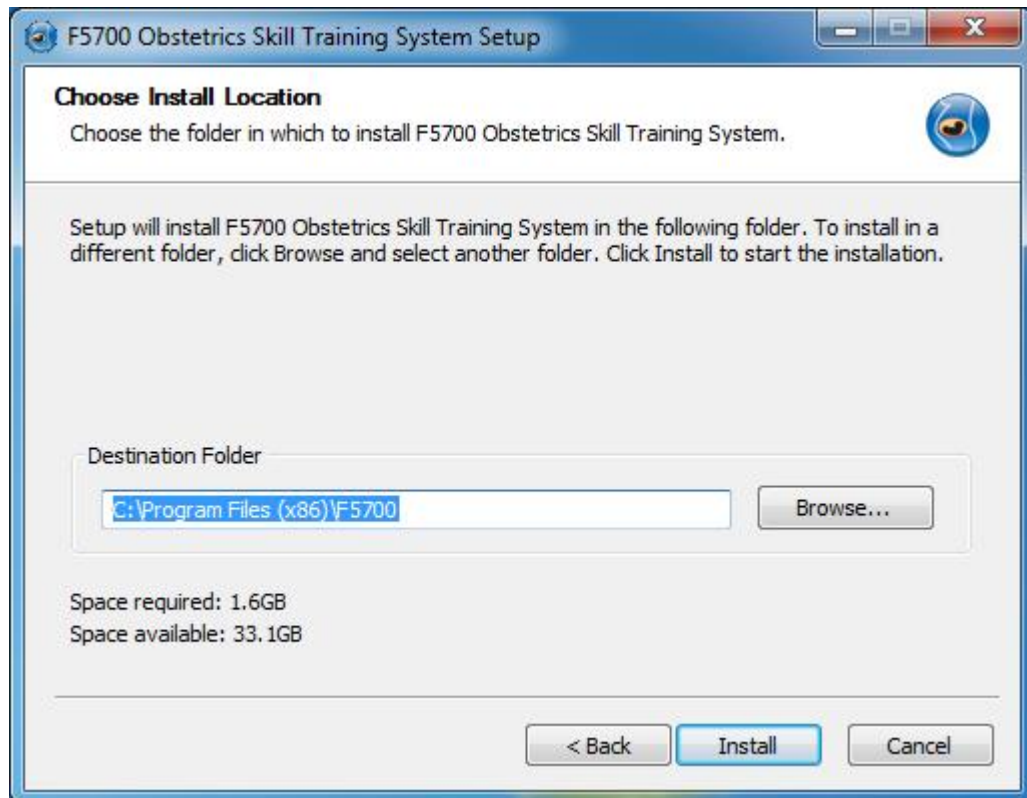
- Software installation procedure



Click icon of , it shows



Click next step to choose installation route, click install



Please install adobe flash player plug-in in accordance with prompts.

If pop-up window of Internet Explorer 7.0 installation appears, which means the the version of browser is too old. Please install it or the procedure display will become abnormal.

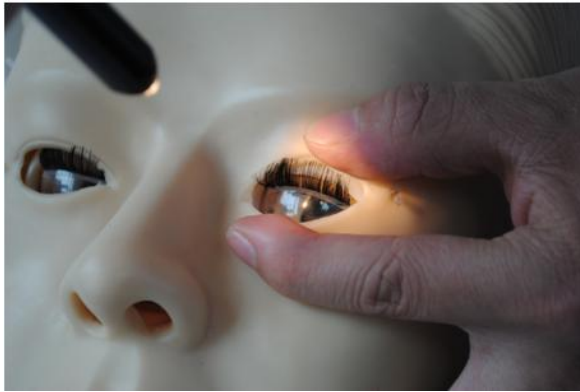
Manual instructions

1. Connect the wire of the leg of simulated human and connect the power adapter of simulated human.
2. Inject liquid into the legs (including left and right legs) and head of of simulated human in case of need.
3. Referring to product installation, switch on tablet PC and connect the wireless function.
4. Turn on the power switch and choose the cases you would like to train. And then simulate the operation training.

Product functions

1. Head

- Simulated human could blink. The sizes of simulated pupilla could be adjusted accordingly. Both pupilla have direct and indirect light reaction, which could be controlled respectively.



- Simulated human is able to simulated weep and sweat. (Note: Please inject liquid into simulated human to ensure the liquid is adequate. The location of liquid injection is at the back of head. The quantity of liquid injected is 60-100ml.)



- Wireless inquiry makes it has the special communication functions, which enables to perform inquiry. The simulated human could articulate, raise questions, tell chief complaints and conditions and simulating coughs though wireless microphone sensor on the head of simulated human. It is available to simulate the whole inquiry. The instructor will simulate the conversation during the process of inquiry.



2. Breath

- Simulated human has lifelike spontaneous breathing. There are thoracal ups and downs.
- It has multiple breath modes
- Auscultation of multiple types of breath sounds
- There are thoracal ups and downs when performing artificial ventilation
- The position and depth of cannula could be detected through orotracheal intubation. It is available to simulate laryngospasm——difficult intubation.



3. Cycle

- Auscultation of multiple types of cardiac sounds.



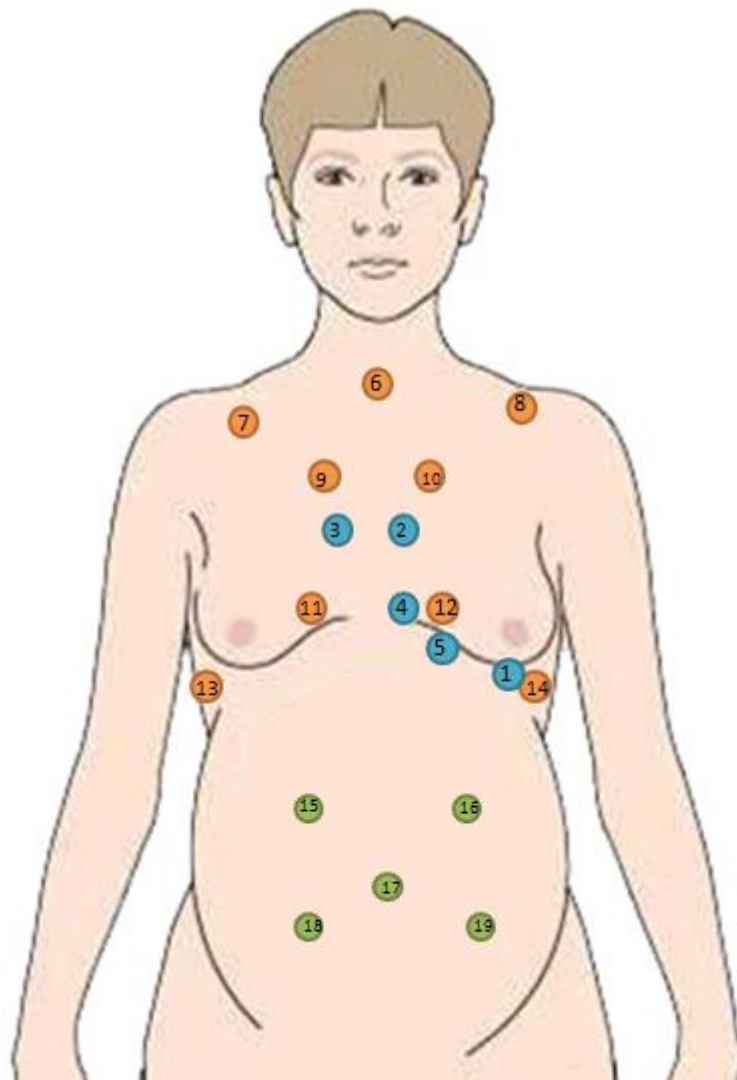
The positions of cardiac sounds auscultation

Name		Position of auscultation
Normal cardiac sounds (60-100 times/min)		1、 2、 3、 4、 5
Increased loudness of first sound		1
Decreased loudness of first sound		1
Increased loudness of second sound		2
Early to mid-systolic murmur		1、 3
Late systolic murmur		1、 3
cases auscultation	Atrial septal defect	2
	inter-ventricular septal defect	2、 4
	Patent ductus arteriosus	2
	Mitralstenosis	1
	Mitral insufficiency	1
	Aortic incompetence	1、 3、 4
		1、 3

	Aortic stenosis and incompetence	
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Breath sounds auscultation

Name	Auscultation positions
Bronchovesicular breath sound	10、 7、 8、 9
Vesicular breath sound	13、 14
Sonorous wheezes	6
Coarse crackles	6
Moist rales	11、 12
Bronchial breath sound	6
Expiratory wheezing	7、 8、 13、 14
Inspiratory wheezing	7、 8、 13、 14
Dual wheezing	7、 8、 13、 14



Positions of fetal cardiac auscultation

Position	Auscultation positions
Right sacro-ante rior	15
Left sacro anterior	16

Transverse presentati on	17
Right occipito anterior	18
Left occipito anterior	19

- Blood pressure measurement: blood pressure measurement is on the right arm. Use simulated hematomanometer to measure the blood pressure. Connect the port on cuff with simulated human, as shown in the picture.



- Simulate venous collapse and shock status



- Real pulses arteriopalmus. Arteriopalmus could be palpated in bilateral carotid artery, right radial artery, right brachial artery.



4. Emergency

- CPR: Electronic monitor of airway opening, air-blowing volume, air-blowing frequency, times of air-blowing, compression areas,

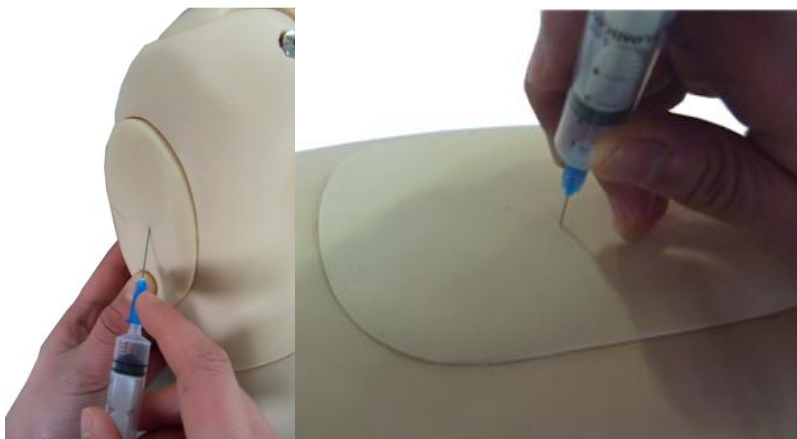
compression times, compression depth and frequency are uploaded to the computer to display through being collected by sensors in according to 2020 International CPR Guide Standards, which will be judged by software automatically to identify whether operation is right.



- It is available to conduct real defibrillation, simulated defibrillation and
- cardiac pacing. (The manual instruction of simulated defibrillator, please refer to J880 of manual book)

5. Drug administration

- Intramuscular injection: bilateral subcutaneous of deltoid, intramuscular injection, bilateral vastus lateralis



- Intravenous injection: venous puncture of bilateral arms.



- Drug identification system: it provides 24 drugs' labels. Scan the drug label on the bottom of right arm, the drug name, dose and administration route will be displayed.



6. Gravida care:

- There are fixed artificial teeth , which is available to conduct mouth care.
- It is available to practice dressings with separate fingers and toes.
- Four limbs could be moved, rotated, curved. Head and neck and jaw joint could also be moved, which can be used for practice of care operations like changing clothes, washing face and combing hair. S
- The care of uterine-incision and suture is available.

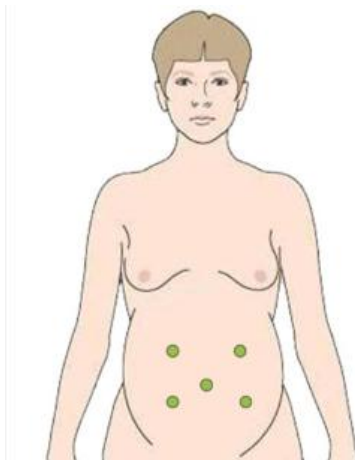
7. Obstetrics and gynecology department.

- Normal delivery (delivery system, fetal heart sound auscultation, patient

voices, simulated uterine contraction.)

Simulate normal delivery system: conduct inner rotation from mid-pelvis to pelvic outlet plane. When the fetal head descends to vaginal orifice, the fetal head gradually looks up and stretches. After the fetal head is delivered, reset and conduct external rotation.

Fetal heart sound auscultation: there are five positions where you can hear fetal heart sound. Different fetal positions makes fetal heart sound auscultation positions different. They are listed as follows: Right sacro-anterior, left sacro anterior, right occipito-anterior, left occipito anterior and transverse presentation.



Patient voice: when the gravida is giving birth to a baby, the system could simulate 87 kinds of voices, including feelings, medical history, time, positions, other sounds and sound effects.

Simulate uterine contraction: the duration and interval of uterine contraction could be adjusted accordingly. The intensity of uterine contraction also changes in accordance with the development of birth

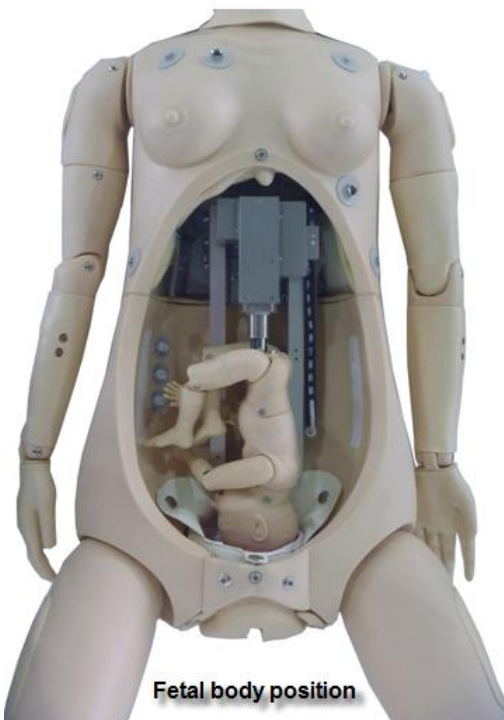
process.



Fetal heart sound auscultation



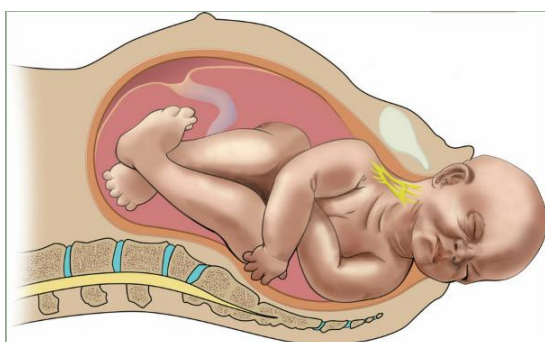
Fetal head exposure



Fetal body position

- Shoulder dystocia (Turtle syndrome, shoulder dystocia techniques)

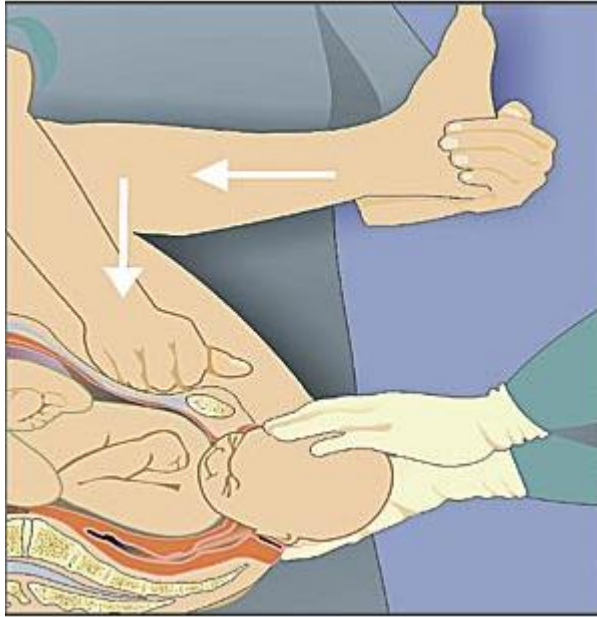
Shoulder dystocia: after the fetus is delivered, the front shoulder of fetus is embedded above the synchondroses pubis. Regular techniques of midwifery can not help to deliver both shoulders of the fetus, which is called shoulder dystocia.



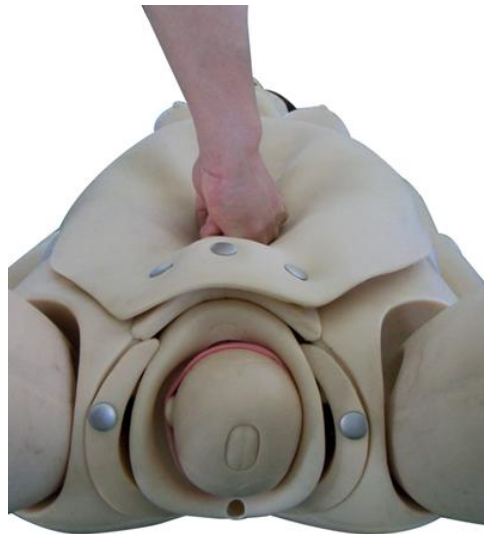
Turtle syndrome: After the fetal head being delivered, no external rotation happens, fetal head retract to vagina, which is turtle syndrome. The neck of fetus is not visible and cannot be touched. It is able to simulate real turtle syndrome. It is available to see fetal head retracting to vagina.

Methods to solve shoulder dystocia:

(1) Thighs bending(Mc Robert method): Delivery woman bends body at her best to her abdomen and hug her knees with both hands to reduce inclination of pelvis to make lumbodorsal position and move sacrum to backwards comparatively while slightly widens articulation sacrococcygea to make front shoulder embedded on the above of the pubis relax naturally. At the same time, pull out the fetal head to deliver the front shoulder with proper strength.



(2) Front shoulder press method: The assistant touches the fetal front shoulder and presses it down to reduce bishoulder distance while midwife tugs the fetal head and applies more pressure to tug cooperatively.





(3) Shoulder rotation method: The midwife inserts her hand into the vagina and places it between the fetal acromion and promontory. She places the other hand on the fetal anterior shoulder and applies pressure with both hands to rotate the fetal shoulder to the oblique diameter of the pelvis, so that the anterior shoulder enters the pelvis and the incarcerated anterior shoulder can be loosened and delivered. The posterior shoulder can also be rotated 180°.



(4) Hold postbrachium to deliver back shoulder methods: Midwife puts hand into vagina along sacrum and catches up the fetal right upper limbs,

gliding along the fetal chest, to deliver the fetal back shoulder and right upper limbs. And then rotate the fetal should to pelvic diameter obliqua and tug the fetal head to make the front shoulder be engaged and delivered.



- Breech delivery: simulate breech presentation. It is available to click   on script training software to rotate the fetal positions. It is also available to practice external version to conduct fetal position rotation.

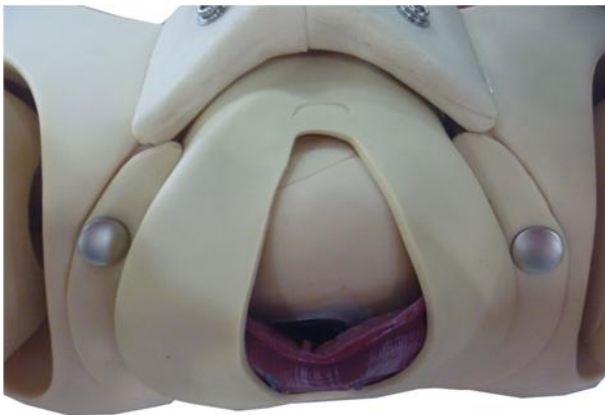


-
- Omphalocele: once omphalocele happens, the fetus should be delivered as soon as possible. If uterine cervix is fully dilated and fetal head has been presented, instrumental extraction or vacuum extraction of fetal

head should be conducted immediately. If uterine cervix is not fully dilated, cesarean section should be conducted at once.



- Placenta praevia: it is available to put as marginal placenta praevia, ;partial placenta praevia and complete placenta previa accordingly.



- Cesarean: replace abdominal wall skin for caesareans before practice. The fetus could be delivered from the incision of abdominal wall skin. Click caesareans in the event, there will be a prompt box, which reminds to conduct caesareans.



- External version: put the fetus in abnormal delivery position before practice, and then cover it with abdominal wall skin. Rotate the fetus with hands through abdominal wall, changing the fetal positions that are not good for delivery (breech, transverse presentation) into the good ones.



- Four maneuvers of Leopold: it is available to conduct fetal position examination.

(1) First maneuver:

While facing the woman, palpate the woman's upper abdomen with both

hands to measure height of fundus and assess whether the fetal size is matched with gestational weeks. And then use finger pulps of both hands to push alternately to judge the fetal part of fundus. Round and hard stuff is fetal head while wide and soft irregular stuff is fetal arm.

(2) Second maneuver:

Put two hands on both sides of uterus. Use one hand to fix and other hand to press deeply. Use both hands alternately. Identify which side fetal back and fetal limbs are located in the abdominal wall of matrix. Flat and plump stuff is fetal back. Rough stuff with joints is fetal limbs.

(3) Third maneuver:

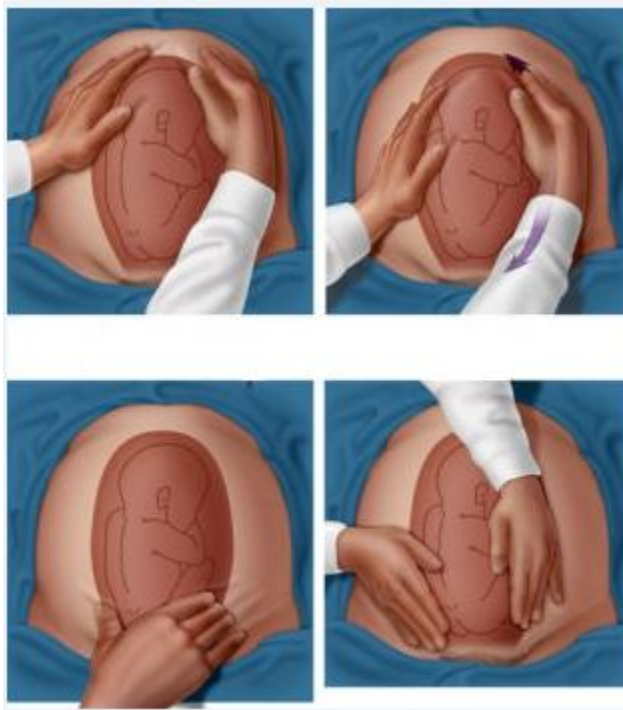
The individual performing the maneuver first grasps the lower portion of the abdomen just above the pubic symphysis with the thumb and fingers of the right hand. This maneuver should yield the opposite information and validate the findings of the first maneuver. If the woman enters labor, this is the part which will most likely come first in a vaginal birth. If it is the head and is not actively engaged in the birthing process, it may be gently pushed back and forth. The Pawlick's Grip, although still used by some obstetricians, is not recommended as it is more uncomfortable for the woman. Instead, a two-handed approach is favored by placing the fingers of both hands laterally on either side of the presenting part.

(4) Fourth maneuver:

The last maneuver requires that the health care provider face the woman's

feet, as he or she will attempt to locate the fetus' brow. The fingers of both hands are moved gently down the sides of the uterus toward the pubis.

The side where there is resistance to the descent of the fingers toward the pubis is greatest is where the brow is located. If the head of the fetus is well-flexed, it should be on the opposite side from the fetal back. If the fetal head is extended though, the occiput is instead felt and is located on the same side as the back.





- Placental abruption (incomplete, mazischesis) : it is able to simulate different degrees of placental abruption and set parameters of vial signs during placental abruption accordingly, like bloody amniotic fluid, decrease of blood pressure, fetal heart sounds could not be heard. It is also available to conduct training of clinical diagnosis and emergency treatments.

- Bleed: it is able to simulate antepartum hemorrhage and postpartum



hemorrhage. When training hemorrhage, click the icon of colporrhagia on the interface of training software and then set the amount of colporrhagia Blood N/A to simulate colporrhagia. The volume of colporrhagia could be set by one' s own. The volume is divides into nothing, large quantity, normal and little.

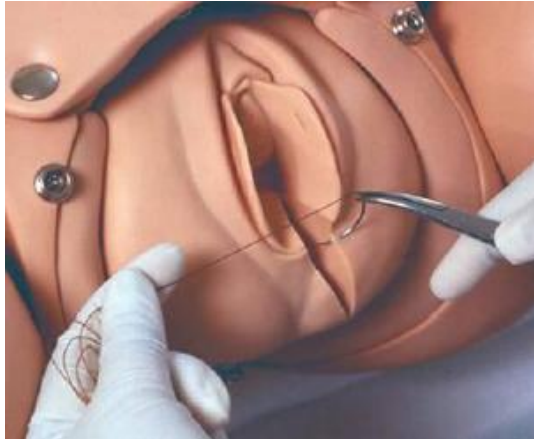
Postpartum uterine massage (the hardness of uterus)

After delivery, replace it with postpartum uterus to conduct training of postpartum uterine massage. The hardness of uterus could be set on the



software accordingly.

- Perineal repair: training of three types of perineosynthesis including mid-perineal incision, left incision and right incision.



8. Others

- Monitoring of vital signs: blood oxygen monitoring, blood pressure monitoring and ECG monitoring.



- Gravida could simulate cyanosis, colporrhagia, effusion of amniotic fluid and convulsion. (only happens on the left side.)



Notes: when simulating the liquid relevant operation like effusion of amniotic fluid, bleeding, etc., please inject simulated human with liquid in advance. Please ensure the quantity of the liquid is adequate. The position of liquid injection is leg. The quantity of liquid injected is 1000ml.

- Catheterization function: bladder shall be evacuated when conduct cesarean. So catheterization is needed. Urine bad can hold 150ml simulated urine. The urine injected shall not over 150ml or it will overflow from meatus urinarius.



9. Cases training/assessment

System simulates typical cases of normal uterine contraction, umbilical cord around the neck, omphaloptosis, incomplete separation of placenta, breech dystocia, shoulder dystocia, uterine-incision delivery, postpartum hemorrhage, potential antepartum, during delivery process and postpartum risks.



Operating instruction of software system

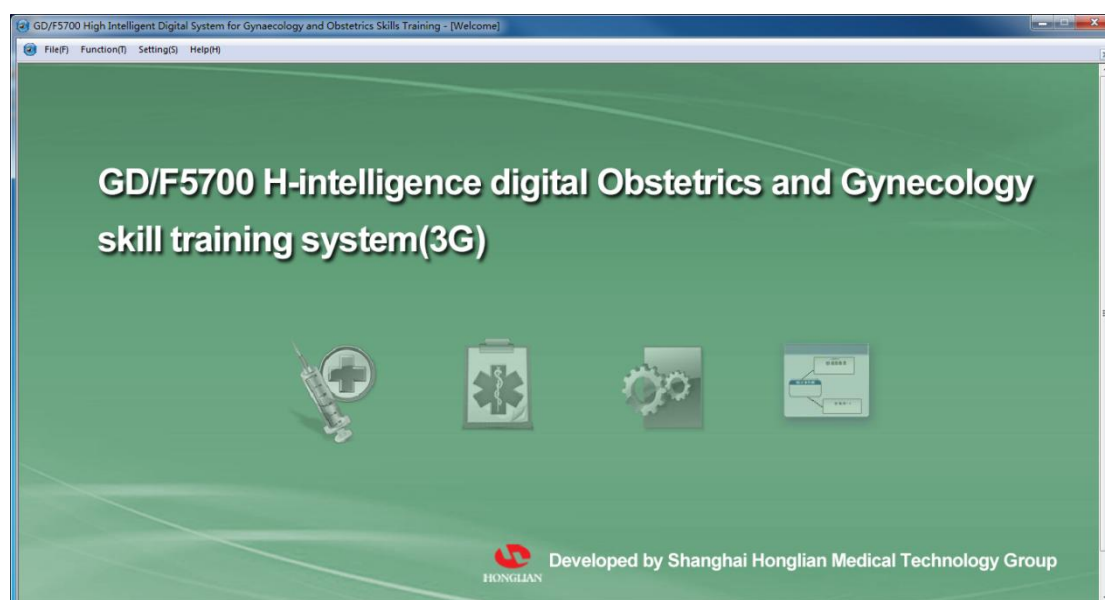
Main interface



Double click to enter Main interface directly

Main interface introduction

Main interface is composed of title bar, menu bar and functions display are.



Title bar: it shows the current window, including minimize, maximize and close buttons.

Menu bar: it includes almost all the orders in the system, which is identical with the functions of function area.

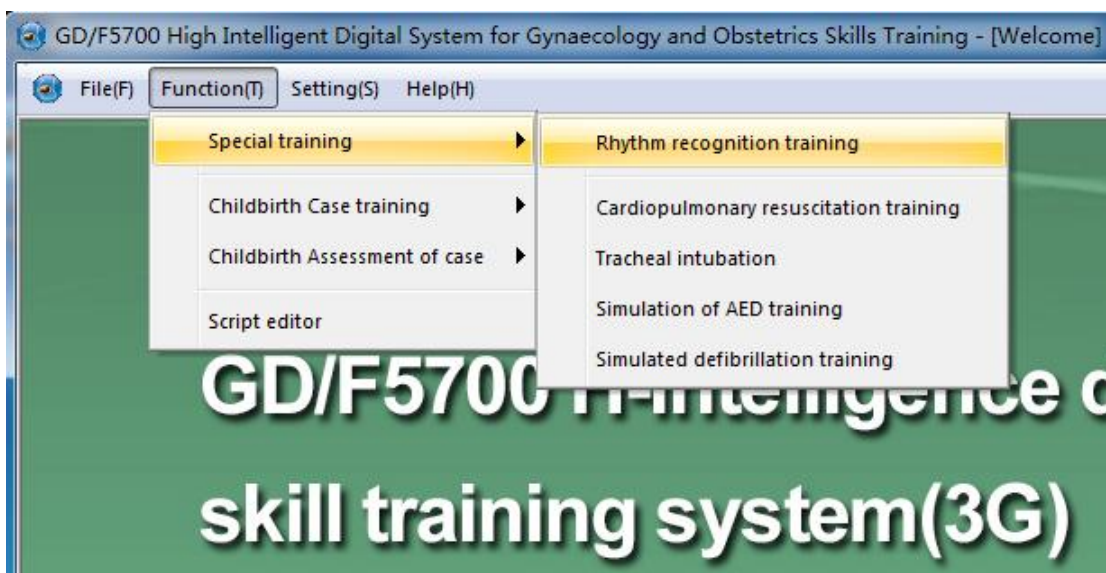
Function display are: it is the main part, which shows the main functions and parts of the system directly, including systematic course-ware, special skills training, system script operation, system settings and script editing.

1. Special training

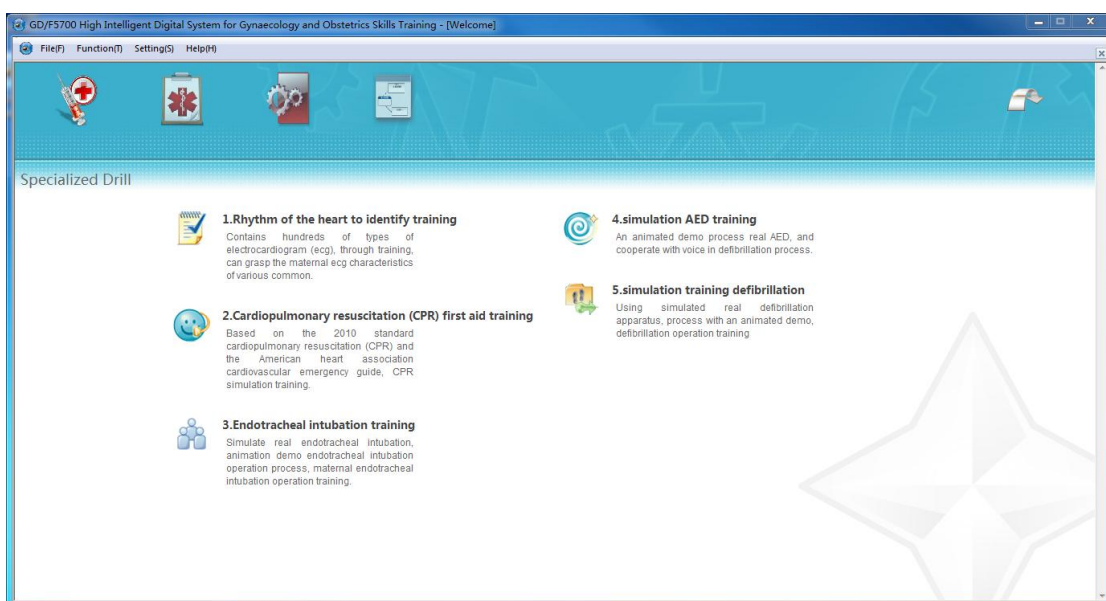


Method 1: click to enter the interface

Method 2: click “systematic functions- special skills training” to enter training part directly.



Special skills training interface is shown as follows:



Special skills training include training of identification of cardiac rhythms, delivery emergency theories practice, CPR emergency training, trachea cannula training, emulated AED training, emulated defibrillation training.

(1) Cardiac rhythms identification training

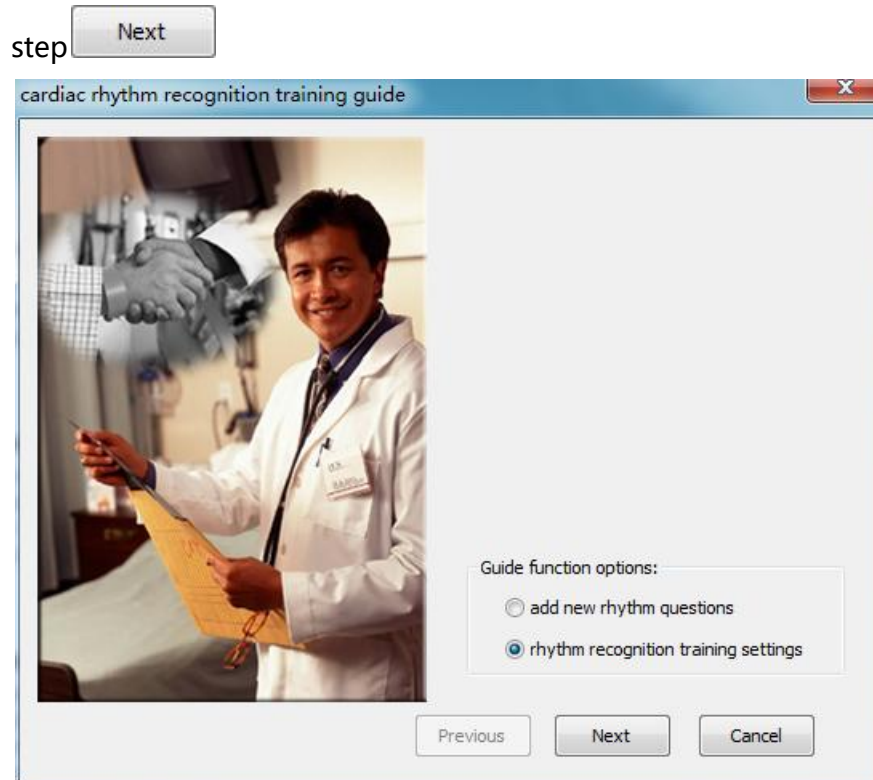
Click icon or text to enter cardiac rhythms identification training

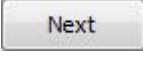


1.Rhythm of the heart to identify training

Contains hundreds of types of electrocardiogram (ecg), through training, can grasp the maternal ecg characteristics of various common.

