


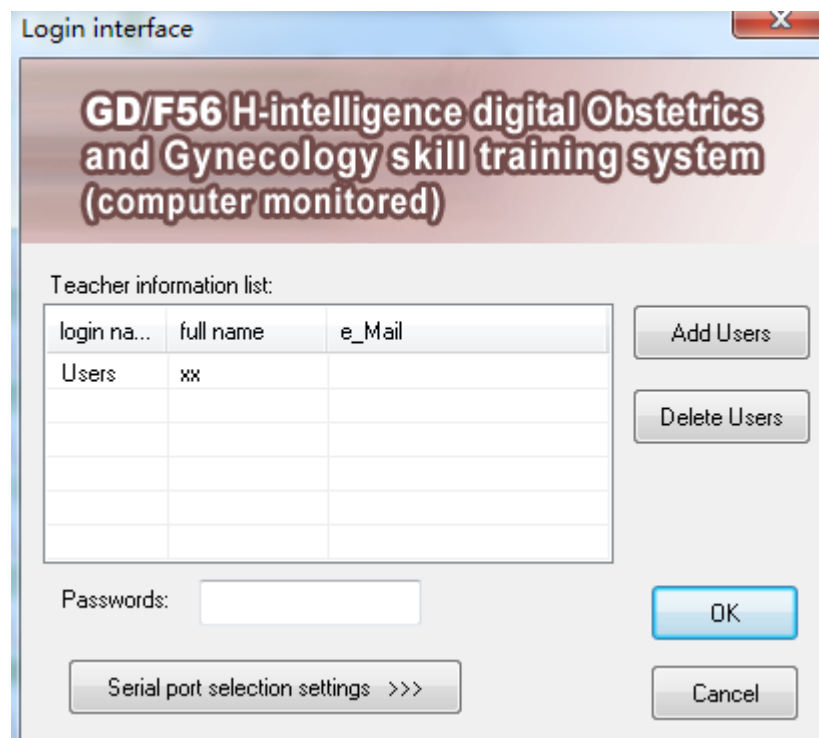
GD/F56 high intelligent digital training
system of obstetrics and gynecology skills
(computer-controlled)


Software user instructions


Operating Instructions of the Software System

A. The login interface

Double click  to enter the login interface directly

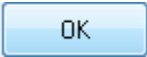



Select a login name , double click the login name or click  to enter the main interface.

Add login persons: click  and a dialogue box of adding new user information will be popped up. Fill in the information of user name, code, et al.



The screenshot shows a dialog box titled "Add new users info" with a close button (X) in the top right corner. The dialog contains five text input fields, each with a label to its left: "Login name of users :", "Full name of users :", "eMail :", "Passwords :", and "Confirm the passwords :". At the bottom of the dialog, there are two buttons: "OK" and "Cancel".

Click  , and the newly added user will appear in the teacher information list.

Delete login persons: click  , select the user name needed to be deleted, enter the code, and it is deleted.

B. Main interface introduction

The main interface is composed of the title bar, menu bar and the area for function displays.




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

Menu bar: contains almost all the commands in the system, in accordance with the functions of the function area.

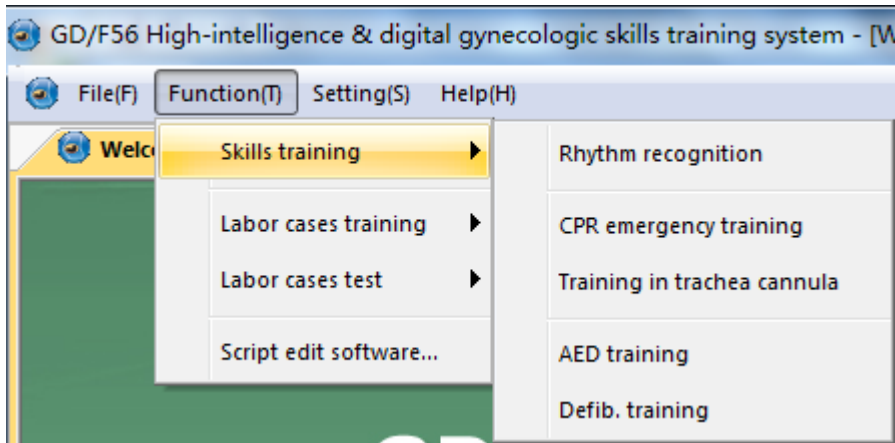
Function displaying area: is the most important part, displaying the main functions and components of this system at your visual, including special skill training, system script operation, system setting and script editing..

1. Special training

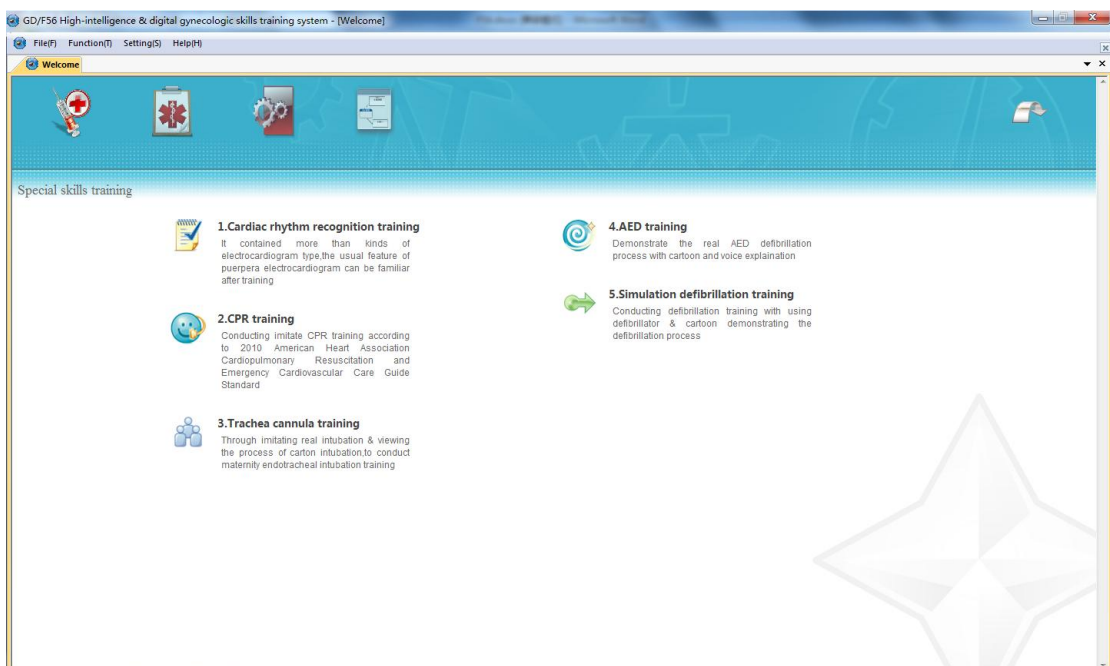


Method one : click  , and enter the main interface.

Method two : click "system functions→special skill training" , and enter the training content directly.




The special skill training interface is shown as below:



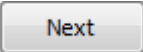

Special skill training includes training of rhythm recognition, CPR emergency, endotracheal intubation, simulated AED, and simulated defibrillation.

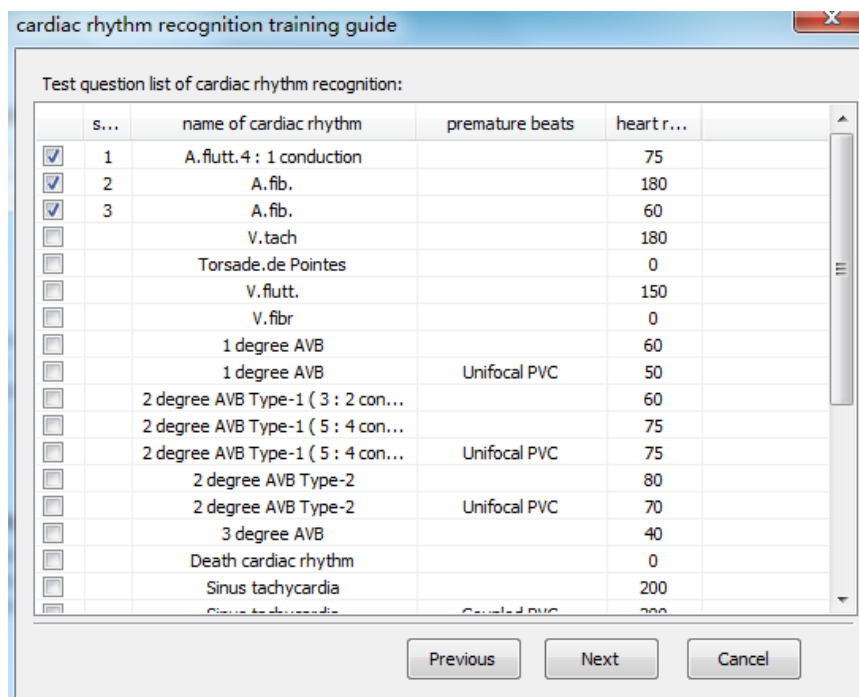
- Training of rhythm recognition
- Click the icon or the text portion to enter rhythm recognition training.

-  **1.Cardiac rhythm recognition training**
It contained more than kinds of electrocardiogram type,the usual feature of puerpera electrocardiogram can be familiar after training
- select cardiac rhythm recognition training settings , and click .

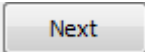


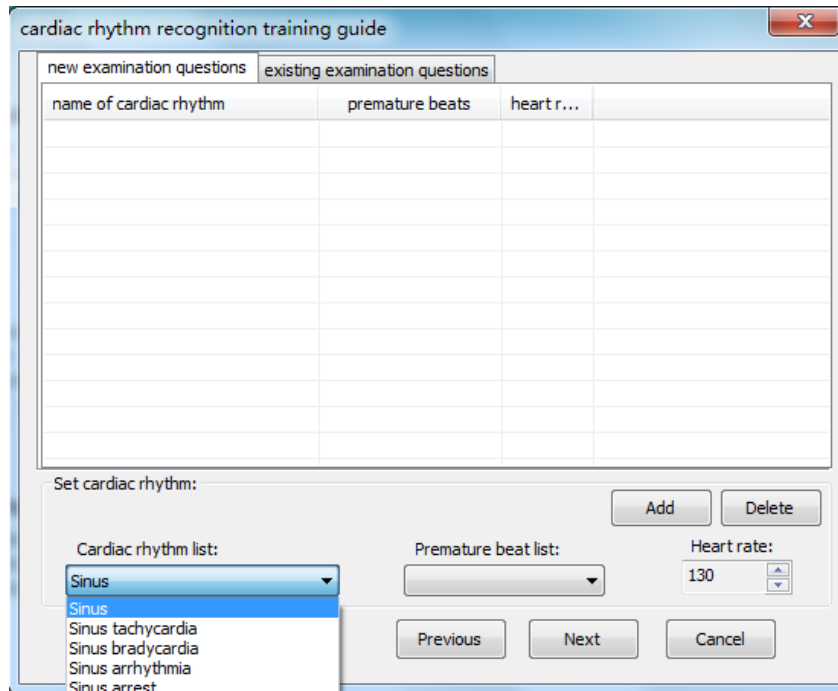
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➤ Select the appropriate questions , click  , and click  , then start doing the training questions.

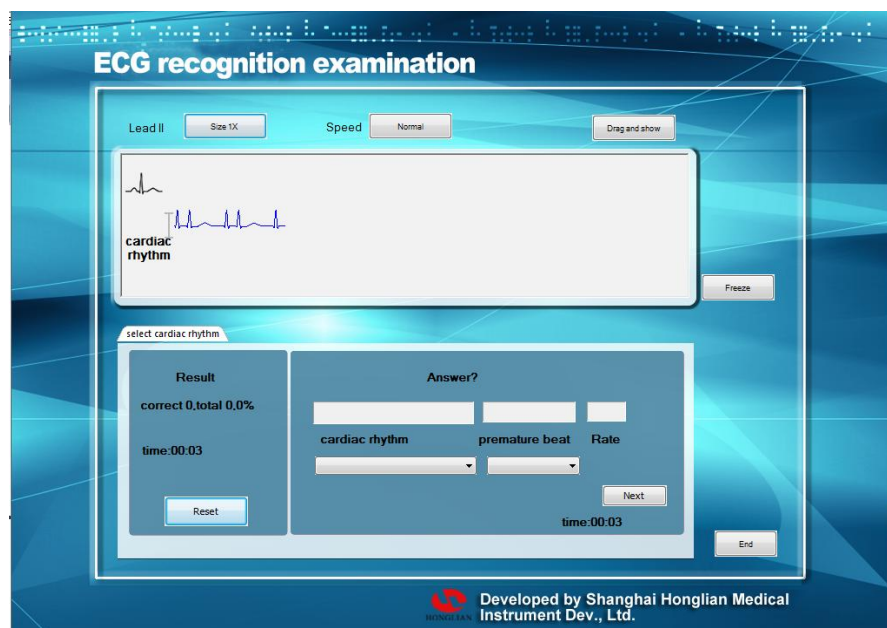


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➤ Select " settings of adding rhythm recognition questions " , and click  .

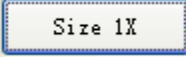
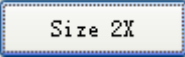


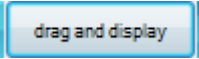

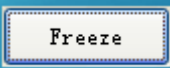

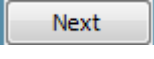
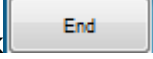


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- Click , and set the rhythm , or select from , click , click , and click to start the training questions.
- Delete the questions: select the question you want to delete , click , then the added question is deleted.
- Training interface.



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-   : show the magnification times of the ECG wave form.
-   : show that the ECG playing speed is normal or accelerated.
-   : show the displaying method of the ECG wave form.
-  : to freeze the ECG wave form, with ECG paper as the background.
-  : to restart the training.
- The training time is displayed at the left side, select the ECG name through the drop down box, click  , the correct answer is shown in the answer column , click  , and exit the training interface directly.
- Training of CPR emergency
- Click the icon or the text portion to enter the training of CPR emergency directly.

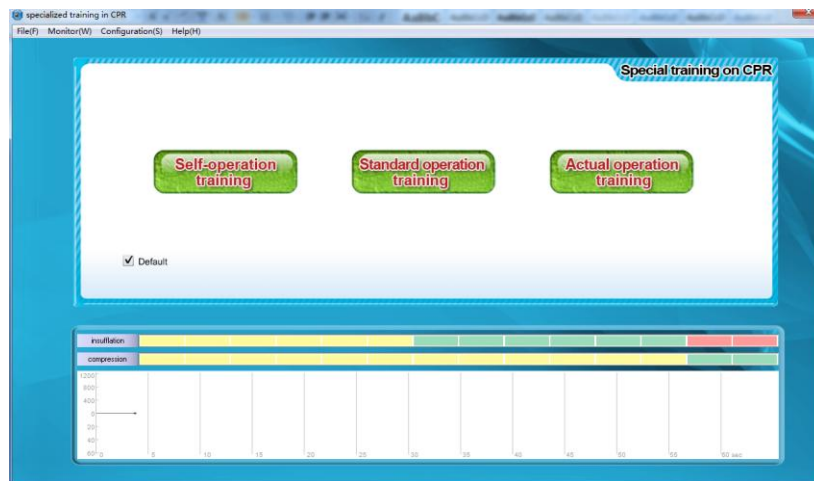


2.CPR training

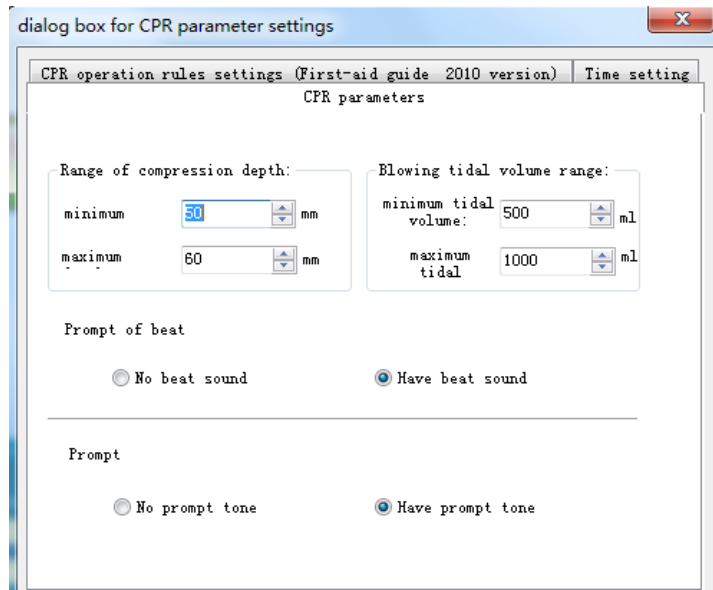
Conducting imitate CPR training according to 2010 American Heart Association Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Guide Standard

-
- There are three methods of training
- Self exercise: there is no requirement on the ratio of chest compressions and artificial respirations.

- Standard exercise : chest compressions and artificial respirations are performed with a ratio of 30 : 2. After 30 correct compressions (error compression does not count) are done, make 2 correct artificial respirations (error does not count).
- Actual practice : chest compressions and artificial respirations are performed with a ratio of 30 : 2. After 30 compressions (both right and wrong compressions are counted) are done, make 2 artificial respirations (both right and wrong respirations are counted).

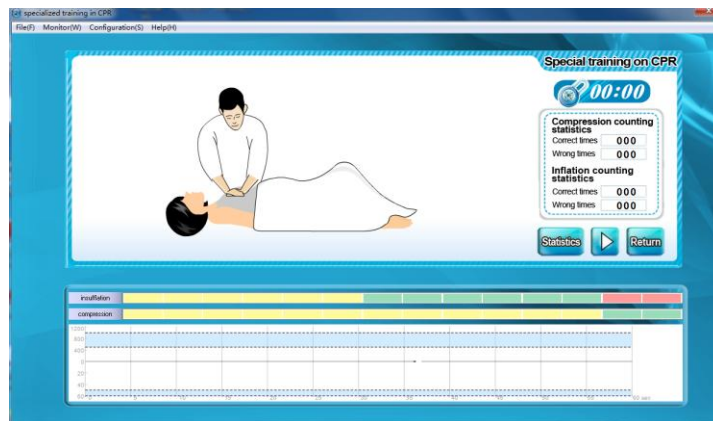


- Select any of the training methods , apply Default , or set the operation parameters yourself. Settings of parameters include compression depth, the tidal volume blown in, and operating time.




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➤ CPR interface



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- click  , and initialize the simulated patient.
- Perform CPR on the simulated patient, and synchronized operation demonstration flash will be played on the interface.
- Counting of compressions and inflation: the number of correct and wrong compressions are counted according to the compression depth, and the number of correct and wrong inflation are counted according to the inflation volume.

- Bar code of compression and inflation: when the inflation volume is insufficient, correct or excessive, the bar code will be displayed as yellow, green and red respectively; when the compression depth is too shallow or correct, the bar code will be displayed as yellow or green.



- Click  , And you can return to the higher level interface.



- When the operation is over , click  for statistics. It will show the student' s name, score, date, et al, and the statistic form can be printed.