- Select "setting of cardiac rhythms identification training" , click next



- Select corresponding test, click next step , then click finish

 to start test training.

cardiac rhythm recognition training guide

Test question list of cardiac rhythm recognition:

random eliminate

s...	name of cardiac rhythm	premature beats	heart r...
☒	1 A.flutt.4 : 1 conduction		75
☒	2 A.fib.		180
☐	A.fib.		60
☐	V.tach		180
☐	Torsade.de Pointes		0
☐	V.flutt.		150
☐	V.fibr		0
☐	1 degree AVB		60
☐	1 degree AVB	Unifocal PVC	50
☐	2 degree AVB Type-1 (3 : 2 con...		60
☐	2 degree AVB Type-1 (5 : 4 con...		75
☐	2 degree AVB Type-1 (5 : 4 con...	Unifocal PVC	75
☐	2 degree AVB Type-2		80
☐	2 degree AVB Type-2	Unifocal PVC	70
☐	3 degree AVB		40
☐	Death cardiac rhythm		0
☐	Sinus tachycardia		200
☐	Sinus tachycardia	Unifocal PVC	200

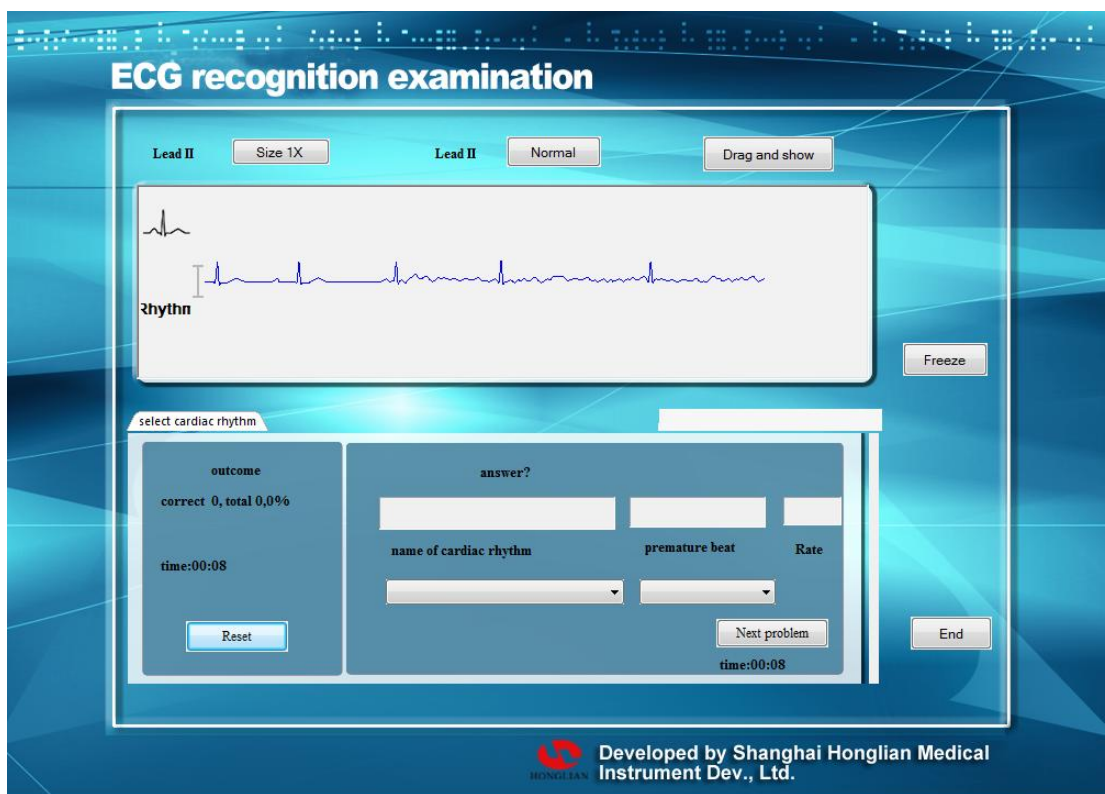
Previous Next Cancel

- Select “add new rhythm questions” , click next step

[illegible]

- Click  build new papers to set cardiac rhythms or select from existed papers , click add , click next step  and then click finish  to start test training.

- Delete papers. Select what you would like to delete, click delete  to delete the papers added.
- Training interface



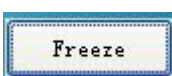
: It means the magnification times of electrocardiographic waves.



normal quicken: it means the playing speed of ECG is normal or quickened.



: it means the display method of ECG waves.



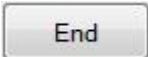
: freeze the ECG waves, the background will show electrocardiograph paper.



Reset: restart the training.

Left side shows training time. It is available to choose ECG name through

pull-down, click next , the right answer will be shown on

the answer bar, click  end to exit the training interface.

(2) CPR emergency training

- Click icon or text to enter CPR emergency training.



2. Cardiopulmonary resuscitation (CPR) first aid training

Based on the 2010 standard cardiopulmonary resuscitation (CPR) and the American heart association cardiovascular emergency guide, CPR simulation training.

- Three training methods

Self-operation practice: there is no requirement for the ratio of chest compression and artificial breathing.

Standard operation practice: Conduct 30 times of right

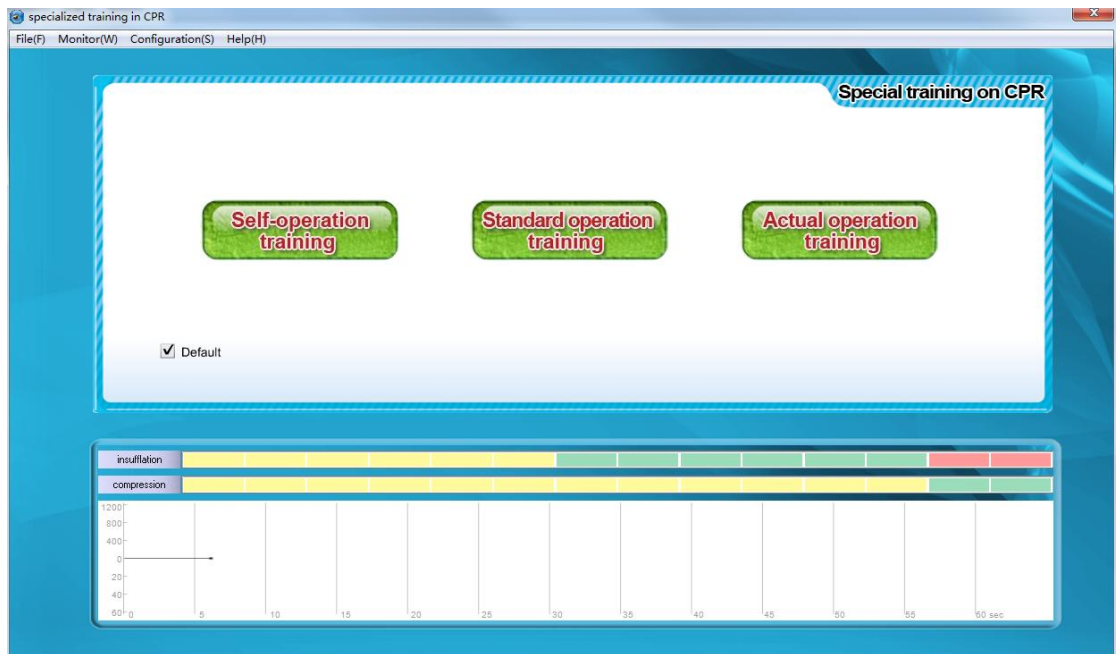
compression(Incorrect compression is invalid) at the ratio of 30 to 2 of chest compression and artificial breathing

Simulated operation practice: Conduct chest compression and artificial

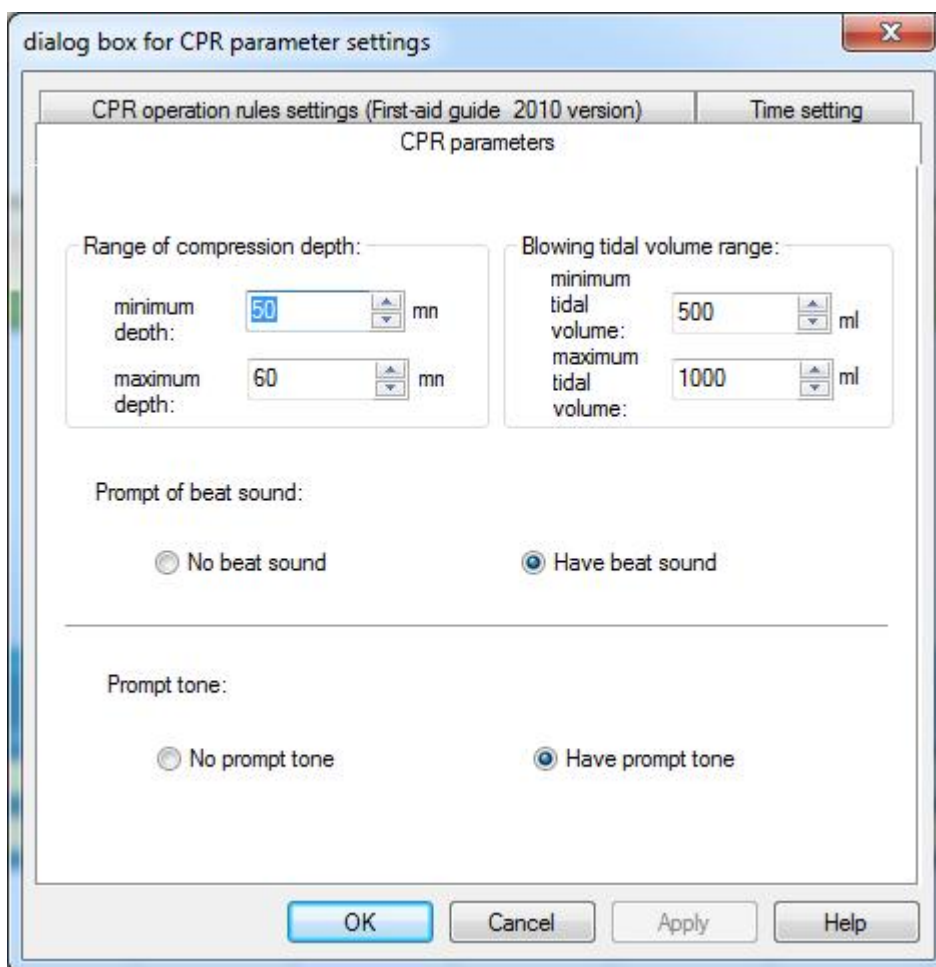
breathing at the ratio of 30:2. After 30 times of compression (correct or

incorrect compression times are valid), conduct 2 times of artificial

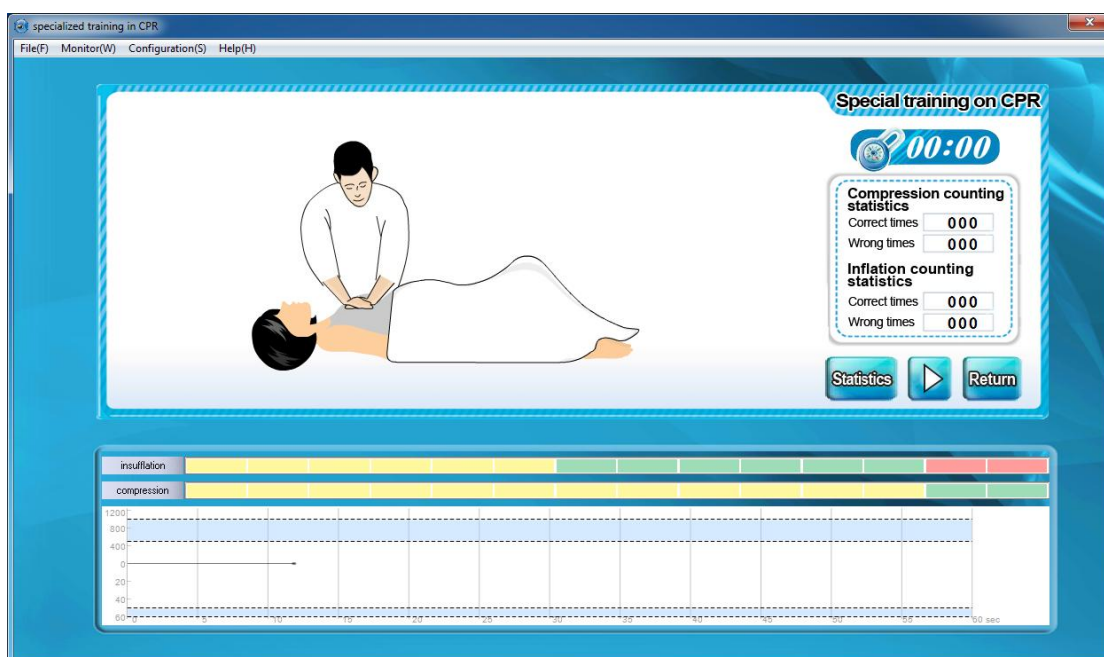
breaths (Both correct and incorrect are valid.)



Select any training method, default setting or set operating parameters consciously. The settings of parameters include compression depth, tidal volume of air-blowing and operating time.



➤ CPR interface





Click , initialize simulated human.

Conduct CPR on simulated human, there will be synchronous FLASH for demonstration.

Counting of compression and air-blowing: correct and incorrect compression times could be counted in according to compression depth. correct and incorrect times of air-blowing could be counted in according to volume of air-blowing.

Compression and air-blowing bar code: When air blowing is insufficient, correct and over, the bar code will become yellow, green and red respectively. When compression depth is too shallow or correct, bar code will become yellow or green.



Click to back to last interface.



Click to count the numbers. It is available to show students' name, grades, dates, etc. The statistics could be printed.

Cardiopulmonary resuscitation (CPR) operating statistics dialog

statistical table of CPR operation

Name: _____ Date: 11/8/2017 Teacher: _____ Result: _____

statistical report:

compression speed/min.:	0	times/min.	Average blowing volume:	0	ml
average compression times/min.:	0	times/min.	blowing volume per minute:	0	ml
average compression depth:	0	mm	times per minute:	0	times
total correct times of compression:	0	times	total correct times of blowing:	0	times
total incorrect times of compression:	0	times	total incorrect times of blowing:	0	times
too deep compression:	0	times	excessive blowing:	0	times
too shallow compression:	0	times	insufficient blowing:	0	times
incomplete release during compression:	0	times	inflate into stomach:	0	times
wrong compression position:	0	times	closed airway:	0	times
position too low:	0	times	other mistakes in blowing:	0	times
position too high:	0	times			
position too far to the right:	0	times			
position too far to the left:	0	times			
other mistakes in compression:	0	times			

(3) Tracheal intubation training

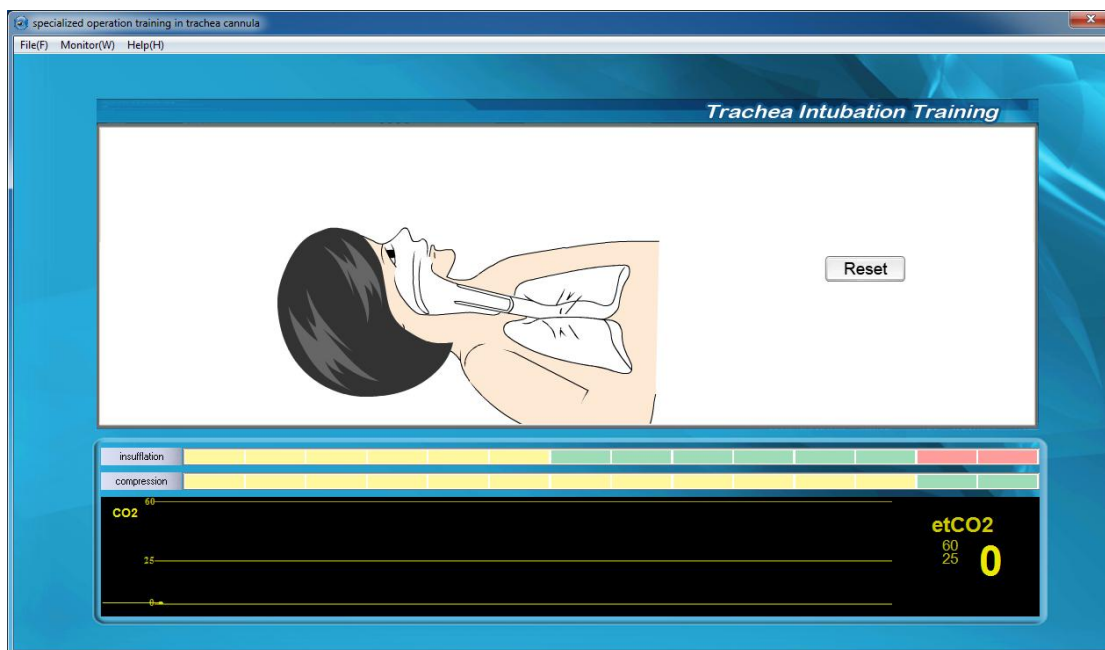
- Click icon or text to enter tracheal intubation training.



3.Endotracheal intubation training

Simulate real endotracheal intubation, animation demo endotracheal intubation operation process, maternal endotracheal intubation operation training.

- Tracheal intubation interface is shown as follows: conduct tracheal intubation on simulated human, FLASH synchronous operating demonstration will be shown on the interface. The position of tracheal intubation and ventilation effects will be displayed as well.



- Click reset to restart tracheal intubation training.

(4) simulated AED training

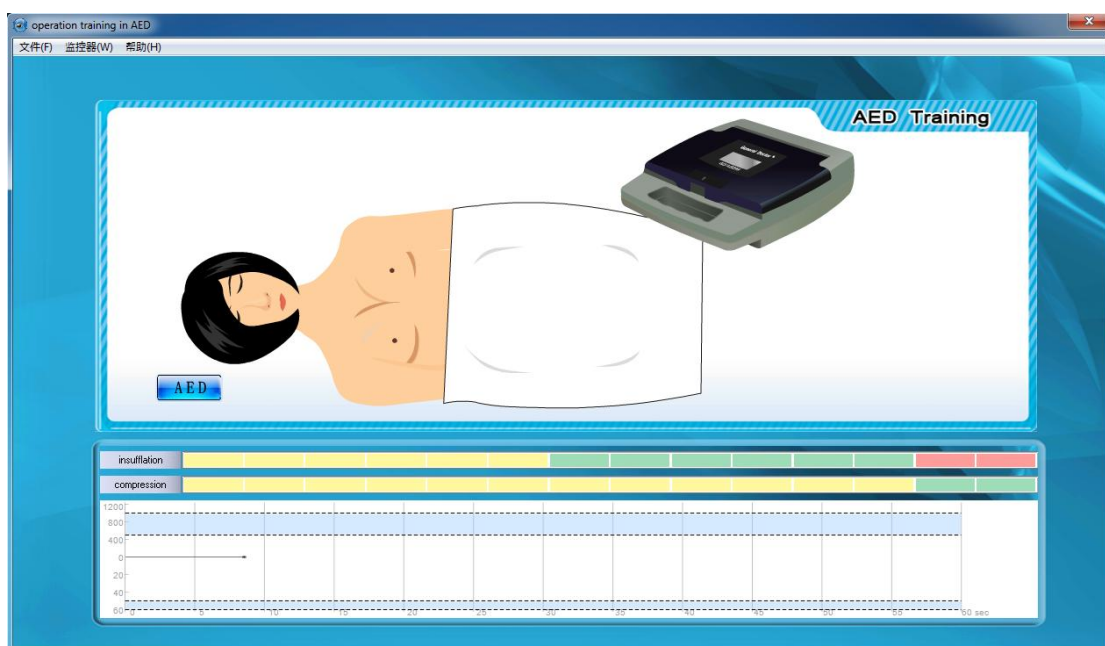
- Click icon or text to enter simulated AED training.



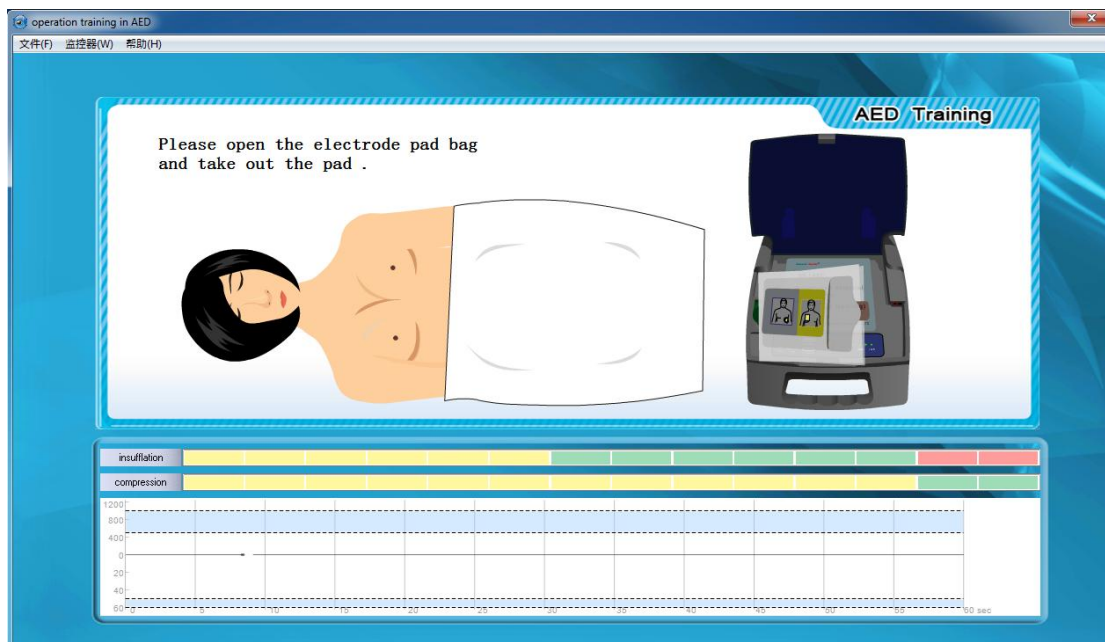
4.simulation AED training

An animated demo process real AED, and cooperate with voice in defibrillation process.

- Simulated AED training interface is shown as follows:



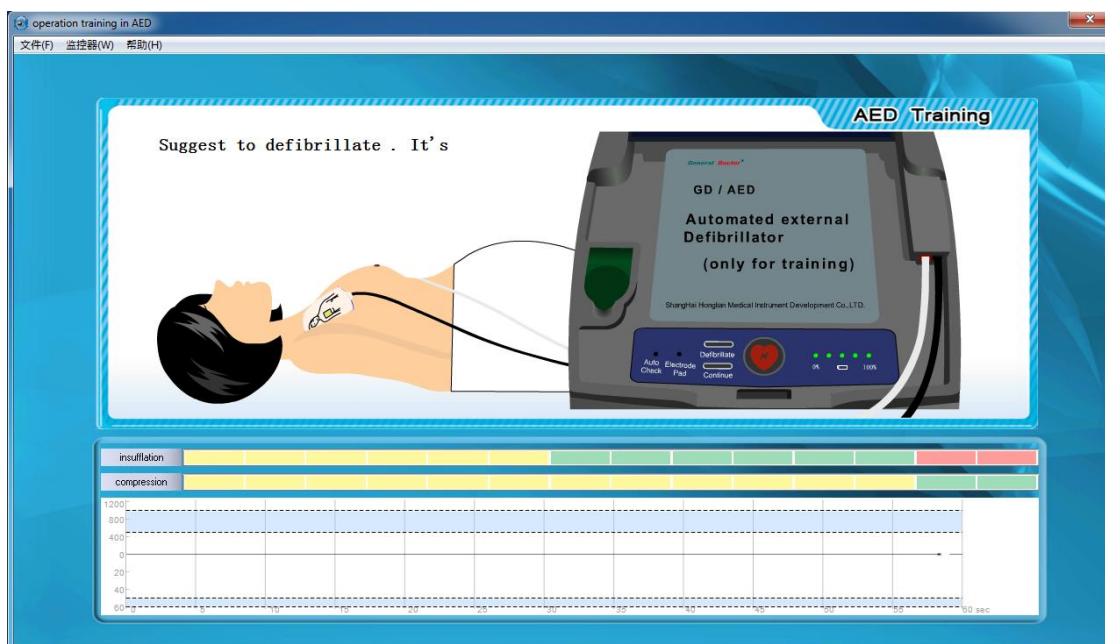
- Click  to start operation. Chinese voices and matching text will be showed in the whole procedure to prompt.



- AED automatically analyze heart rate and charge, use mouse to click



to discharge, and then defibrillation is over.



- The ECG will change correspondingly if being connected with real monitor.

(5) Simulated defibrillation training

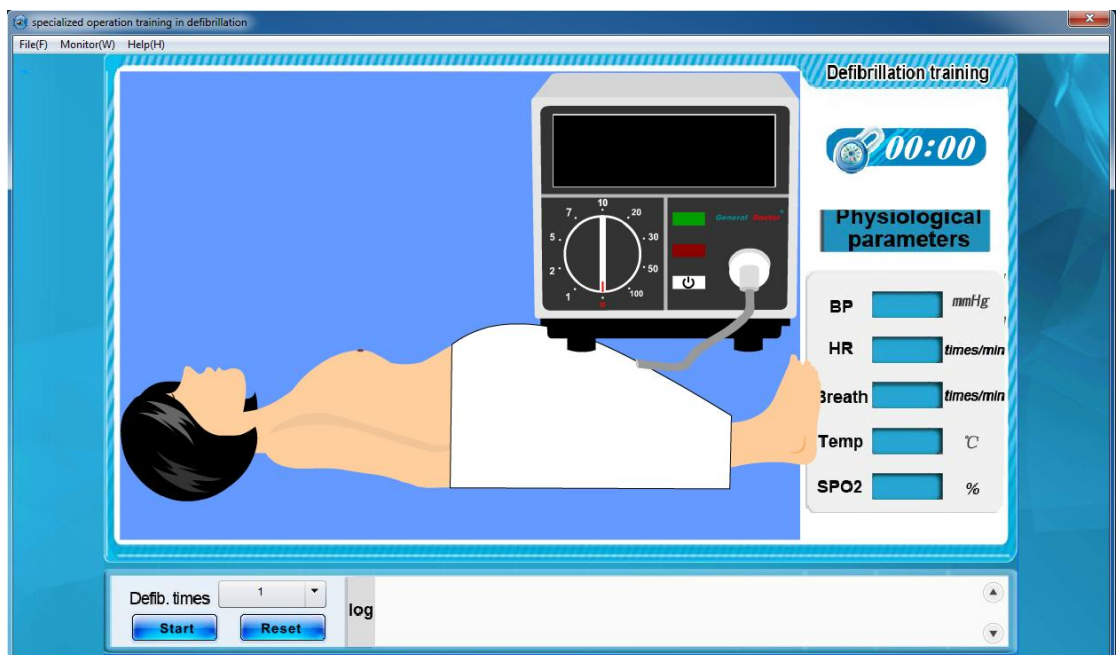
- Click icon or text to enter simulated defibrillation training.



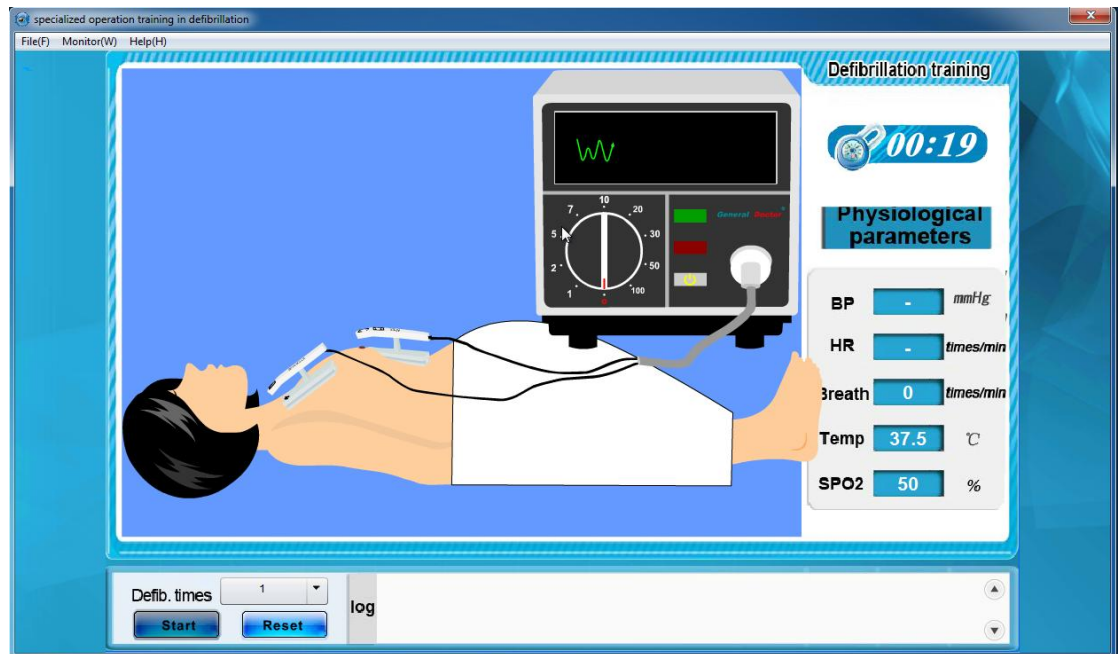
5.simulation training defibrillation

Using simulated real defibrillation apparatus, process with an animated demo, defibrillation operation training

- Simulated defibrillation training interface is shown as follows:



- Set defibrillation times. Click "Start" to start operating.
- Click the power switch of defibrillator to turn on the defibrillator and select the defibrillation energy.



- The log records specific operating procedure, click "Reset" to recover to initial status.

2. System script operation

(1) Professional delivery cases training

System provides 14 cases to demonstrate the methods to use of the system.

Users are able to choose inbuilt cases or edit script consciously. The editing method of script will be shown in "Script editing software" .

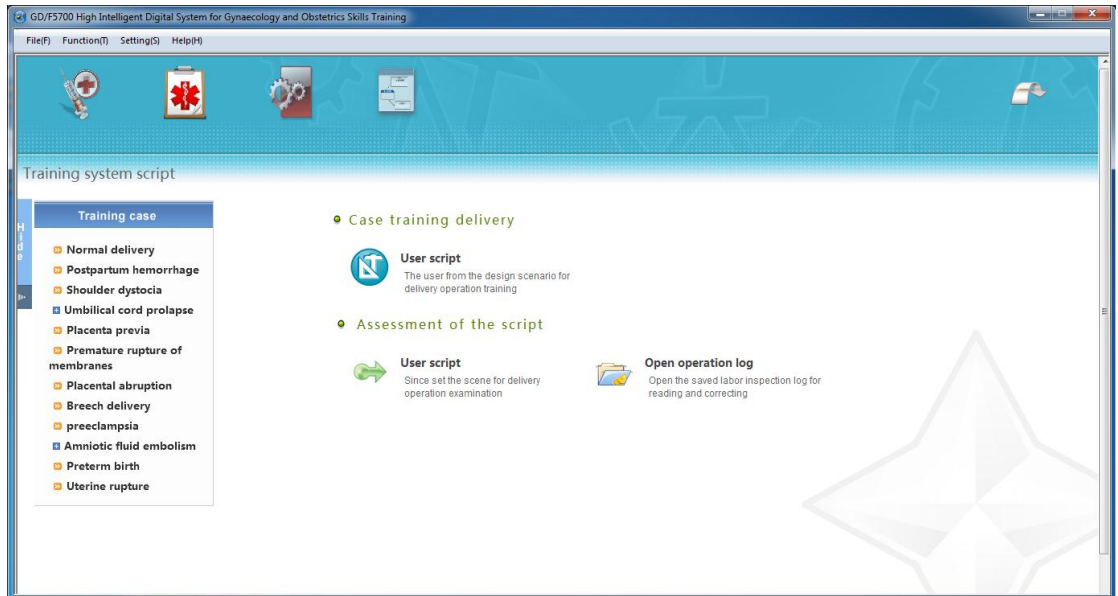
Methods to open system script training:



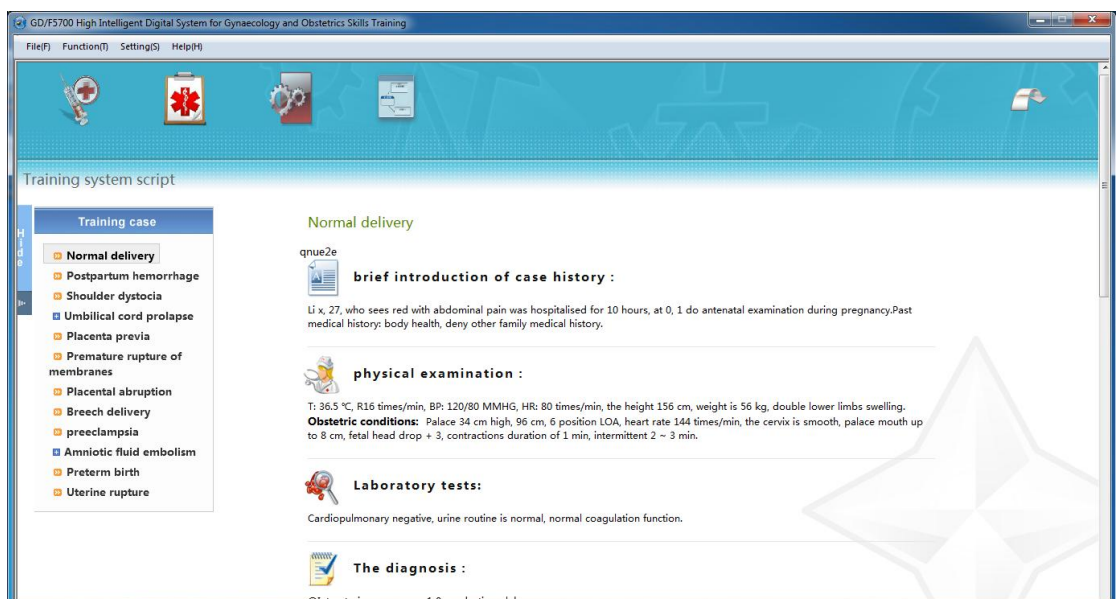
- Method 1: click the icon of  in the function interface to enter system script training. Select the cases on the left side bar or click



to open the script to edit consciously for users.



Enter cases brief introduction, including medical history, physical examination, laboratory examination, diagnosis result, study goals and script procedure.



Script procedure introduces the operating logic of this case, detailed content of each scene and recommended treatments.



script process:



labor	state	Event measures	note
initial state	T/P/R/BP: 36.5-80-16-120/80 FHR:144 initial state position:LOA Presentation position : S+3 Contractions features: 3 min / 60 SEC/medium	Assess mental status Check the anus Assessment of heart rate Evaluation of the contractions	Voice: pregnant women moan (weak)
At the end of the first labor	T/P/R/BP : 36.5-80-20-128/80 FHR : 144 Features: medium variation Contractions features: 2 min / 70 SEC/strong	Evaluation of the contractions Assessment of heart rate Evaluation of palace mouth up	Voice: pregnant women moan (in)
second labor	T/P/R/BP : 36.5-80-20-128/80 FHR : 144 Characteristics: medium variation, early slowdown Contractions features: 2 min / 70 SEC/strong	Evaluation of the contractions Assessment of heart rate perineum incision	Voice: pregnant women moan (high) Fetal head dial the dew, the champions league
third labor postpartum	T/P/R/BP : 36.5-80-18-124/80 Bleeding: a small amount	Methods stripping the placenta Evaluation of the placenta Evaluation of blood loss Evaluation of fundus height	Pregnant women voice: no Hardness of the uterus: hard Using indentation GongSuiJing drops

Script Test

Script Training

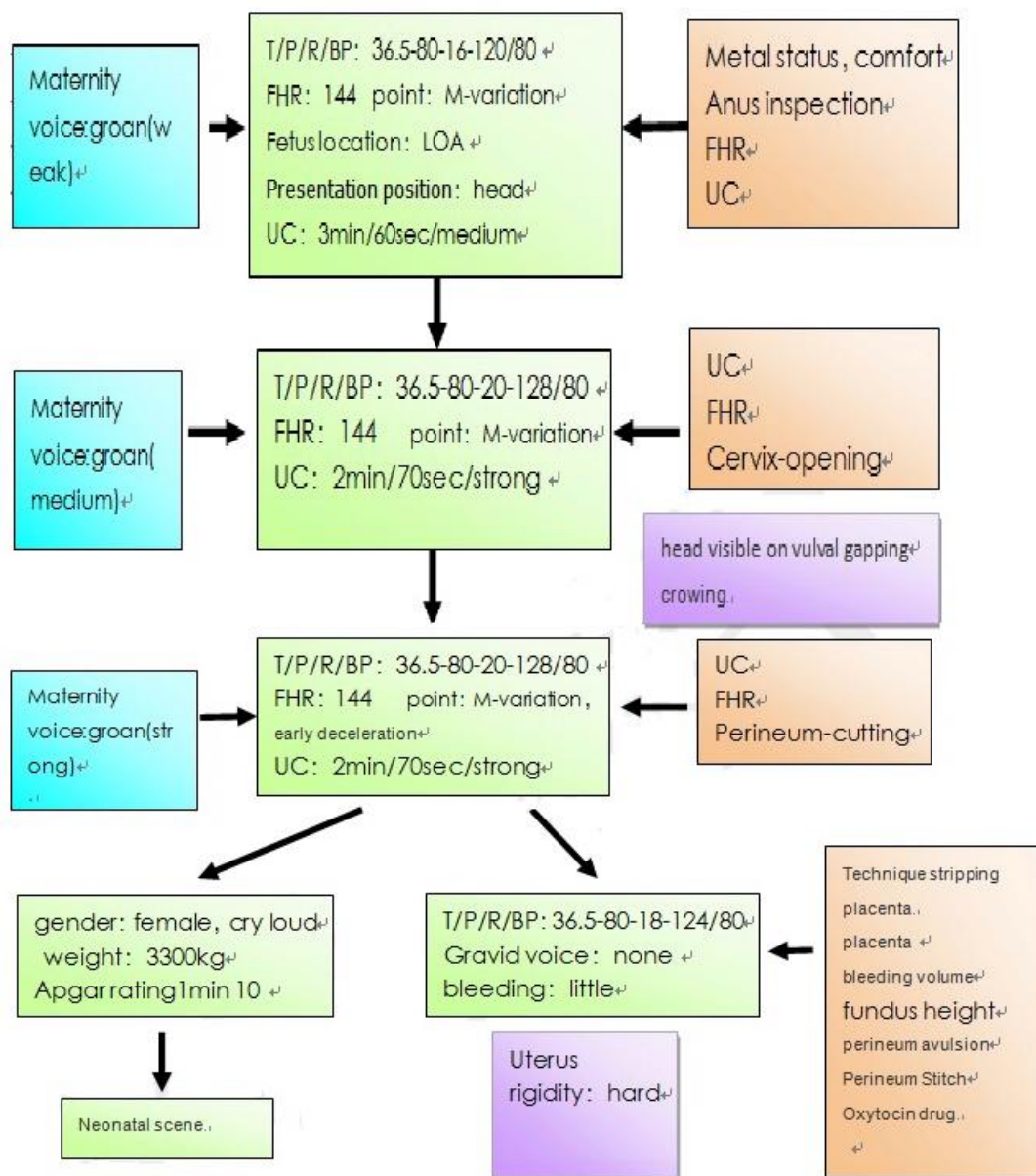


Click icon of  on the right corner to show the case graph of script.

Click it again to close the case graph.



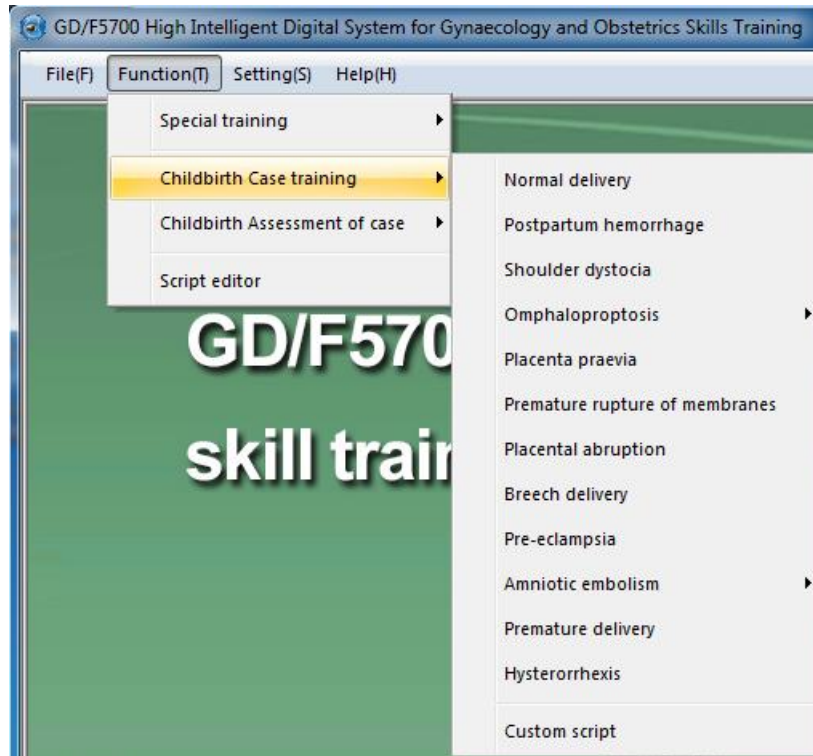
script process:



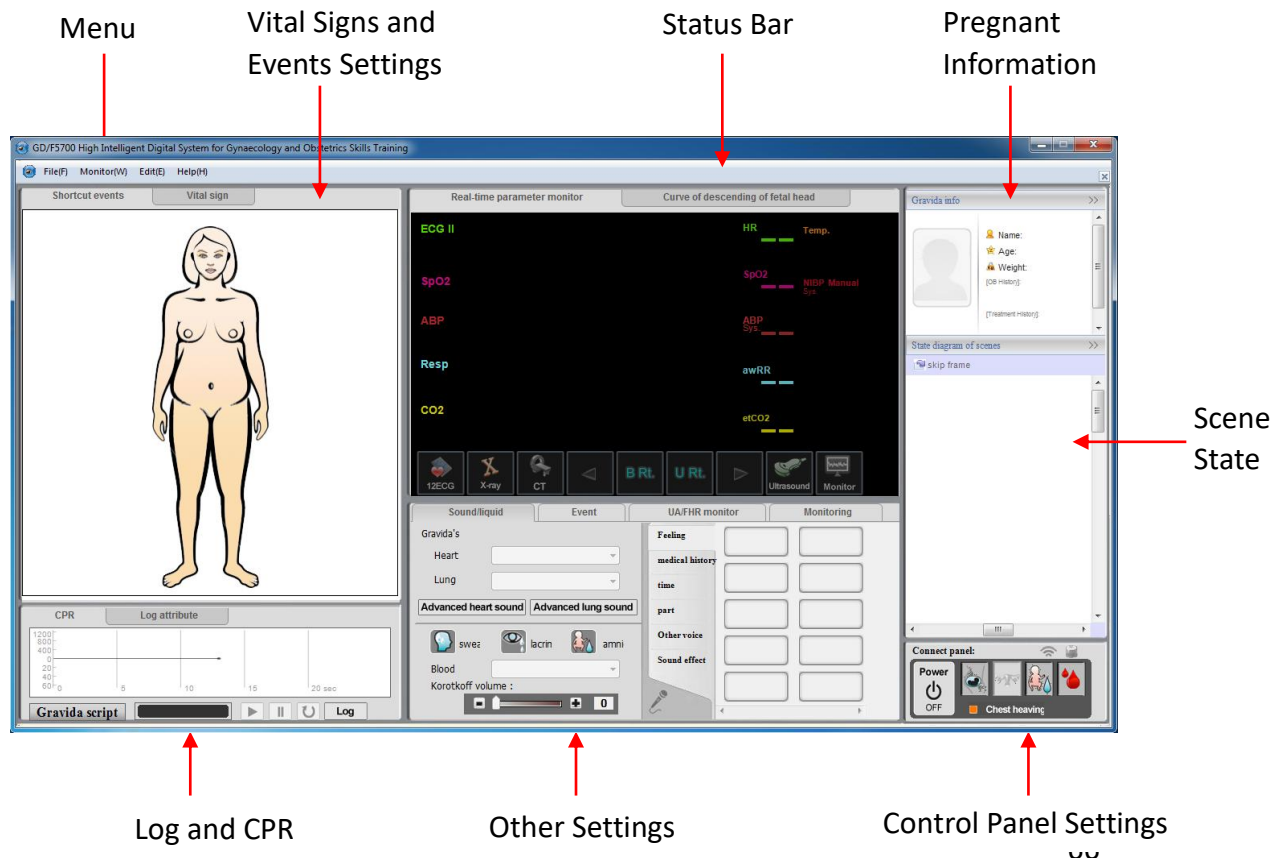
Click "Script training" to enter training mode.

- Method 2: click "System functions→professional delivery cases training" , select the case script you want or edit the script by yourselves to enter professional delivery case training interface. Take "normal delivery" as

an example:



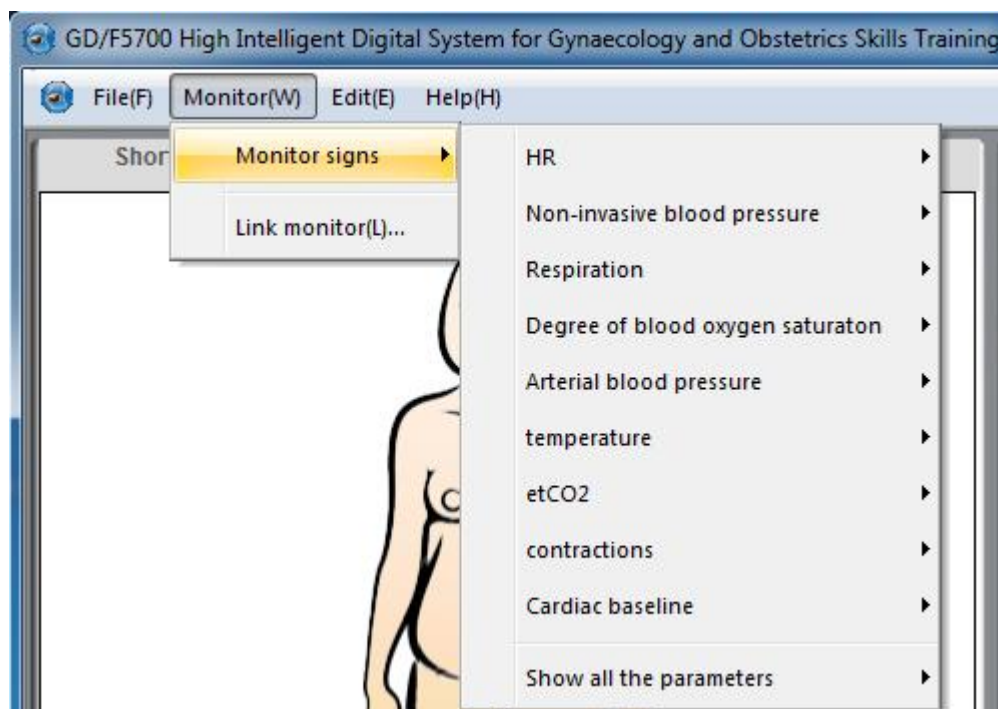
➤ Normal delivery case training interface is shown as follows:



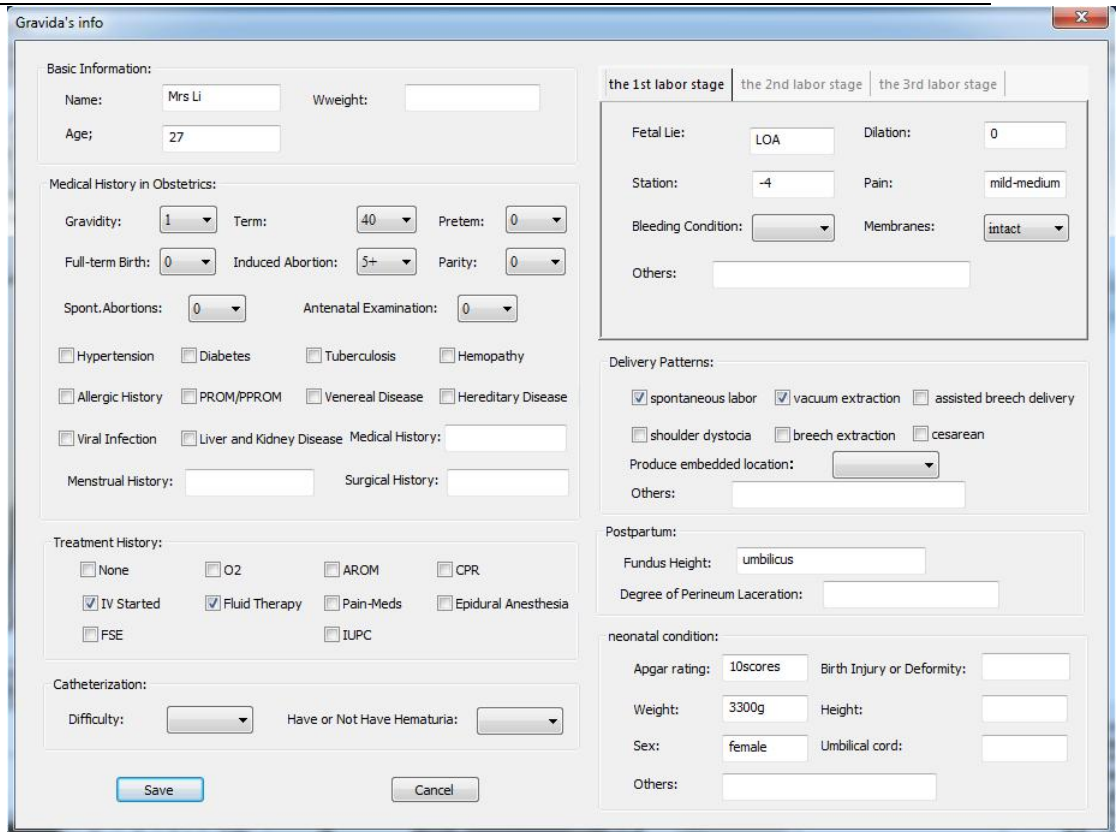
- Menu bar: include file, monitor, edit and help.

Click "File" to back to the main interface.

Click "Monitor" to show every parameters of vital signs of simulated human in the status bar. It is also available to connect virtual monitor and vital signs parameters will be showed on the monitor.



Click "Edit" " Case introduction" to pop up the dialogue box of the basic information of gravida.



Gravida's info

Basic Information:
 Name: Mrs Li Wweight:
 Age: 27

Medical History in Obstetrics:
 Gravidity: 1 Term: 40 Preterm: 0
 Full-term Birth: 0 Induced Abortion: 5+ Parity: 0
 Spont. Abortions: 0 Antenatal Examination: 0
☐ Hypertension ☐ Diabetes ☐ Tuberculosis ☐ Hemopathy
☐ Allergic History ☐ PROM/PPROM ☐ Venereal Disease ☐ Hereditary Disease
☐ Viral Infection ☐ Liver and Kidney Disease Medical History:
 Menstrual History: Surgical History:

Treatment History:
☐ None ☐ O2 ☐ AROM ☐ CPR
☒ IV Started ☒ Fluid Therapy ☐ Pain-Meds ☐ Epidural Anesthesia
☐ FSE ☐ IUPC

Catheterization:
 Difficulty: Have or Not Have Hematuria:

the 1st labor stage the 2nd labor stage the 3rd labor stage
 Fetal Lie: LOA Dilation: 0
 Station: -4 Pain: mild-medium
 Bleeding Condition: Membranes: intact
 Others:

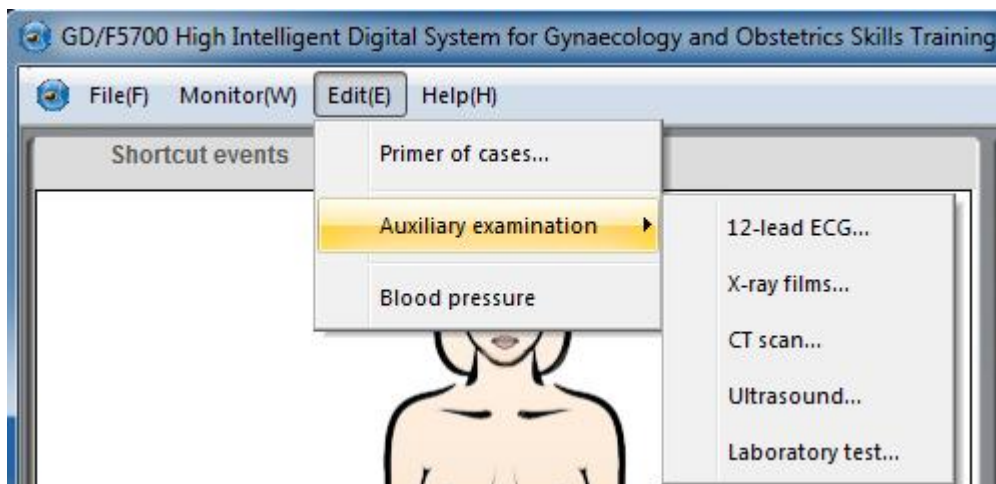
Delivery Patterns:
☒ spontaneous labor ☒ vacuum extraction ☐ assisted breech delivery
☐ shoulder dystodia ☐ breech extraction ☐ cesarean
 Produce embedded location:
 Others:

Postpartum:
 Fundus Height: umbilicus
 Degree of Perineum Laceration:

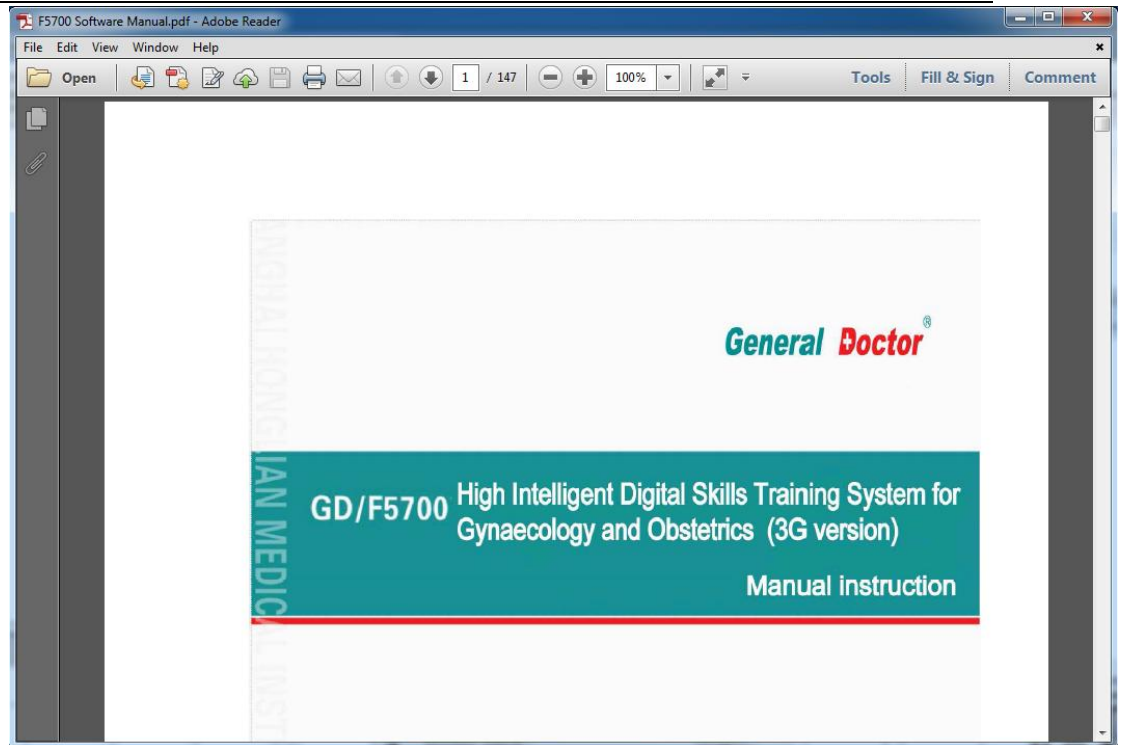
neonatal condition:
 Apgar rating: 10scores Birth Injury or Deformity:
 Weight: 3300g Height:
 Sex: female Umbilical cord:
 Others:

Save Cancel

Click "Edit" " Auxiliary examination" to select different examination items and corresponding dialogue box of check will pop up.

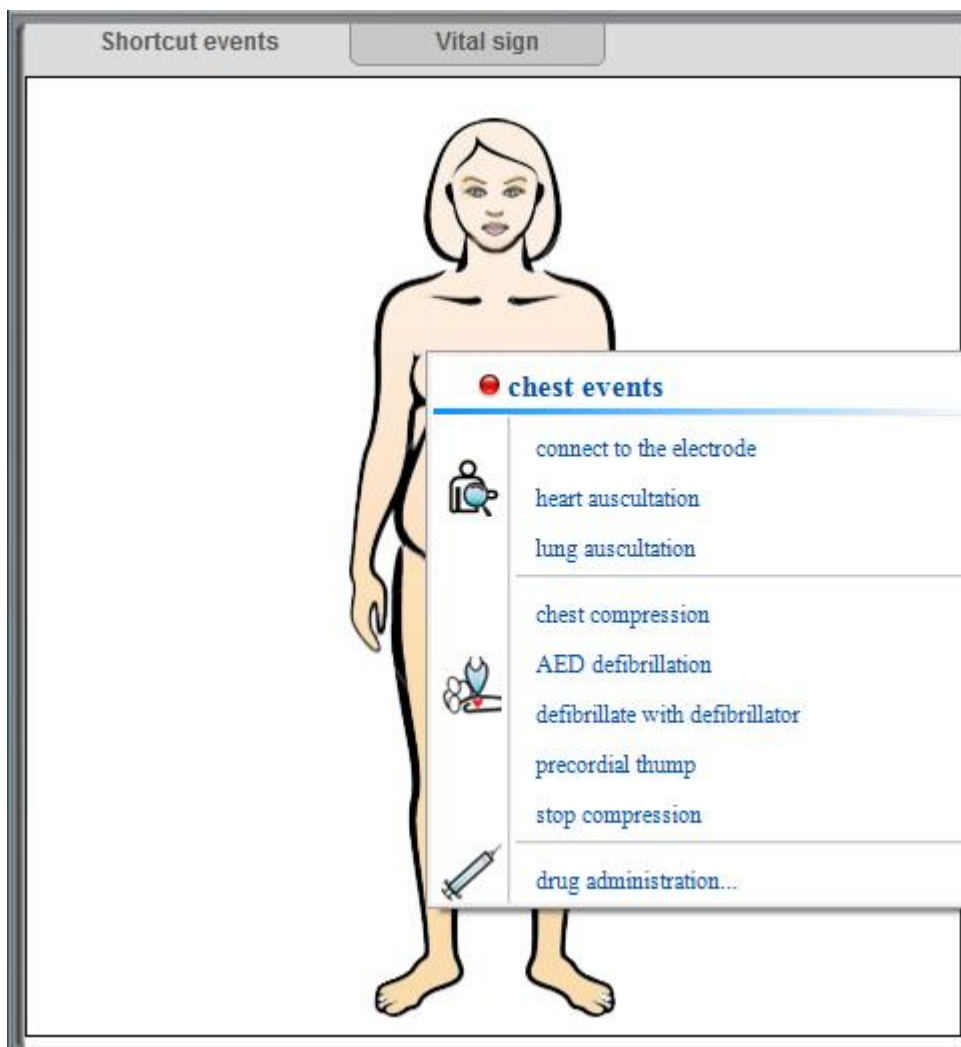


Click "Help" " Help Guide" , manual instructions will be popped up.



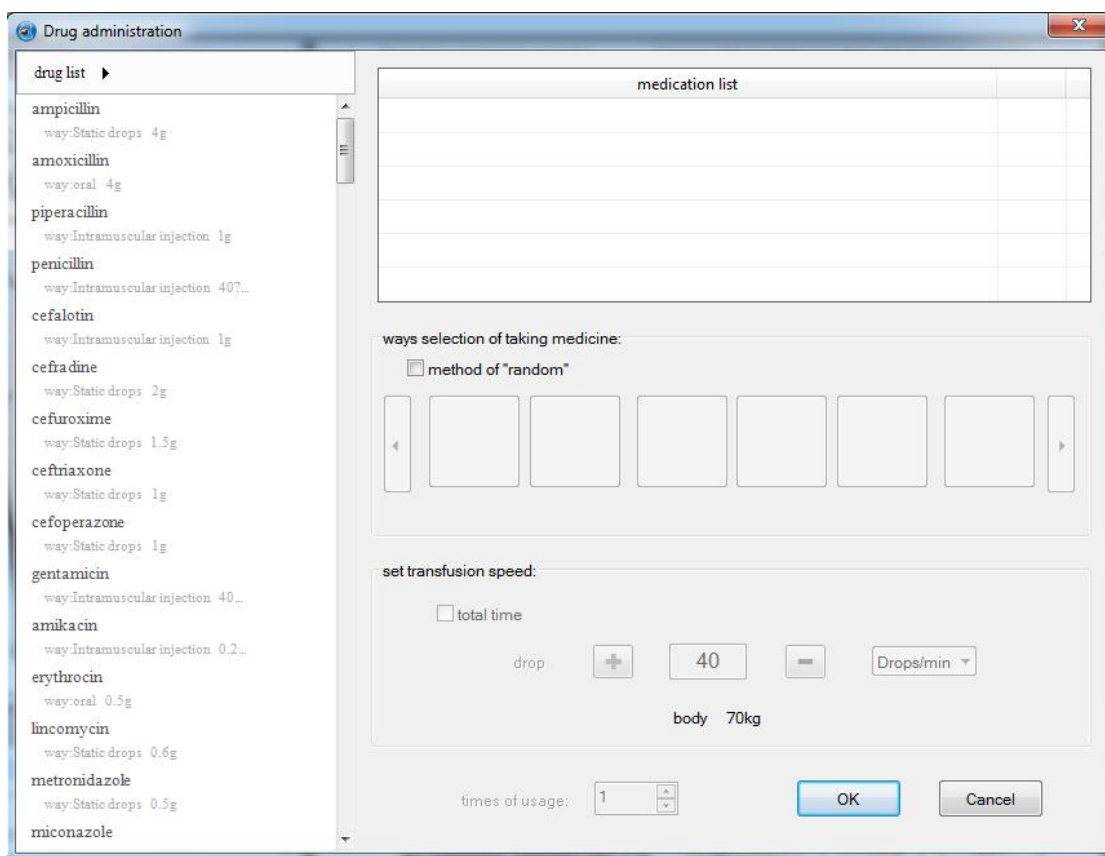
➤ Signs event setting

Shortcut event: divide human body into seven parts: head, neck, chest, abdomen, pelvis, upper limbs and lower limbs. When putting mouse on some part, the color of this part will be deepened. Event dialogue box will appear if we click it, which enables us to select different events.

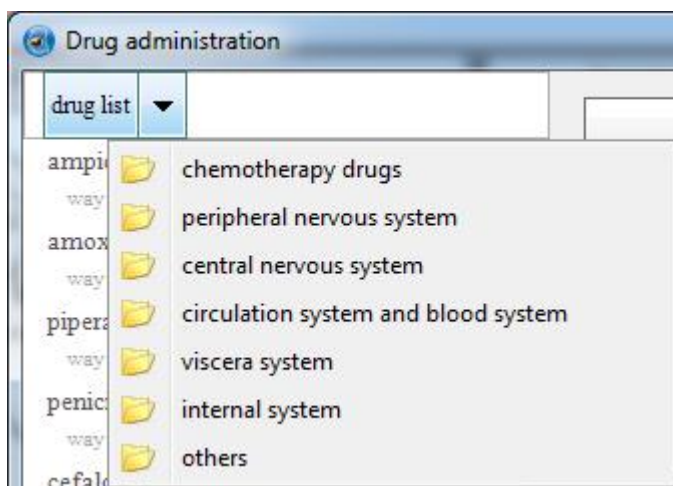


Take administration as an example:

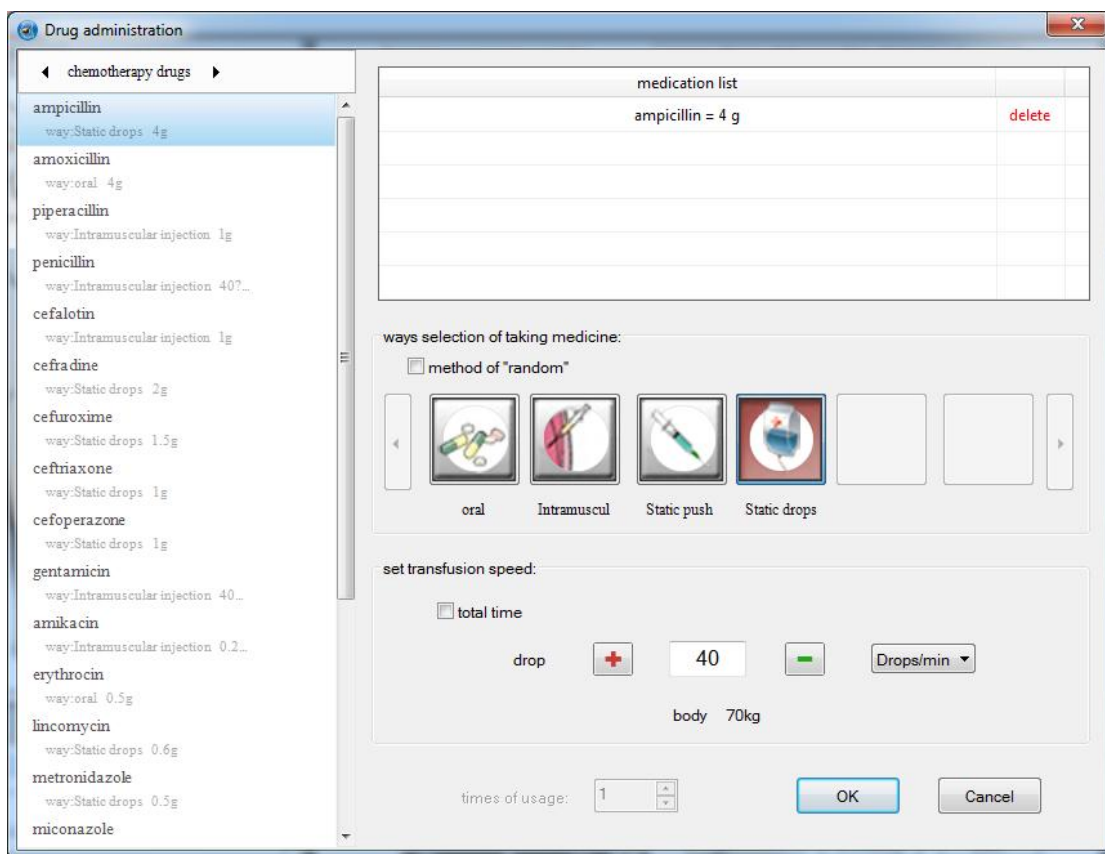
When clicking some part with the mouse and click administration,
administration dialogue box will appear as follows.



The left side is the drug list, which could be selected in according to different systems.



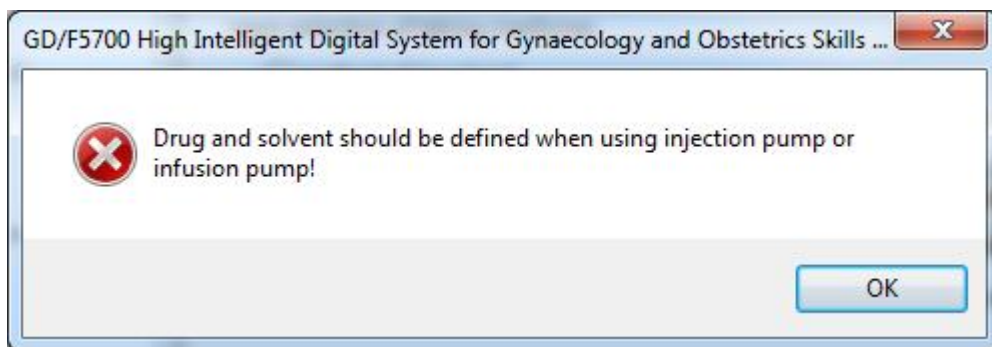
Select the drugs you are going to use, like Amoxicillin. Click the drug name, the drug will shown in the drug list. Multiple drugs could be selected.



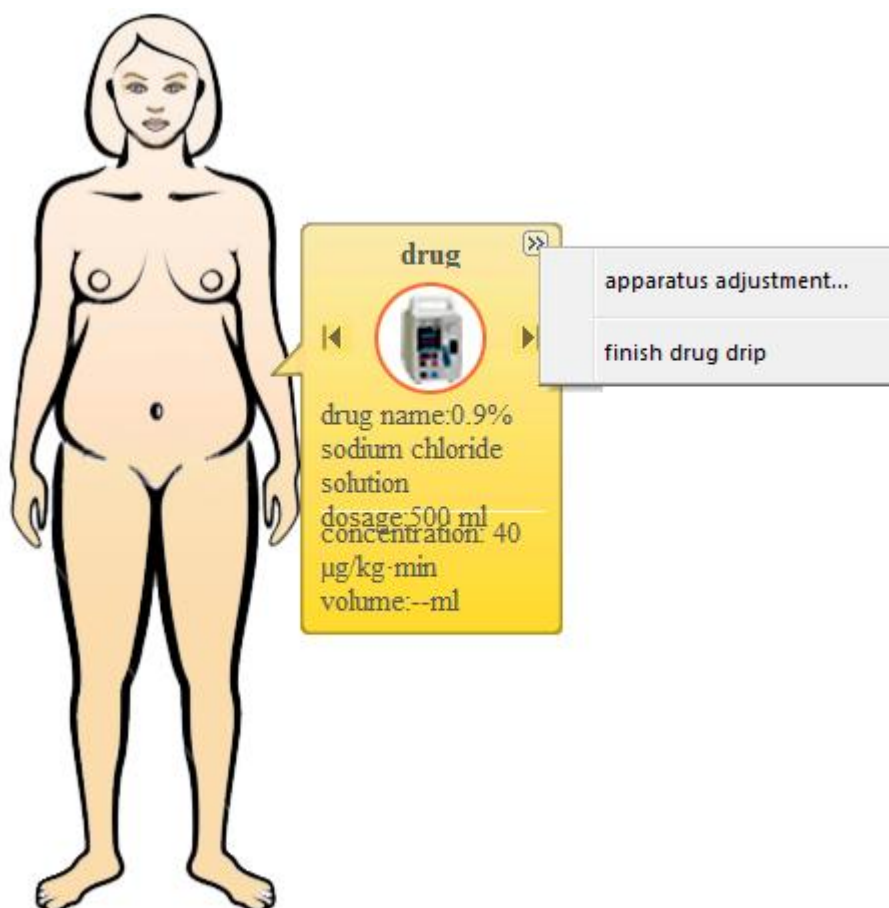
Select administration routes. If selecting intravenous injection, dripping velocity could be set. There are two methods of setting, including time setting and velocity setting.



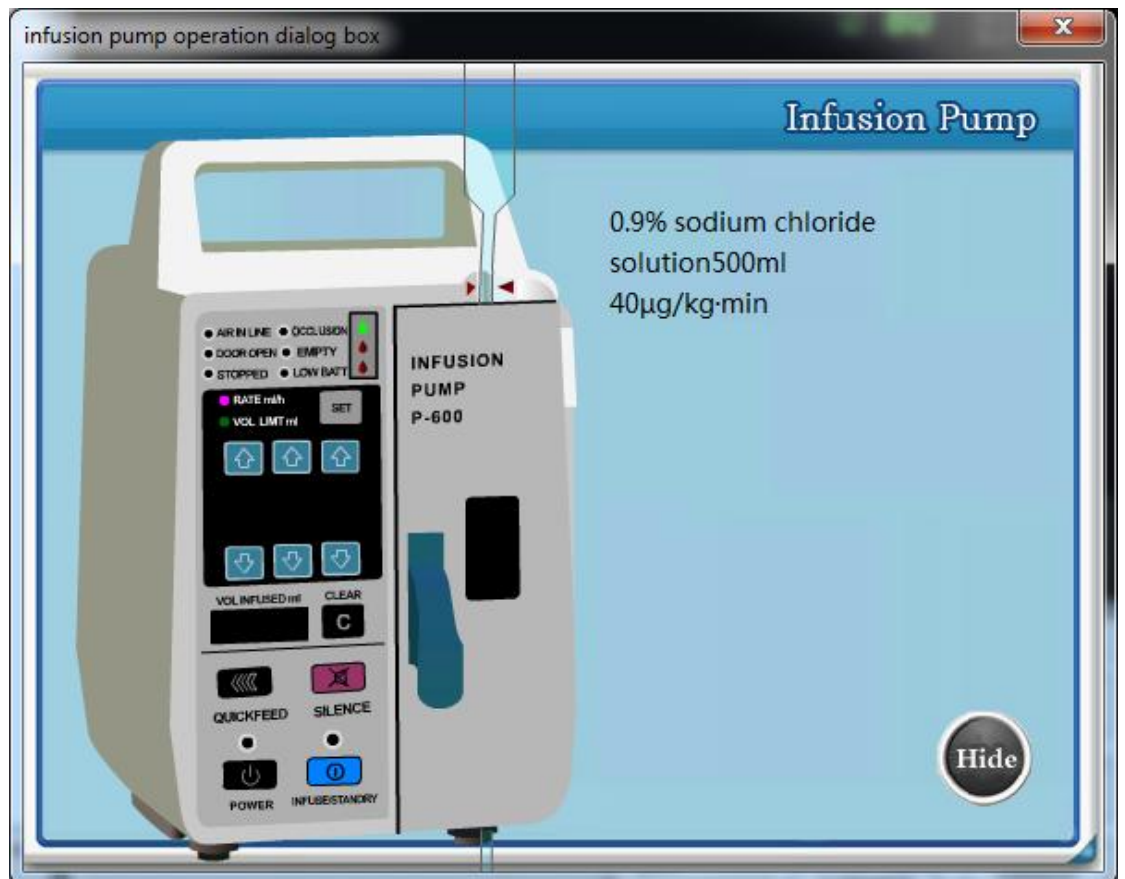
If infusion pump is selected, we firstly choose drug and dose. If selection is incorrect, the software will prompt the users to choose the correct one,



After selection of drug, it is available to instrument directly on the interface.