Dialog box of CPR operation statistic

statistical table of CPR operation			
Name:	Date: 2012/10/10	Teacher: xx	Result: <input type="button" value="Print"/>
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	

- Training of endotracheal intubation
- Click the icon or the text portion to enter the training of endotracheal intubation.

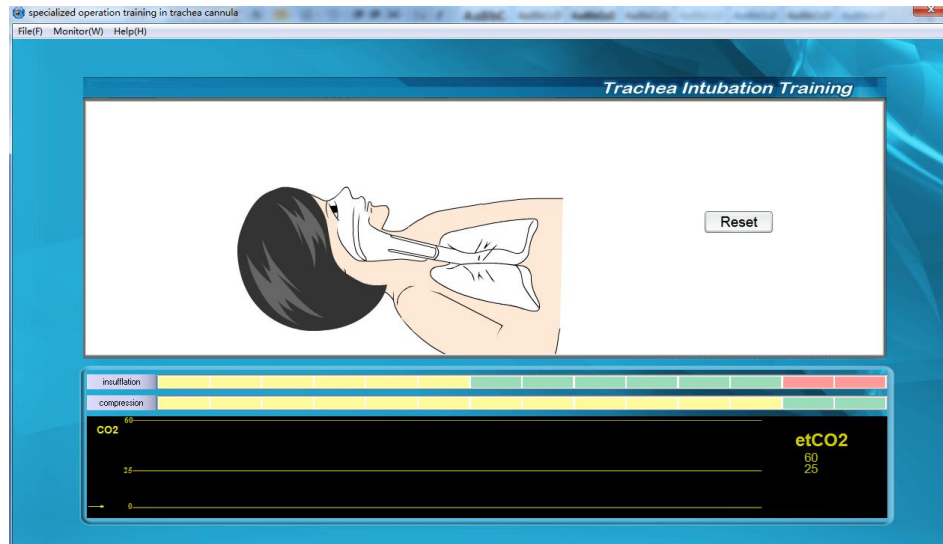



3.Trachea cannula training

Through imitating real intubation & viewing the process of carton intubation,to conduct maternity endotracheal intubation training

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- The interface of endotracheal intubation shown as below : Perform endotracheal intubation on the simulated patient. Synchronized operation demonstration flash will be shown on the interface, as well as the position of the tube and the effect of ventilation.



- Click  , and you can restart the endotracheal intubation training.

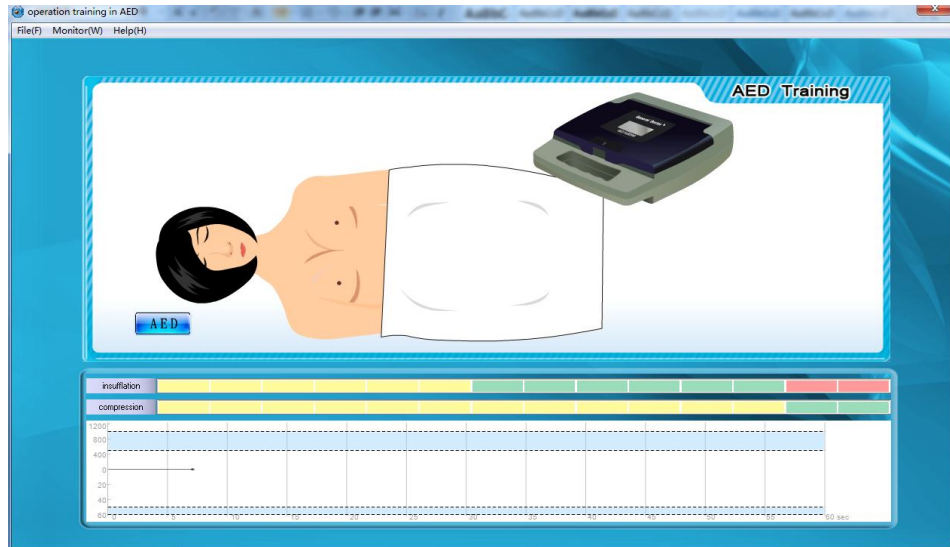
- Simulated AED training
- Click the icon or text portion to enter simulated AED training.




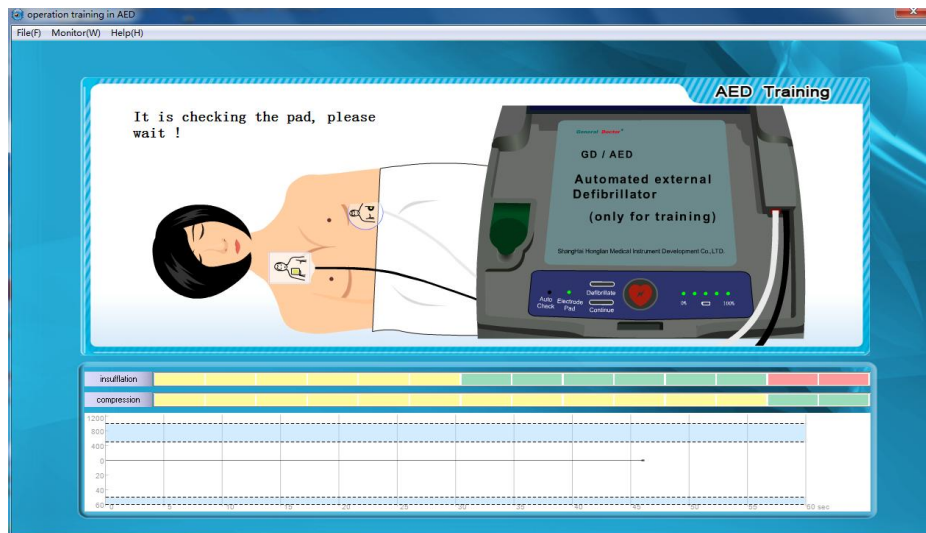
4.AED training

Demonstrate the real AED defibrillation process with cartoon and voice explanation

- The interface of simulated AED training is shown as below:




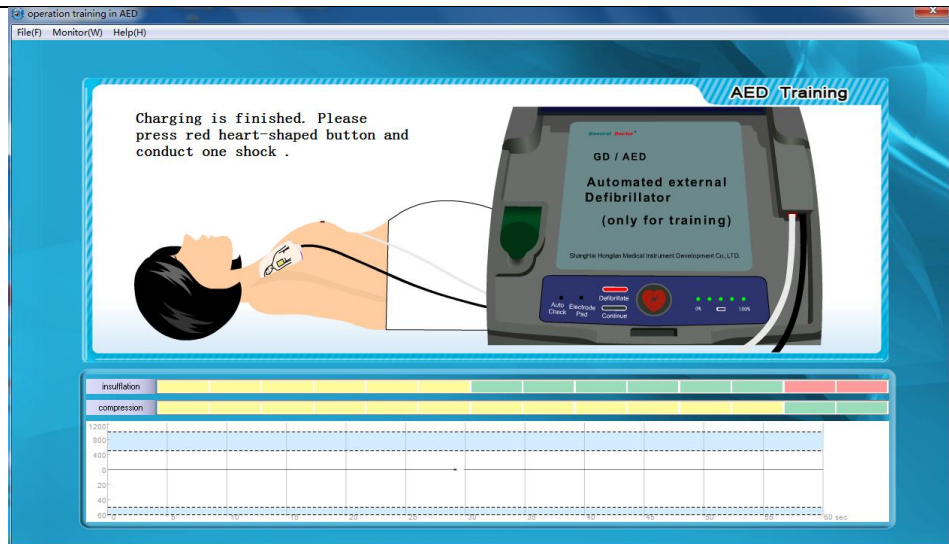
- Click  , and start the operation. There will be voice and text prompts in Chinese in the whole process.



- AED analyzes the heart rate automatically, and recharges automatically.



- Click with the mouse  to discharge , and defibrillation is over.



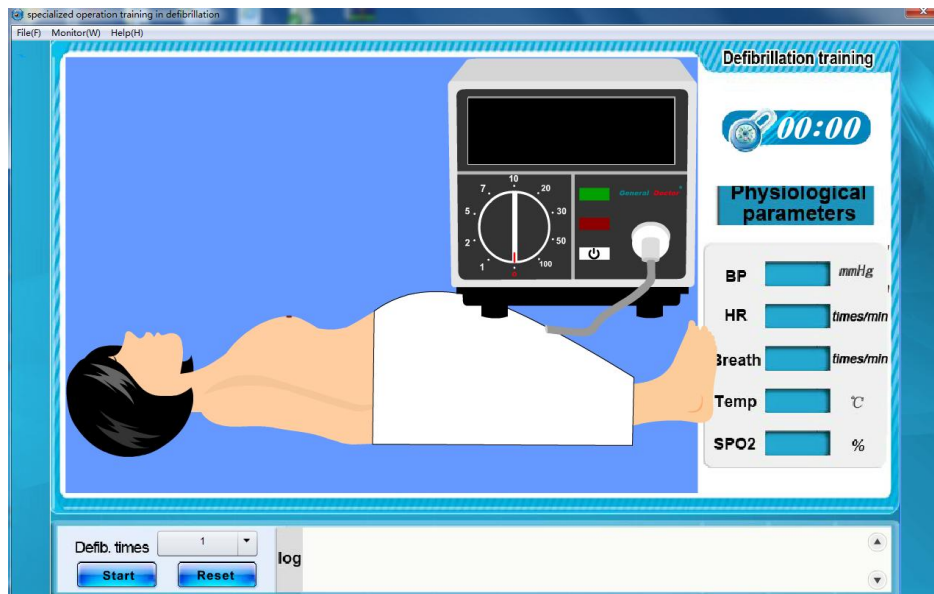
-
- If a real monitor is connected, ECG will be changed accordingly.
- Simulated defibrillation training
- Click the icon or text portion to enter simulated defibrillation training.




5.Simulation defibrillation training

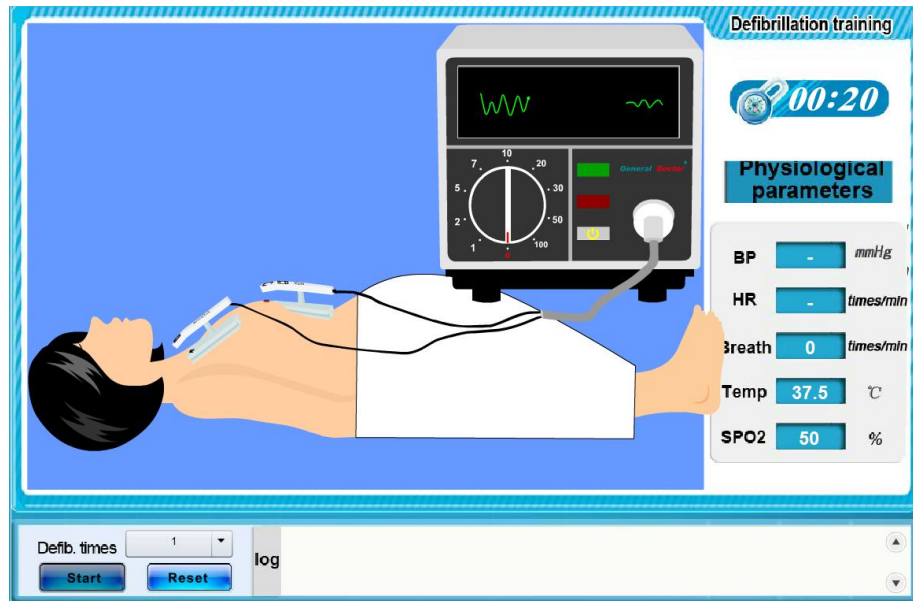
Conducting defibrillation training with using defibrillator & cartoon demonstrating the defibrillation process

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- The interface of simulated defibrillation training is shown as below:




-
- Set the number of defibrillations , click  , and start the operation.

- Click on the defibrillation power switch to turn on the defibrillator, and select the defibrillation energy.



- Use the defibrillation handle of the emergency system controller to charge and defibrillate, which is shown as below.



- Record the detailed operation process in log. Click  , and restore the original state.


2. Operation of system script

- Special training of delivery case


- The system offers nine cases. To demonstrate how to use the system, users can select the cases coming with the system, or edit their own scripts. The method of script editing will be shown in the “script editing software” .

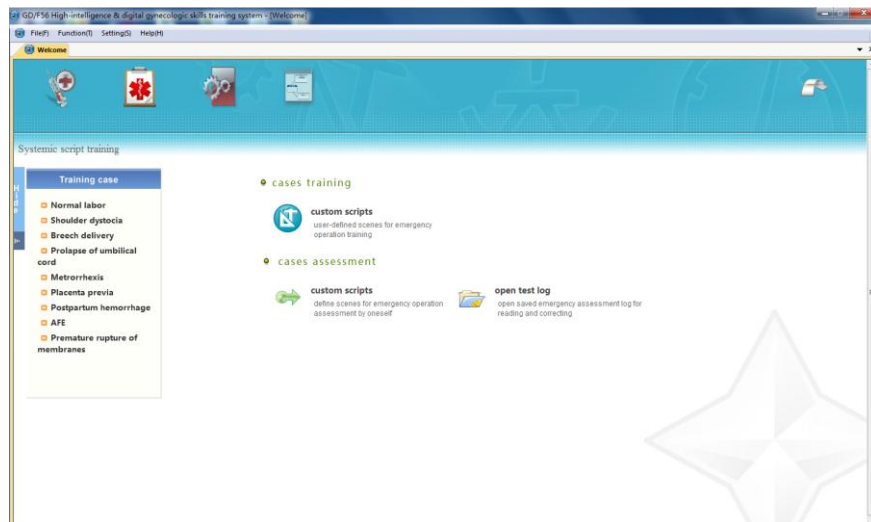
- Methods of opening the system script training



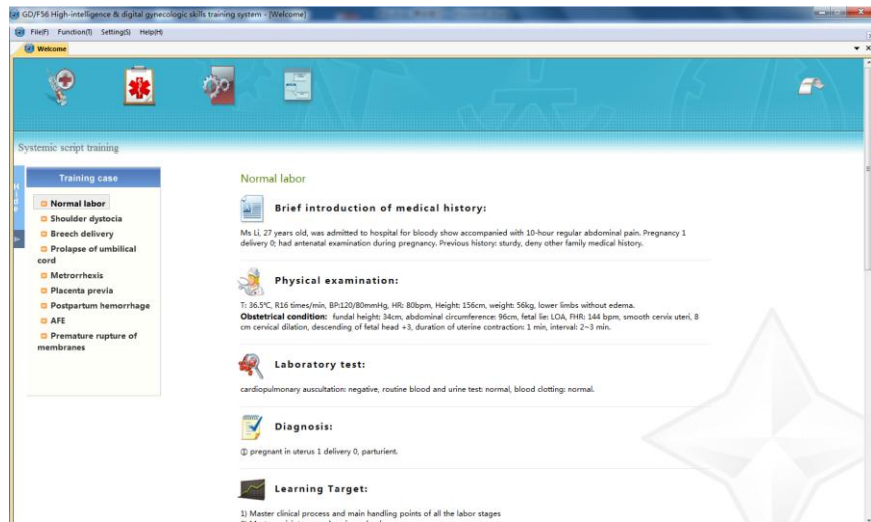
- Method one ,click the  icon in the function area of the interface, and enter system script training. Select the case in the left column of



- the interface , or click  to open the script edited by the user himself.



- Enter the case profile, including history introduction, physical examination, study objective and script.



-
- The script describes the running logic of the case, details of every scene and the measures recommended to take.

 **Script:** 

Labor Stage	State	Events & Measures	Remark
Initial state	T/P Pulse/R Breath/BP : 36.5-80-16-120/80 FHR : 144 Feature: moderate variation Fetal lie: LOA Presenting part: S+3 UC:3min/60sec/moderate	Assess mental state Anal examination Assess fetal heart rate Assess UC	Gravida voice: Moan (weak)
The end of 1st labor stage	T/P/R/BP : 36.5-80-20-128/80 FHR : 144 Feature: moderate variation UC: 2min/70sec/strong	Assess UC Assess fetal heart rate Assess the extent of cervical dilation	Gravida voice: Moan (moderate)
2nd labor stage	T/P/R/BP : 36.5-80-20-128/80 FHR : 144 Feature: moderate variation, slow down in early stage UC: 2min/70sec/strong	Assess UC Assess fetal heart rate Episiotomy	Gravida voice: Moan (high) head visible on vulval gapping, crowning
3rd labor stage (postpartum)	T/P/R/BP : 36.5-80-18-124/80 Haemorrhage: a little	Manually peel placenta Assess placenta Assess bleeding volume Assess fundus height Assess the extent of perineal avulsion Perineorrhaphy Massage uterus	Gravida voice: none Uterine rigidity: hard, intravenous drip oxytocin
Neonate condition	Sex: female, resounding cry weight:3300g AAppgar rating: 10 scores (1 min) Enter the neonatal	scenario	

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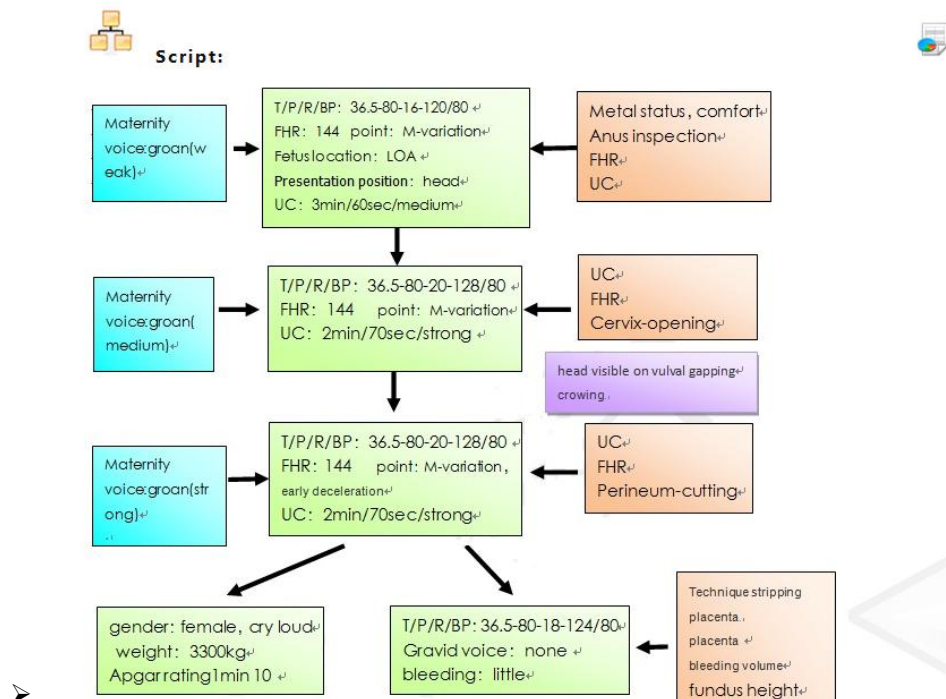
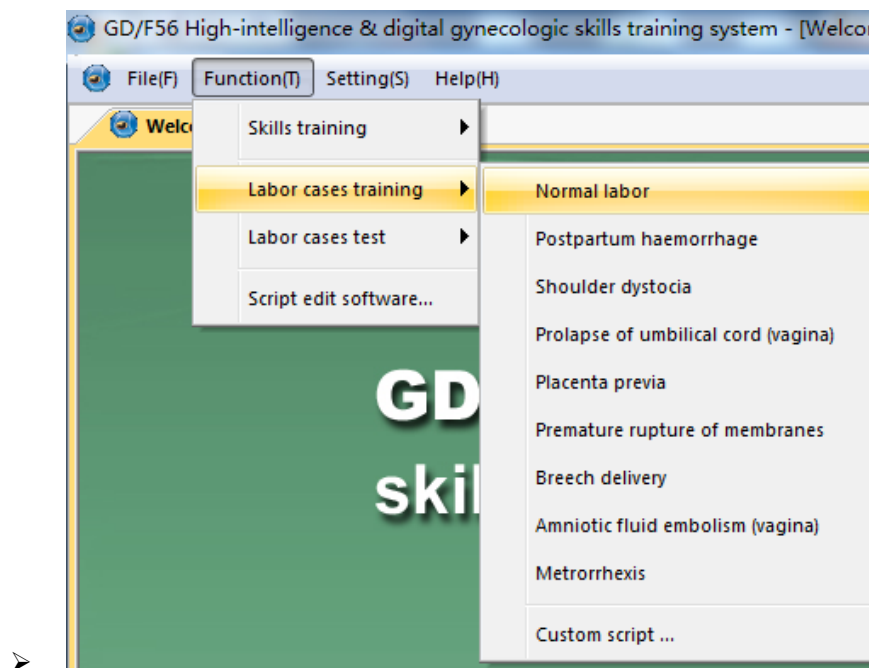
Click the  icon in the upper right corner , to display the running