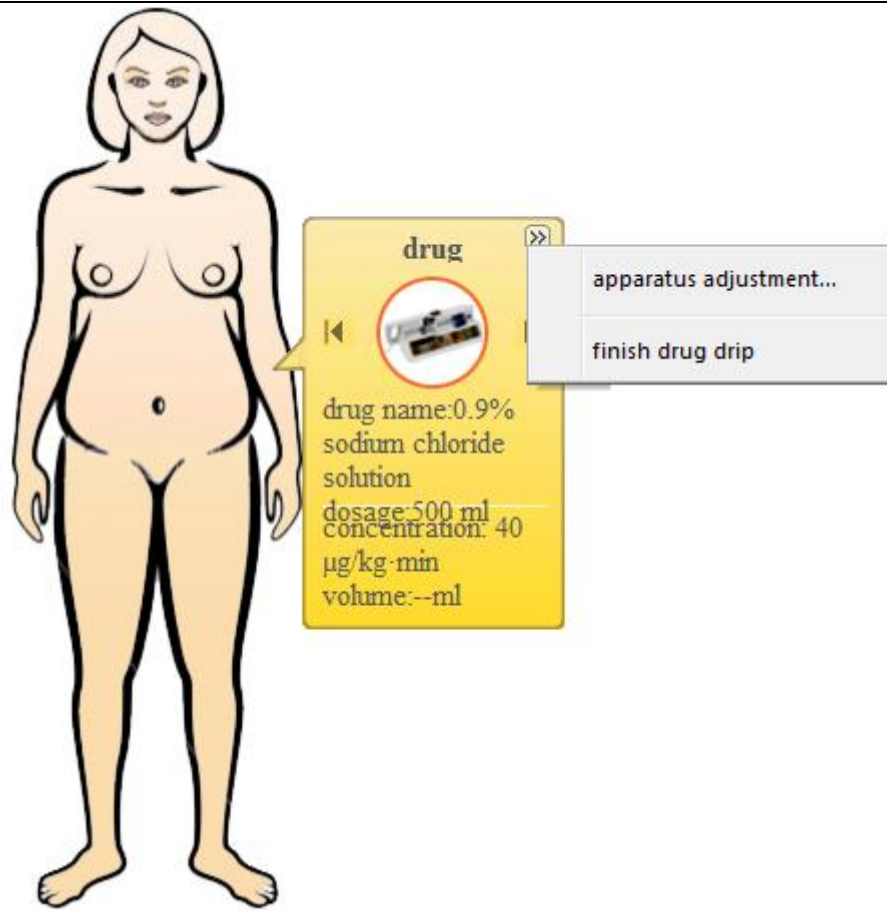
Select "Instrument adjustment" to set the administration speed. Hide the operating dialogue box of infusion pump after completing the setting.



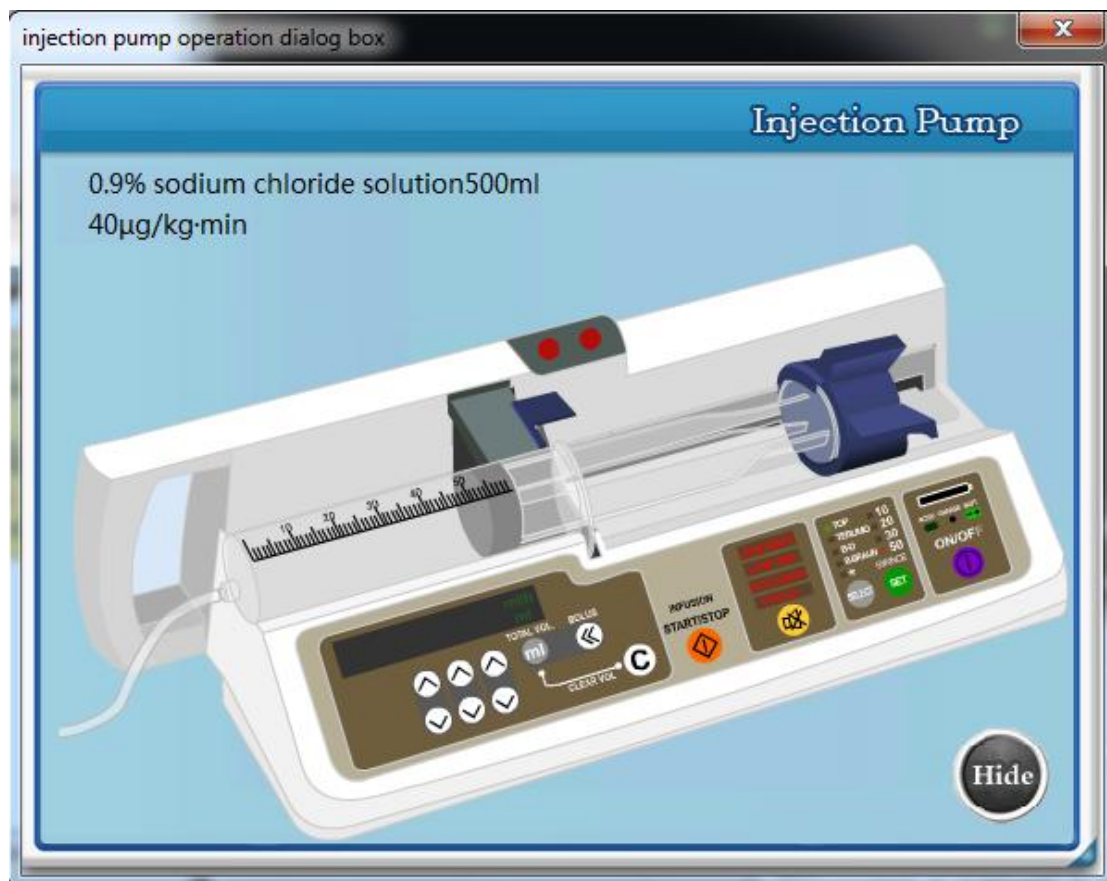
Infusion speed and total volume will be displayed directly on the interface after completing the setting.

0.9% sodium chloride
solution 500ml
40µg/kg·min

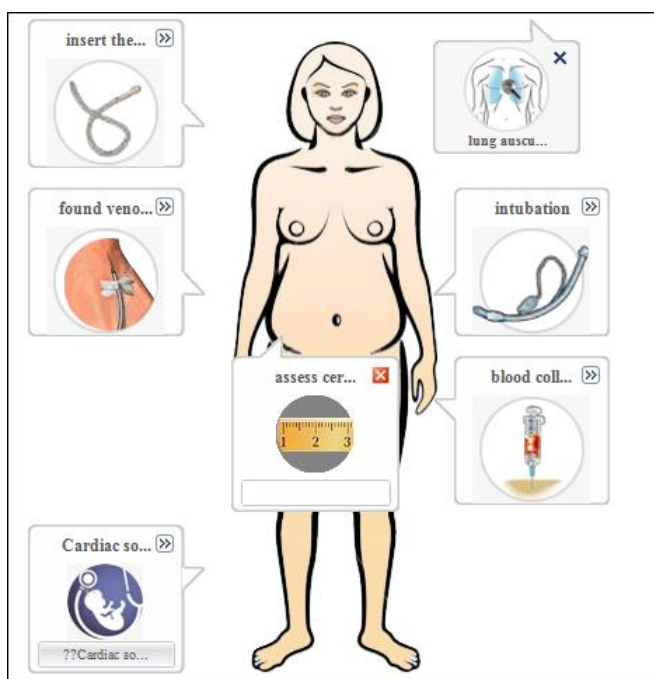
If selecting injection pump to administrate, it is available to set speed of drug administration directly.



Select "Instrument adjustment" to set administration speed. Hide the dialogue box of infusion pump operation of infusion pump after completing the setting.

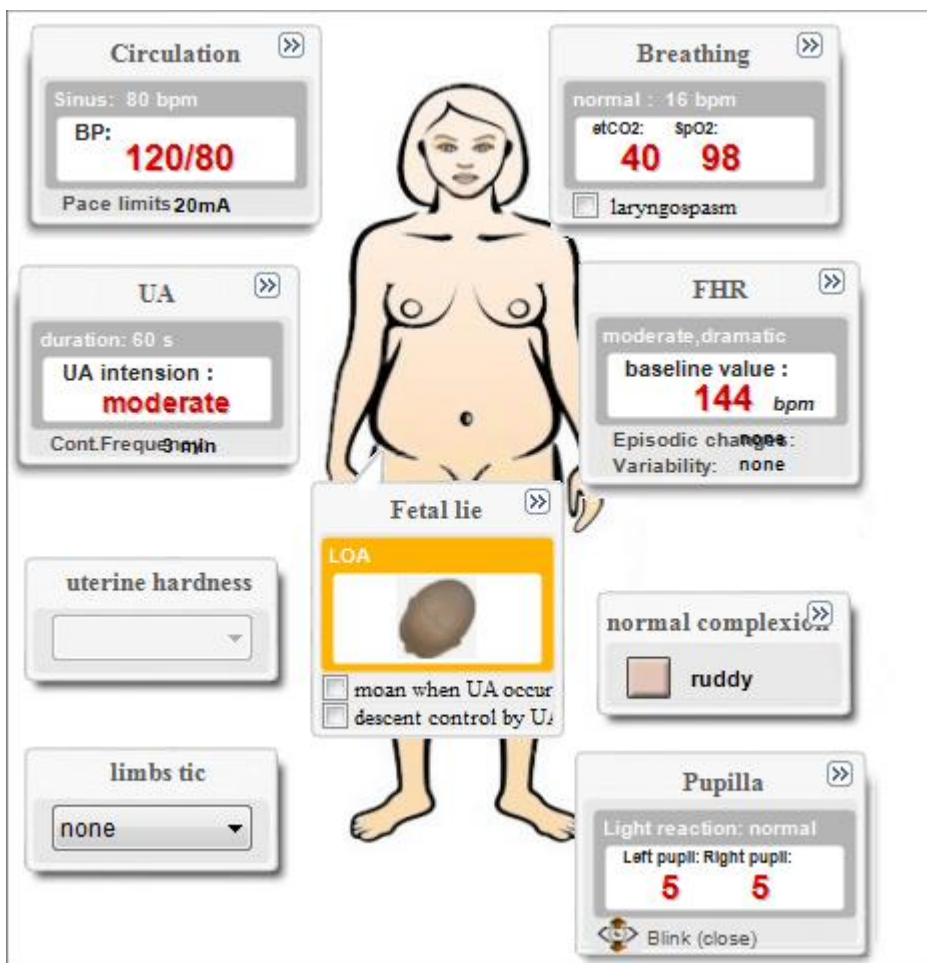


Besides, tracheal intubation, defibrillation, fetal heart rate assessment and arterial blood sampling can be set directly on the interface.

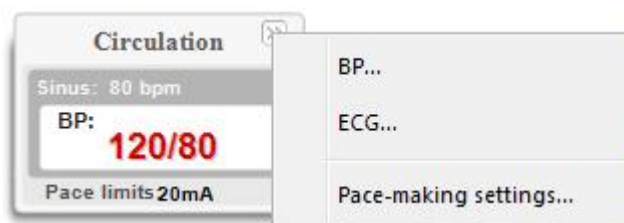


Vital signs: It is available to change or set the vital signs of simulated human, including

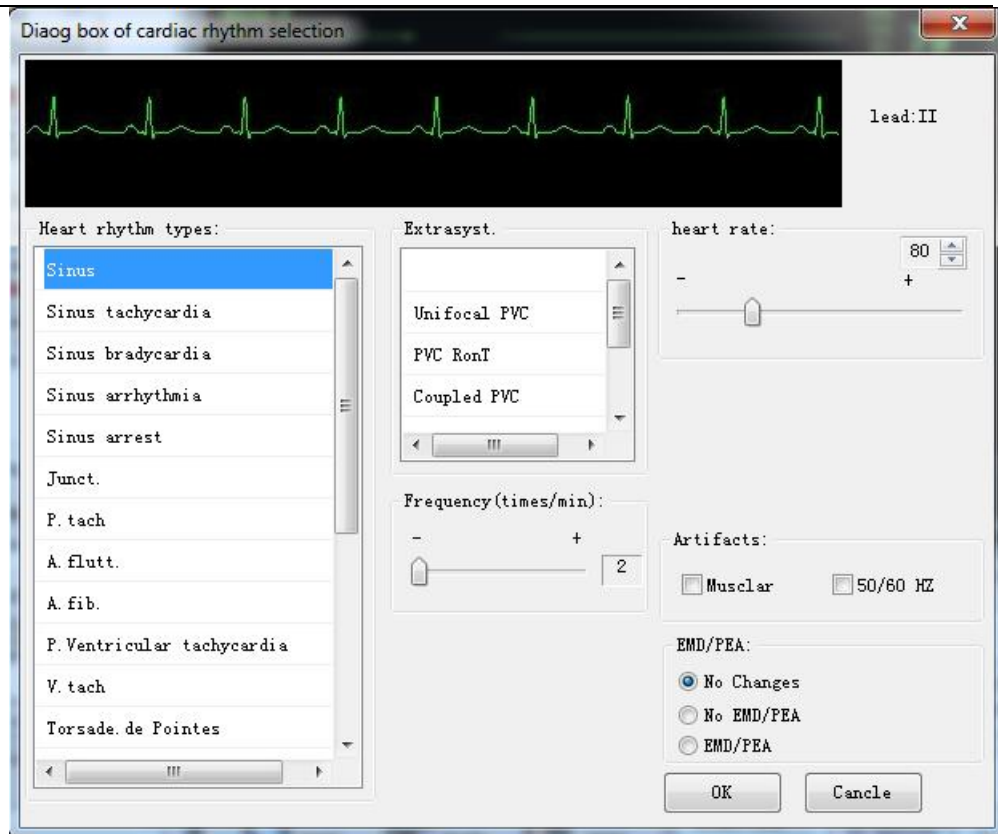
cycle, breath, uterine contraction, fetal heart rate, hardness of uterus, complexion, convulsion, fetal position and pupilla.



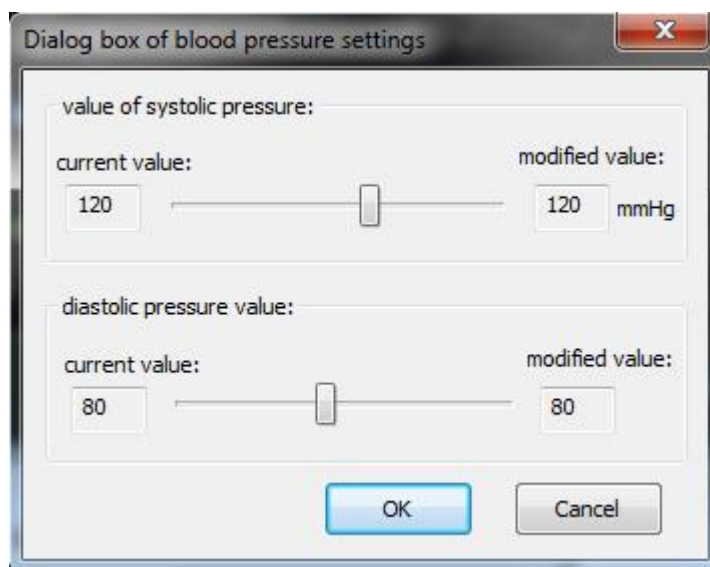
Cycle setting: click >> to set parameters. The parameters already set will be shown on the interface, as picture shows:



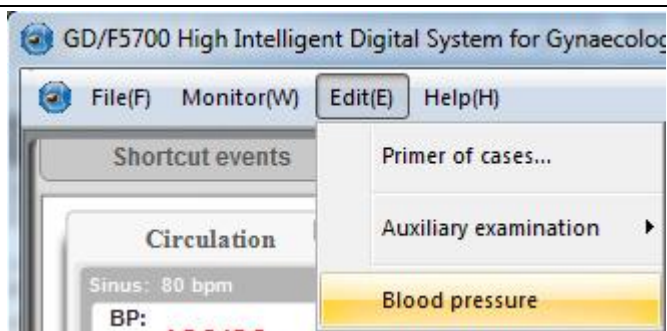
Select heart rate, dialogue box of heart rate setting will be popped up and then it could be set.



Select blood pressure, then dialogue box of blood pressure will be popped up and it could be set.

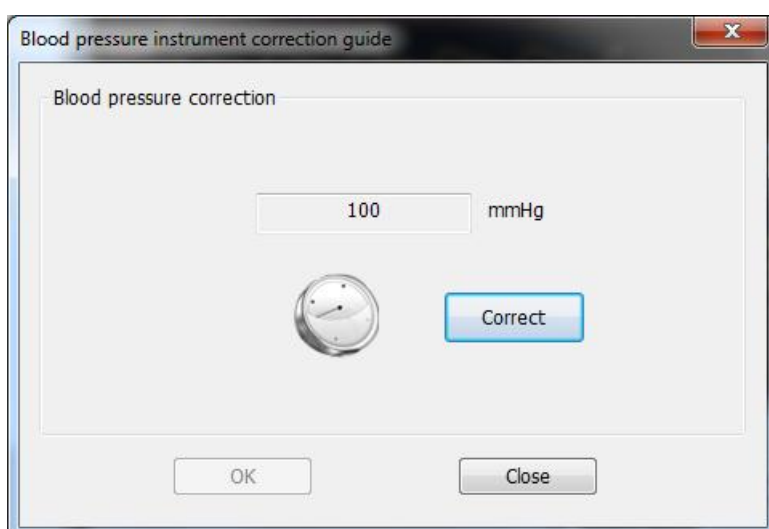


Measure the blood pressure after completion of setting. If there is a big deviation between blood pressure and settings, please recalibrate the blood pressure. As shown in the picture:

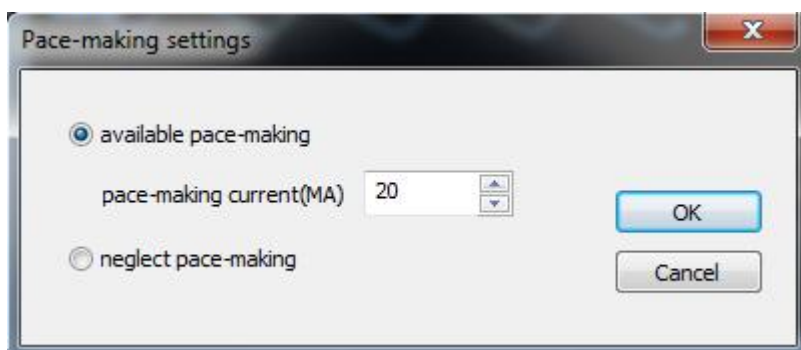


Select "Blood pressure recalibration" , a dialogue box will be shown.

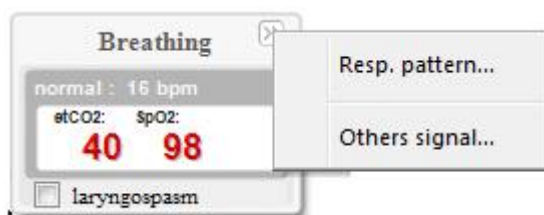
Select two values of blood pressure, click "Recalibrate" and click "Finish" , which means blood pressure recalibration is finished.



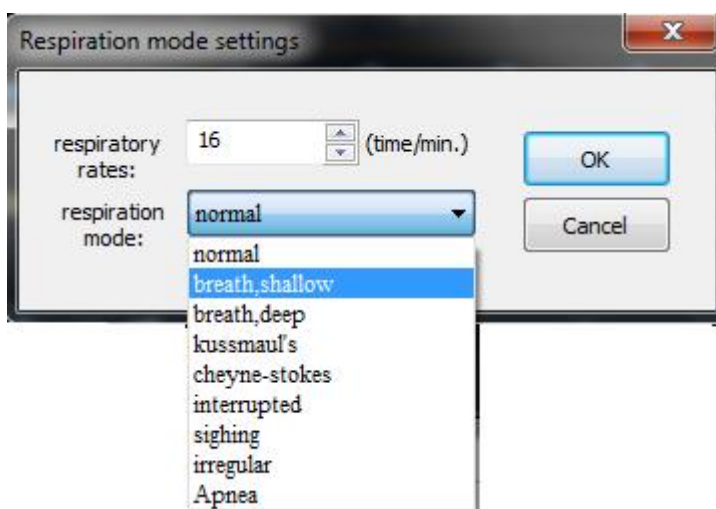
Select pack-making setting, a dialogue box will be popped up, then it is available to set.



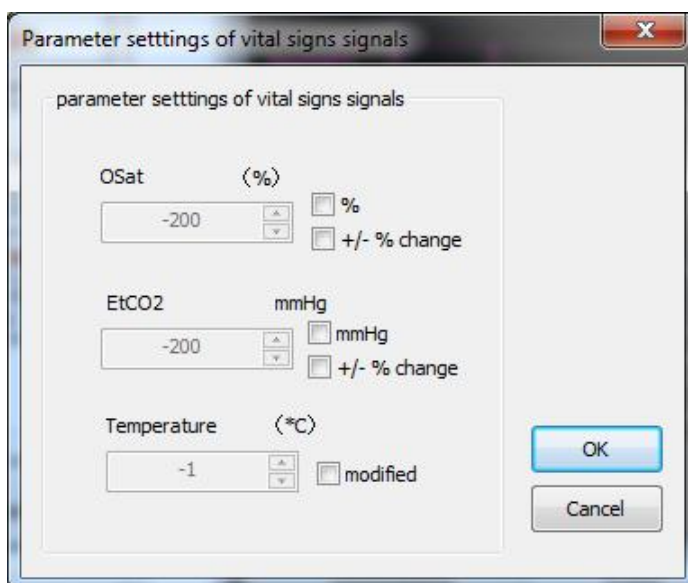
Breath setting: Click  to set parameters. The parameters already set will be shown on the interface, as picture shows:



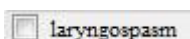
Select breath modes, a dialogue box of breath modes setting will be popped up, then it is available to set breath times and modes.



Select physiological parameters signal, parameter setting of physiological vital sign signal will be popped up.



Laryngismus setting could be operated directly on the interface.

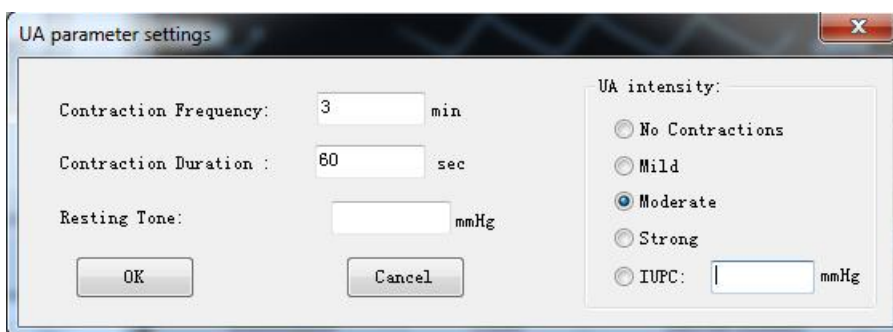


Uterine contraction setting: Click  to set parameters. The parameters already set will be shown on the interface, as picture shows:

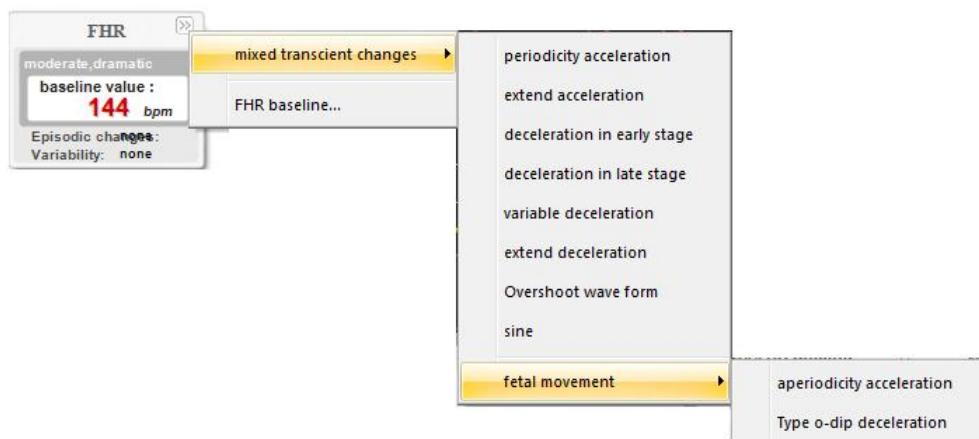


Select trigger operation, click “One uterine contraction” or “One fetal movement” , there will be wave changes of “Uterine contraction” or “Fetal movement” in the uterine contraction curve.

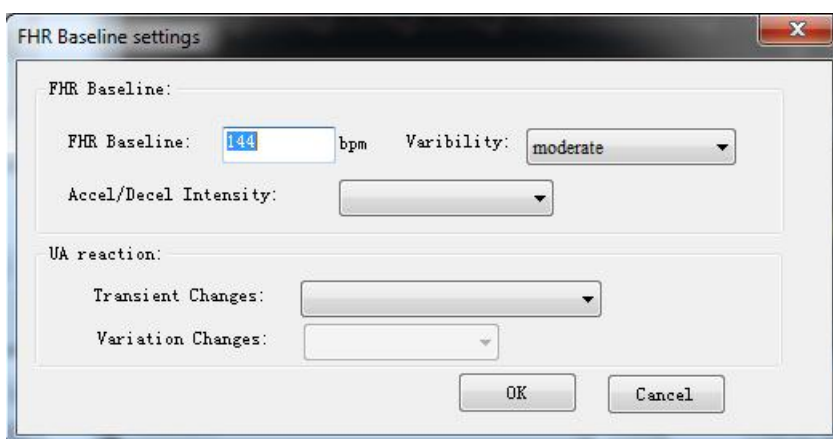
Select uterine contraction parameters, dialogue box of uterine contraction parameters setting will be popped up. It is available to set uterine contraction interval, duration, intrauterine pressure and intensity of uterine contraction.



Curve setting of fetal heart rate: click  to set parameters. The parameters already set will be shown on the interface, as picture shows:



Select compound transient change, select different fetal heart rate, there will be corresponding wave changes of fetal heart rate curve. Select FHR-baseline, dialogue box of baseline will be popped up, it is available to set fetal heart rate and uterine contraction reaction.

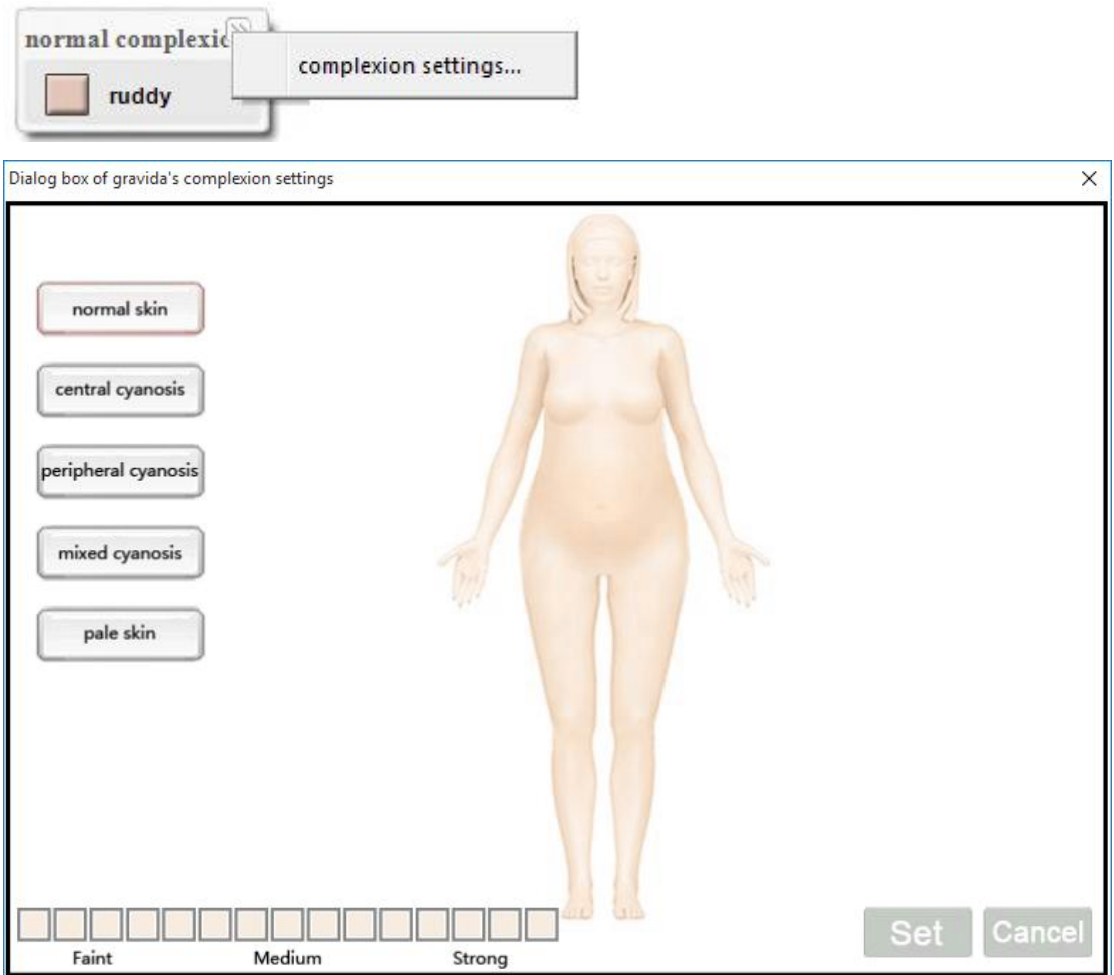


Setting of uterine harness: select from pull-down list directly. The uterine hardness cannot be set until placental stage.

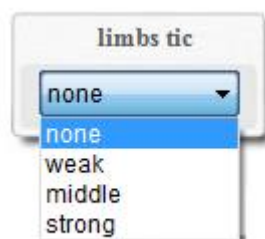


Complexion setting: click  to select complexion setting, dialogue box of complexion setting will be popped up, which enables us to set the

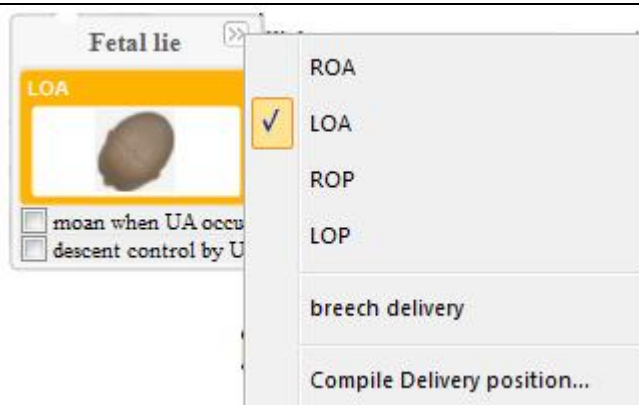
complexion, including normal, cyanosis (Central cyanosis and peripheral cyanosis) and pale. The degree of cyanosis could also be set.



Setting of four limbs convulsion: Select the convulsion status and degree from pull-down list.



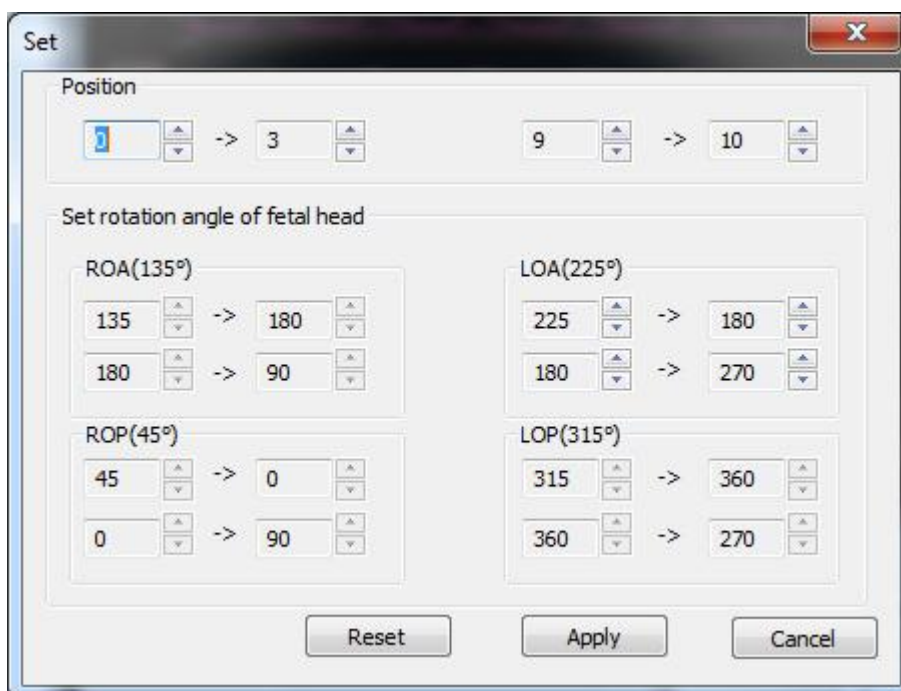
Fetal position setting: click  to select different fetal position, as picture shows:



Select "Moans when uterine contraction" when uterine contraction occurs, simulated human articulates.

Select "Fetal head descent is affected by uterine contraction", the degree of fetal head descent is affected by uterine contraction.

Click "Delivery position editing", dialogue box below will appear. It is available to set position of internal and external rotation and angle of fetal head rotation.

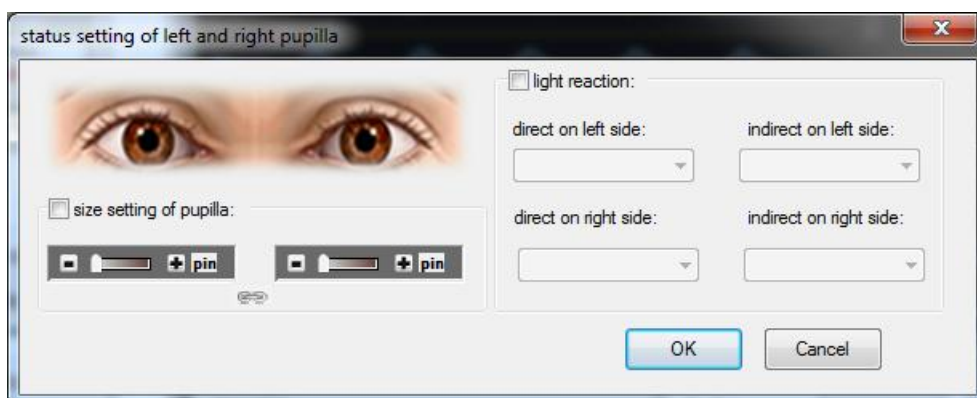


Pupilla setting: click  to set pupilla, as picture shows:

Select blink, "Open" or "Close" could be selected.



Select pupilla:

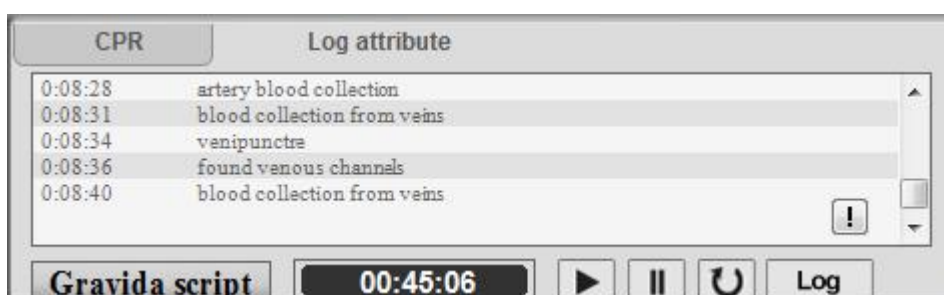


1	Setting of left eye	Drag scroll bar to set the size of left pupil.
2	Setting of right eye	Drag scroll bar to set the size of right pupil.
3	Correlative setting	When being connected, right eye will change correspondingly if setting left eye. When being disconnected, right eye will not response at all if setting left eye.
4	Light reaction	It is divided into three statuses, including "No" "Normal" and "Slow" . Direct light reaction: It is available to set left

		and right eye separately. Indirect light reaction: It is available to set left and right eye separately.
--	--	--

➤ Log and CPR

CPR: operate CPR on simulated human, operating waves will be displayed synchronously.