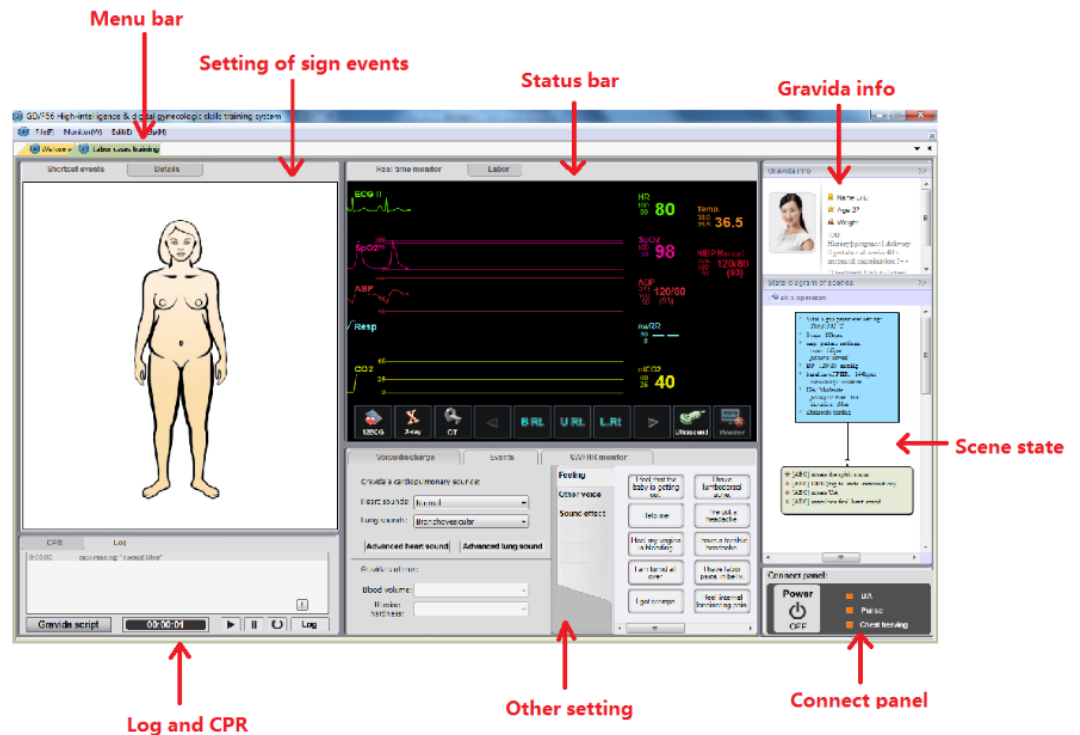
chart of the script case. Click again to close the case chart.



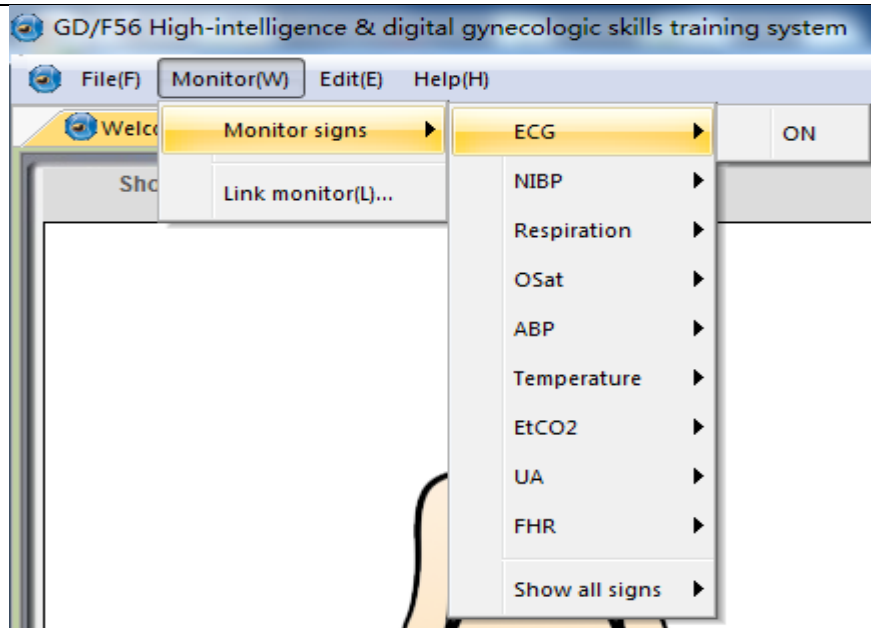
- Click **Script Training**, and enter the training mode.
- Method two : click "Function→Labor cases training", select the case script or custom script to train with, and enter the interface of special delivery case training, taking "normal delivery " as an example.



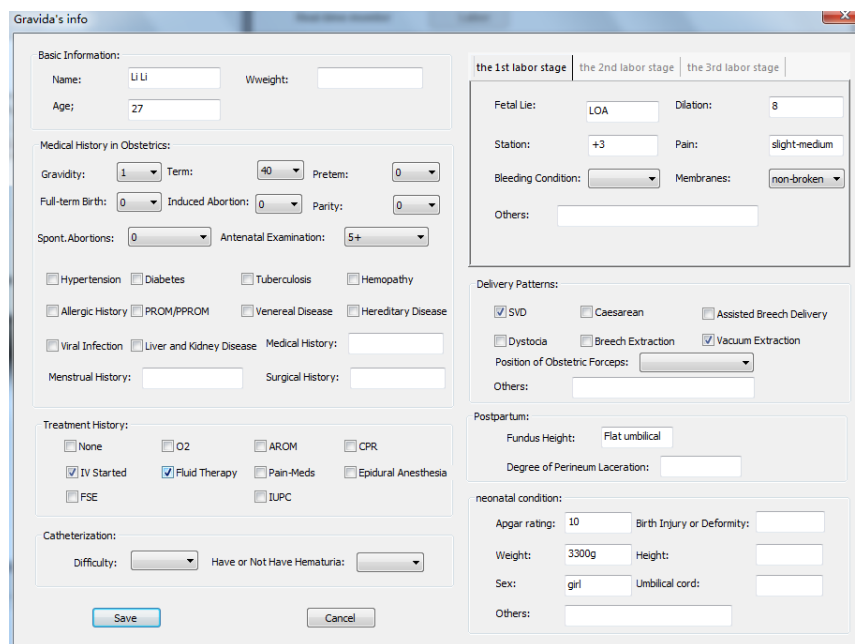
- The interface of normal delivery case training is shown as below



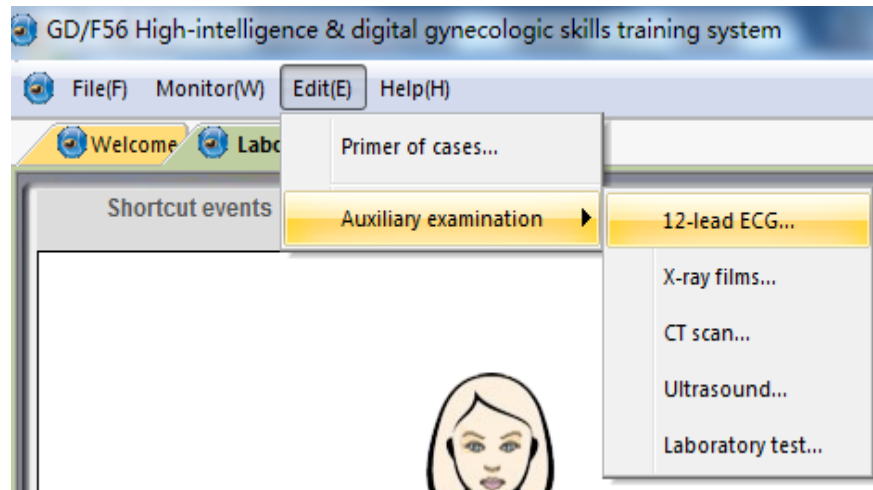
-
- Menu bar: include file, monitor edit and help.
- Click “File” , and you can return to the main interface.
- Click “Monitor” , and the parameters on each sign of the simulated patient will be shown in the status bar. The simulated monitor can also be connected to display the sign parameters of the simulated patient on the monitor.



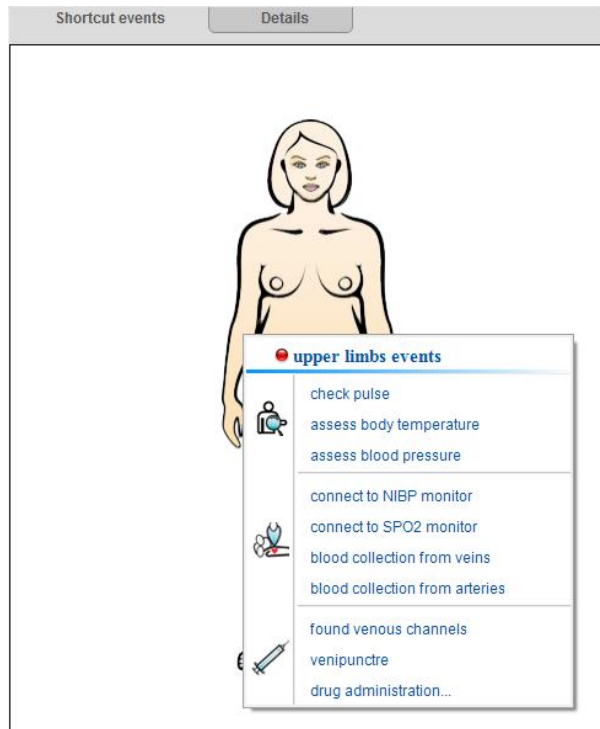
-
- Click "Edit" --- "Primer of cases " , and a dialogue box of the gravida' s basic information will pop up.



-
- Click "Edit "----" Auxiliary examination " , select different examination items , and a dialogue box of the corresponding item will pop up.

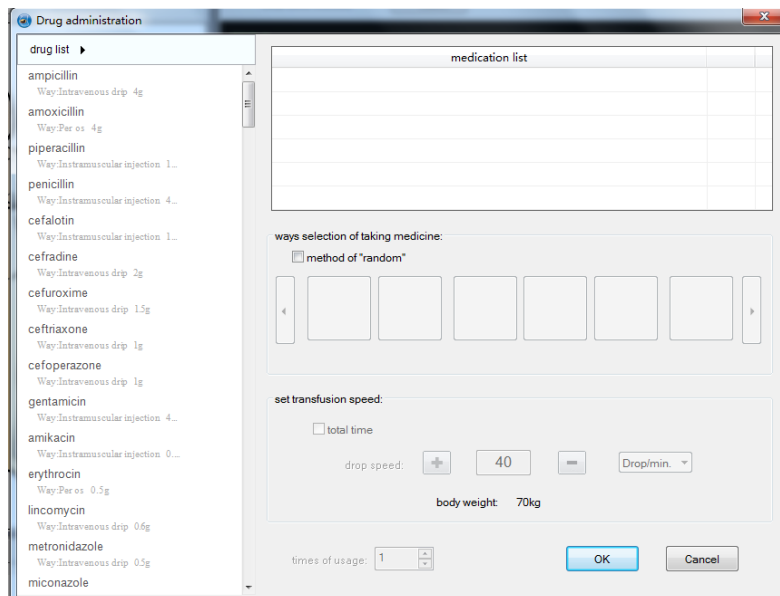


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- Click "Help" --- "User help manual", and the user instructions will pop up.
- Setting of sign events
- Shortcut events : The human body is divided into seven parts: the head, neck, chest, abdomen, pelvis, upper extremities and lower extremities. Put the mouse on a part of them, and the color of this part will be deepened. Click it and there appears a dialogue box of events, then select different events.

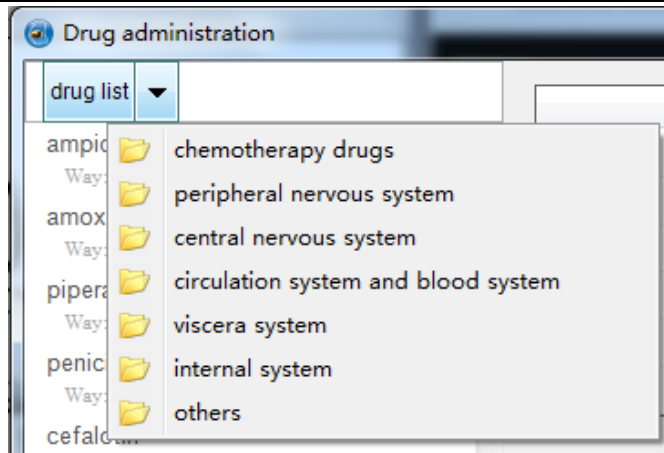


-
- We take administration as an example to illustrate.
- Click one part of the body with the mouse , and click administration.

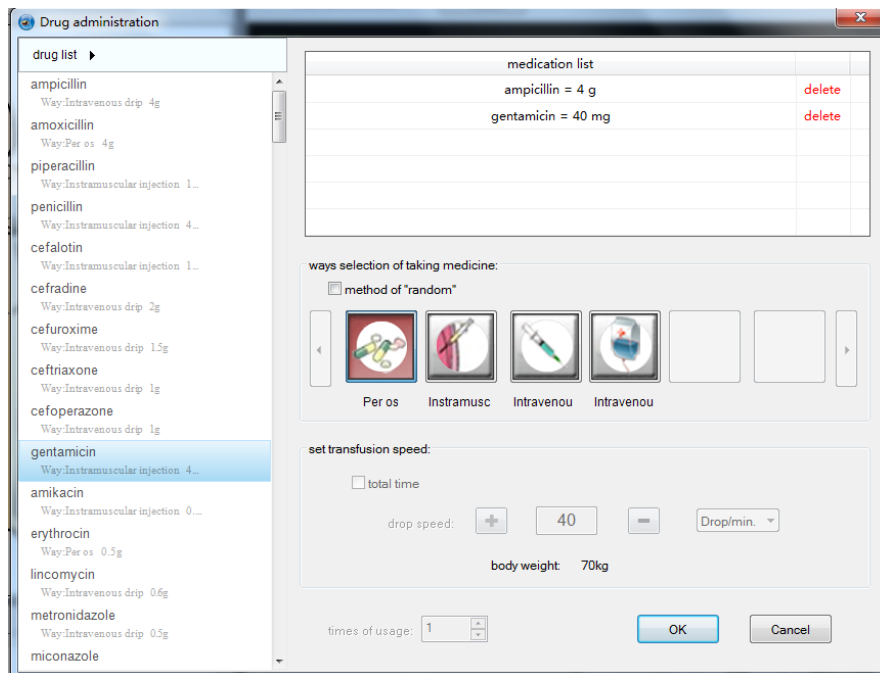
The dialogue box of administration will be shown as following.



-
- The left side is the list of drugs, which can be selected according to different systems.



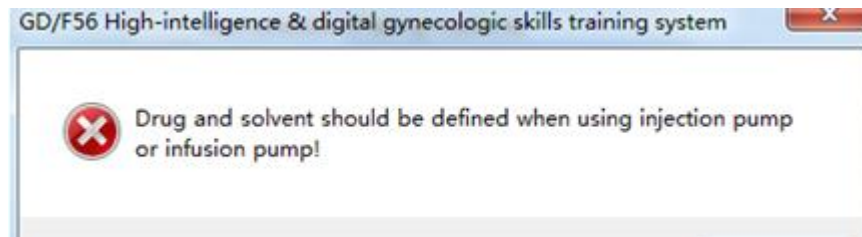
-
- Select the drug to be used , for example, amoxicillin. Click the drug name ,and the drug will appear in the medication list. There is a variety of drugs to be chosen.



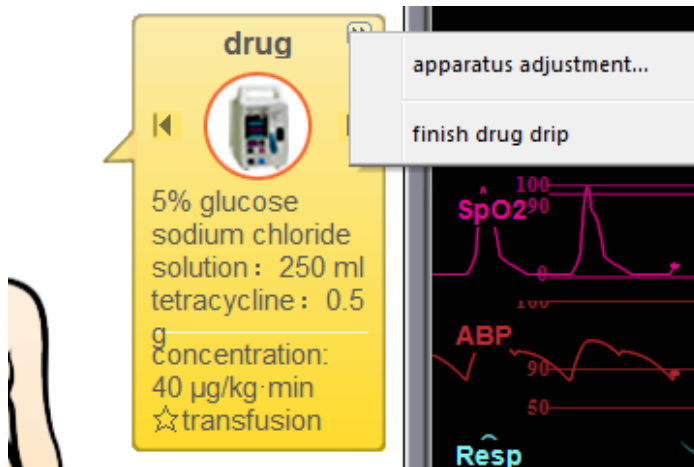
-
- Select the method of administration. If it is intravenous injection, the infusion speed can be set. It can be set in two ways, by time or by drip rates.



-
- If you choose to administrate by infusion pumps, select the infusion drug and amount of solvent firstly. If it is not selected correctly, the software will prompt the user for correct choice.



-
- After drug selection has been completed, you can adjust the instrument directly on the interface.



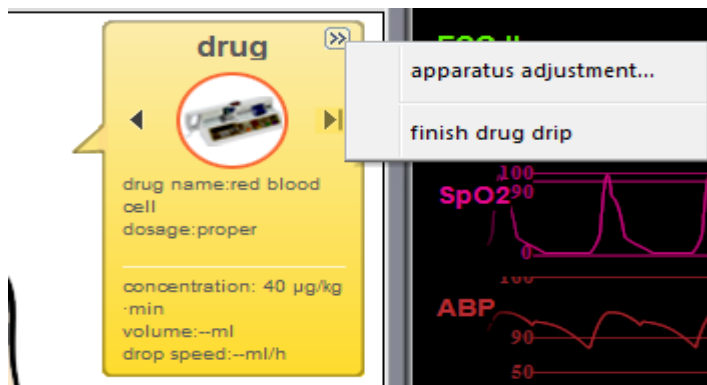
-
- Click **apparatus adjustment...** , and set the administration speed. On completing, hide the dialogue box of infusion pump operation.



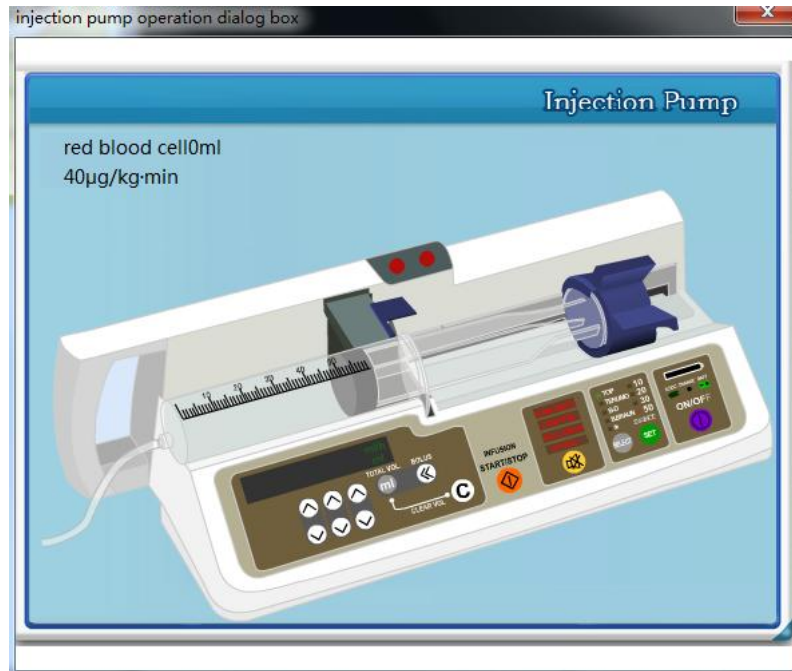
-
- After setting is completed, the infusion rate and total fluid volume can be visualized right on the interface.

concentration: 40 µg/kg
·min
volume: 110ml
pump speed: 110ml/h

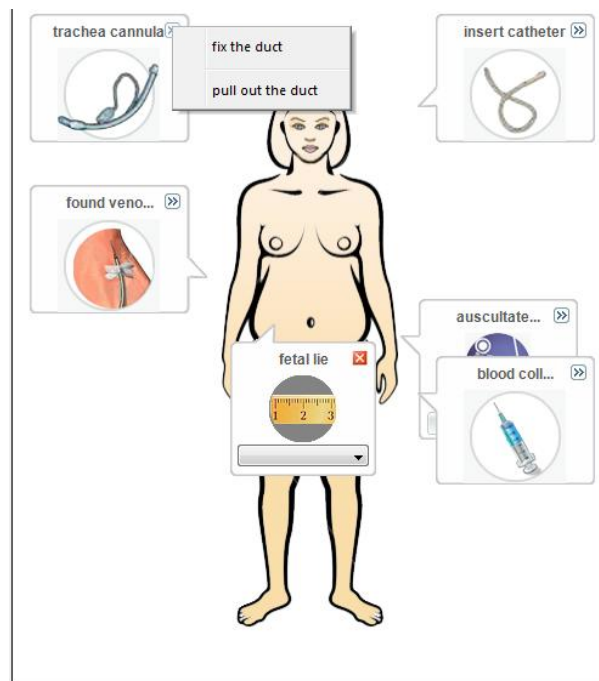
-
- If you choose to administrate by injection pumps, administration speed can be set directly on the interface.



-
- Click **apparatus adjustment...** , and set the administration speed. On completion, hide the dialogue box of injection pump operation.

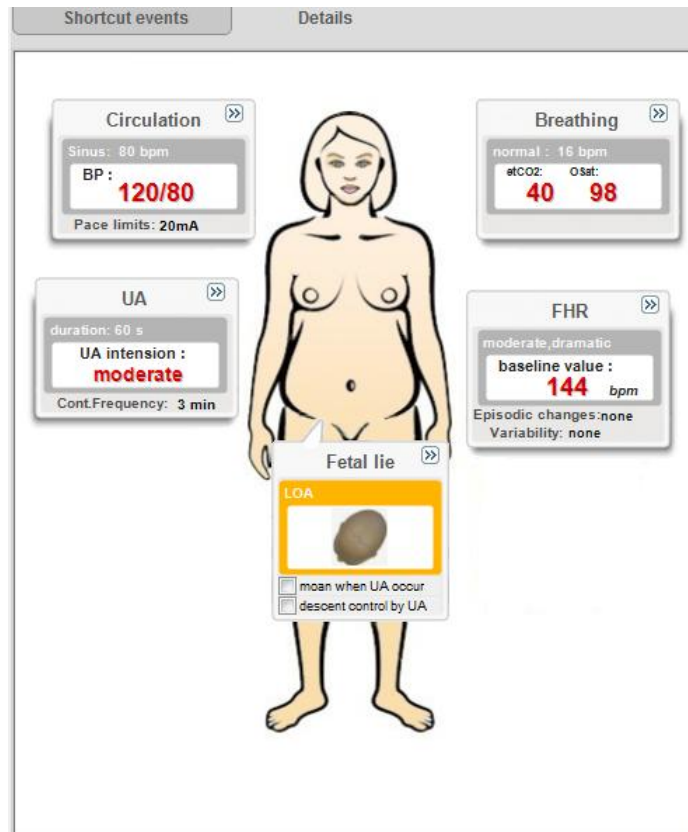



-
- In addition, operations such as endotracheal intubation, defibrillation, fetal heart rate evaluation, arterial blood collection and venous blood collection can be set directly in the interface as well.

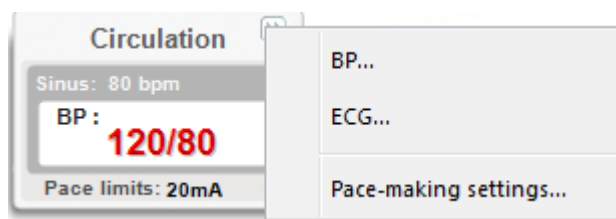


-
- Signs the parameters of the signs of the simulated patient can be modified or set, including circulation, respiration, uterine contraction,

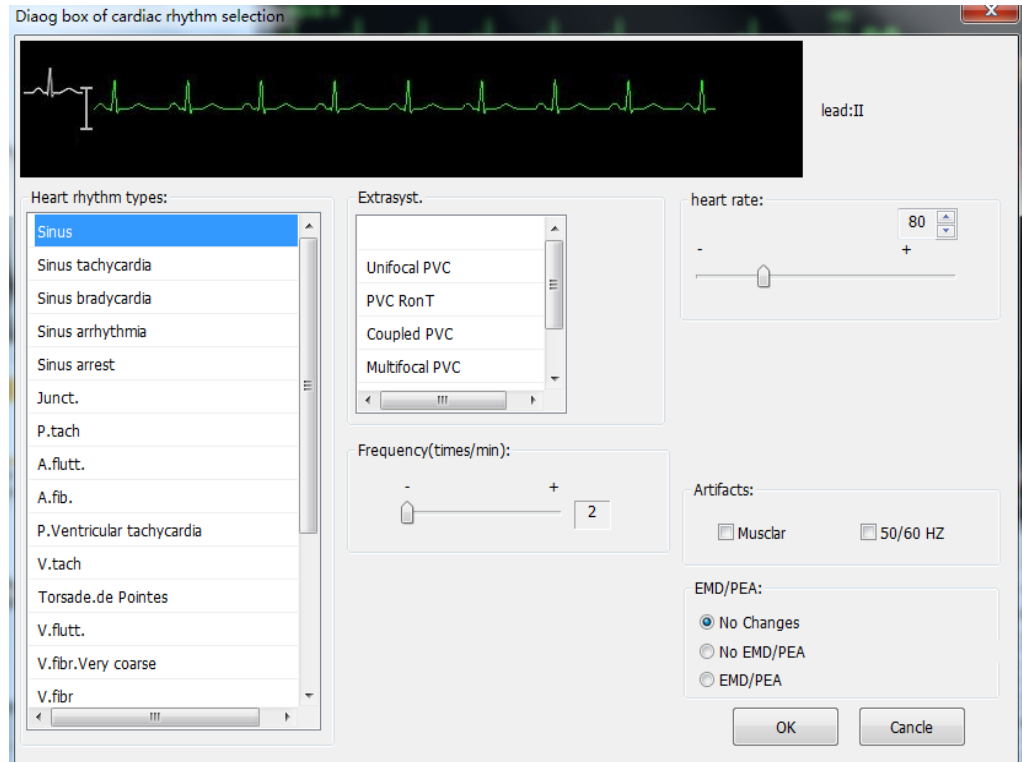
fetal heart rate and fetal position.



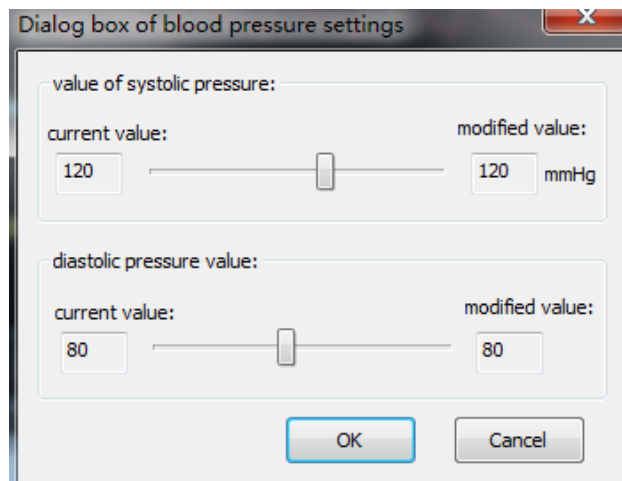
-
- Circulation settings : click  , and start parameter setting. The parameters set will be displayed in the interface, as the following figure:



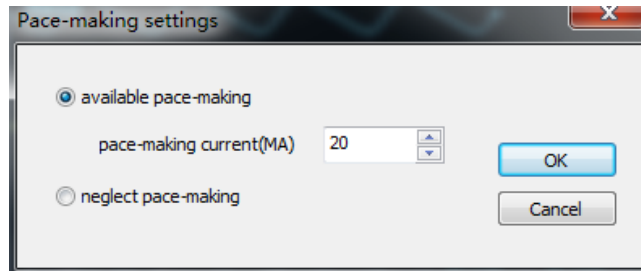
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- Select heart rate, and a dialogue box of heart rate settings will pop up, then set it.




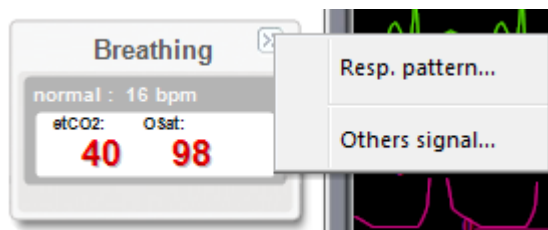
-
- Select blood pressure, and a dialogue box of blood pressure will pop up, then set it.



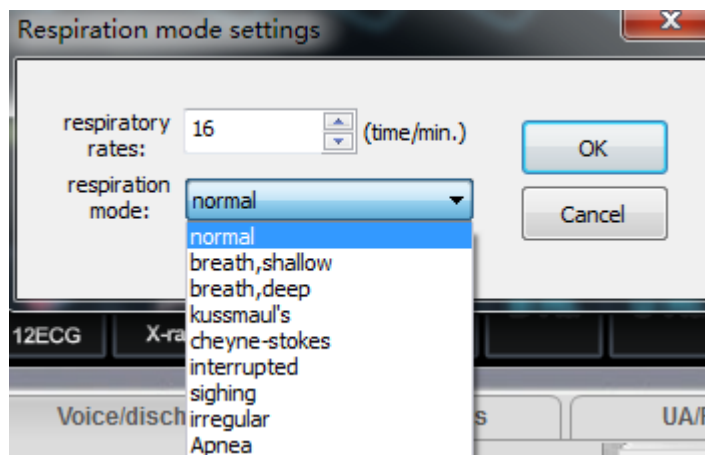
-
- Select pacing settings, and a dialogue box of pacing will pop up, then set it.



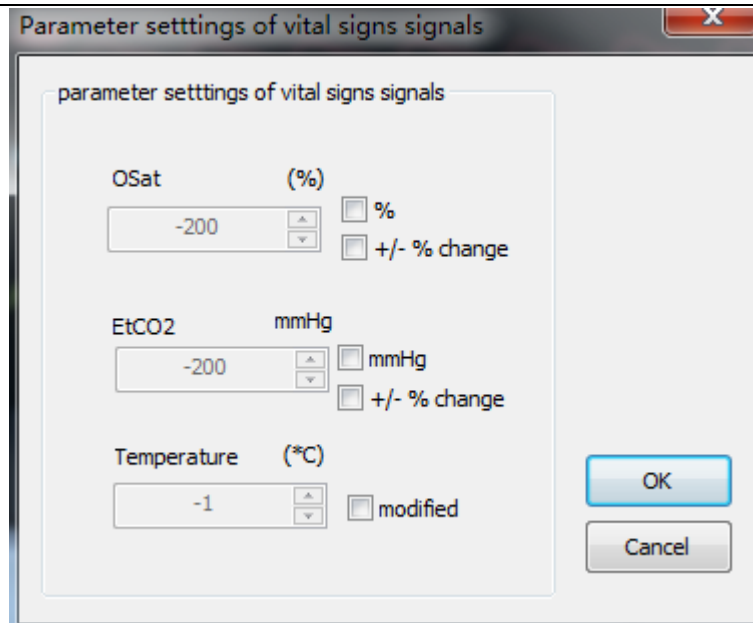
-
- Respiration settings : click  , and start parameter setting. The parameters set will be displayed in the interface, as the following figure:




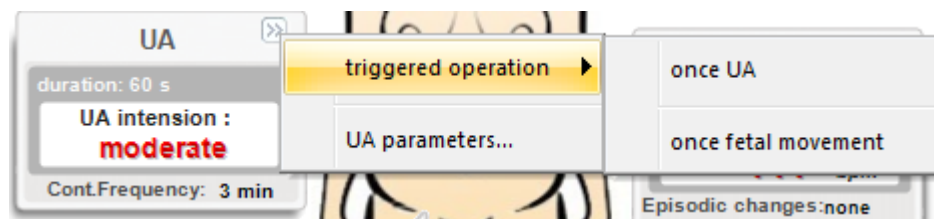
-
- Select respiration pattern , and a dialogue box of respiration pattern settings will pop up, then you can set the respiration rate and pattern.



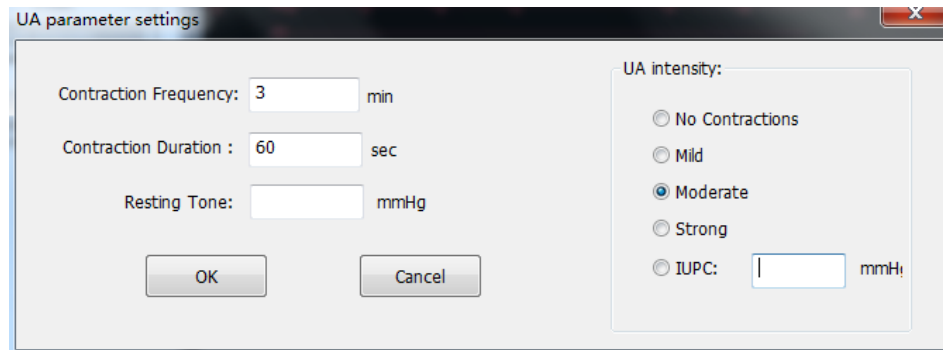
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- Select physical parameter signal, and the settings of physical sign signal parameters will pop up.




-
- Uterus contraction parameter settings : click , and start parameter setting. The parameters set will be displayed in the interface, as the following figure:

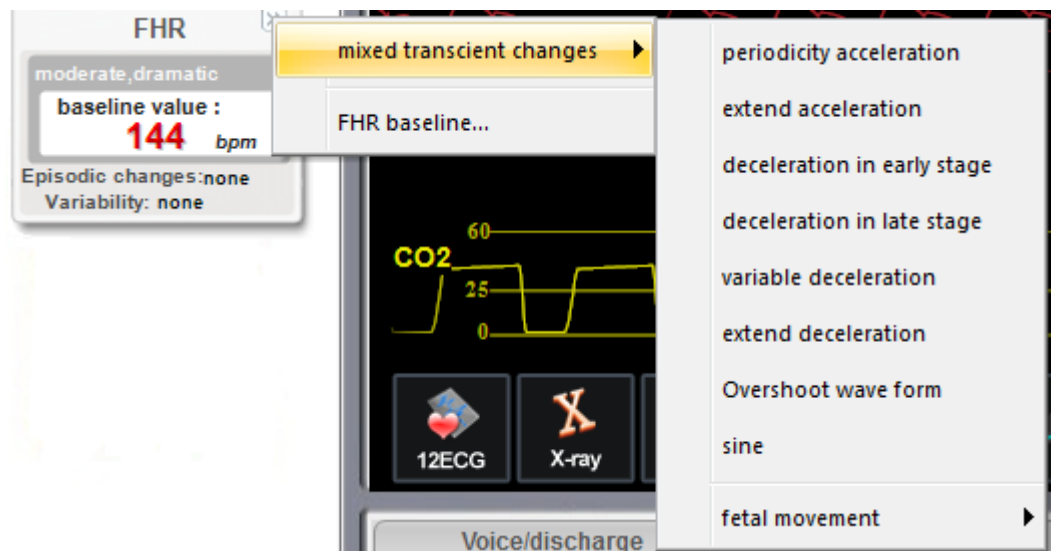


-
- Select triggering action, and click “once UA” or “once fetal movement” , then there will be waveform changes corresponding to “contraction” or “fetal movement” in the uterus contraction curve.
- Select contraction parameters, and the dialogue box of UA parameter settings will pop up, then you can set contraction intermission, contraction duration, intrauterine pressure and contraction intensity.

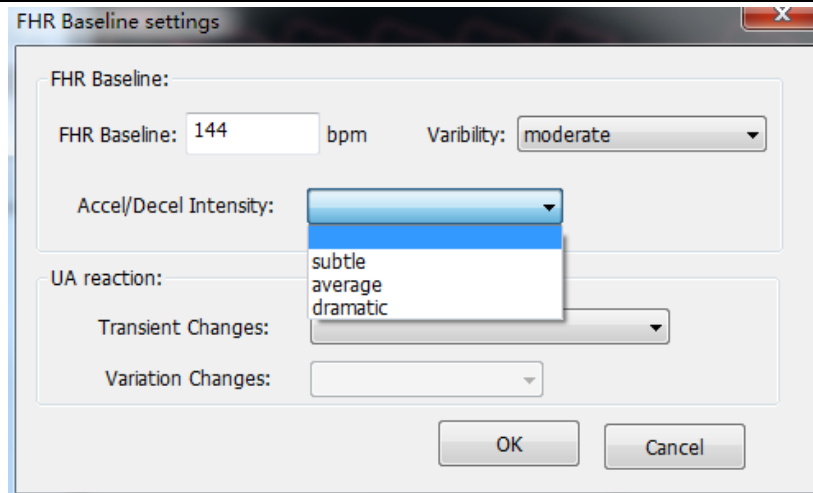



-
- Fetal heart rate curve settings : click  , and start parameter setting.