Gravida emergency script: Click available system script and custom script, it is available to choose different script the conduct training.

00:45:06: Current script running time.

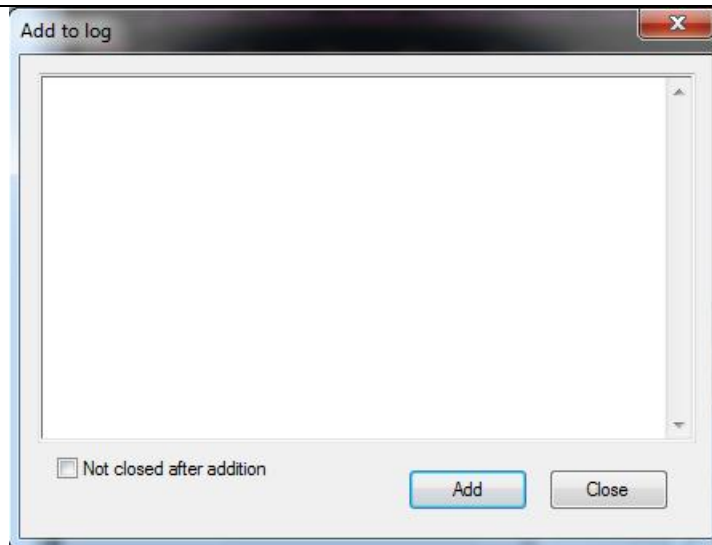
: Run current script.

: Pause current script.

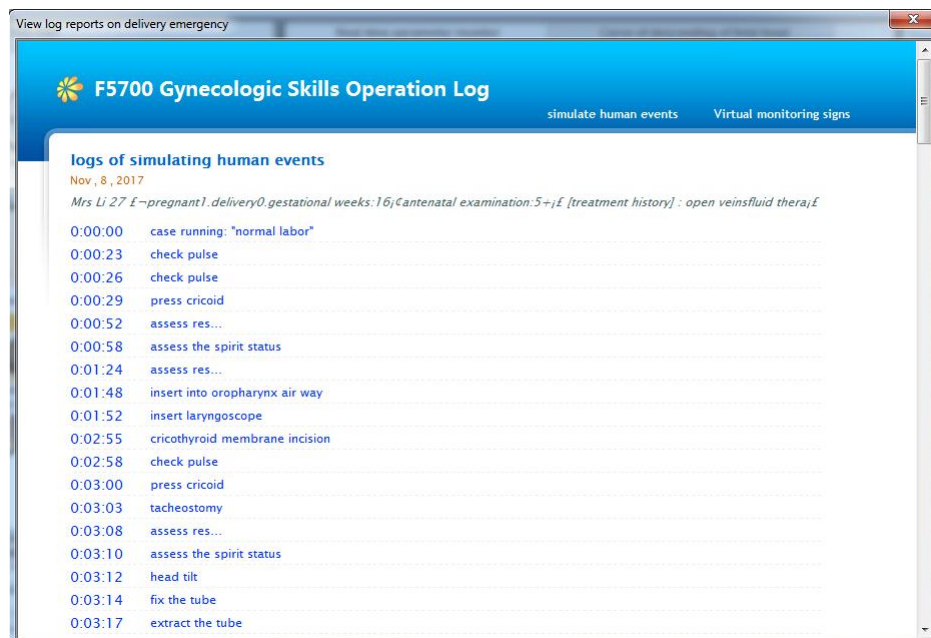
: Reset current script.

: Record all the operating contents.

: Click to display event log adding window.



Click "Log" to check report of delivery emergency log.



➤ Status bar

Real-time parameter monitoring

Monitoring each vital signs, including heart rate, blood oxygen saturation, arteriotony, breath, end-tidal carbon dioxide, temperature and non-invasive blood pressure.

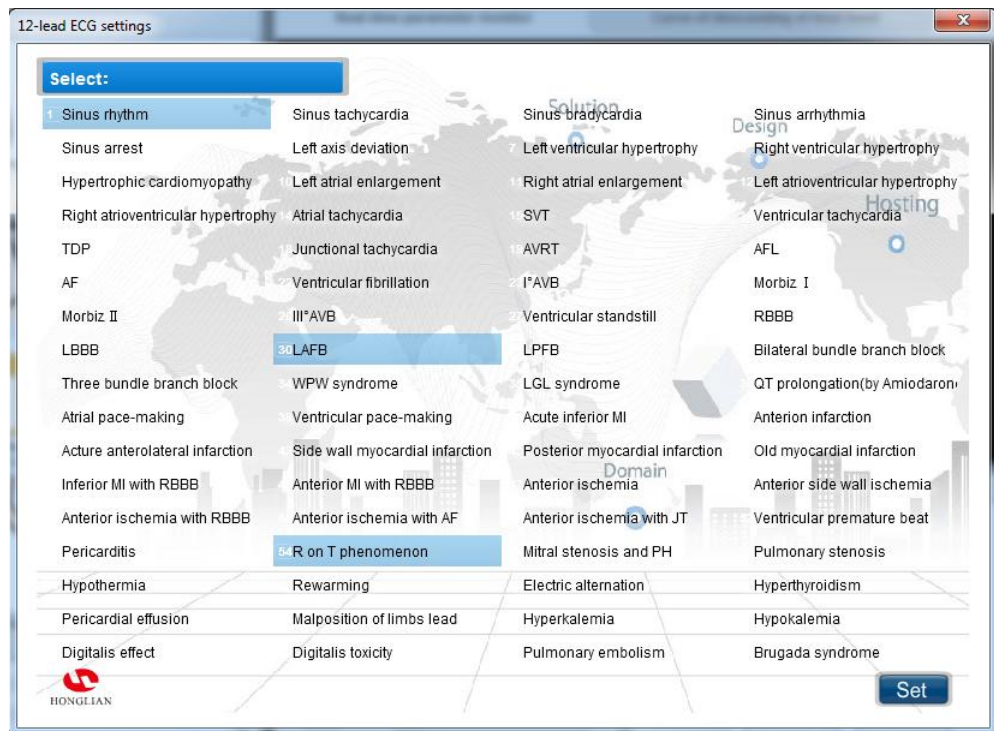


Check and setting of each item of laboratory examination, including 12-lead ECG, C ray, CT examination, routine blood test, routine urine test, leucorrhoea examination, electrolytes, HBsAg, Down's syndrome screening, blood sugar, coagulation function, blood gas analysis, lung functions, kidney functions and ultrasounds examination.

Take 12-lead ECG as an example:

Click "12-lead" , "12-lead ECG display/Set 12-lead ECG" will appear.

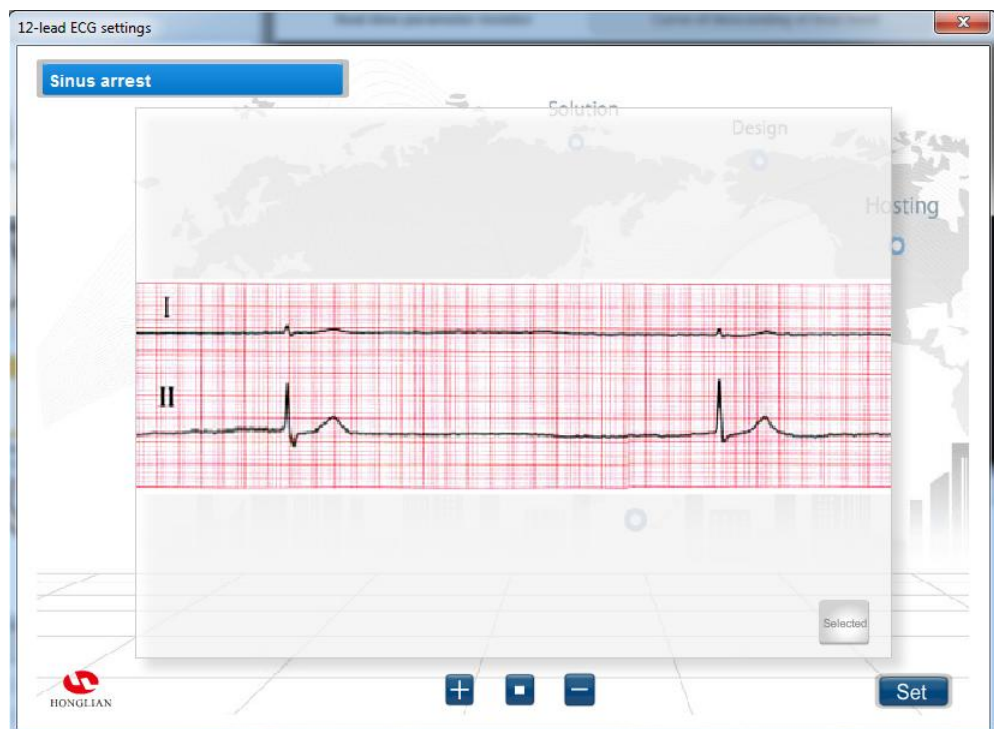
Click "Set 12-lead ECG" , click "Please select" , dialogue box below will appear.



Please select the ECG you would like to check, like sinus rhythm. Click

"Click to select" , "Tick" , click " Set" , which means setting is

successful.



 : Magnify ECG

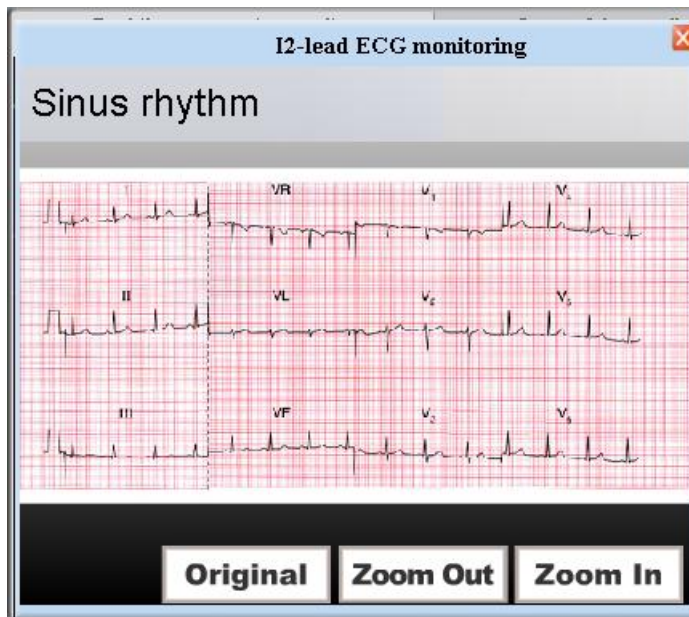


: Recover to initial size.

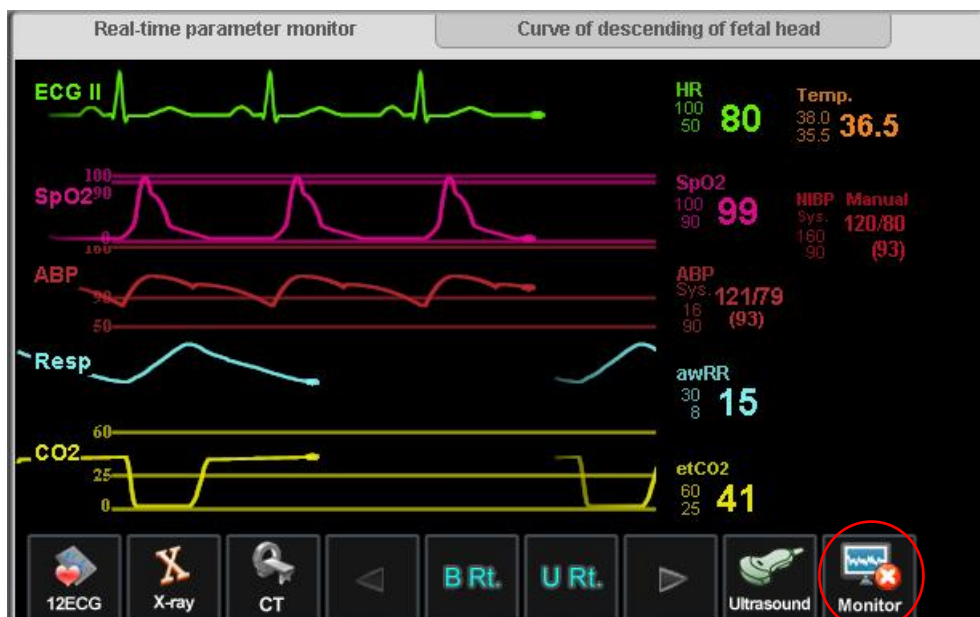


: Deflate the ECG.

Click "12-lead ECG display" , ECG already set will be shown on the interface. The ECG could be magnified, deflated and recovered to initial size.

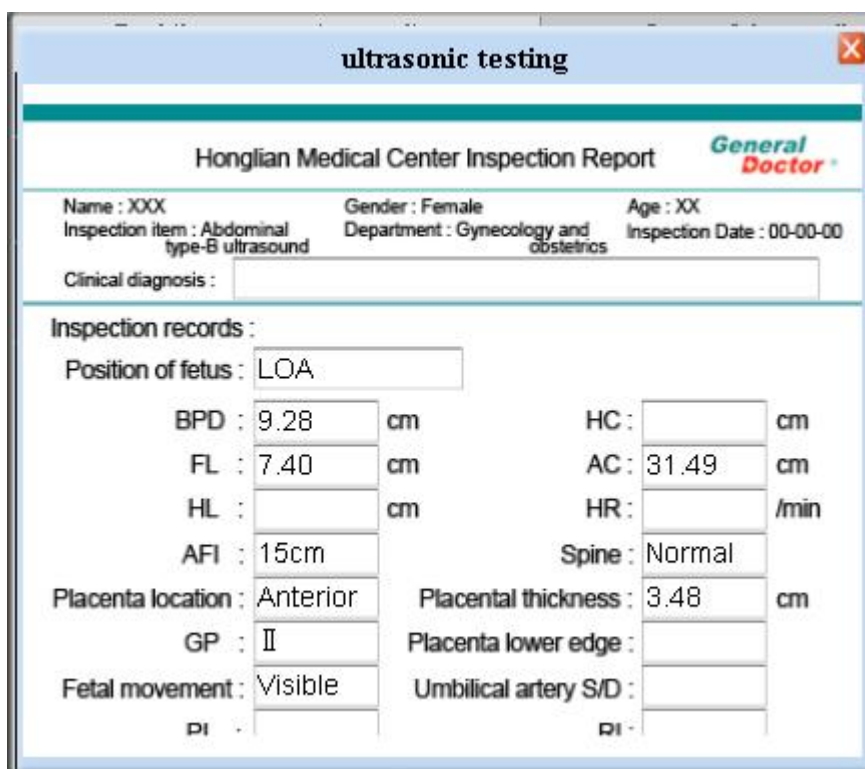


Monitor connection: Click "Monitor connection" on the right lower corner to connect the monitor directly.



Click "Ultrasound" button on the monitor, window of "Ultrasound examination display/ Ultrasound table setting" will be popped up.

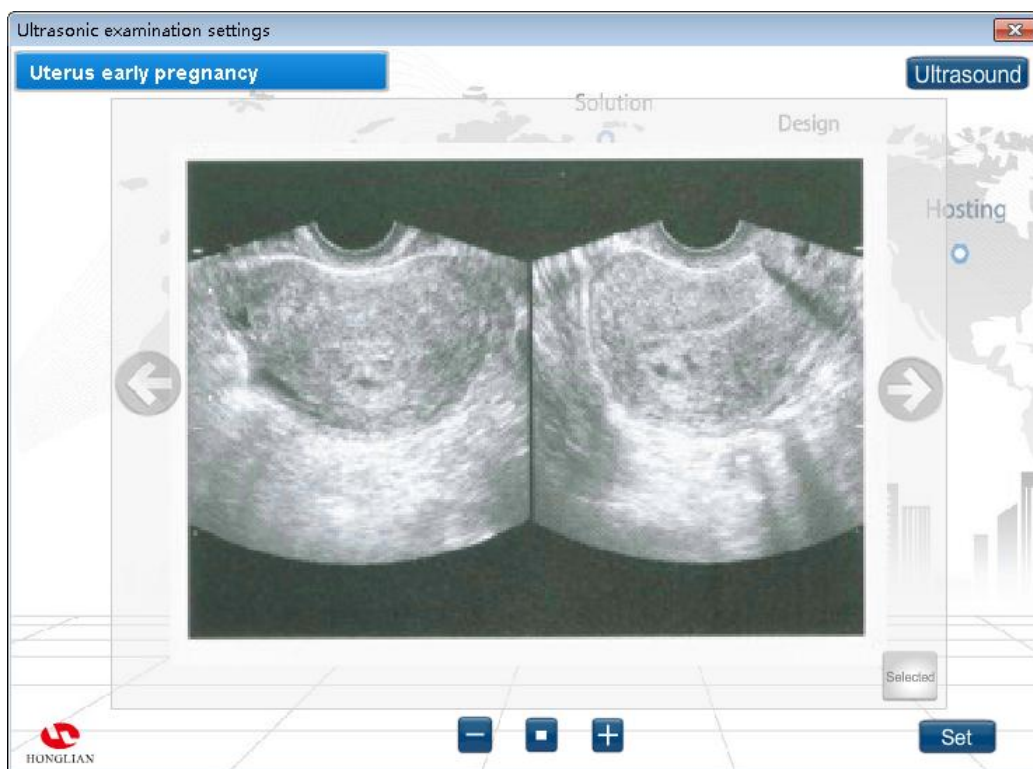
Click "Ultrasound examination display" to set common status of ultrasound examination. See picture below.



The screenshot shows a software window titled "ultrasonic testing" with a close button (X) in the top right corner. Inside the window is a form titled "Honglian Medical Center Inspection Report" with the "General Doctor" logo on the right. The form contains the following fields:

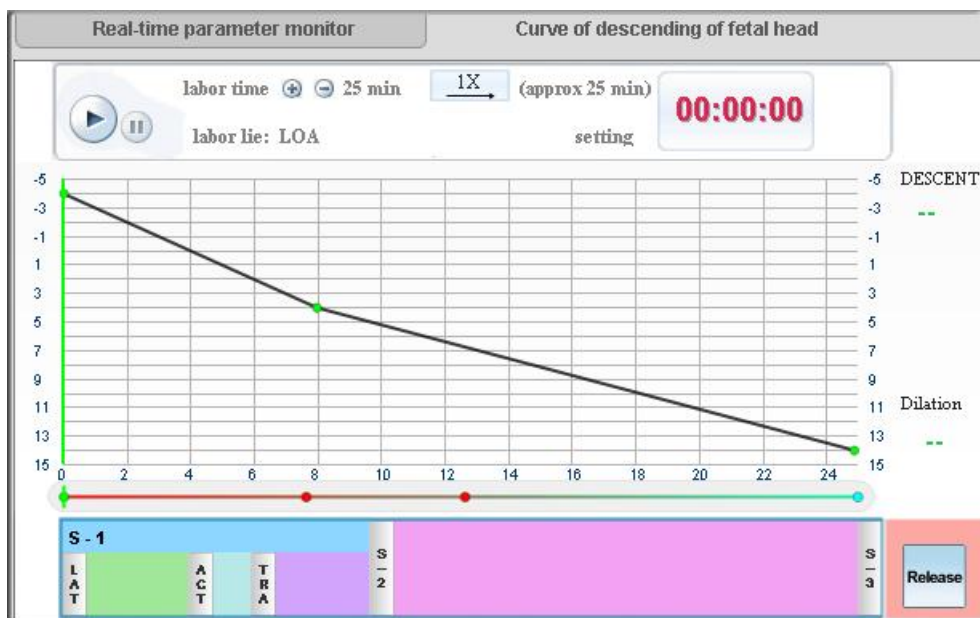
- Name : XXX
- Gender : Female
- Age : XX
- Inspection item : Abdominal type-B ultrasound
- Department : Gynecology and obstetrics
- Inspection Date : 00-00-00
- Clinical diagnosis :
- Inspection records :
 - Position of fetus :
 - BPD : cm
 - FL : cm
 - HL : cm
 - AFI :
 - Placenta location :
 - GP :
 - Fetal movement :
 - PI :
 - HC : cm
 - AC : cm
 - HR : /min
 - Spine :
 - Placental thickness : cm
 - Placenta lower edge :
 - Umbilical artery S/D :
 - RI :

Click "Ultrasound table setting" , it will be shown as follows. It is available to set the ultrasound pictures and videos.



Turn on the switch on Ultrasound detector after completing setting, the content of ultrasound will be shown on monitor (pictures or videos).

Curve of fetal head descent:



00:00:28

: Running time of birth process.

labor time $\oplus$ $\ominus$ 25 min $\xrightarrow{4X}$ (approx 6 min) : Time conversion, quickening

or slowing of birth process.



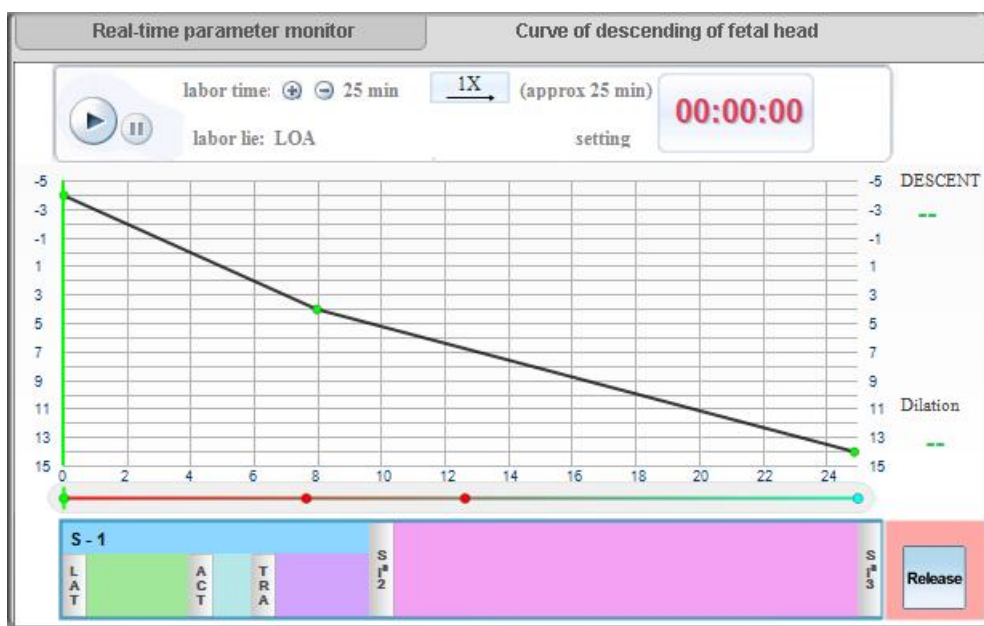
: Run birth process.



: Pause birth process

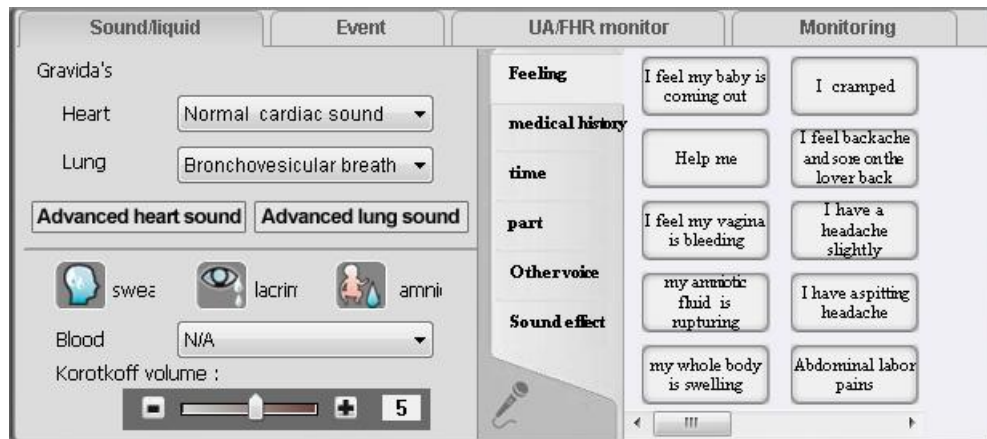
Release: Whenever the birth process is conducted, fetus could be delivered by clicking this button.

When conducting cesarean, the curve of fetal head descent automatically becomes a straight line, which is shown as follows:



- Other settings: include sounds/fluid, event, UA/FHR, video monitoring.

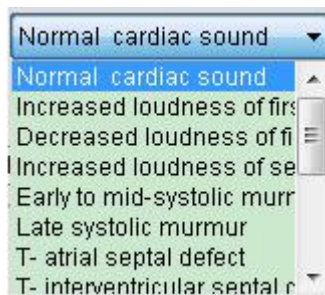
Sounds/fluid:



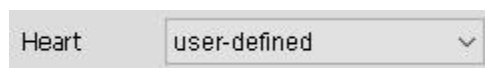
Cardiac sounds setting:

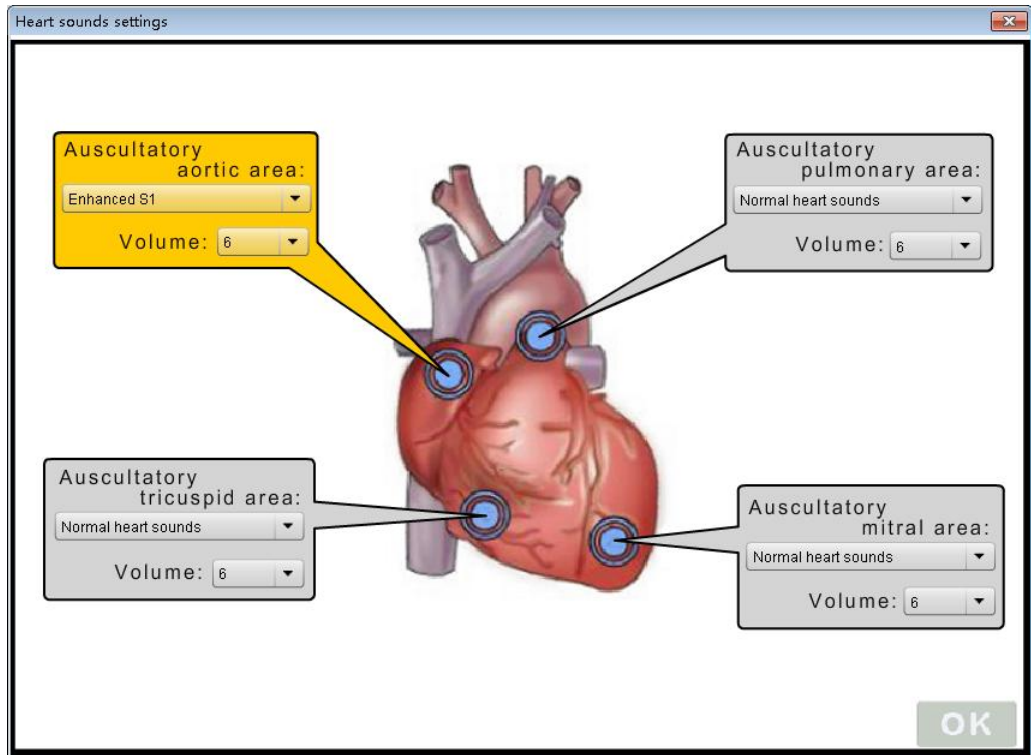
(1) Select the cardiac sounds for auscultation from pull-down menu

directly.



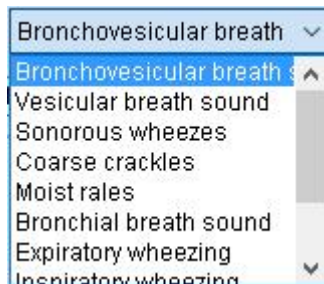
(2) Click "Advanced cardiac sounds setting", dialogue box of cardiac sounds setting will appear. It is available to set different cardiac sounds in different positions and auscultation volume. Click "Sure" to complete the setting. The status of cardiac sounds becomes custom.



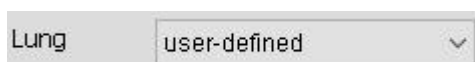


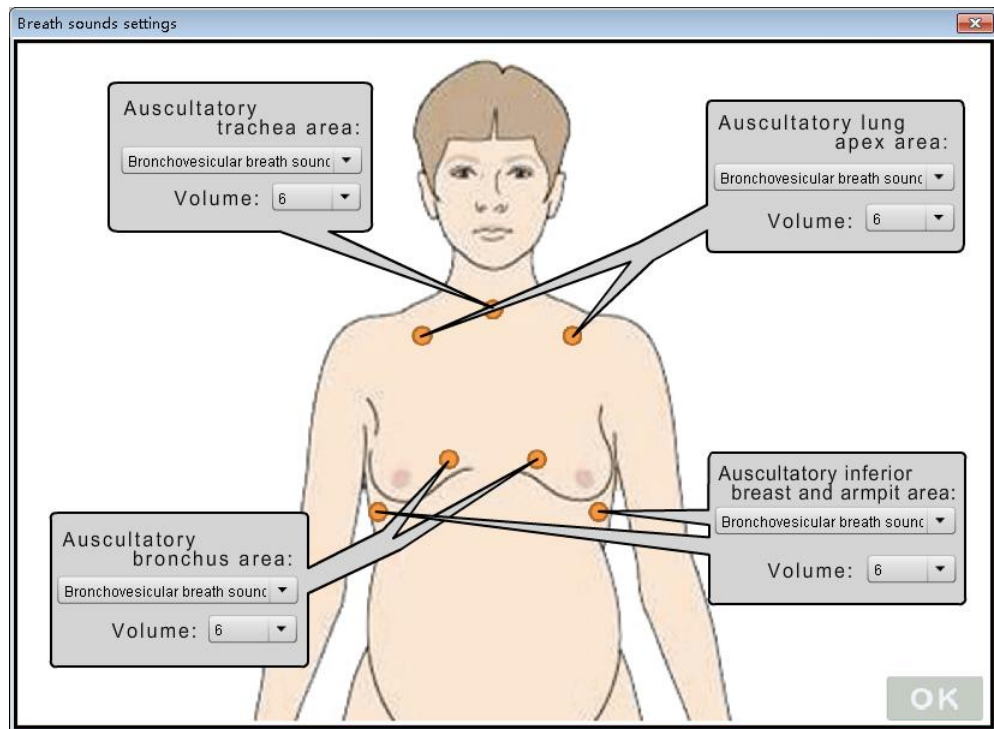
Pulmonary sounds setting:

(1) Select pulmonary sound for auscultation from pull-down menu directly.



(2) Click "Advanced pulmonary sounds setting", dialogue box of pulmonary sounds setting will appear. It is available to set different pulmonary sounds in different positions and auscultation volume. Click "Sure" to complete the setting. The status of pulmonary sounds becomes custom.





Click , simulated human is able to simulate real sweat.

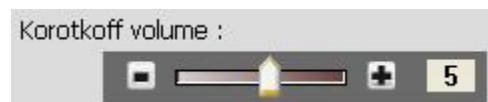
Click , simulated human is able to simulate real weep.

Connect the module of amniotic fluid in control panel, click , simulated human is able to simulate amniotic fluid effusion.

Connect the module of hemorrhage in control panel, click

"Colporrhagia: little", select the amount of colporrhagia (None, little, normal, much) from pull-down menu. Simulated human is able to simulate .colporrhagia.

The adjustment of blood pressure auscultation.

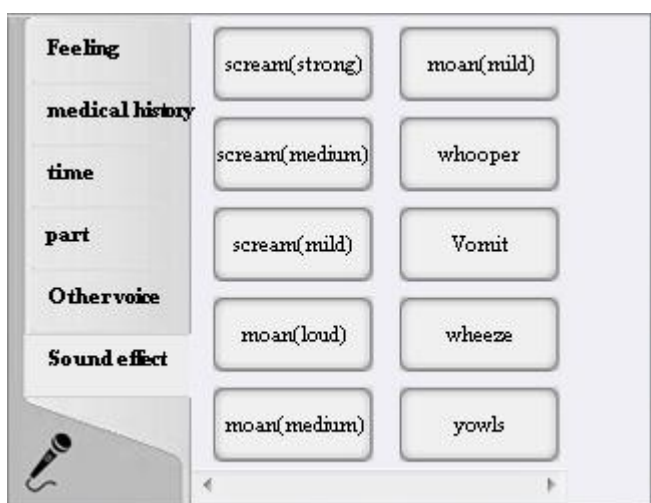


enables us to amplify or lower the volume of auscultation of blood pressure.

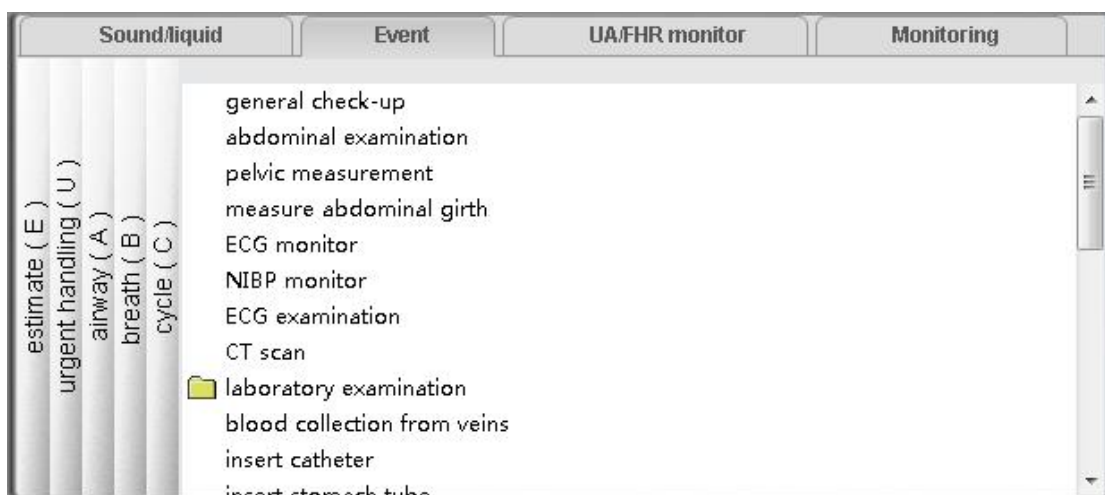
Voices setting of simulated human: There are voices resources recorded in

the software. It could be divided into feeling, medical history, time, part, other sounds and sound effect in according to articulation types. There are 87 kinds of sounds. Click different voices, simulated human is able to

articulate real sounds. Click , it is available to simulate function of wireless inquiry.



Event setting:



Event menu is divided into appraisal, emergency, airway, breath, cycle and other 6 types. Some operation could be conducted in accordance with simulated human, like chest compression, tracheal intubation, lung

auscultation, etc. The software is able to monitor current operation and record them into the log. When operation conducted could not be monitored, it is applicable to choose corresponding item in the event list. Take liver function of laboratory examination as an example.

Click "laboratory examination" " Liverfunction" in the event list, the icon of liver function check in the status bar will twinkle. See the



picture . There is corresponding record in the log attribute.



Click shining icon of , liver function examination list will be showed.

liver function

Honglian Medical Center Inspection Report



Name :
 Gender :
 Age :
 Sample # :

Department :
 Beds No. :
 Specimens species :
 Records No. :

Assay item : Liver function
 Clinical diagnosis :
 Doctor :
 Sampling dates :

Item	Result	Reference Value
ALT	25	0~40 U/L
AST	15	0~40 U/L
ALP	40	40~150 U/L
γ-GT	10	5~52 U/L
TP	72	60.0~85.0 g/L
ALB	40.6	35.0~55.0 g/L
GLB	25	20.0~35.0 g/L
A/G	1.6	1.5~2.5

Select "nasogastric intubation", "Catheter intubation" "Oxygen therapy"

Assessment of breath" " Defibrillation" and so on in the event bar. There

are corresponding icons in the "Shortcut event" bar.