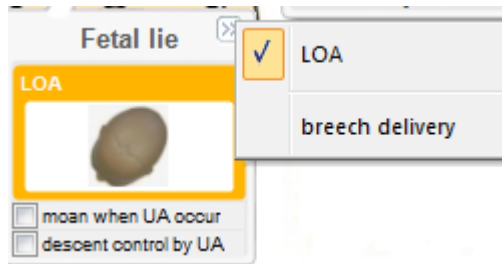
The parameters set will be displayed in the interface, as the following figure:



-
- Select mixing transient changes, and select different types of fetal heart rates, then there will be corresponding waveform changes in the fetal heart rate curve.
- Select fetal heart rate baseline, and the dialogue box of fetal heart rate baseline settings will pop up, then the fetal heart rate baseline and contraction reactions can be set.

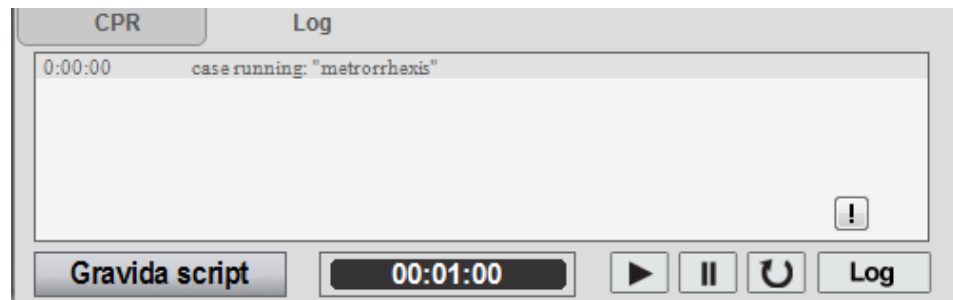


-
- Fetal position settings : click  , and select different fetal positions , as the following figure:




- Select moan when UA occur , and there will be groaning sound from the simulated patient during contraction.
- Select descent control by UA , and the extent of fetal head descending will be controlled by contraction.
- Logs and CPR
- CPR : First select the “chest compression” event in the “events” or “shortcut events” column. Then perform CPR operation on the simulated patient, and the synchronized operation waveform will be displayed (note: if the “chest compression” event is not selected, there will be no corresponding waveform when performing CPR on the


simulated patient).




- **Gravida script** : Click it and the system script and custom script will be displayed. You can choose different script to train with.

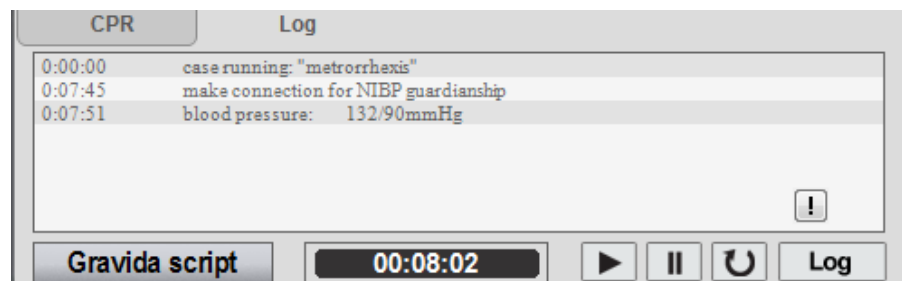
- **1:50:58** : running time of the current script.


-  : run the current script.

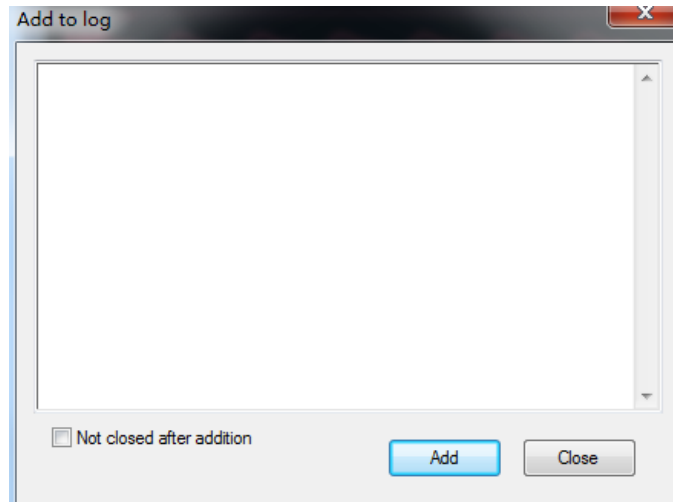
-  : suspend the current script.

-  : reset the current script.


- **Log** : record all the operation content

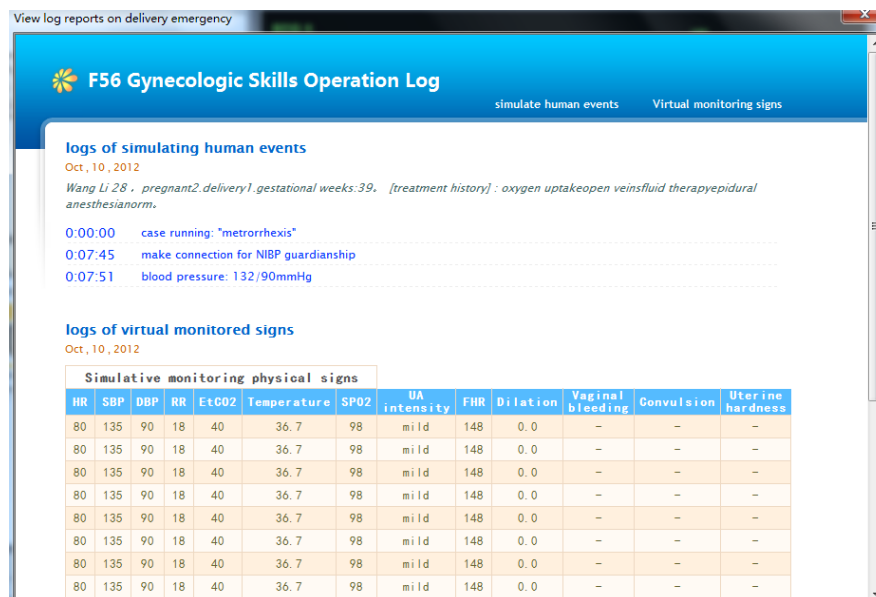


-  : Click it and a window of adding event logs will appear.



➤

➤ Click , and view the delivery emergency log reports.



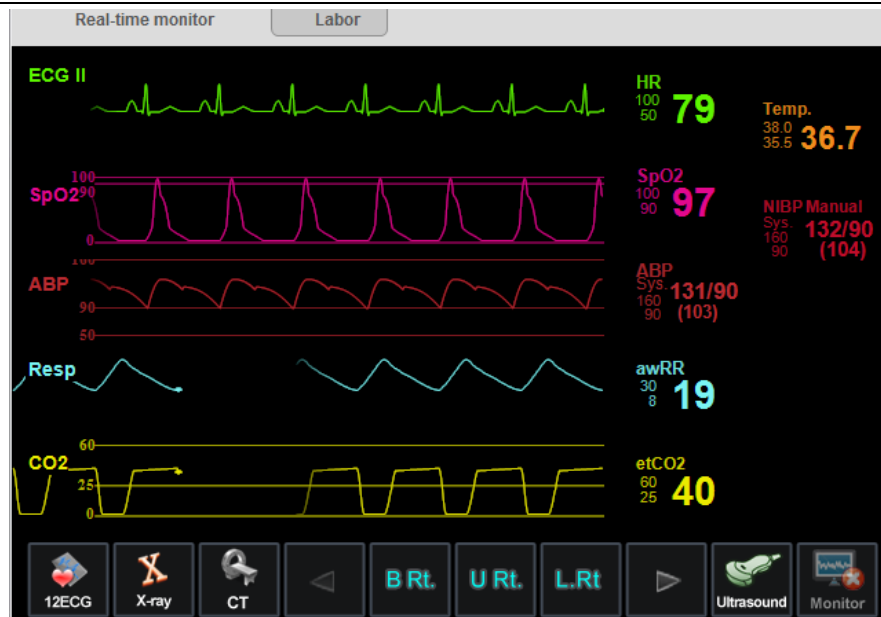
➤

➤ Status bar


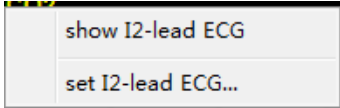


➤ Real time parameter monitoring:

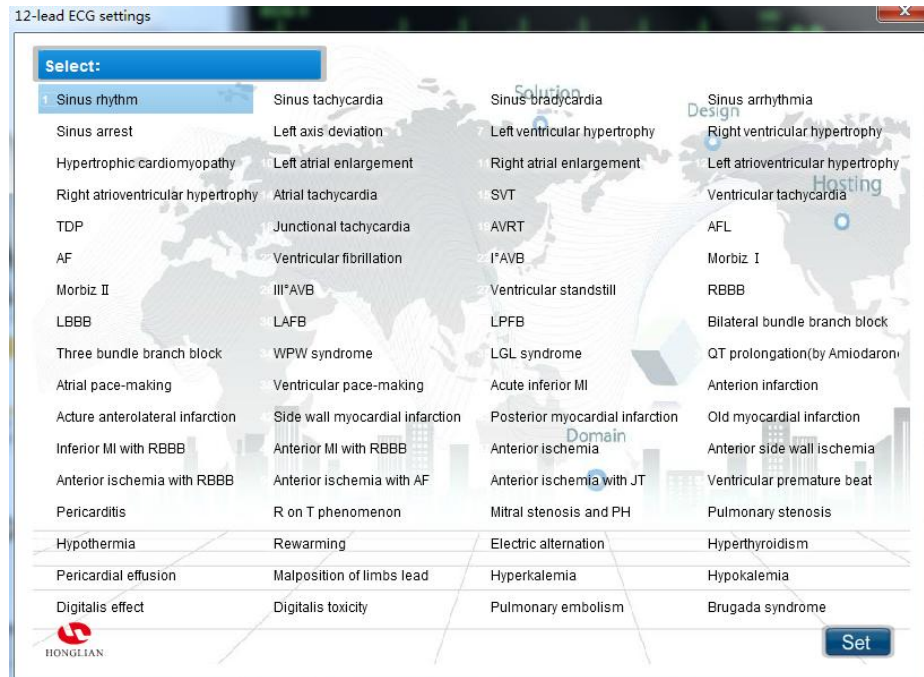
➤ Monitor vital signs, including heart rate, blood oxygen saturation, arterial blood pressure, respiration, end expiration carbon dioxide, body temperature and non-invasive blood pressure.

➤ Click “monitor connection” in the lower right corner to connect the monitor directly.




- Viewing and setting of the laboratory test items, including 12-lead ECG, X-ray, CT scan, routine blood test, routine urine test, vaginal examination, electrolytes, hepatitis B, Down's screening, blood glucose, coagulation, blood gas analysis, liver function, kidney function, and ultrasonography.
- Here we take "12-lead ECG" as an example to illustrate.

- Click  , and  appears.
- Click  , and click  , then a dialogue box will appear as the following figure.



➤


➤ Select the ECG you want to view , such as sinus rhythm , click  ,


put in  , click  , and it is set successfully.



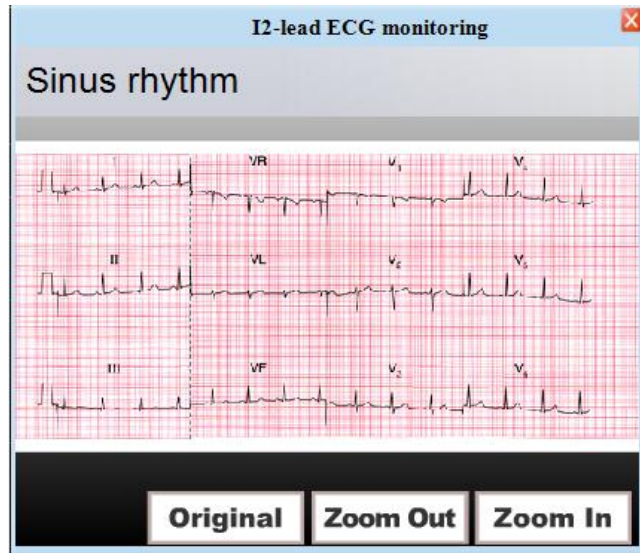
➤

➤  : amplify the ECG

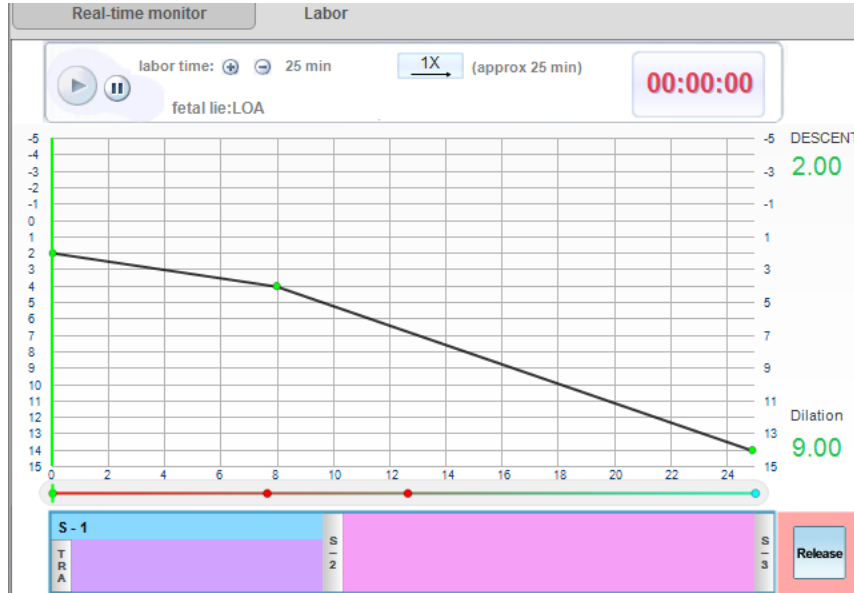
➤  : restore the original size

➤  : narrow the ECG

- Click **show I2-lead ECG** , and the set ECG will be displayed in the interface. The ECG can be amplified, narrowed or restored to the original size.



-
- Fetal head descent curve



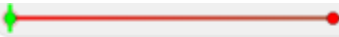
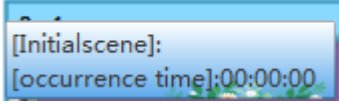


-
- **00:00:28** : running time of birth process

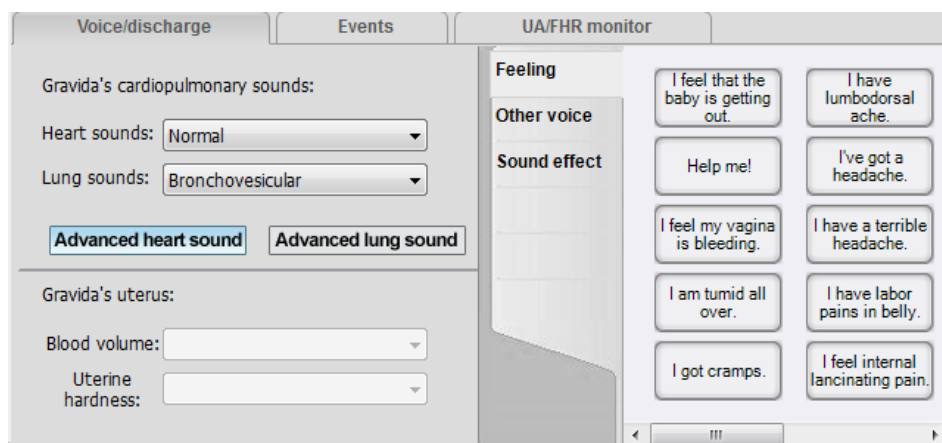


- : time conversion of birth process , speeded up or

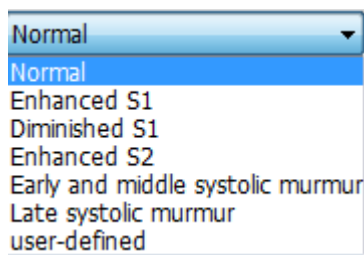
slowed down.

-  : run the birth process
-  : suspend the birth process
-  : set the scene spot
-  : set the scene spot
- Other settings : include sound/fluid flow, events, UA/FHR , and video surveillance.


- Sound/fluid flow settings:

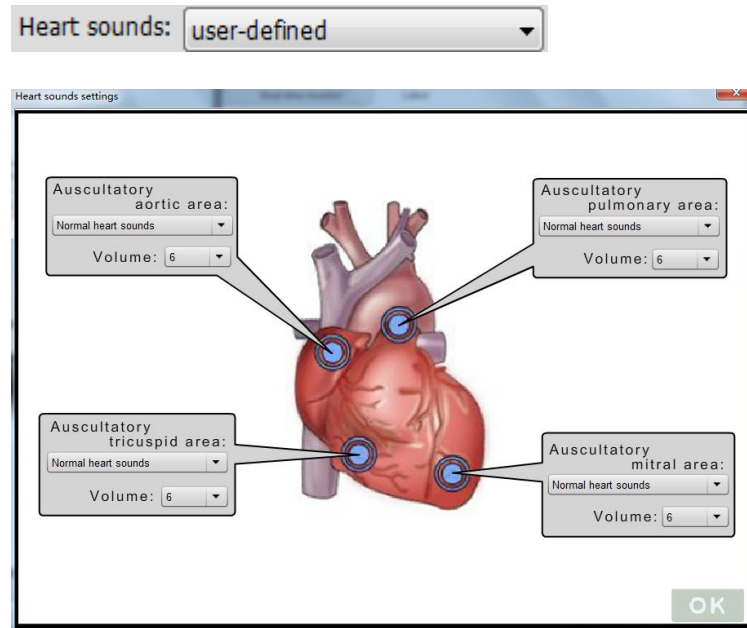


- Heart sound settings:
- (1) Select the heart sound to auscultate directly from the drop down menu.

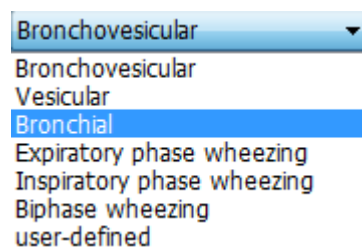


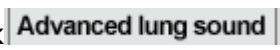
- (2) Click **Advanced heart sound** , and a heart sound setting box


appears. You can set different locations, different heart sounds and auscultation volumes. After completing the settings, click , and the heart sound status bar turns into custom.