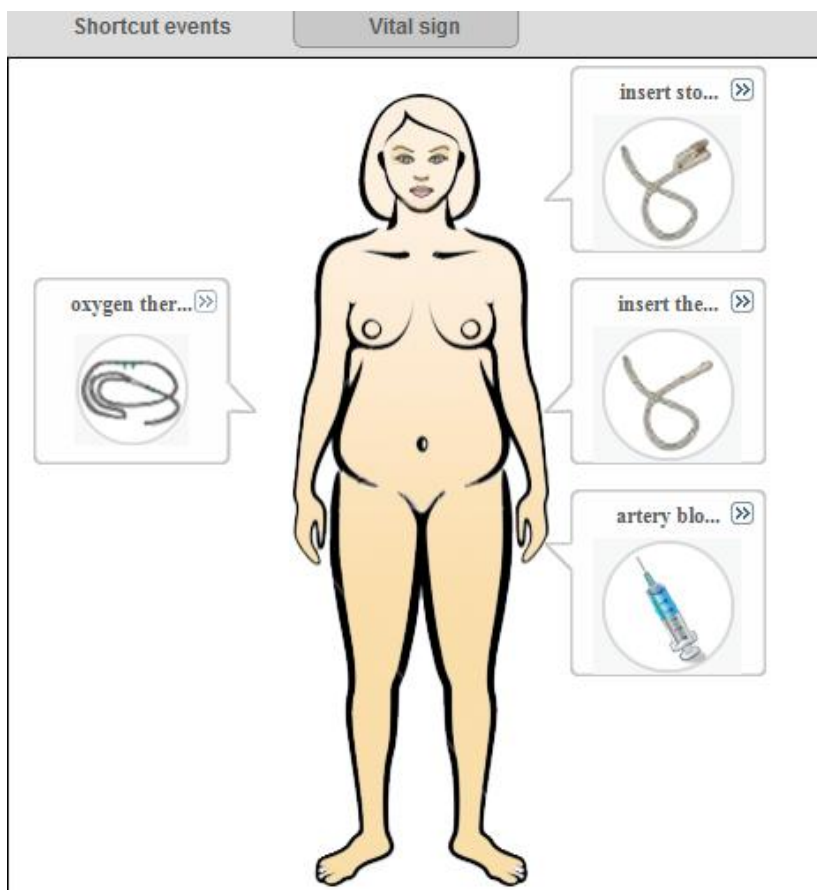
Sound/liquid
Event
UA/FHR monitor
Monitoring

estimate (E)
 urgent handling (U)
 airway (A)
 breath (B)
 cycle (C)

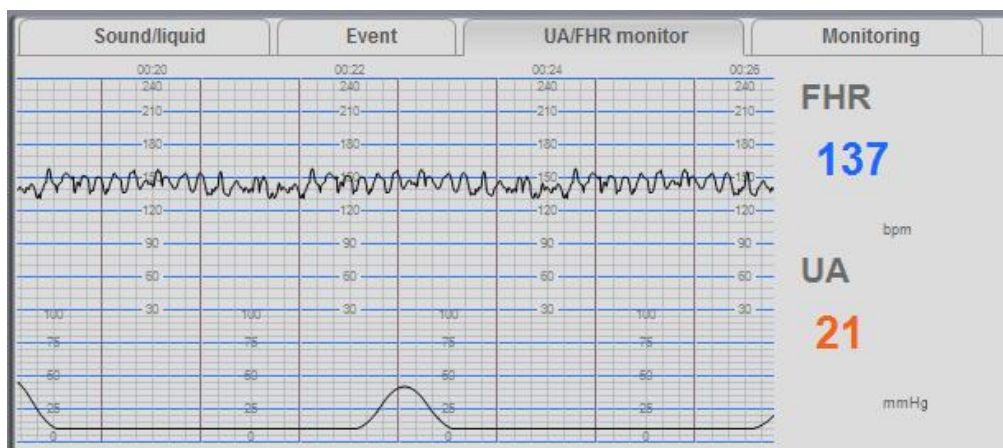
ECG examination

- general check-up
- abdominal examination
- ✓ (1) pelvic measurement
- measure abdominal girth
- ECG monitor
- NIBP monitor
- ✓ (1) ECG examination
- ✓ (1) CT scan
- laboratory examination
- blood collection from veins
- ✓ (2) insert catheter
- ✓ (1) insert stomach tube
- gastrointestinal decompression

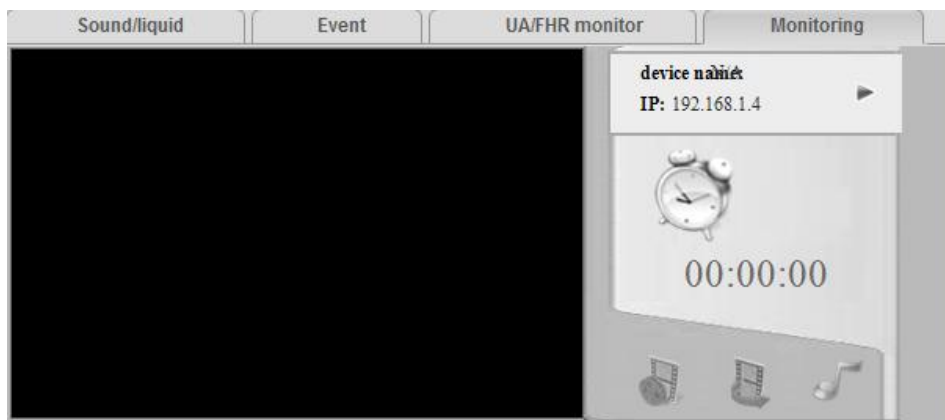
It is available to set in "Shortcut event" .



UA/FHR monitoring: Uterine contraction and parameter of fetal heart rate curve can be set in the vital signs bar.



Video monitoring: the whole operating procedure could be monitored
(Cam information)



: video recording function



:: Save video



: Sounds control of the video. Mute mode status is

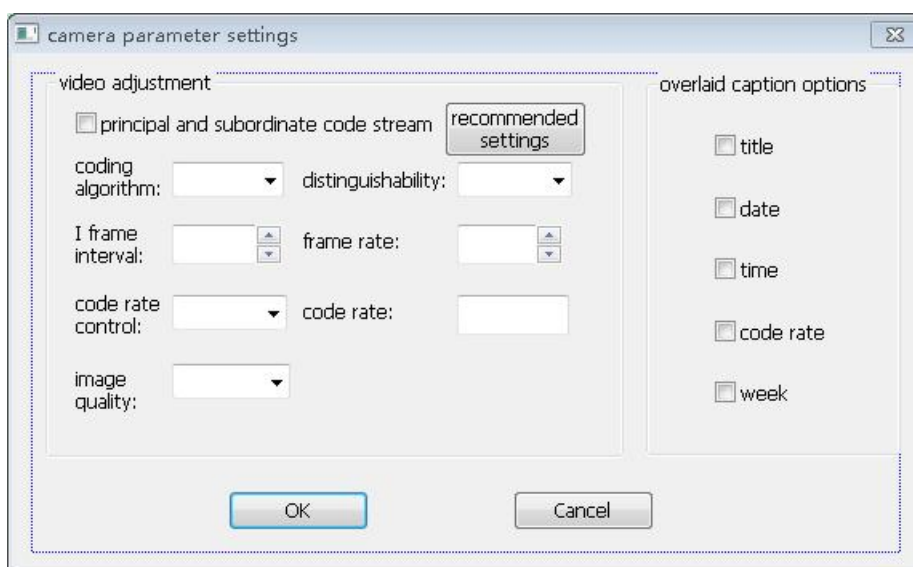


Connect cam



Connect the camera

Click "Cam setting" to set the cam.



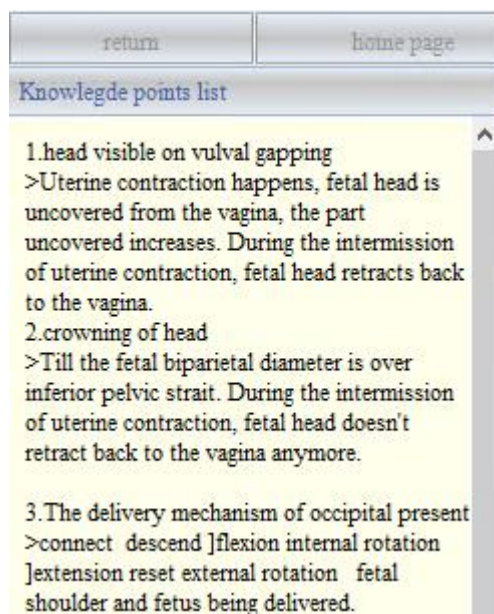
➤ Gravida information

Interface shows the basic information of the gravida, including name, age,

weight, etc.



Click "Gravida information" , knowledge list of current running case will be shown. Click" Back" to return to last interface. Click "Homepage" to return to the information bar of gravida.



Click the profile photo to show the detailed information of gravida.

Gravida's info

Basic Information:

Name: Wweight:

Age:

Medical History in Obstetrics:

Gravidity: Term: Preterm:

Full-term Birth: Induced Abortion: Parity:

Spont. Abortions: Antenatal Examination:

☐ Hypertension ☐ Diabetes ☐ Tuberculosis ☐ Hemopathy

☐ Allergic History ☐ PROM/PPROM ☐ Venereal Disease ☐ Hereditary Disease

☐ Viral Infection ☐ Liver and Kidney Disease Medical History:

Menstrual History: Surgical History:

Treatment History:

☐ None ☐ O2 ☐ AROM ☐ CPR

☒ IV Started ☒ Fluid Therapy ☐ Pain-Meds ☐ Epidural Anesthesia

☐ FSE ☐ IUFC

Catheterization:

Difficulty:

Have or Not Have Hematuria:

the 1st labor stage the 2nd labor stage the 3rd labor stage

Fetal Lie: Dilation:

Station: Pain:

Bleeding Condition: Membranes:

Others:

Delivery Patterns:

☒ spontaneous labor ☒ vacuum extraction ☐ assisted breech delivery

☐ shoulder dystocia ☐ breech extraction ☐ cesarean

Produce embedded location:

Others:

Postpartum:

Fundus Height:

Degree of Perineum Laceration:

neonatal condition:

Apgar rating: Birth Injury or Deformity:

Weight: Height:

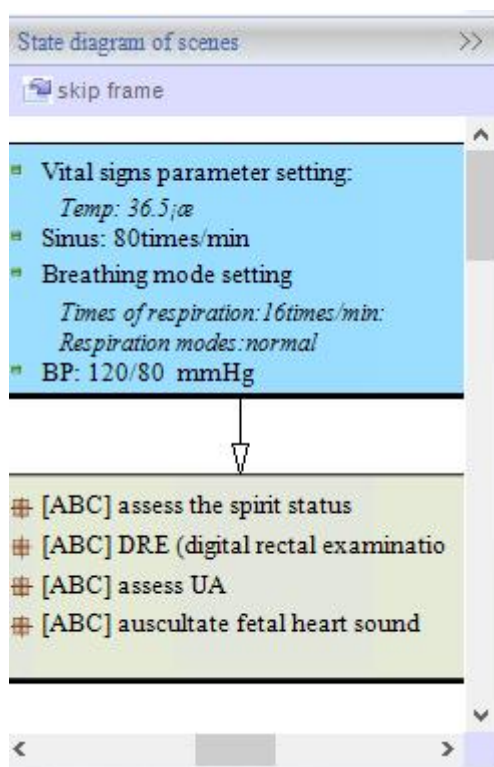
Sex: Umbilical cord:

Others:

Save Cancel

➤ Scene status

It shows the scene of current running script, including scenes and events.



Click event box, Click “Skip operation” to skip current scene point.

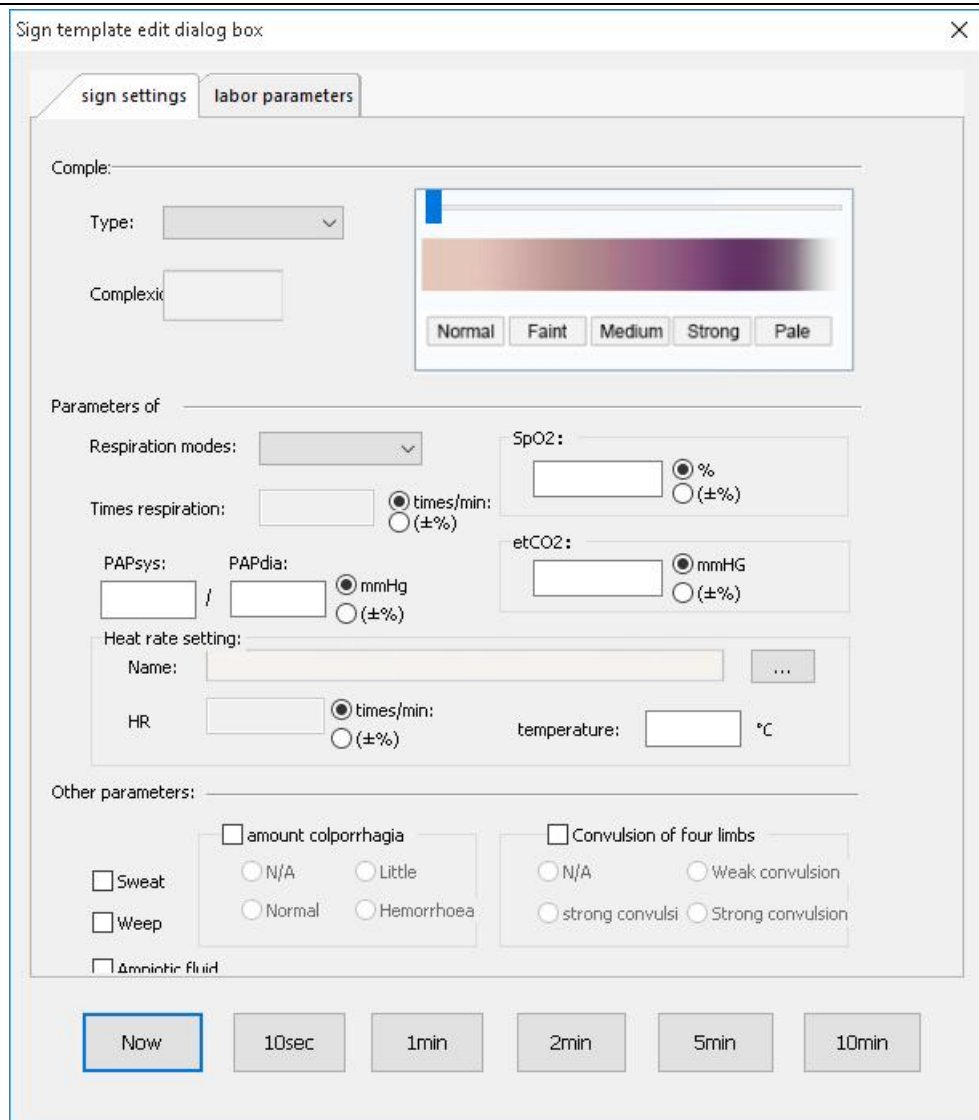
Click “Scene status” , the following interface will be displayed. It shows different colors in according to severity of condition. Green means normal, yellow means treatment is needed. Red means severe.



Back : back to last interface

Homepage: back to scene status bar.

Click “Blank template” . Create-Scene



The image shows a software window titled "Sign template edit dialog box". It has two tabs: "sign settings" (selected) and "labor parameters".

sign settings

Comple: _____

Type:

Complex:

Color selection:

Parameters of _____

Respiration modes:

Times respiration: ☒ times/min: ☐ (±%)

PAPsys: / PAPdia: ☒ mmHg ☐ (±%)

etCO2: ☒ mmHg ☐ (±%)

Heat rate setting: _____

Name:

HR: ☒ times/min: ☐ (±%)

temperature: °C

Other parameters:

☐ amount colporrhagia

☐ Convulsion of four limbs

☐ Sweat

☐ Weep

☐ Amniotic fluid

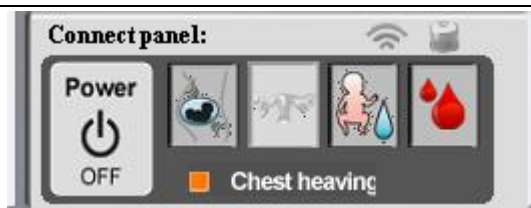
☐ N/A ☐ Little ☐ Normal ☐ Hemorrhoea

☐ N/A ☐ Weak convulsion ☐ strong convulsi ☐ Strong convulsion

Select scene existed, click "Show template" to show scene template selected. Click "Applied template", scene templates selected show in the status bar.

- Connect control panel: connect the software with simulated human.

After being connected, simulated human could receive orders sent by software. Connect control panel including delivery control switch, uterine hardness, uterine contraction, amniotic fluid, hemorrhage, pulses and thoracal ups and downs. See picture below:



Connect simulated human. Turn on the delivery control switch. As



picture shows . The button controls the birth process of simulated human. Only open the button, birth process curve will run.

Notes: Delivery control switch is irrelevant to uterine hardness, uterine contraction, amniotic fluid, hemorrhage, pulses and thoracic ups and downs, which means no matter delivery control switch is turned on, the parameters of uterine hardness, uterine contraction, amniotic fluid, hemorrhage, pulses and thoracic ups and downs can run normally.

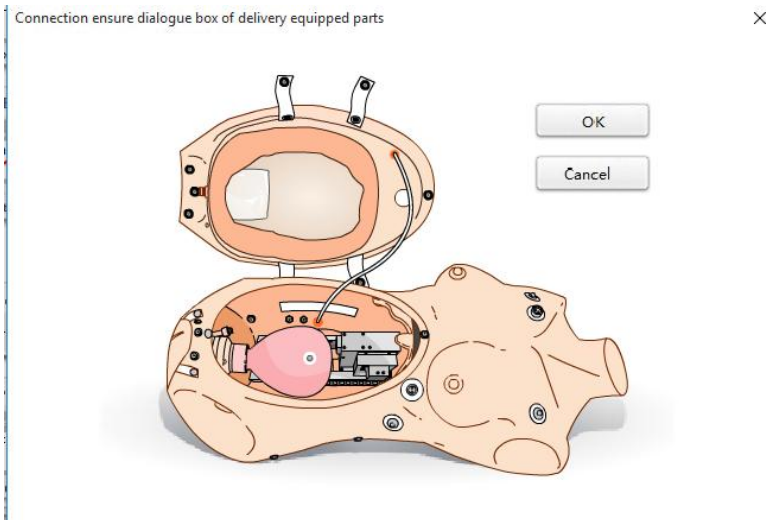
Hardware reset: Click "Power ON" , it becomes "Power OFF" . Close power key, delivery system recovers to initial position.

When wireless status is connected, icon will display  . If not, the interface is gray and no operation is available.

When all the hydraulic pumps and air pumps are connected well, the icon is  . If the icon is not shining, it means the hydraulic pumps and air pumps are not connected well. At this time, click the button, it will show the hydraulic pumps and air pumps that are not connected.



Click , connect uterine contraction module. A dialogue box will be displayed as follows:



It means simulated human is connected with uterine contraction module correctly, it is available to receive uterine contraction orders sent by software. And it is also available to conduct uterine contraction operation.



Click again to disconnect and then simulated human will not receive the orders sent by software.



Click to connect the module of uterine hardness.



Click to connect module of amniotic fluid.



Click to connect bleeding module.

Click "Thoracal ups and downs " there will be thoracal ups and downs when simulated human is breathing.

Notes: Only being connected with relevant parameters of control panel, simulated human will receive orders sent by software. Or simulated human is not capable of receiving orders sent by software.

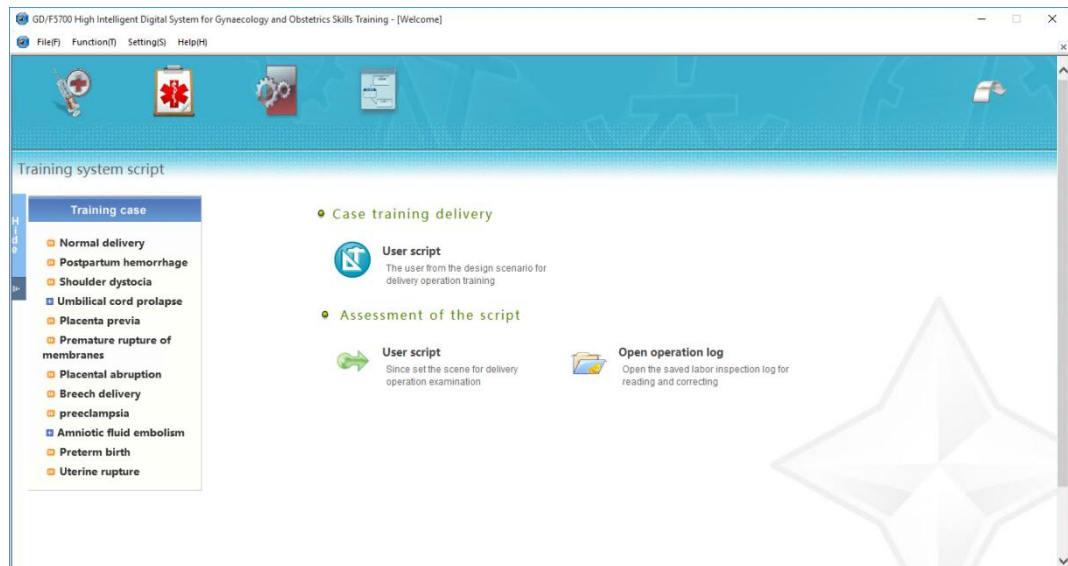
(2) Professional delivery cases assessment

The system provides 14 cases to demonstrate the system assessment methods.

Users could select inbuilt cases or select custom script. The editing methods are interpreted on "Script editing software" .

Open system script assessment methods:

- Method 1: Select cases in the left column in system script training interface to enter cases brief introduction. Click "Script assessment" to enter assessment mode.



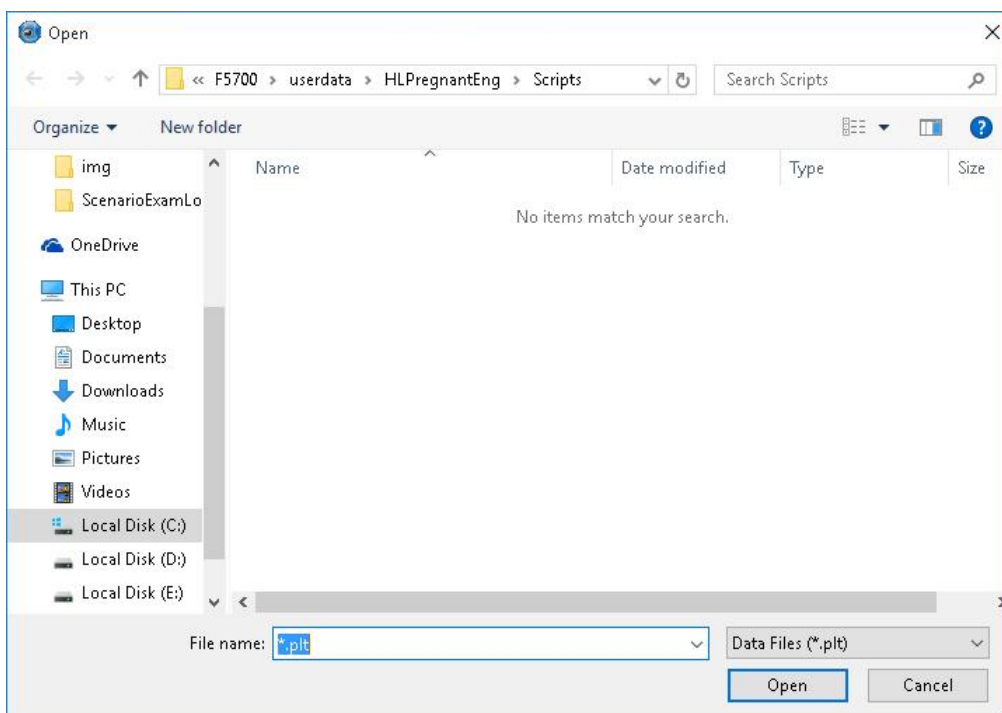
GD/F5700 High Intelligent Digital System for Gynaecology and Obstetrics Skills Training

File(F) Function(F) Settings(S) Help(H)

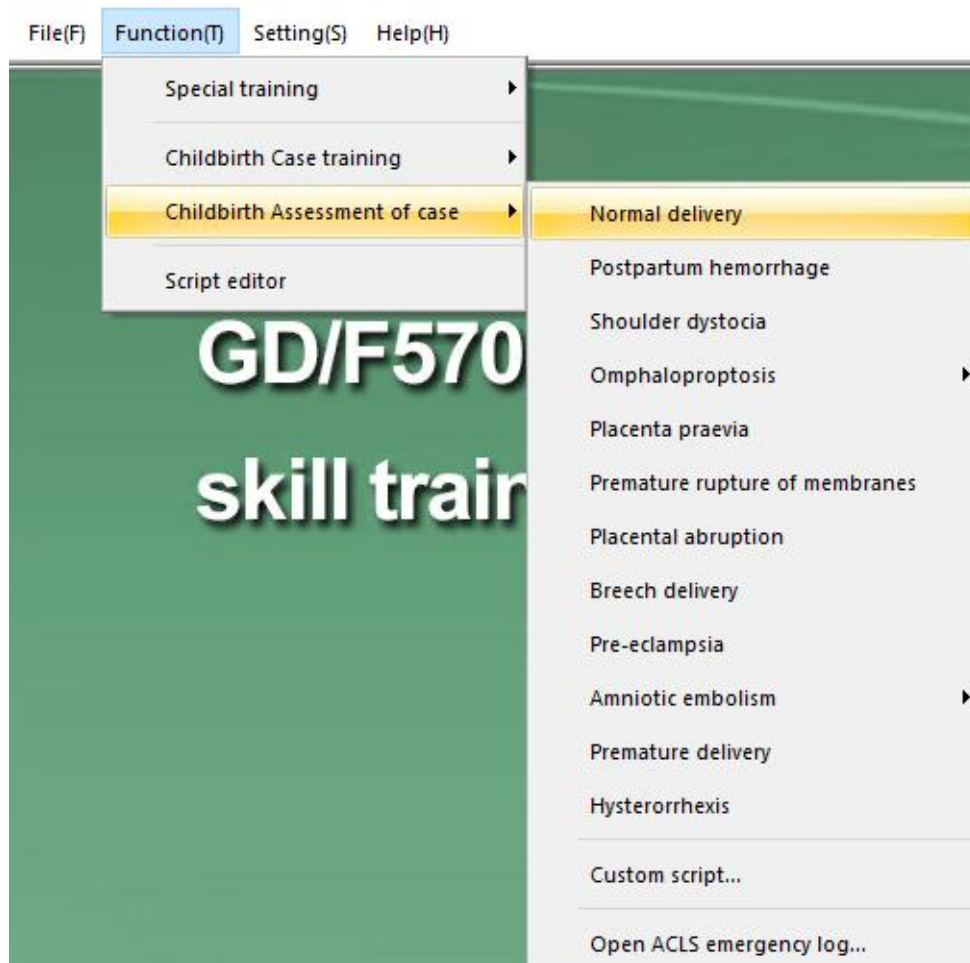
labor	state	Event measures	note
initial state	T/P/R/BP: 36.5-80-16-120/80 FHR:144 initial state position:LOA Presentation position : S+3 Contractions features: 3 min / 60 SEC/medium	Assess mental status Check the anus Assessment of heart rate Evaluation of the contractions	Voice: pregnant women moan (weak)
At the end of the first labor	T/P/R/BP : 36.5-80-20-128/80 FHR : 144 Features: medium variation Contractions features: 2 min / 70 SEC/strong	Evaluation of the contractions Assessment of heart rate Evaluation of palace mouth up	Voice: pregnant women moan (in)
second labor	T/P/R/BP : 36.5-80-20-128/80 FHR : 144 Characteristics: medium variation, early slowdown Contractions features: 2 min / 70 SEC/strong	Evaluation of the contractions Assessment of heart rate perineum incision	Voice: pregnant women moan (high) Fetal head dial the dew, the champions league
third labor postpartum	T/P/R/BP : 36.5-80-18-124/80 Bleeding: a small amount	Methods stripping the placenta Evaluation of the placenta Evaluation of blood loss Evaluation of fundus height	Pregnant women voice: no Hardness of the uterus: hard Using indentation GongSuling drops

Script Test Script Training

- Method 2: click  . Select the catalog where script is in the dialogue box popped up. Select script needed to enter system script assessment.

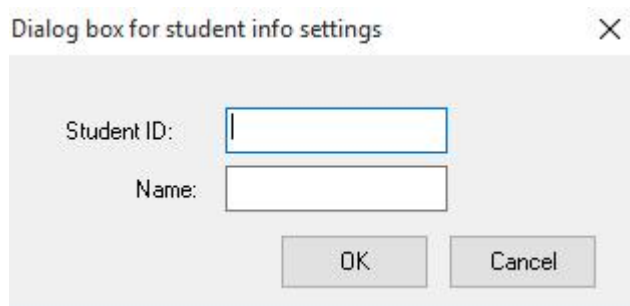


- Method 3: Click menu bar "system function→professional delivery case assessment" , select assessing cases or custom cases to enter the cases interface to be assessed directly.



Assessment steps is shown as follows:

Enter the assessment interface, dialogue box of settings of students' information will appear. Enter the students' information.



Click "OK" to enter assessment interface.



After the assessment, open "Tool→Submit the operation log of students"



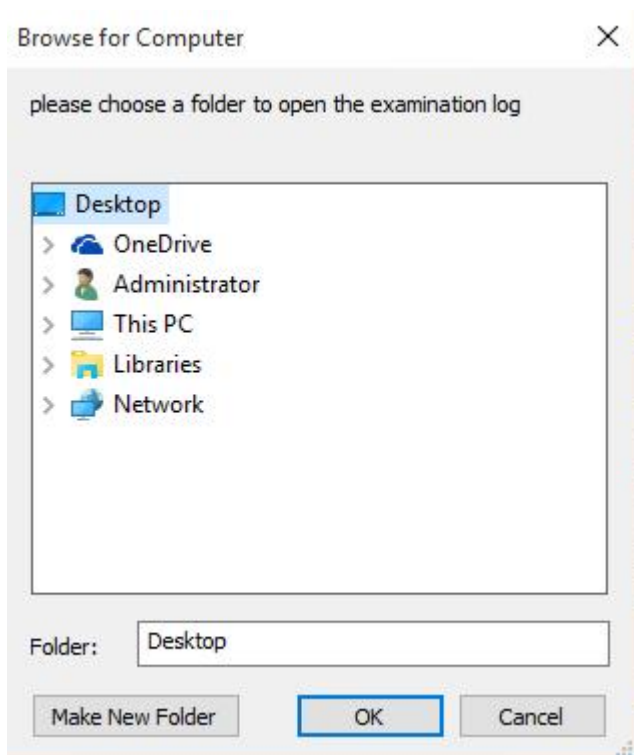
After submit, it is available to choose student to assess. Open "Tool→Choose student to assess". Submit it again after completion.



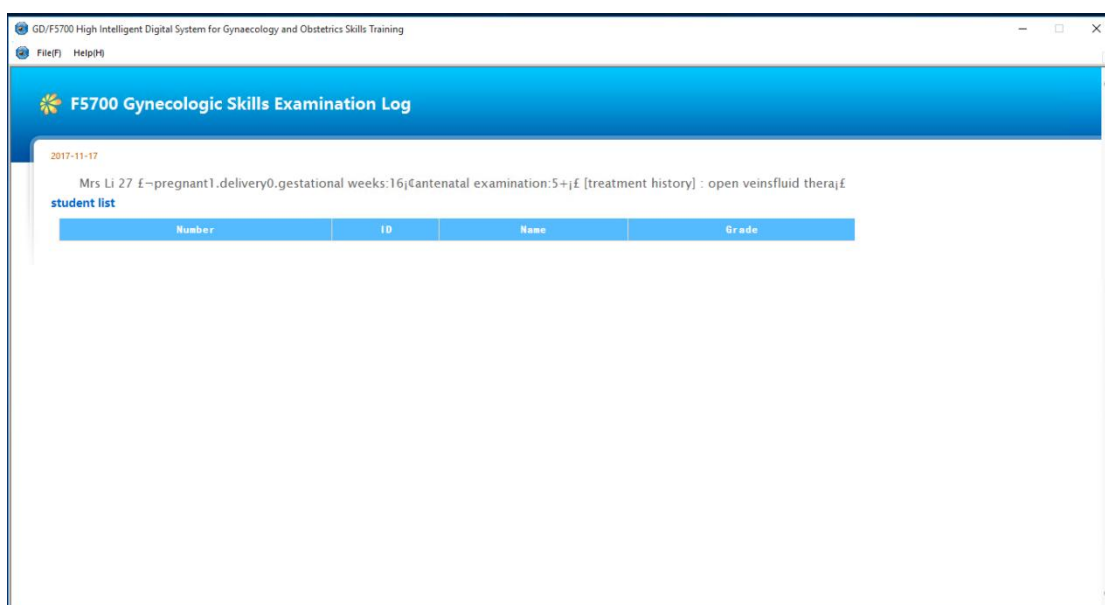
Open "File→Operation log save"



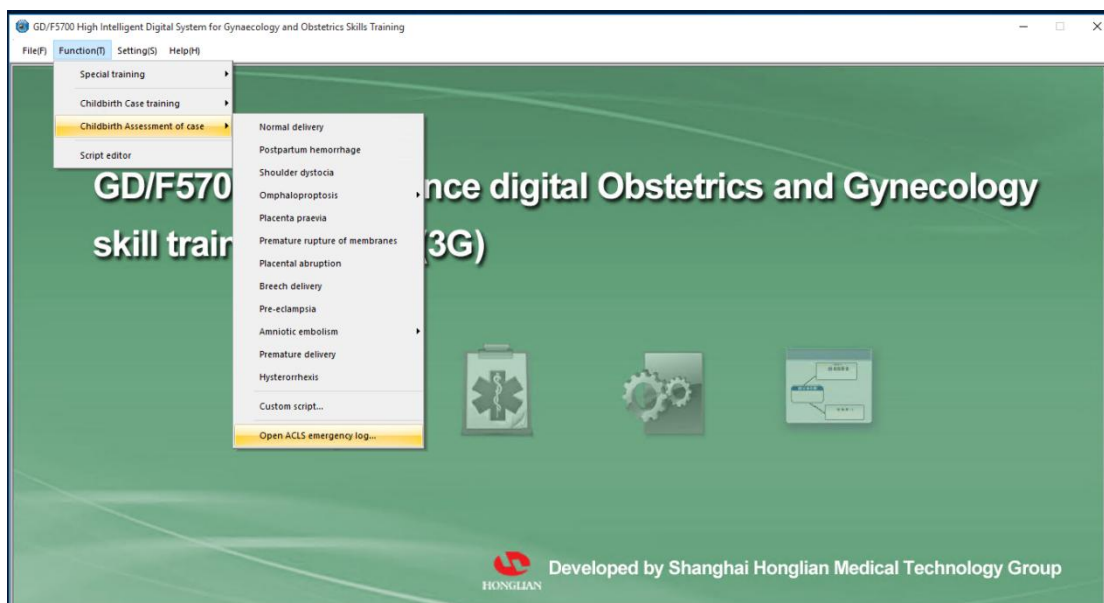
Select folder you would like to save.



It shows the log package of delivery cases assessment.



Check report card: Click menu bar "system functions → open delivery emergency package" to check the result of assessment.



4. System settings



Method 1: click to enter the interface.

Method 2: Click menu bar "Setting" to enter the interface directly.



System configuration setting



Click to enter system configuration setting.