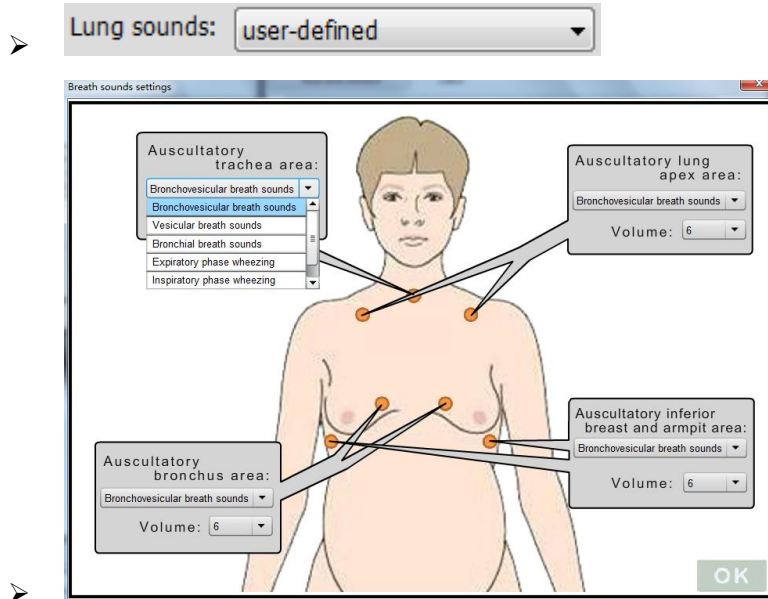


-
- Pulmonary sound settings:
- (1) Select the pulmonary sound to auscultate directly from the drop down menu.

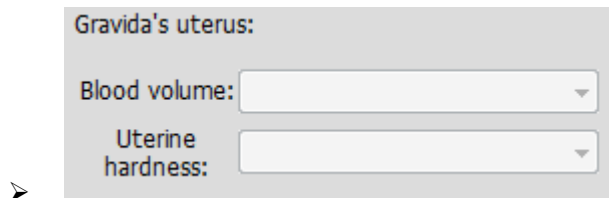


- Click , and a pulmonary sound setting box appears.

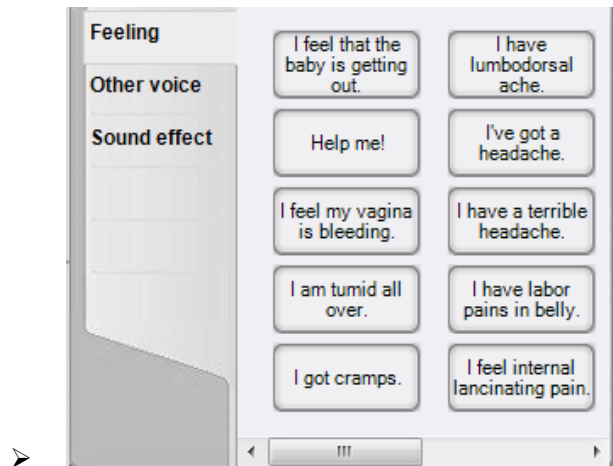
You can set different locations, different pulmonary sounds and auscultation volumes. After completing the settings, click , and the pulmonary status bar turns into custom.



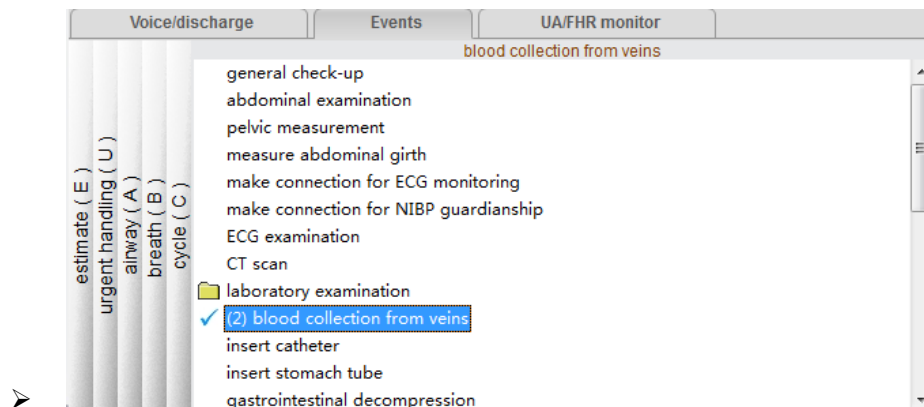
- Vaginal bleeding and uterine hardness state can be shown or set only in the third stage of labor (Vaginal bleeding and uterine hardness state of the simulated patient need to be controlled by manual adjusting, while the software only displays its status).



- Voice settings of the simulated patient : There are recorded voice sources in the software, which are divided into feelings, other sounds, sound effects according to different voice types, a total of 34 voices. Click on different voice, and the simulated patient will make a sound as if it is real.



➤ Event settings :

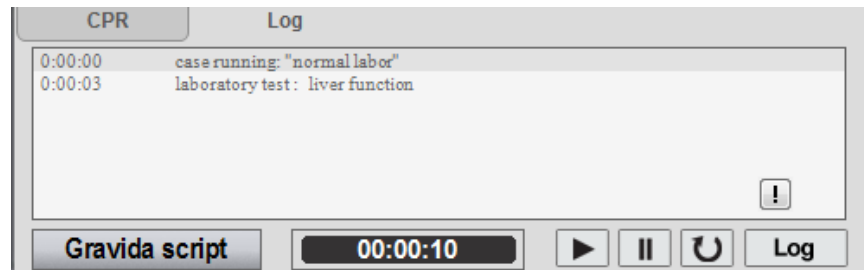


- The event menu is divided into six sections, including evaluation, urgency, airway, breathing, circulation, and others. Some performances can be done on the simulated patient, such as chest compression, endotracheal intubation and pulmonary auscultation, which will be monitored by the software. If the operation performed cannot be monitored by the software, select the corresponding item in the event list to solve this problem.
- Here we take the example of laboratory tests--- hepatic function to illustrate it.
- Click on "laboratory tests" --- "hepatic function" in the event list , the

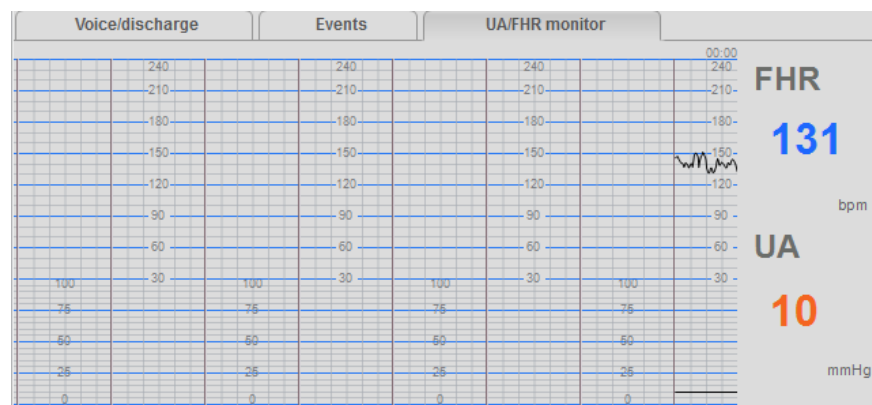
icon of hepatic function test in the status bar will flash, as this figure:



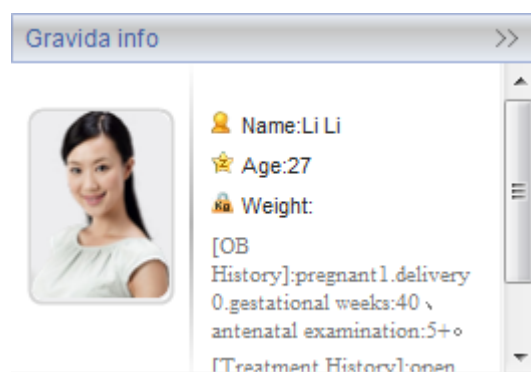
, and there will be a corresponding record in the log properties.



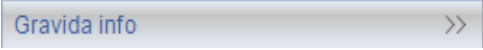
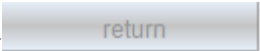
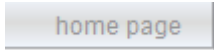
-
- UA/FHR monitoring: parameters of uterine contraction and fetal heart rate curve can be set in the sign bar.

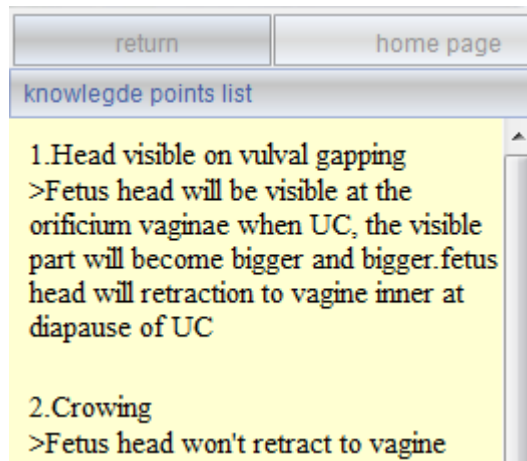


-
- Gravida information
- The interface shows basic information of the gravida, such as name, age, body weight, et al.



-

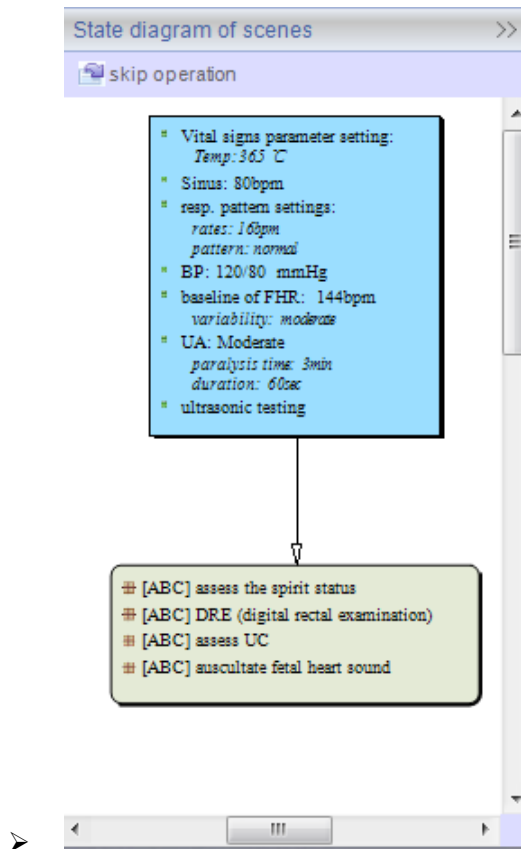
- Click  bar , and there appears the knowledge list of the current running case. Click  , and return to the previous interface. Click  , and return to the gravida information bar.

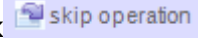
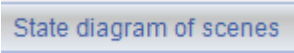


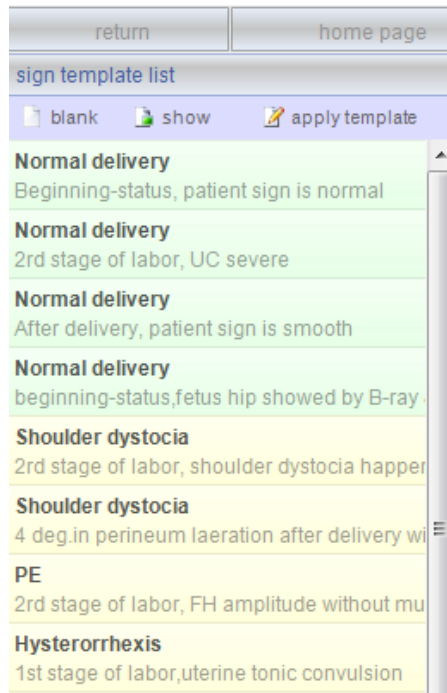
- Click on the gravida picture, detailed information of the gravida will be shown.

- Scene state
- Displays the scene spot run by the current script, including scene and

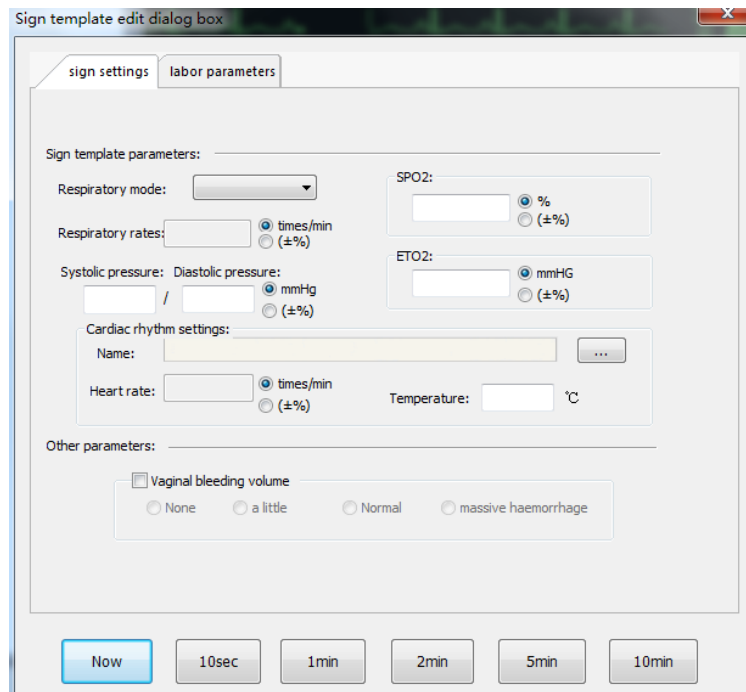
events.




- Click on the event box ,and click  ,then the current scene spot can be skipped.
- Click on the  bar , and the following interface will appear. It will be displayed in different colors according to severity of the condition. Green indicates it is normal, yellow indicates it requires treatment, and red indicates it is dangerous.



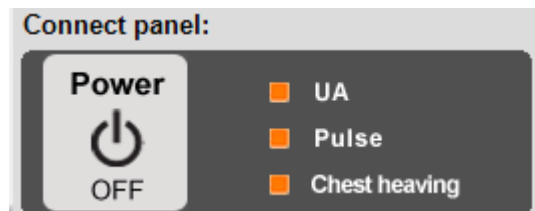
-
- **return** : return to the previous interface.
- **home page** : return to the scene state bar.
- Click **blank** , and create a new scene.



-
- Select an existing scene or newly created scene. Click **show** , and the template of the selected scene will be displayed.

Click  apply template , and the selected scene template will be displayed in the status bar.




- Connecting control panel : connects the software with the simulated patient. After connection, the simulated patient will receive commands sent by the software. The connecting control panel include power switch, contractions, pulse and chest movement, as the following figure:



-
- Connect the simulated patient , and turn on the power switch , as this



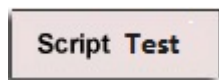
figure:

- Click  UA , and the contraction module will be connected. The simulated patient will receive contraction commands sent by the software. Click again , and the connecting function will be shut down. The simulated patient won' t receive the commands sent by the software.
- Click  Pulse , and the simulated patient' s pulse begins pulsing.
- Click  Chest heaving , and the simulated patient' s chest moves up and down when breathing.
- Note: the simulated patient receives the commands sent by the

software only when connected to the control panel, otherwise the simulated patient won't receive any command sent by the software.

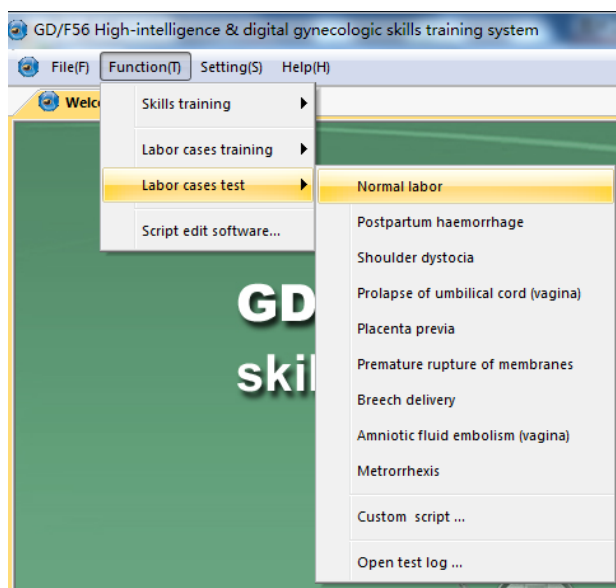
- Special case test of delivery
- The system provides nine cases. To demonstrate the test method of the system, users can choose either the cases provided with the system, or the custom scripts. The method of script editing is shown in the “script editing software” .

- Methods of opening system script test:
- Method one : Select a case in the left column of the interface of system script training, and enter the case profile. Click



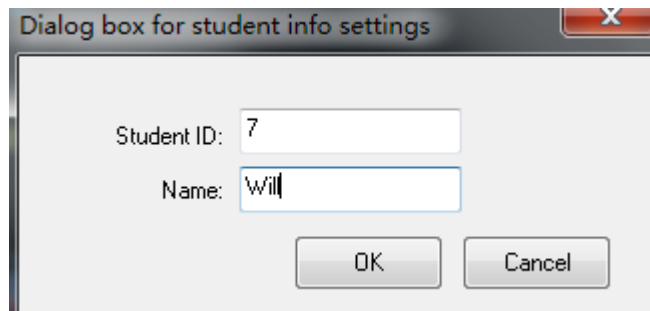
, and enter the test mode.

- Method two : Click “Function→Labor case test” in the menu bar , and select the case to test with or a custom case, then enter the interface of the case to test with directly.

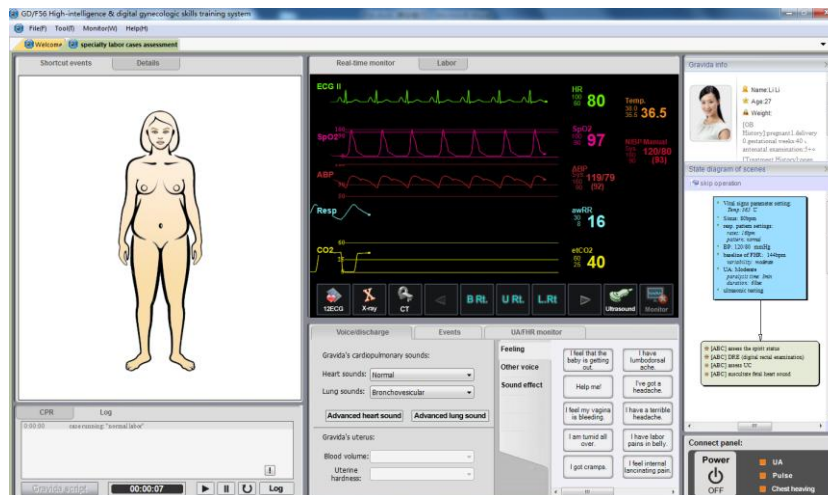


-

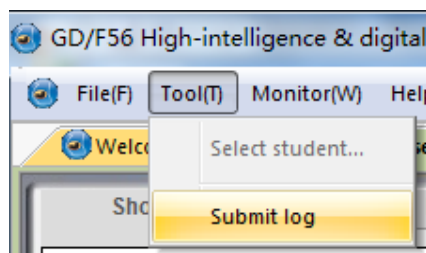
- The test steps are as following:
- Enter the test interface , and there will be a dialogue box of setting student information. Fill in the information of the student.



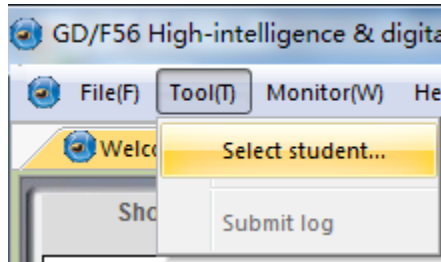
- Click  to enter the test interface.



- When the test is over , open "Tool→submit log" .