CPR parameter setting:

dialog box for system configuration settings

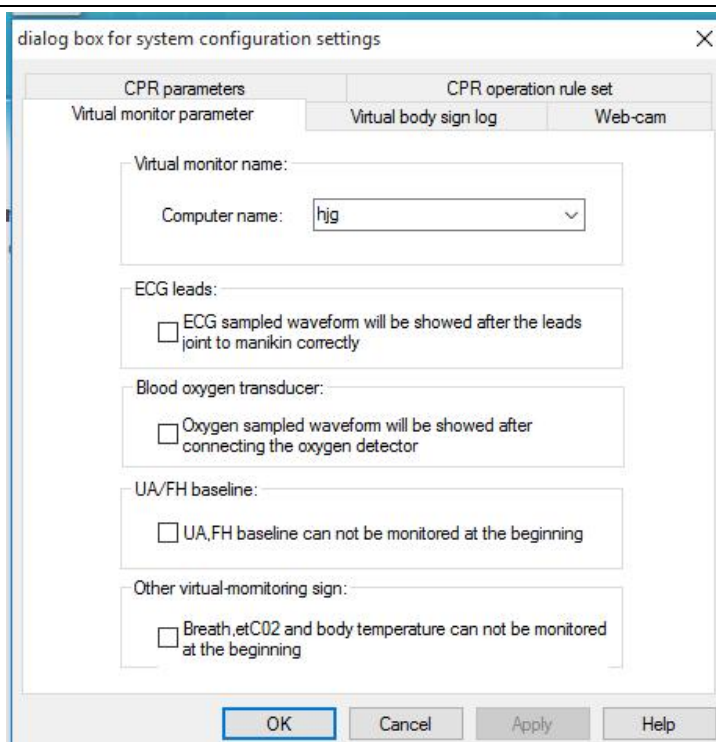
Virtual monitor parameter	Virtual body sign log	Web-cam
CPR parameters		
CPR operation rule set		
Range of compression depth: Mini-press depth: 50 mm Max-press depth: 60 mm		Blowing tidal volume range: Minimum tidal volume: 500 mL Maximum tidal volume: 1000 mL
Give CPR cycle operation mode: ☐ Standard operation mode ☒ Actual operation mode		
CPR operation tuner hint: ☐ Non-tuner ☒ Tuner		
CPR operation warning tone: ☐ Non-warning tone ☒ Warning tone		
OK Cancel Apply Help		

CPR operating rules setting:

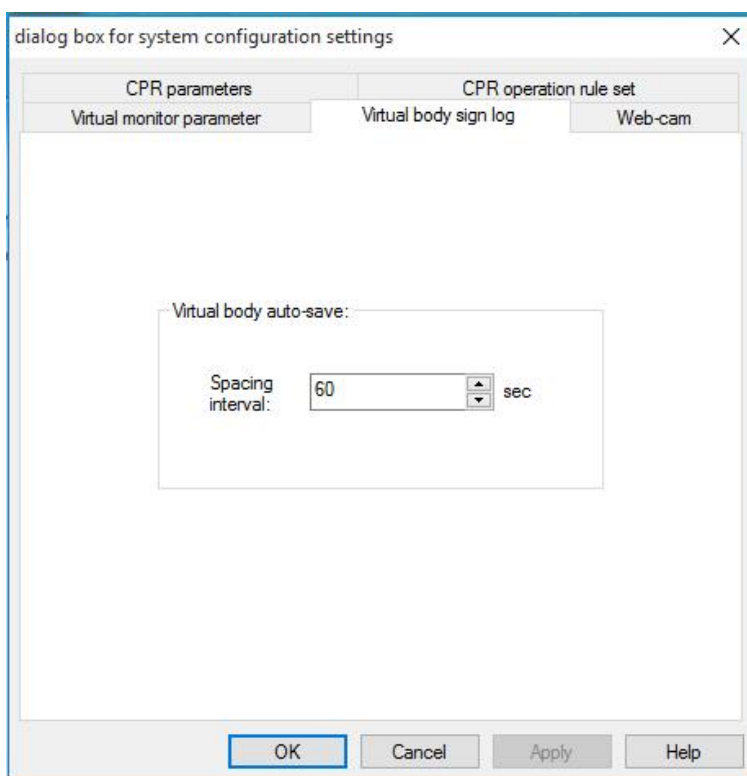
dialog box for system configuration settings

Virtual monitor parameter	Virtual body sign log	Web-cam
CPR parameters		
CPR operation rule set		
☐ Non-Professional rescuer Chest pressing times: 150		
☒ Professional rescuer ☐ 3 cycles of CPR operation ☒ 5 cycles of CPR operation		
OK Cancel Apply Help		

Virtual monitor parameters setting:



Virtual monitor parameters setting:



5. Script editing

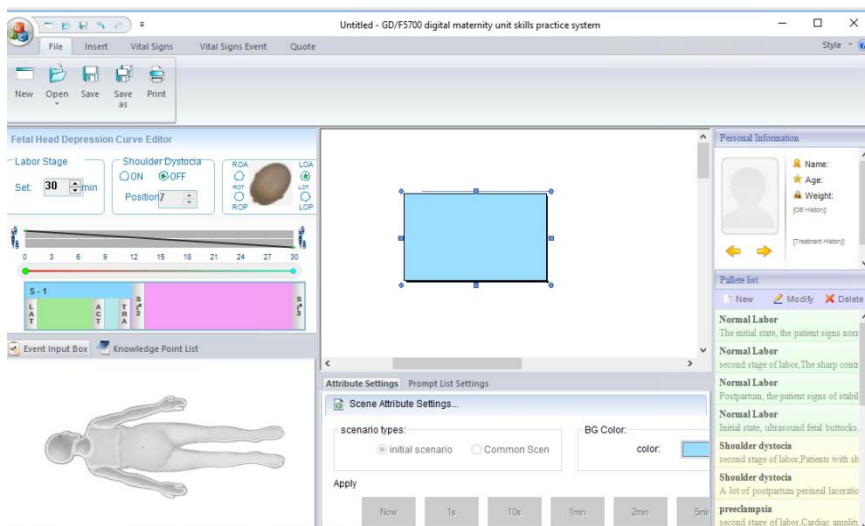


Method 1: Click to enter script editing software.

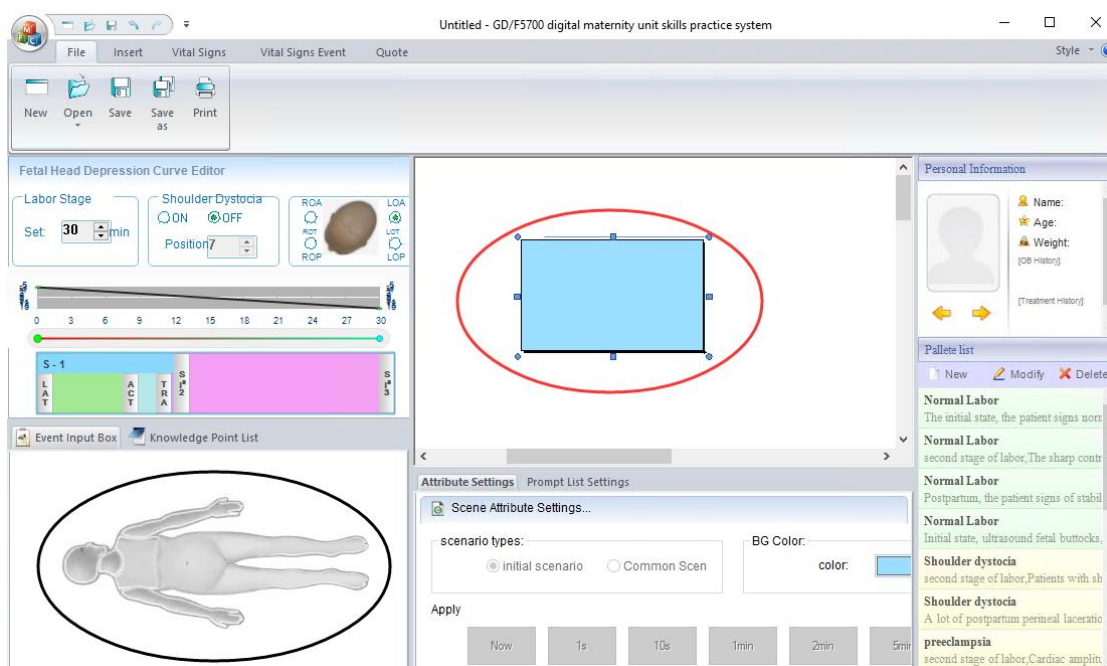


Method 1: Click to enter script editing software.

Software interface of gravida delivery script is shown as follows:



Script editing interface is divided into 7 parts: the upper side is menu bar and tool bar. Left area includes fetal head descent curve editing, event and knowledge point. The middle part includes cases designing area, attributes and prompts. Right part includes personal information and list information.



Menu and tool bar:

"File" menu introduction:

Create: Create new script, shortcut key is Ctrl+N.

Open : Open scripts existed. There are 14 in all.

Save : Save script that is designed currently. shortcut key is Ctrl+S.

Save as : Save current script as other places or names.

Print : Print script that is opened currently.

“Insert” menu introduction:



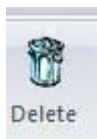
: create new scene box.



: Create new event box, including combined event box and selective event box.



: Connect scene box and event box.



: Delete scene box or elements in it , delete event box or events in it, delete connection line.



: Revoke operation of users or recover to original operation of users.

“Vital sign” menu includes settings of physiologic parameters, delivery parameters, auxiliary examinations and other parameters. It is available to conduct different settings of vital signs in scene boxes.

“Vital sign event” menu includes defibrillation, pace-making, CPR operation, ABC event, administration and time. It is available to conduct different settings of vital sign events in scene boxes.

“Quotation” menu introduction:



Click : It shows gravida’s information bar, which enables to set the gravidas’ information.

Gravida's Info

Basic Information:

Name: Weight:
Age:

Medical History in Obstetrics:

Gravidity: Term: Preterm:
Full-term Birth: Induced Abortion: Parity:
Spont. Abortions: Antenatal Examination:
☐ Hypertension ☐ Venereal Disease ☐ Tuberculosis ☐ Hemopathy
☐ Allergic History ☐ PROM/PPROM ☐ Diabetes ☐ Hereditary Disease
☐ Viral Infection ☐ Liver and Kidney Disease Medical History:
Menstrual History: Surgical History:

Treatment History:

☐ None ☐ O2 ☐ AROM ☐ CPR
☐ IV Started ☐ Fluid Therapy ☐ Pain-Meds ☐ Epidural Anesthesia
☐ FSE ☐ IUPC

Catheterization:

Difficulty: Have or Not Have Hematuria:

Stage1 Stage2 Stage3

Fetal Lie: Dilation:
Station: Pain:
Bleeding Condition: Membranes:
Others:

Delivery Patterns:

☐ SVD ☐ Vacuum Extraction ☐ Caesarean
☐ Dystocia ☐ Breech Extraction ☐ Breech birth
Position of Obstetric Forceps:
Others:

Postpartum:

Fundus Height:
Degree of Perineum Laceration:

Neonatal Condition:

Apgar Rating: Birth Injury or Deformity:
Weight: Height:
Sex: umbilical cord:
Others:

Save

Cancel

ABC
ABC

Click  to set ABC event.  Save event added.  Recover system default event

list,  add new event,  delete events added.  Up  Down

Carry Out Measures

event list

quick event combination

estimate (E)
urgent handling (U)
airway (A)
breath (B)
cycle (C)

general check-up
abdominal examination
pelvic measurement
measure abdominal girth
ECG examination
CT scan
laboratory examination
blood collection from veins
insert catheter
insert stomach tube
gastrointestinal decompression
pass to the operating room
enquire about medical history
vaginal examination
DRE (digital rectal examination)
...

Accumulated Times:

1

OK

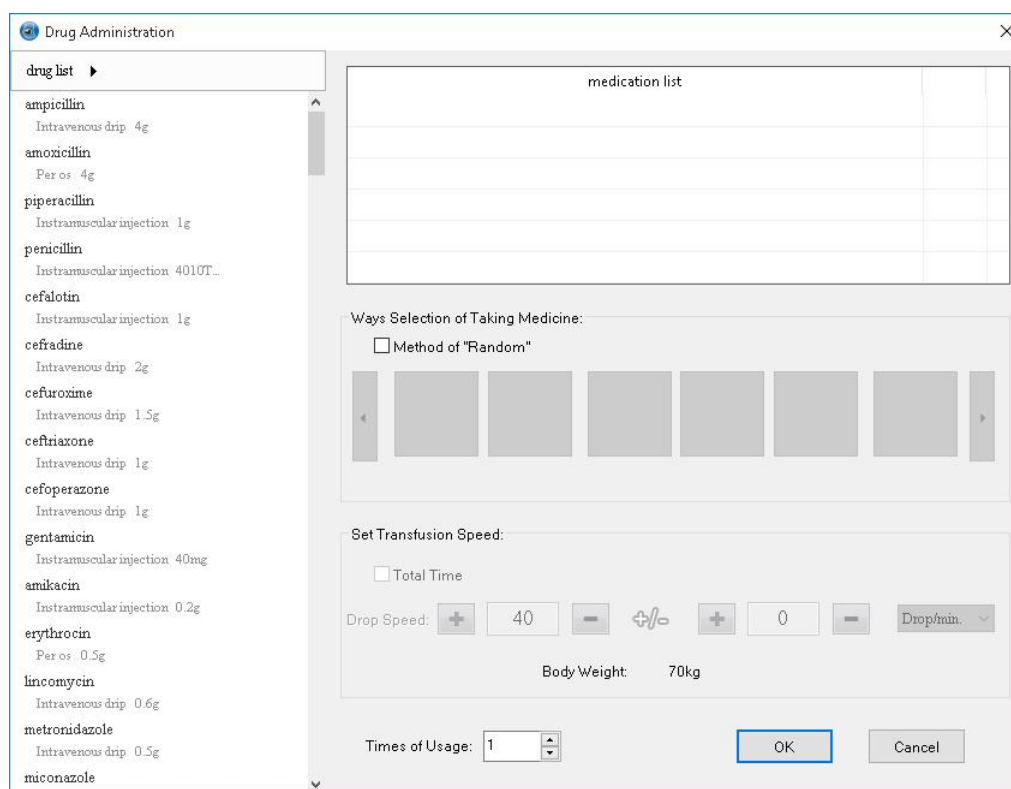
Cancel



Click  to show the drug administration list, which enables to select drug,  save

drugs added,  recover system default drug list,  add new drug, delete drugs added.

 Up  Down.



Fetal head descent curve editor:

Information of panel time: time of birth process could be set. shoulder dystocia;XXXX Fetal position editing.



Setting of fetal position editing:

Set

Position

3 -> 3 9 -> 10

Set rotation angle of fetal head

ROA(135°)

135 -> 180
180 -> 90

LOA(225°)

225 -> 180
180 -> 270

ROP(45°)

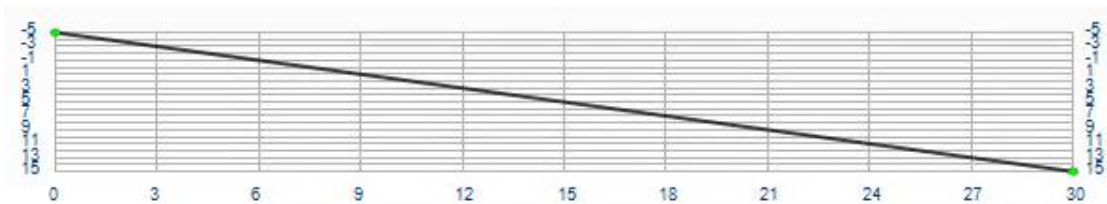
45 -> 0
0 -> 90

LOP(315°)

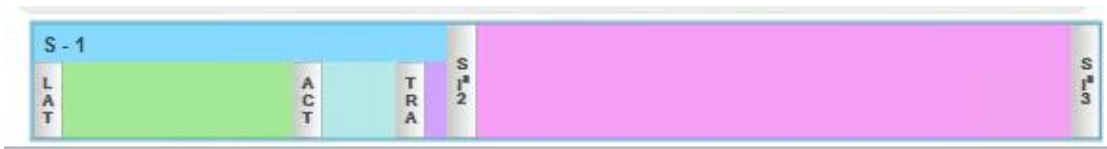
315 -> 360
360 -> 270

Reset Apply Cancel

Fetal head descent curve: right click to add positions of fetal head descent or right click to delete.

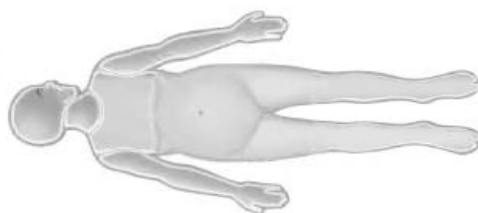


Scene positions: right click to add scene point in the scene line. It is available to set normal scene, shoulder dystocia scene, cesarean scene or right click to delete scene point.

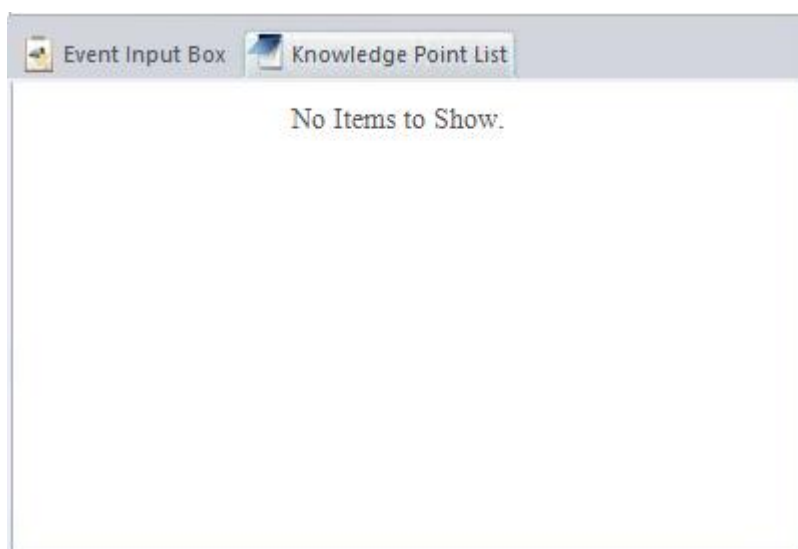


Event and knowledge point:

Create new event box in cases designing area. Double click event box, the color of picture of simulated human in the event input box will turn to yellow from gray. Click any part of the body to choose different event to show events selected in the event box.



Knowledge point list: show knowledge point of current cases.



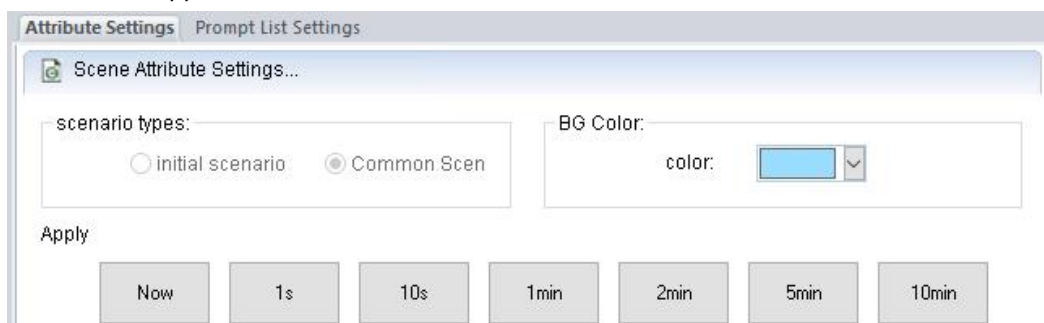
Attributes and prompts:

Attributes setting: include scene attributes setting, scene attributes setting and event attributes setting. Scene is composed of one to multiple scenes and events.

Scene attributes setting: it is available to edit scene description, scenes and types.



Scene attributes setting: it is available to choose types of scene and background color of scene. Scene application time can also be set.



Event attribute setting: Settings of event description, type of events and background color of event box are applicable.

Attribute Settings
Prompt List Settings

Scene Attribute Settings...

scenario types:
☐ initial scenario
☒ Common Scen

BG Color:
color:

Apply

Now
1s
10s
1min
2min
5min
10min

Prompt list setting: enter the content of knowledge point in the prompt list, click  to save. It is available to show the content entered in the knowledge point list on the right side.

Prompt list

Name:


Content:

Personal information module: it is able to choose module existed. It is also available to edit personal information by yourselves.

Personal Information



←
→

Name:
Age:
Weight:
[OB History]:
[Treatment History]:

Click profile photo, dialogue box of gravida information will be displayed. Add relevant information and click save to build a new template.

Gravida's Info

Basic Information:

Name:
Weight:

Age:

Medical History in Obstetrics:

Gravidity: Term: Preterm:

Full-term Birth: Induced Abortion: Parity:

Spont. Abortions: Antenatal Examination:

☐ Hypertension ☐ Venereal Disease ☐ Tuberculosis ☐ Hemopathy

☐ Allergic History ☐ PROM/PPROM ☐ Diabetes ☐ Hereditary Disease

☐ Viral Infection ☐ Liver and Kidney Disease Medical History:

Menstrual History: Surgical History:

Treatment History:

☐ None ☐ O2 ☐ AROM ☐ CPR

☐ IV Started ☐ Fluid Therapy ☐ Pain-Meds ☐ Epidural Anesthesia

☐ FSE ☐ IUPC

Catheterization:

Difficulty: Have or Not Have Hematuria:

Stage1 Stage2 Stage3

Fetal Lie: Dilation:

Station: Pain:

Bleeding Condition: Membranes:

Others:

Delivery Patterns:

☐ SVD ☐ Vacuum Extraction ☐ Caesarean

☐ Dystocia ☐ Breech Extraction ☐ Breech birth

Position of Obstetric Forceps:

Others:

Postpartum:

Fundus Height:

Degree of Perineum Laceration:

Neonatal Condition:

Apgar Rating: Birth Injury or Deformity:

Weight: Height:

Sex: umbilical cord:

Others:

Save

Cancel

List information: it shows templates of vital signs of cases.

Palette list

New

Modify

Delete

Normal Labor

Initial state, ultrasound fetal buttocks,

Shoulder dystocia

second stage of labor,Patients with sh

Shoulder dystocia

A lot of postpartum perineal laceratio

preeclampsia

second stage of labor,Cardiac amplitu

Uterine rupture

first stage of labor , uterine cramp

It is available to drag templates existed to cases designing area directly.

Pallete list

New Modify Delete

Normal Labor
Initial state, ultrasound fetal buttocks,

Shoulder dystocia
second stage of labor, Patients with sh

Shoulder dystocia
A lot of postpartum perineal laceratio

preeclampsia
second stage of labor, Cardiac amplitu

Uterine rupture
first stage of labor , uterine cramp

Or click "Create" , dialogue box of vital sign template will be popped up. And then build a new template.

Sign template edit dialog box

sign settings labor parameters

Comple:

Type:

Complex:

Normal Faint Medium Strong Pale

Parameters of

Respiration modes:

Times respiration: ☒ times/min: ☐ (±%)

PAPsys: / PAPdia: ☒ mmHg ☐ (±%)

etCO2: ☒ mmHG ☐ (±%)

Heat rate setting:

Name: ...

HR ☒ times/min: ☐ (±%)

temperature: °C

Other parameters:

☐ amount colporrhagia ☐ Convulsion of four limbs

☐ Sweat ☐ N/A ☐ Little ☐ N/A ☐ Weak convulsion

☐ Weep ☐ Normal ☐ Hemorrhoea ☐ strong convulsi ☐ Strong convulsion

☐ Amniotic fluid

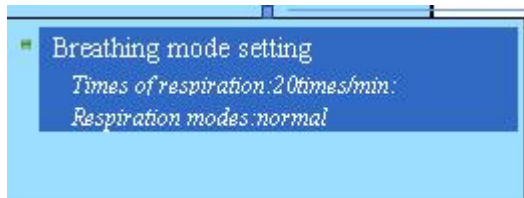
Now 10sec 1min 2min 5min 10min

Select template of vital signs, click  to change the content of template or click

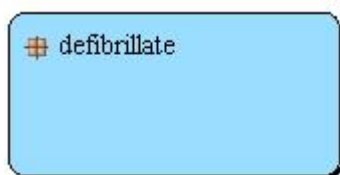
 to delete the template.

Cases designing area:

Scene box: scene means the case status at some time, including each vital signs, auxiliary examination, etc.

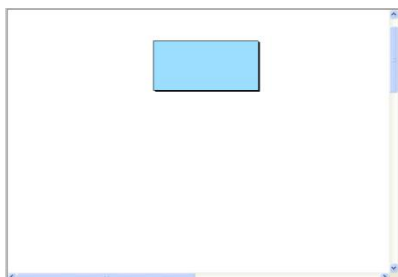


Event box: Event means the operation of some time, including treatments like CPR, drug administration. Select different event box in according to different projects selected, including selective event box and compound event box. Selective event box only requires one of the events and case script can still run. Compound event box requires all the events, which is the premise of continuous running of case script.

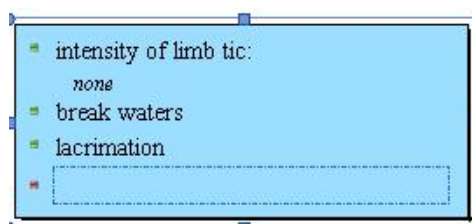


Edit script cases

Edit new script: Click "File" ---- "Create ". There will be a new scene box in the cases designing area, which enables to conduct the script editing.



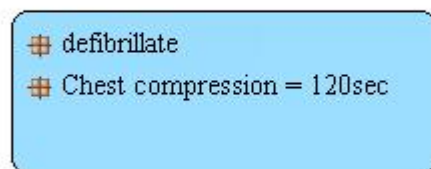
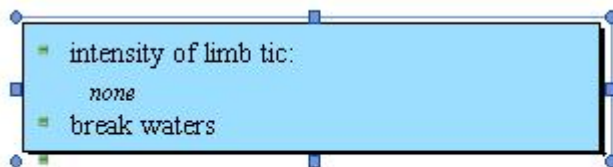
Build scene box: click "Insert" --- "Create scene box ", then there will be a new scene box in the cases designing area. Double click scene box to select different parameters of vital signs. And then double click scene box to add multiple vital signs.



Build event box: Click "Insert" --- "Create event box ", select "selective event box" or "compound event box", there will appear a new event box when clicking in cases designing area. Double click the event box to choose different vital sign event. Double click the event box again to add multiple vital sign events.



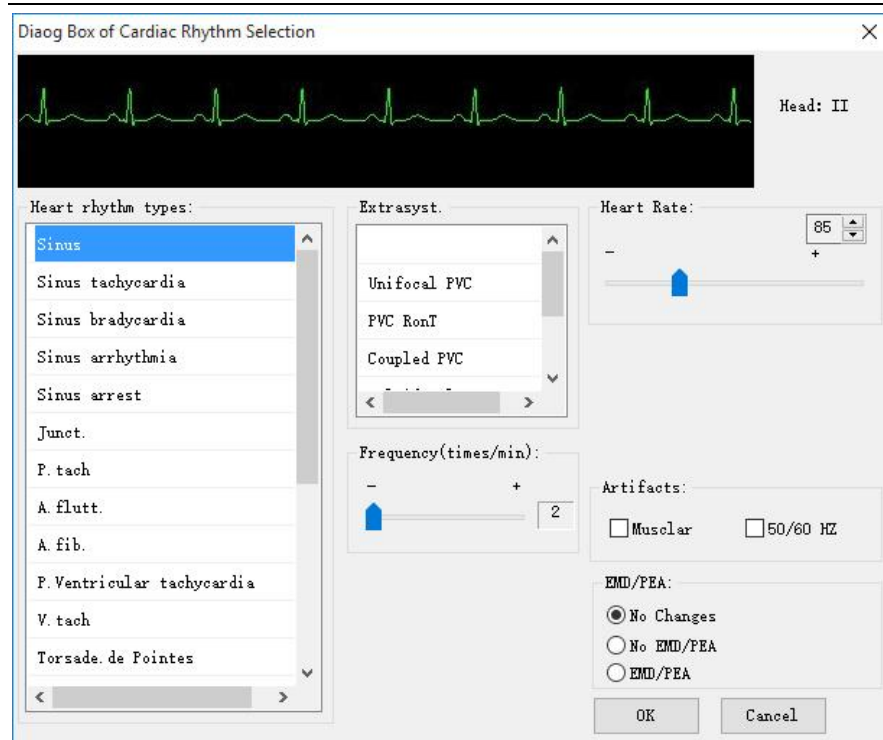
Connect scene box with event box by line. Click "Insert" ----" Link operation ", or directly link scene box and event box with mouse. In this way, a scene is built. Multiple scenes are allowed in a script. Build a new scene point in the scene line. Click the scene point to enter the next scene designing. Two scene boxes cannot be linked by line. So do the event boxes.



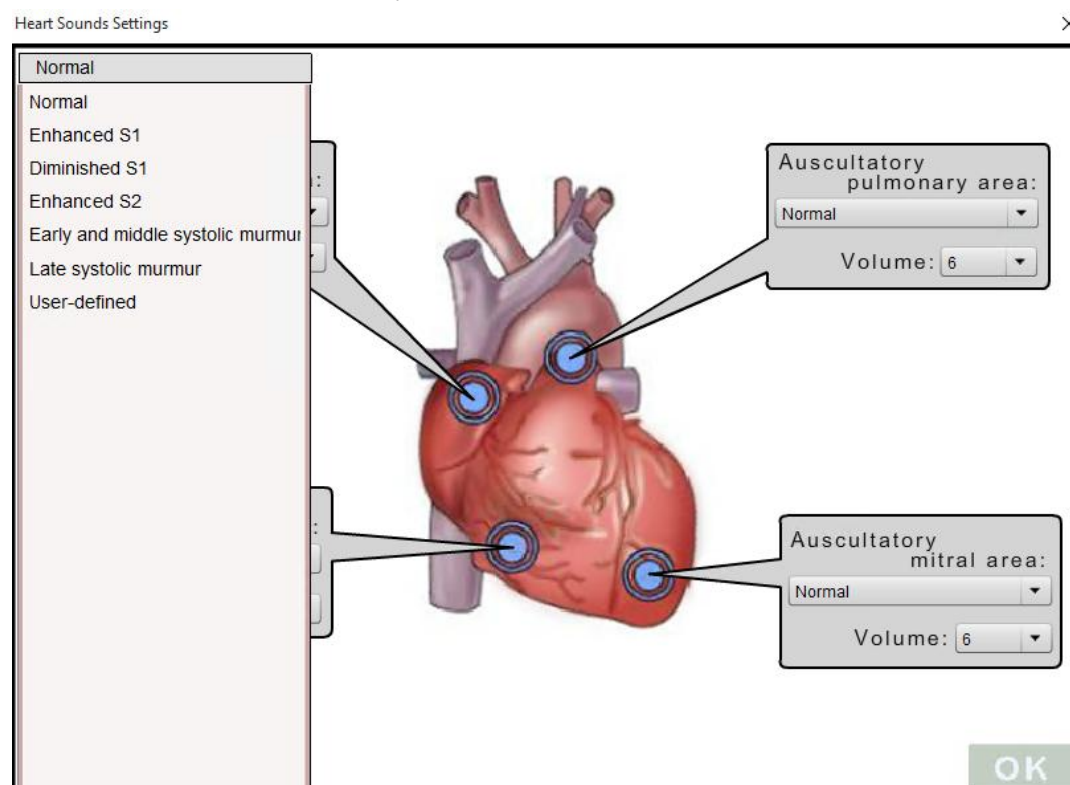
Vital signs setting: build scene box to select different vital signs.

Parameter settings of physiological signs:

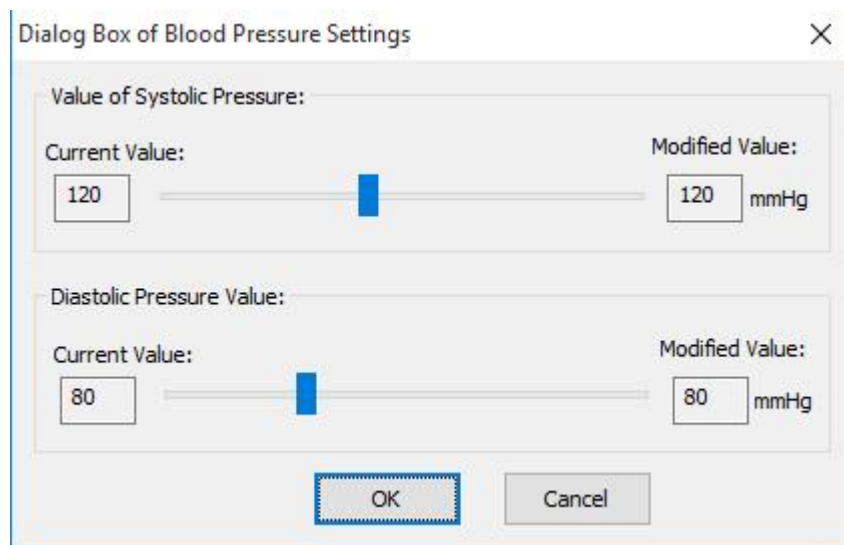
Click "heart rate" to set parameters of heart rate.



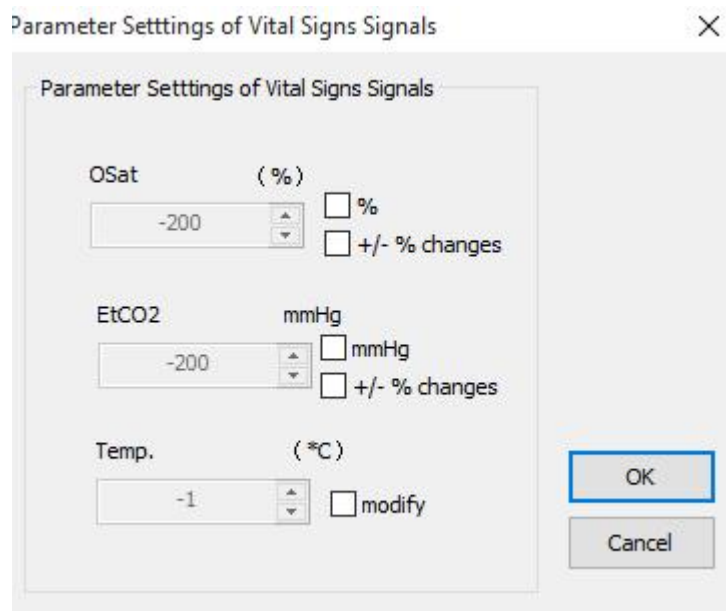
Click “Cardiac sounds” to set parameters of cardiac sounds.



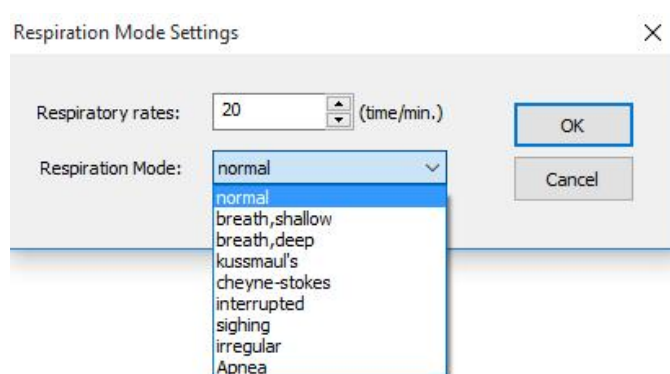
Click “Blood pressure” to set parameters of blood pressure.



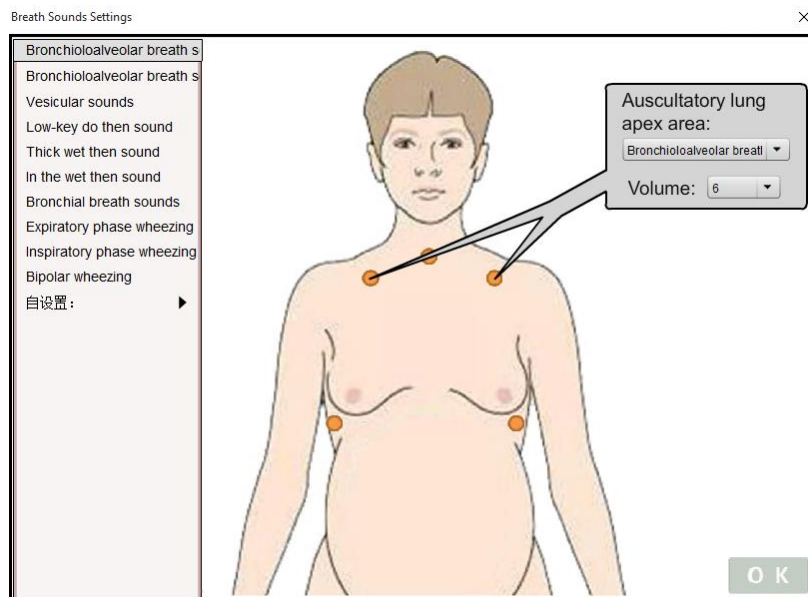
Click “Blood oxygen” to set parameters of blood oxygen.