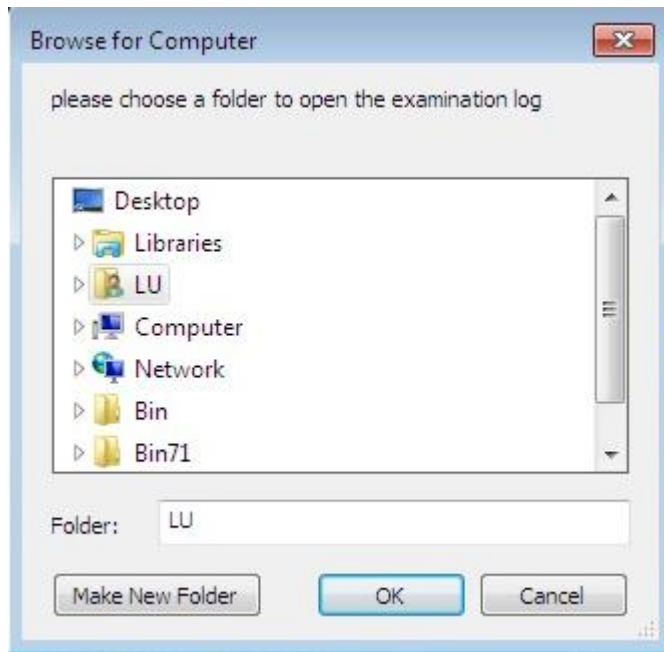
- After submission, you can select another student to test. Open "Tool →Select student... " , and submit again after completion.



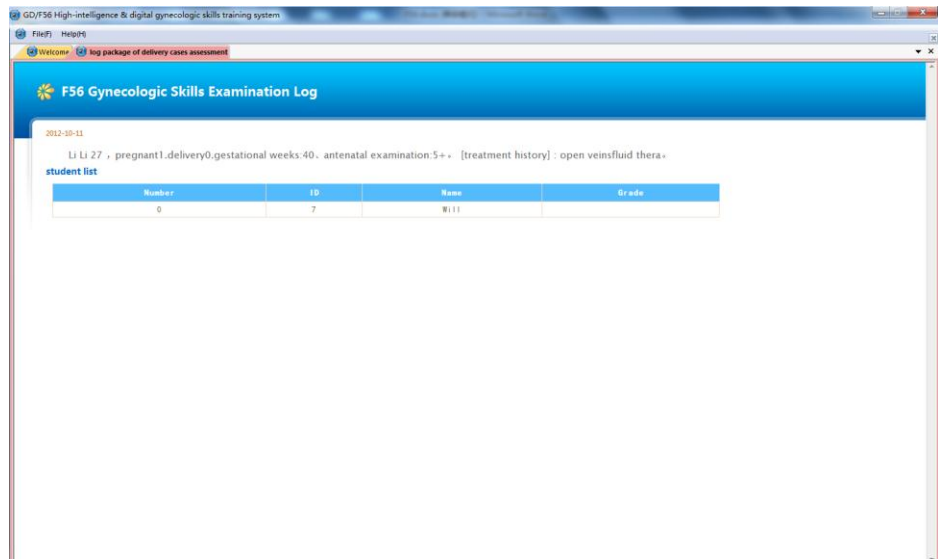
-
- Open "File→Save logs...".



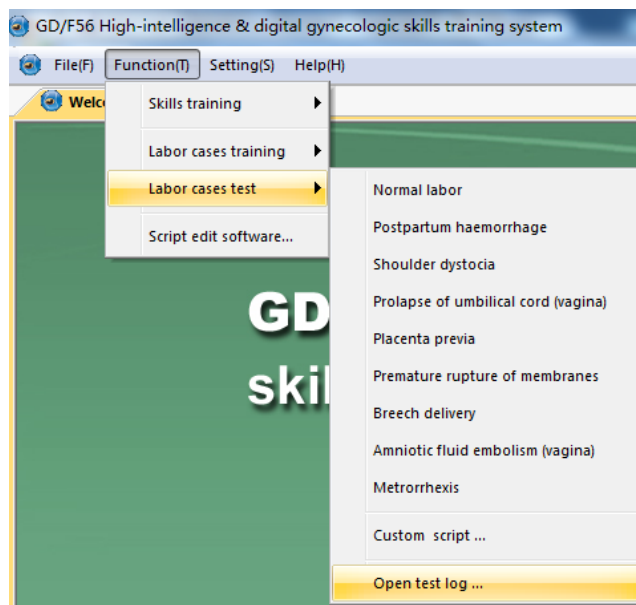
-
- Select the folder to save in.



-
- Display the log package of delivery case tests.



- Viewing transcripts : click “Function→Open test log... ” in the menu bar , and you can view the test results.

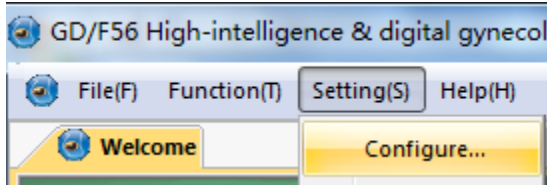


3. System setting



Method one : click  , and enter the interface.

Method two : click “Setting ” in the menu bar and enter the interface directly.



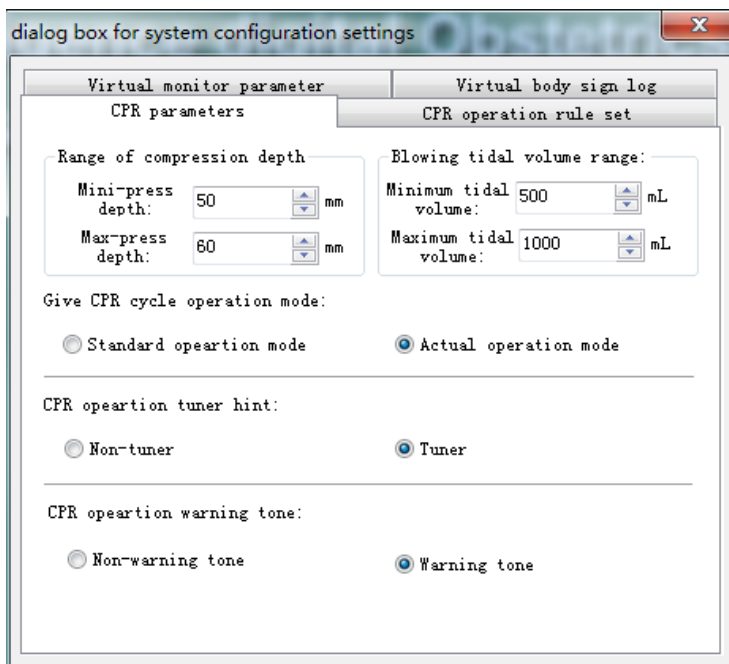
System settings include : setting of system configuration and modification of the lecturer' s login code.

System configuration settings:

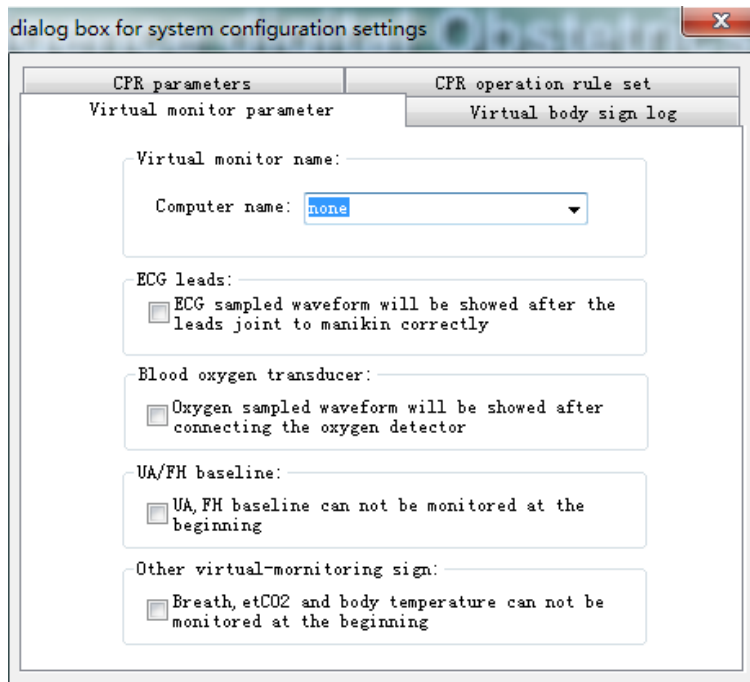


Click  to enter system configuration setting.

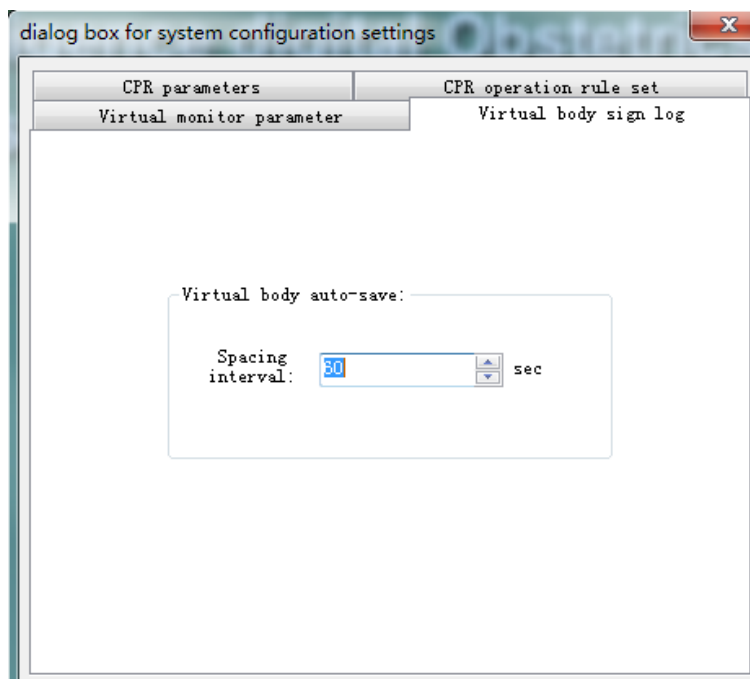
Parameter settings of cardiopulmonary resuscitation:




Parameter settings of the virtual monitor:

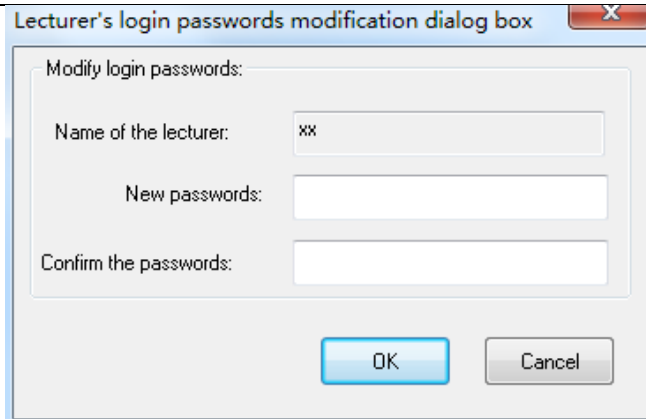


Log settings of the virtual signs:




Lecturer' s login code modification:

Click  , and enter lecture' s login code modification.

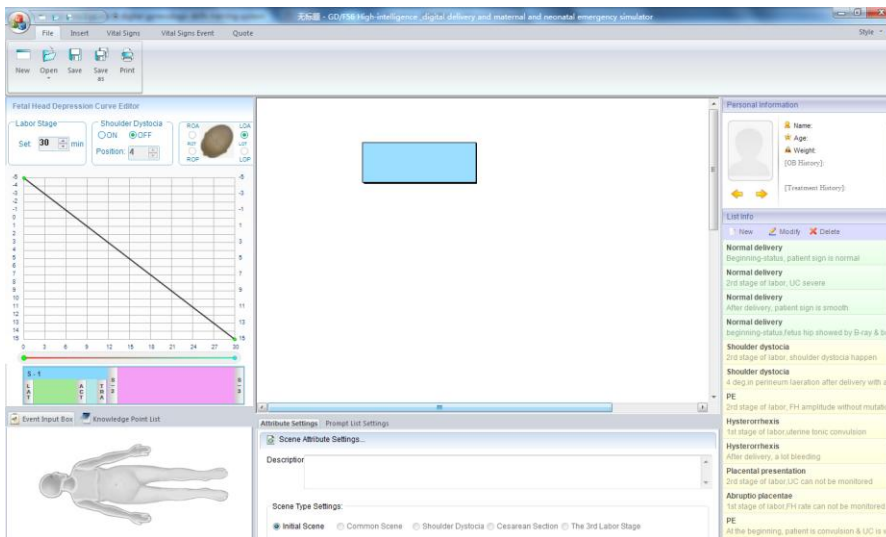


4. Script editing

Method one : click  , and enter the script editing software.

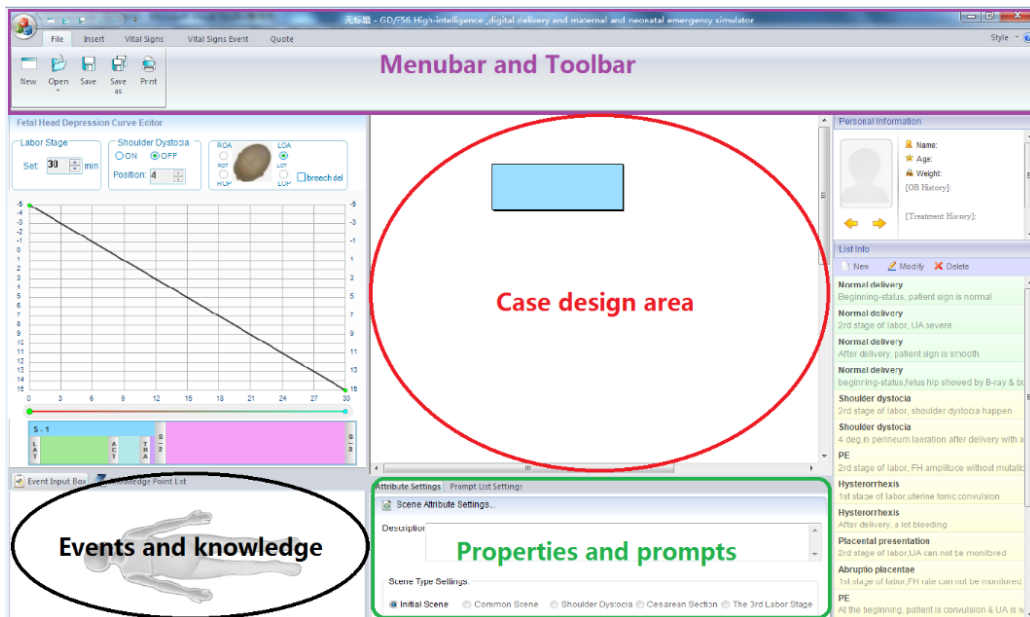
Method two : double click  , and enter the script editing software directly.

The interface of script software of gravida delivery is shown as following:



The interface of script editing is divided into seven parts : The top is for menu bar and tool bar. The left is for editing of fetal head descending curve, events and knowledge. The mid is for case design area, properties and prompts. The

right is for individual information and list information.



Menu bar and tool bar:

Menu description of "file" :



New : create new script , key Ctrl+N for short cut.



Open : open the existing script , a total of 14 scripts



Save : save the current designed script , key Ctrl+S for shortcut.

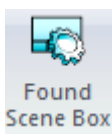


Save as : save the current script into other location or as other names.

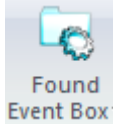


Print : print the script currently opened.

Menu description of "insert"

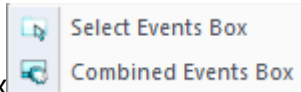


Found Scene Box : create a new scene box.



: create a new event box, including combination event box and

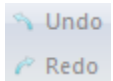
selective event box .



: connect the scene box and event box.



: delete the scene box or the elements in it; delete the event box or the events in it; delete the connecting lines.

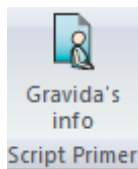


: cancel the user' s operation or restore the user' s original operation.

The “sign” menu includes settings of the simulated patient’ s physiological parameters, delivery parameters, laboratory examinations and other parameters. Different signs can be set in the scene box.

The “sign event” menu includes defibrillation, pacing, CPR operation, ABC events, administration and time. Different sign events can be set in the sign event box.

Menu description of “reference” :










Click **Script Primer**, and the gravida information bar will be displayed. You can set the information of the gravida.



The image shows a software window titled "Gravida's Info". It contains several sections for data entry:

- Basic Information:** Name, Age, Weight.
- Medical History in Obstetrics:** Gravidity, Term, Preterm, Full-term Birth, Induced Abortion, Parity, Spont. Abortions, Antenatal Examination. Includes checkboxes for Hypertension, Venereal Disease, Tuberculosis, Hemopathy, Allergic History, PROM/PPROM, Diabetes, Hereditary Disease, Viral Infection, Liver and Kidney Disease, Menstrual History, and Surgical History.
- Treatment History:** Checkboxes for None, O2, AROM, CPR, IV Started, Fluid Therapy, Pain-Meds, Epidural Anesthesia, FSE, and IUPC.
- Catheterization:** Difficulty, Have or Not Have Hematuria.
- Stage1 Stage2 Stage3:** Fetal Lie, Dilation, Station, Pain, Bleeding Condition, Membranes, Others.
- Delivery Patterns:** Checkboxes for SVD, Caesarean, Assisted Breech Delivery, Dystocia, Vacuum Extraction, Breech Extraction. Includes Position of Obstetric Forceps and Others.
- Postpartum:** Fundus Height, Degree of Perineum Laceration.
- Neonatal Condition:** Apgar Rating, Birth Injury or Deformity, Weight, Height, Sex, Umbilical Cord, Others.

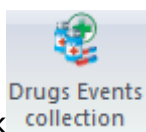


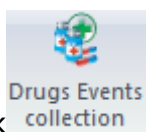
Click  , and start setting ABC events.  save the event added. 
 restore the default event entries of the system.  add a new event. 
 delete the event added.  option move up ,  option move down.







The image shows a "Dialog Box of Measure Events Editing". It features a list box containing the following categories:

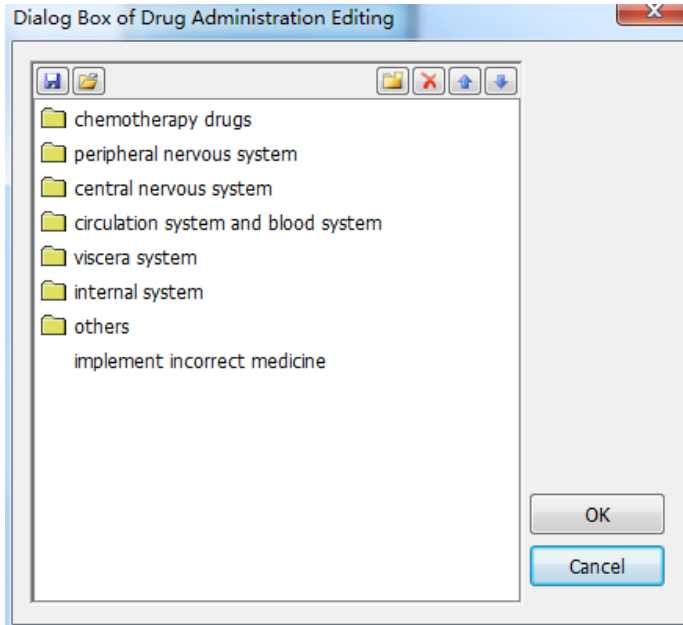
- assess
- urgent handling
- airway
- respiration
- circulation
- others

At the top of the list box are icons for Save, Add, Delete, Move Up, and Move Down. At the bottom right are "OK" and "Cancel" buttons.