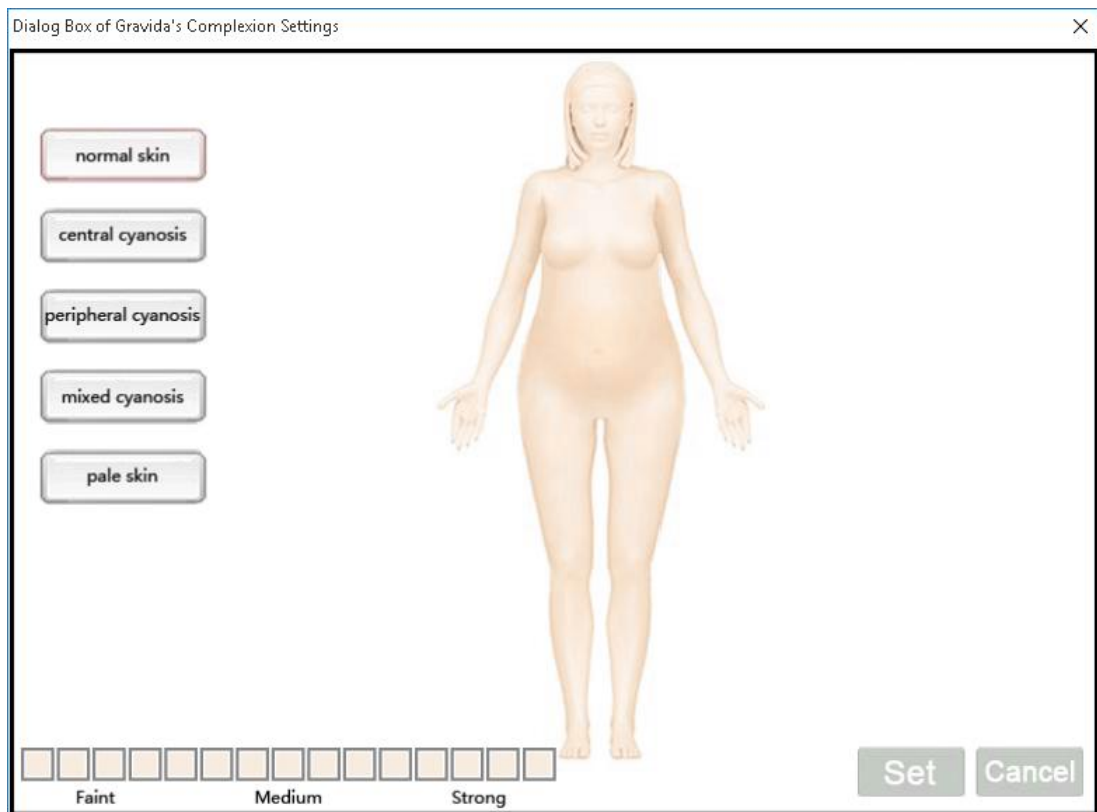
Click “Types of breath”, the dialogue box shown as picture will be displayed, which enables to set the parameters of breath.

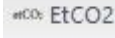


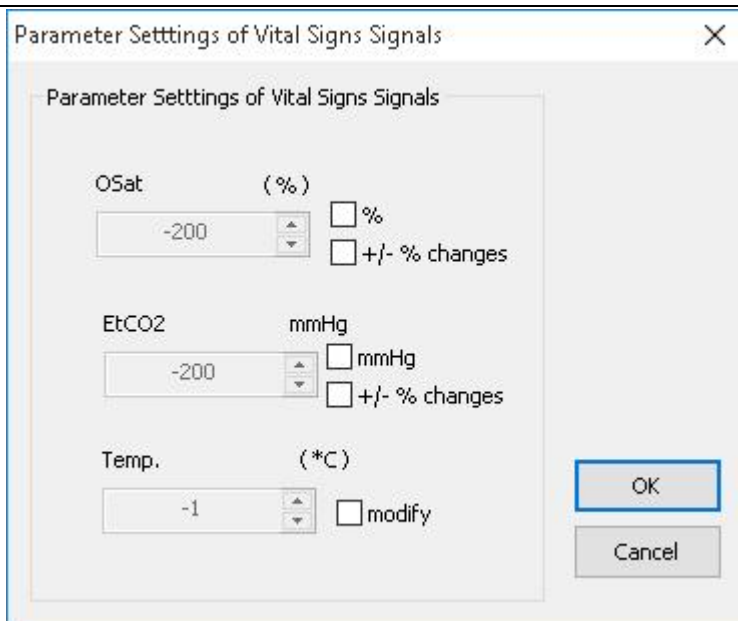
Click “Breath sounds” to set the types and positions of breath sounds.



Click “Gravida complexion” to set the complexion of gravida.



Click  to set parameters of partial pressure of carbon dioxide.



Parameter Settings of Vital Signs Signals

OSat (%)

-200 ☐ %
☐ +/- % changes

EtCO2 mmHg

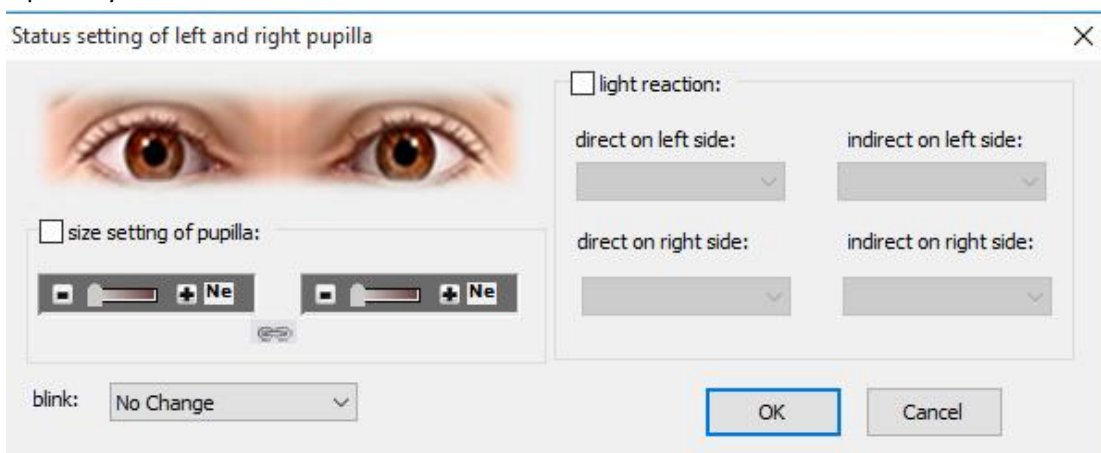
-200 ☐ mmHg
☐ +/- % changes

Temp. (*C)

-1 ☐ modify

OK Cancel

Click “Pupilla” to set pupilla. It is available to set the status of blink as Yes or No. Also, the sizes of pupilla could be set respectively and correlatedly . Setting of direct or indirect light reaction is also available, including statuses of normal, none and slow and they can be set separately.



Status setting of left and right pupilla

☐ size setting of pupilla:

☐ light reaction:

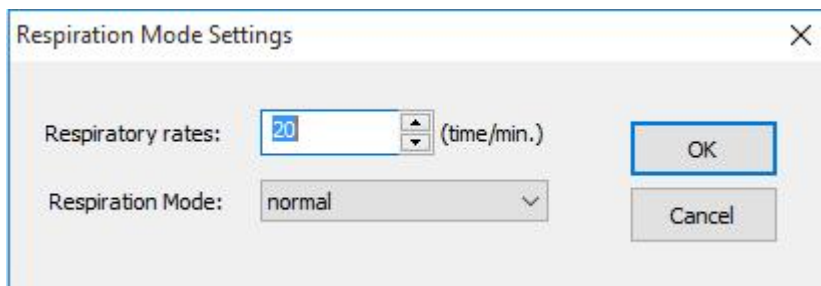
direct on left side: indirect on left side:

direct on right side: indirect on right side:

blink: No Change

OK Cancel

Click “Airway obstruction” to set airway obstruction. There are two statuses including Yes and No.



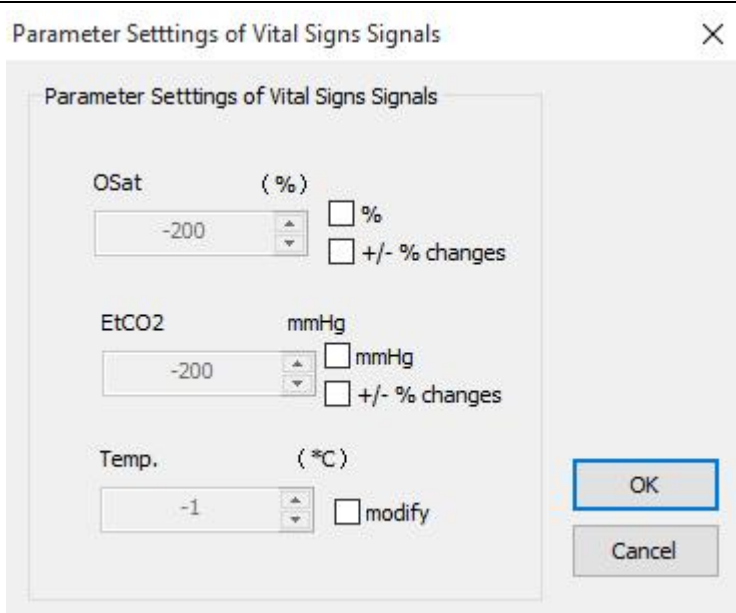
Respiration Mode Settings

Respiratory rates: 20 (time/min.)

Respiration Mode: normal

OK Cancel

Click “Temperature” to set body temperature of simulated human.



Parameter Settings of Vital Signs Signals

OSat (%)

-200 ☐ %
☐ +/- % changes

EtCO2 mmHg

-200 ☐ mmHg
☐ +/- % changes

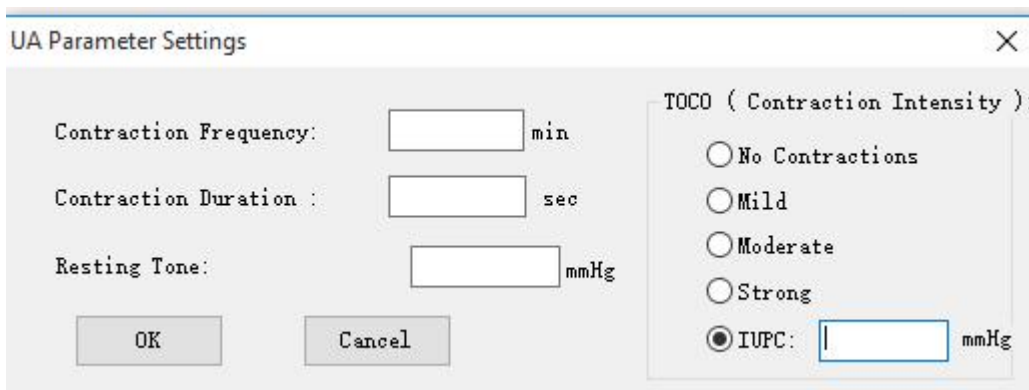
Temp. (°C)

-1 ☐ modify

OK Cancel

Settings of delivery parameters:

Click “Uterine contraction” to set the parameters of uterine contraction, including the interval, duration of uterine contraction, intrauterine pressure and intensity.



UA Parameter Settings

Contraction Frequency: min

Contraction Duration : sec

Resting Tone: mmHg

OK Cancel

TOCO (Contraction Intensity):

☐ No Contractions

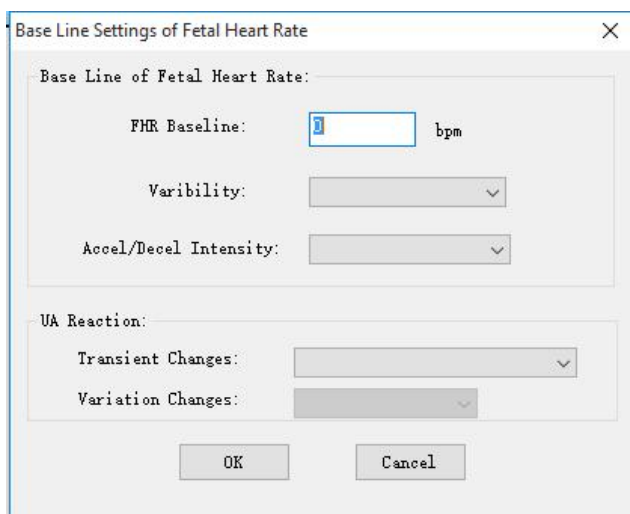
☐ Mild

☐ Moderate

☐ Strong

☒ IUFC: mmHg

Click “FHR-baseline” to set parameters of FHR-baseline, including baseline features and transient change characteristics.



Base Line Settings of Fetal Heart Rate

Base Line of Fetal Heart Rate:

FHR Baseline: bpm

Variability:

Accel/Decel Intensity:

UA Reaction:

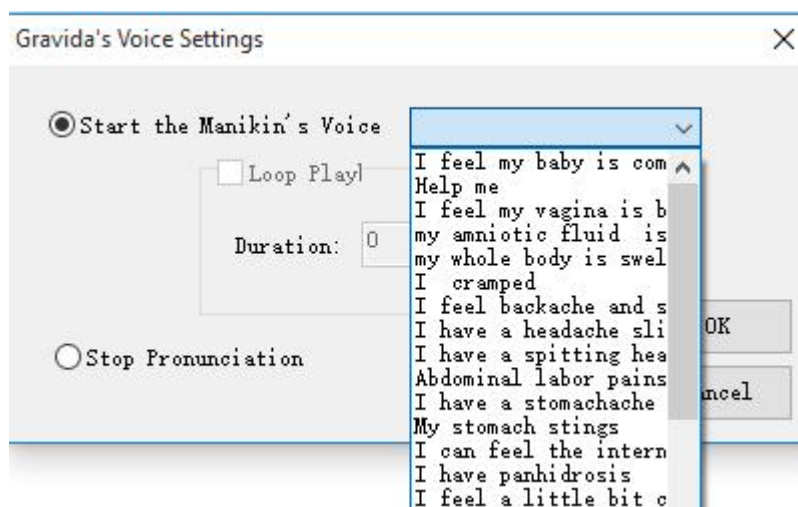
Transient Changes:

Variation Changes:

OK Cancel

Settings of other parameters:

Click “Simulated human articulation” to set articulation of simulated human. The system provides various simulated voices. It is available to set loop playback, fixed time to play or stop articulating.

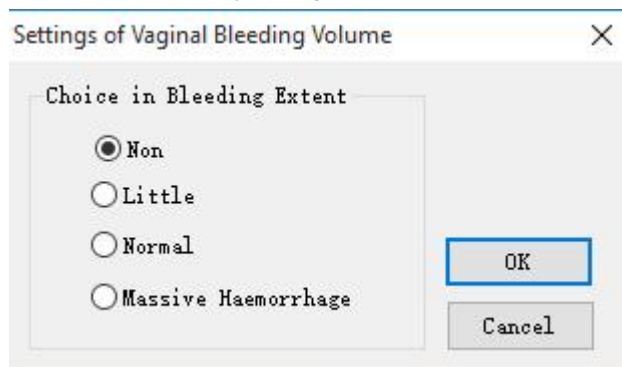


Click “Sweat” to set the sweat status of simulated human.

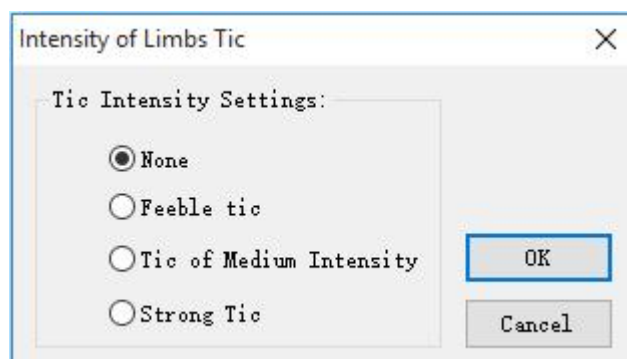
Click “Weep” to set the weep status of simulated human.

Click “Amniotic fluid” to set the status of amniotic fluid rupture .

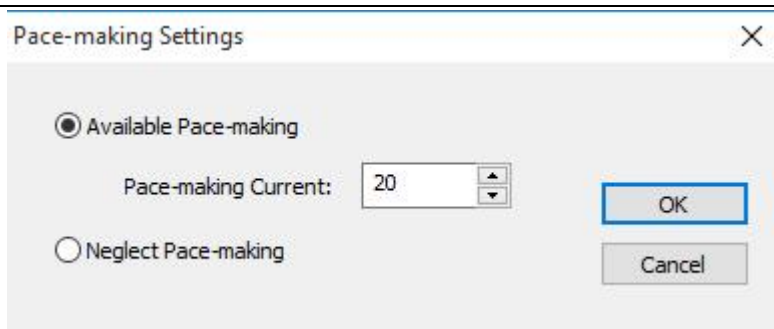
Click “Amount of colporrhagia”. It is available to set the amount of colporrhagia.



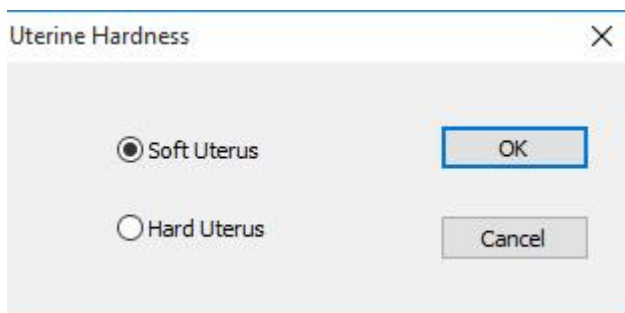
Click “Limbs convulsion” to set the convulsion status of simulated human. It is available to set the intensity of convulsion.



Click “Pace-making setting” to set pace-making. It is available to set various pacing current.

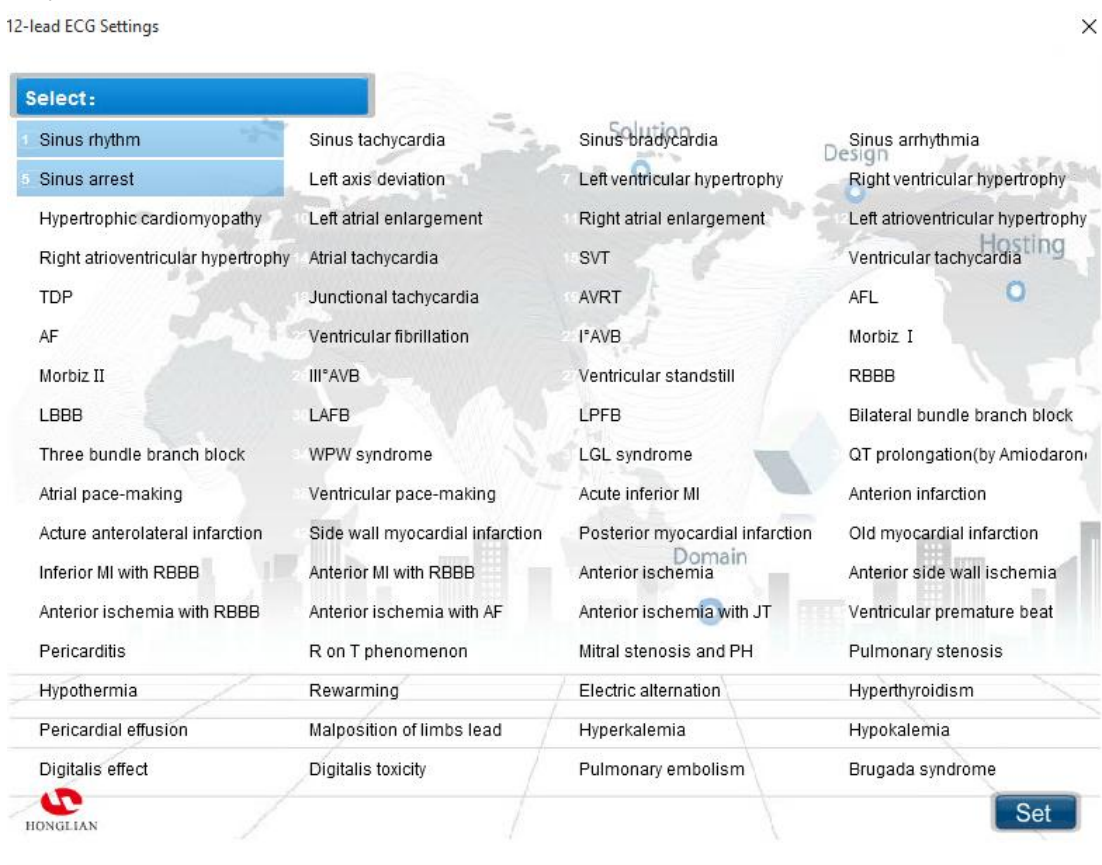


Click "Uterine hardness" to set the uterine hardness.



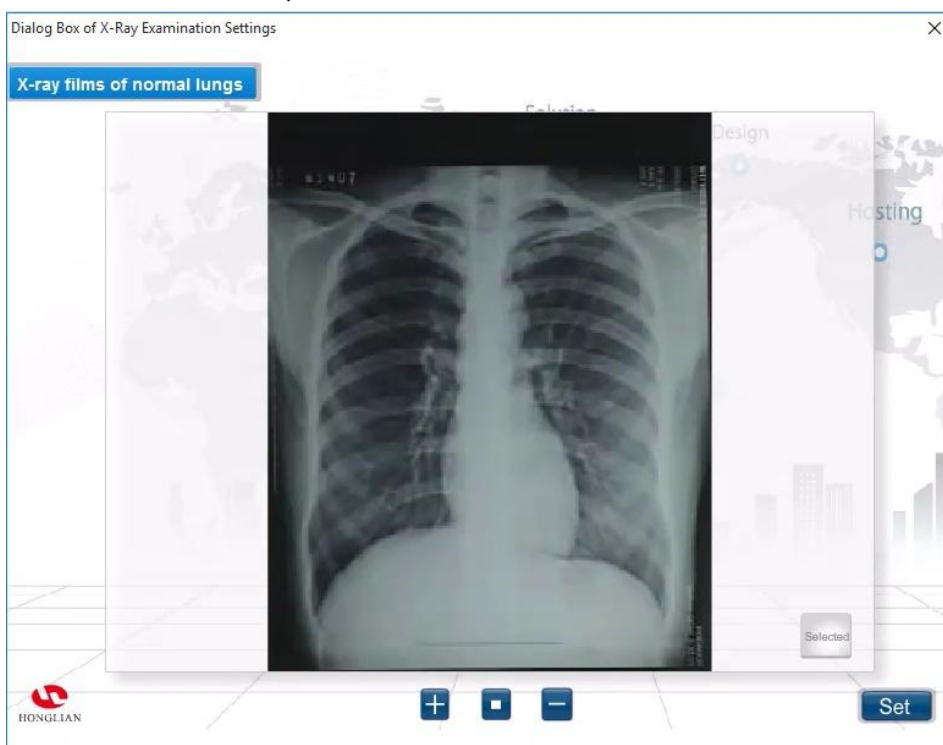
Settings of parameters of auxiliary examination.

Click "12-lead ECG", then dialogue box of 12-lead ECG will be displayed, which enables to set the parameters.

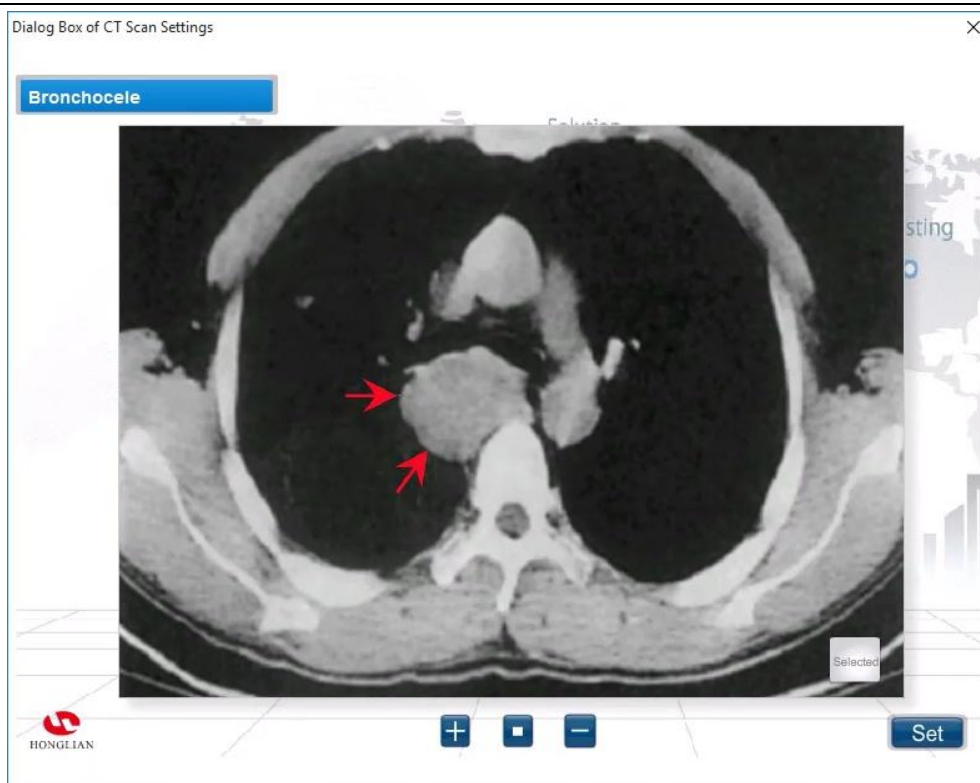




Click “X-Ray film”, then dialogue box of the result of X-Ray examination will be displayed, which enables to set the parameters.



Click “CT examination”, then dialogue box of the result of CT examination will be displayed, which enables to set the parameters.



Click “Ultrasound”, then dialogue box of the result of ultra-sound examination will be displayed, which enables to set the parameters.



Click “Ultra-sound sheet”, then dialog box of the result of B ultra-sound examination will be displayed.

Ultrasonic Examination Settings

Early pregnancy

Honglian Medical Center Inspection Report

Name : XXX Gender : Female Age : XX
 Inspection item : Abdominal type-B ultrasound Department : Gynecology and obstetrics Inspection Date : 00-00-00
 Clinical diagnosis :

Inspection records : Position of fetus : ROA

Fetus : BPD : cm HC : cm
 FL : cm AC : cm
 HL : cm HR : /min
 AFI : Spine : Normal

Placenta location : Anterior wall Placental thickness : cm
 GP : 0 Placenta lower edge :
 Fetal movement : Visible Umbilical artery S/D :
 PI : RI :

Others :
 Upper lip : Normal Left kidney : Normal Right kidney : Normal
 Cerebellar : Normal Abdominal wall : Normal Umbilical cord : Normal
 Bladder : Normal Stomach bubble : Normal Heart four chamber : Normal
 Tibia ribs : Normal Ulna and radius : Normal Intestinal : Normal

Inspection point :

Inspection date : 00-00-00 Examiner : Checked date:00-00-00 Checked by :

Set

Click “Laboratory examination”, then dialogue box of the result of laboratory examination will be displayed, which enables to set the parameters.

Dialog Box of Laboratory Examination Settings

Laboratory Choice List:

- ☐ Routine Blood Test
- ☐ Electrolyte
- ☐ Coagulation Function
- ☐ Oscar Test
- ☐ Liver Function
- ☐ Kidney Function
- ☐ Blood Sugar
- ☐ Blood Gas Analysis
- ☐ HBsAg
- ☐ Leucorrhea Routine
- ☐ Routine Urine Test

Routine Blood Test

Honglian Medical Center Inspection Report

Name : Department : Assay item : Routine blood test
 Gender : Beds No. : Clinical diagnosis :
 Age : Specimens species : Doctor :
 Sample # : Records No. : Sampling dates :

Item	Result	Reference Value
WBC		4.00~10.00 109/L
RBCI		3.50~5.50 1012/L
Hemoglobin		110~160 g/L
Hematocrit		35.0~47.0 %
MCV		75.0~100.0 fL
MCH		25.0~35.0 pg
MCHC		320~360 g/L
PLT		100~300 1000/L

OK Cancel

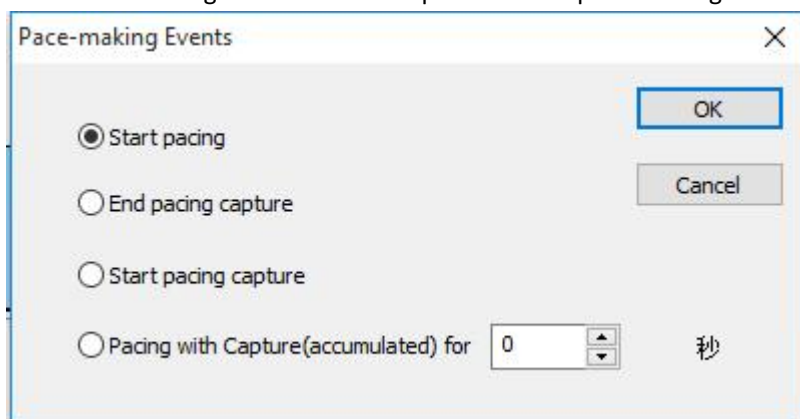
Setting of vital sign event parameters: build event box to select different vital sign events

Event item setting:

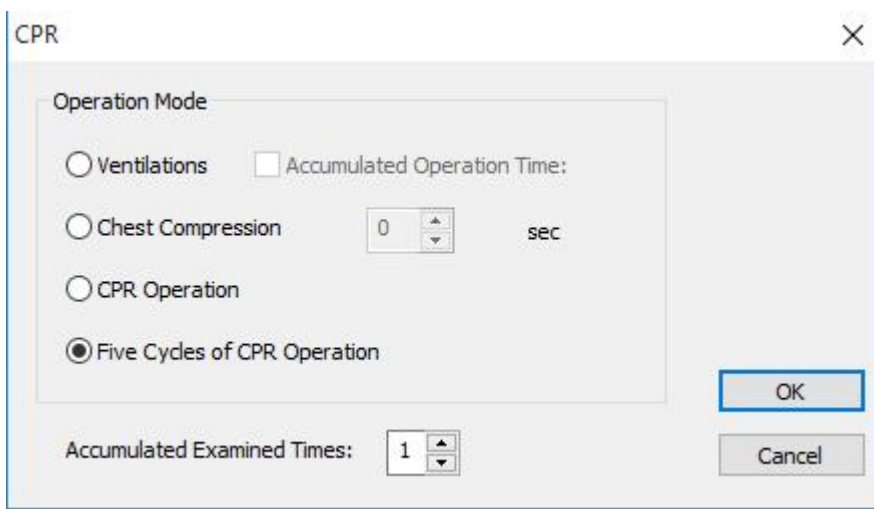
Click “Defibrillation” to set the times of defibrillation.



Click "Pace-making" to set the event parameter of pace-making event.

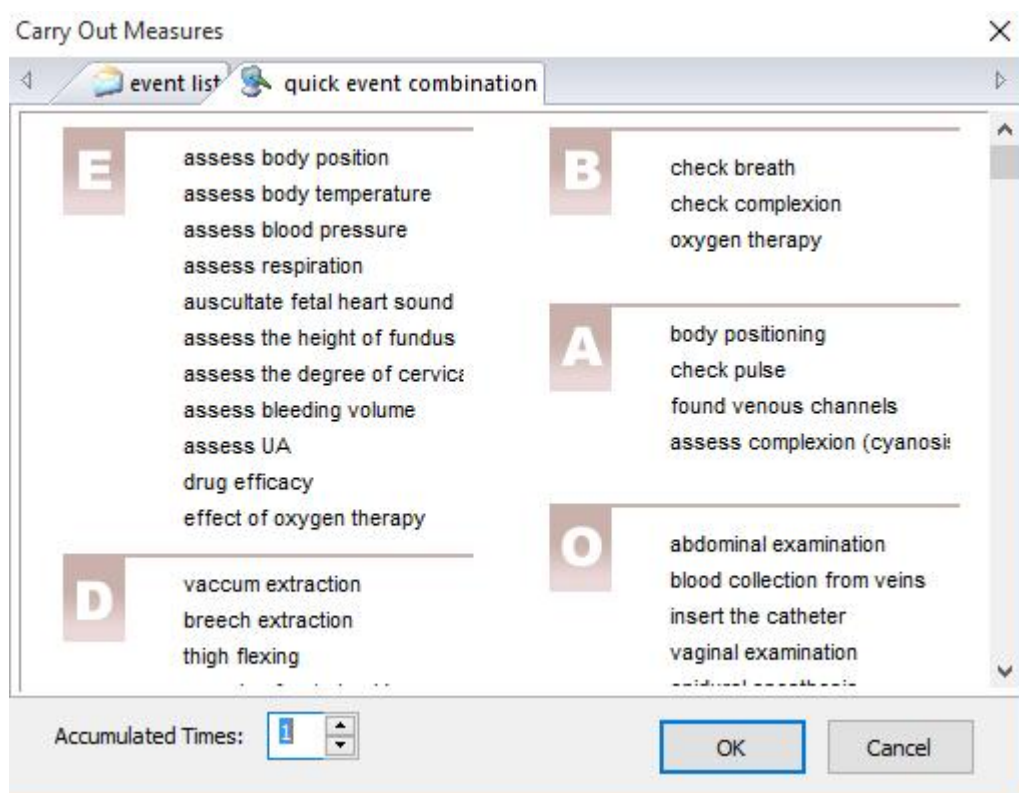


Click "CPR operation" to set the parameters of CPR.

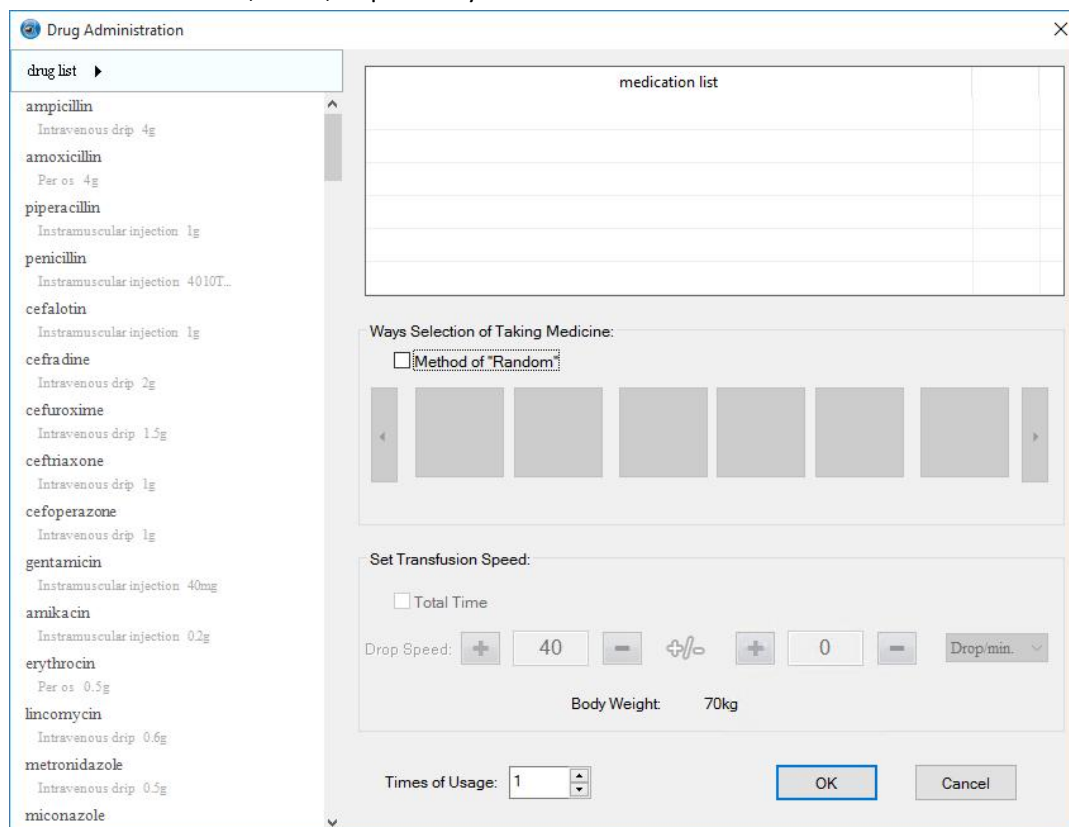


ABC

Click **ABC** to set the parameters of ABC event. It is divided into event lists and shortcut event combination, which is available to set the accumulated times of event.



Click “Drug administration” to set the drugs. It is available to set parameters of administration routes, times, drip velocity.



Other settings:

Click “Time” to set the time of patient and duration in the frame.



Repair and maintenance

1. Repair

- Use talcum powder to lubricate fetal head, birth canal and perinaeum when practicing to reduce the resistance in the process of delivery and midwifery in case laceration of perineum occurs, which may spoil the model.
- After simulating the endometrorrhagia, infusion, remained liquid should be evacuated.
- After practice on the model, soap water or clean water are available to be used to clean the model. And then dry it.
- The model should be packed and put in cool and dry place to extend its service life if it will not be used for a long time.

2. Maintenance

- The model is disceptible. Please take care of the nuts when it is dismantled.

There are spare parts equipped for replacement.

- When simulating operation related to liquid like amniotic fluid, weep, sweat, infusion and etc, purified water shall be injected in case other impurities in the water block the interface.

3. Cautions

- If any breakdown(except) happens caused by manufacturing technology or components in one year since purchase or in warranty period stipulated in the contract, our company will provide free repair service. Lifelong maintenance is guaranteed while cost is at users' expense.



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