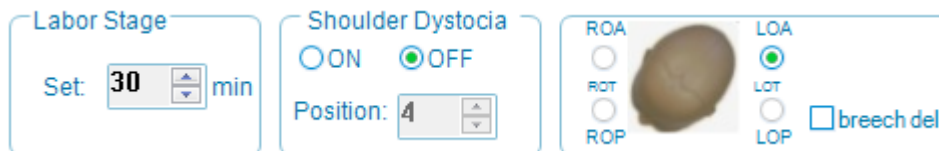
Click  , and the list box of administration will be displayed. You can

select the drug administrated.  save the added drug ,  restore the default drug entries of the system ,  add a new drug ,  delete the drug added ,  option move up ,  option move down.

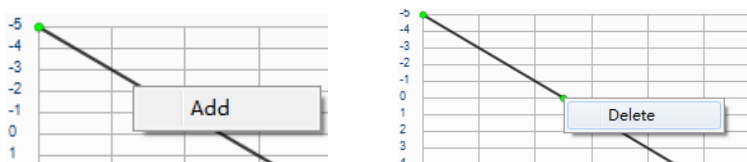


Editor of the fetal descending curve:

Panel time information: You can set the time of birth process, whether there's shoulder dystocia and its position, and the choice of fetal position.

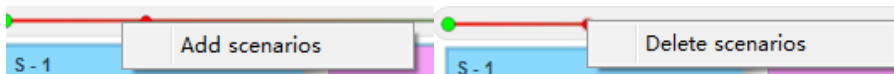


Fetal head descending curve : right click , and you can add the position point of fetal head descending , or you can right click to delete it.



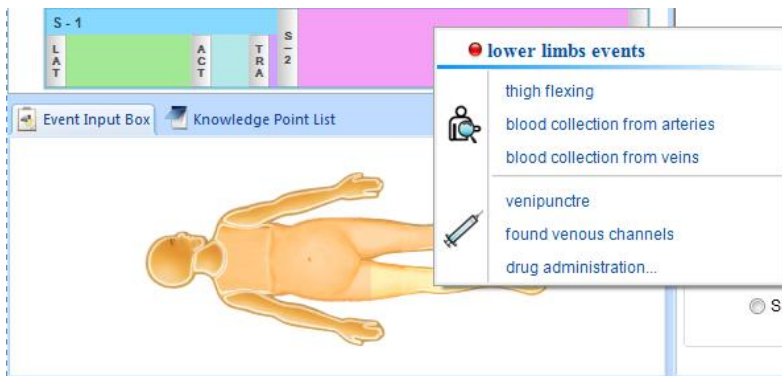
Scene position point: right click on the scene line to add a scene point. You can set the ordinary scene, shoulder dystocia scene and caesarean section scene, or

you can right click to delete the scene point.



Events and knowledge:

Create a new event box in the case design area. Double click the event box, and the image of the simulated patient in the event input box will turn from grey into yellow. Click on any part of the body, and select different events. The event selected will be displayed in the event box.



Knowledge list: displays knowledge items of the current case.



Properties and prompts:

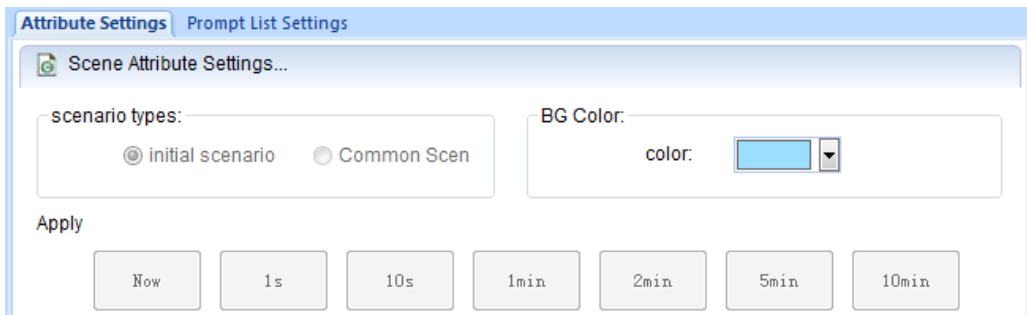
Property settings: include settings of scenario properties, scene properties and event properties. Scenario is composed by one or more scenes and events.

Scenario property settings: you can describe the scenario and select the

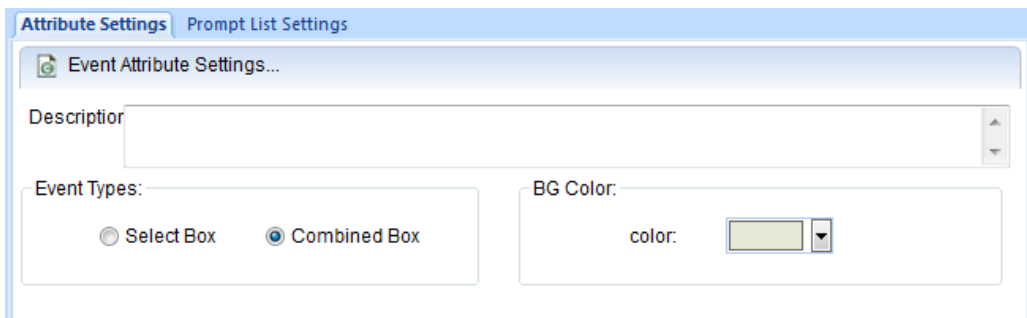
scenario type.




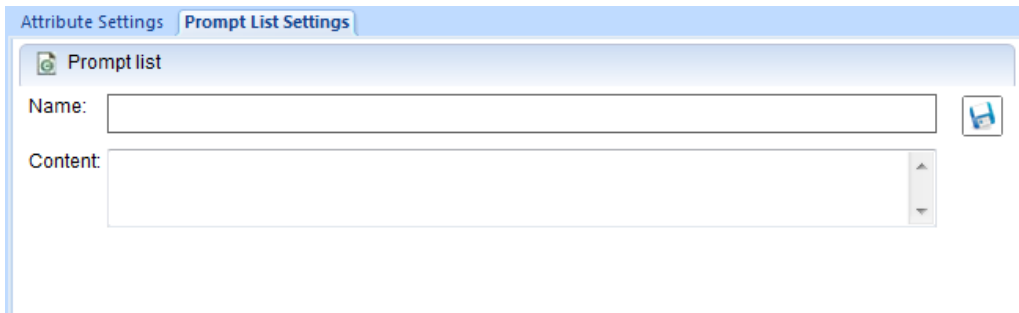
Scene property settings: You can select the type of the scene and background color of the scene, and the operation time of the scene can also be set.



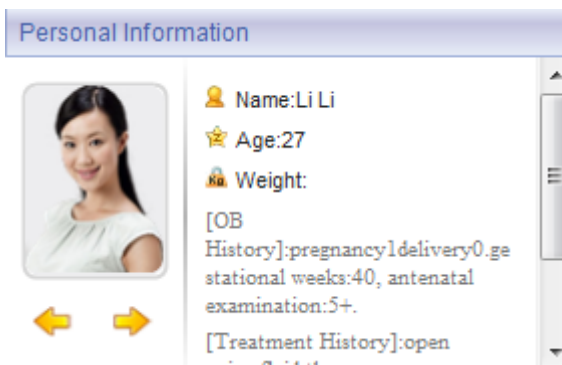
Event property settings: you can describe the event, or set the event type and background color of the event box.



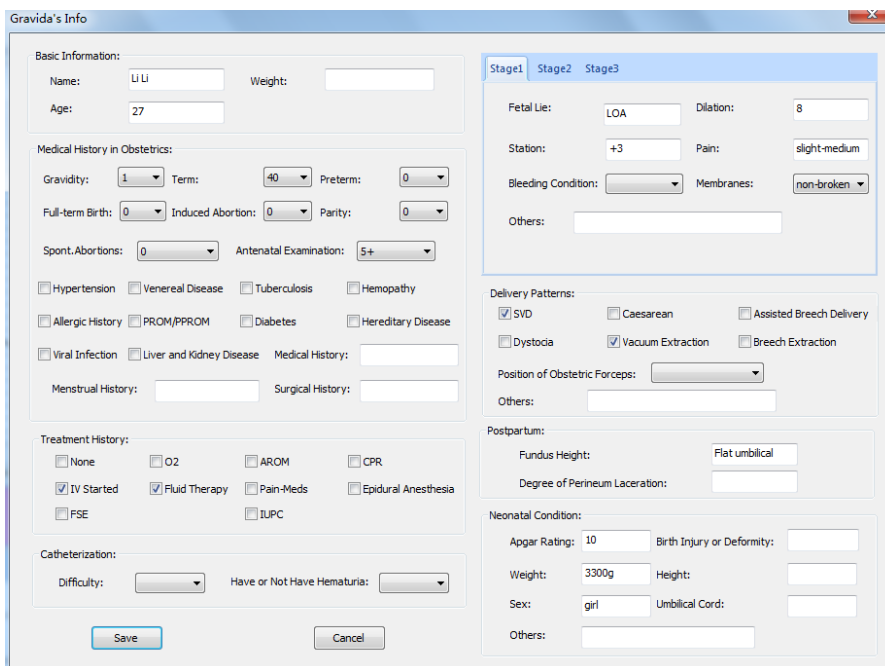
Prompt list settings: input the knowledge content in the prompt list, and click  to save it. The content input will be displayed in the left knowledge list.



Individual information template: you can select an existing template, or edit new individual information.

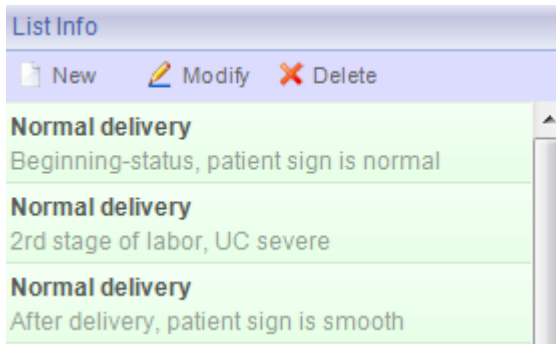


Click on the picture, and a dialogue box of gravida information will be displayed. Add in the relative information, and click “save” to create a new template.

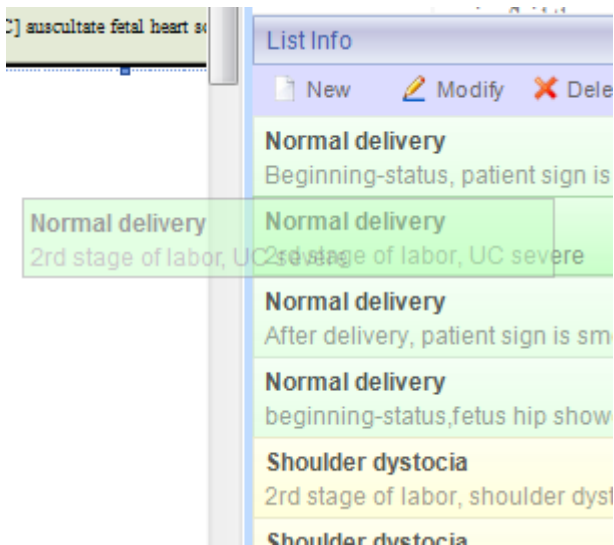




List information: displays the case sign templates.

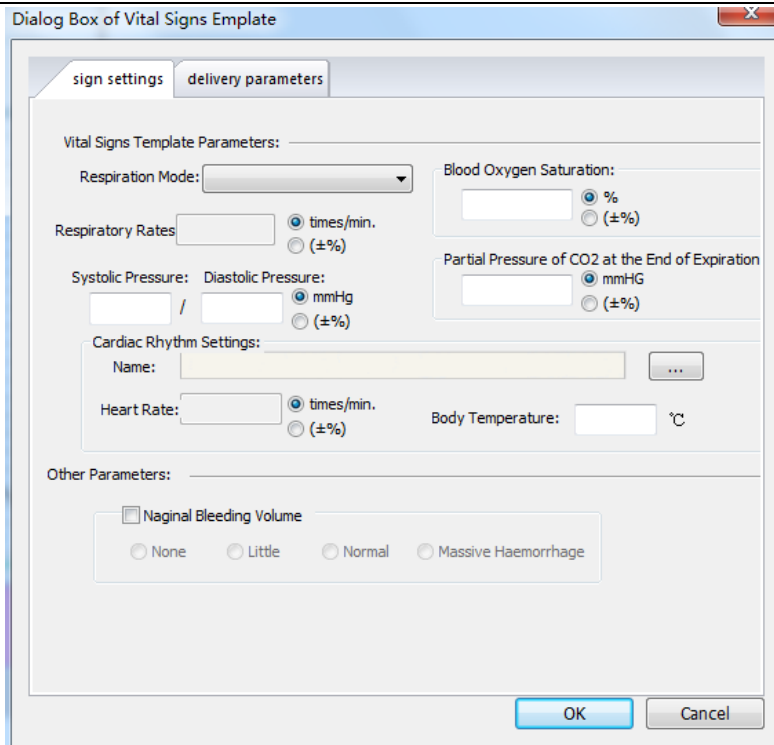


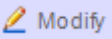

You can directly drag an existing template to the case design area.



Or you can click “new” , and a dialogue box of sign template will pop up.

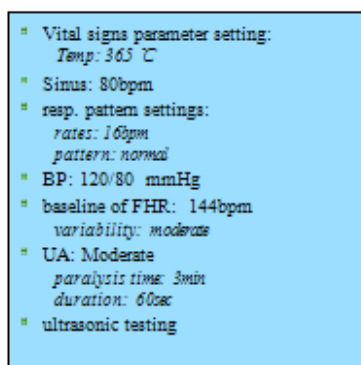
Create the new template.



Select an existing sign template. Click  ,and modify the contents of the template. Or Click  , and delete the template.

Case design area:

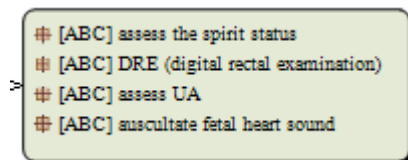
Scene box : scene is the status of the case at a certain time point, including information of vital signs, laboratory examinations, et al.



Event box : Event is the operation given at a certain time point, including all kinds of treating measures such as cardiopulmonary resuscitations, administration, et al. Choose different event boxes according to different

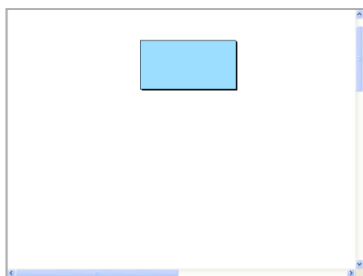


options, including selective event box and combination event box. For selective event box, you only need to complete one of the events in it, and the case script will continue to run, while for combination event box, the case script won't run until every event in it is completed.

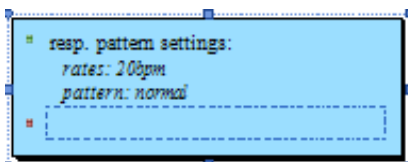


Editing script case:

Editing new script : click "file" ---- "new" , and a new scene box appears in the case design area, then start script editing.

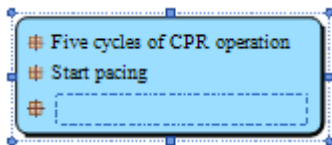


Creating a scene box : click "insert" ---- "Found scene box" , then click in the case design area and a new scene box will appear. Double click the scene box, and select different sign parameters. Double click the scene box again, and you can add more signs.

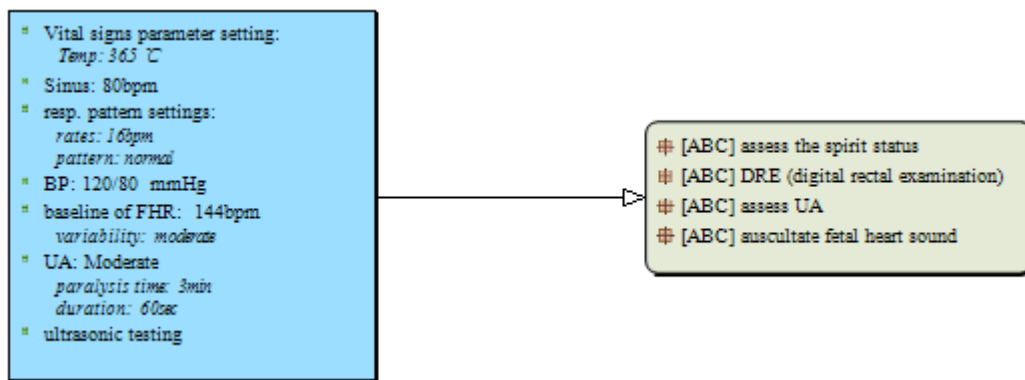


Creating an event box : click "insert" ---- "Found event box" , and select "Select events box" or "Combined events box" . Click in the case design area and a new event box will appear. Double click the event box, and select

different events. Double click the event box again, and you can add more sign events.



Scene boxes and event boxes are connected by connecting lines. Click "insert" "----" Connecting Operation ", or connect the scene box and event box directly with the mouse, thus a scenario is created. One script will contain several scenarios. Create a new scenario point on the scenario line, and click the scenario point, and you can start the next scenario design. It should not be connected with connecting lines between two scene boxes, nor can it be connected with connecting lines between two event boxes.

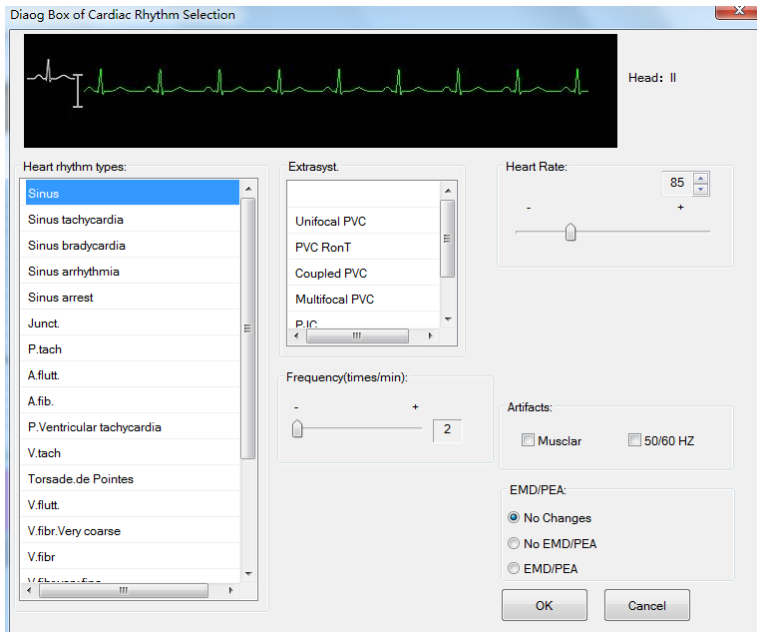


Sign settings : Create a scene box, and select different signs.

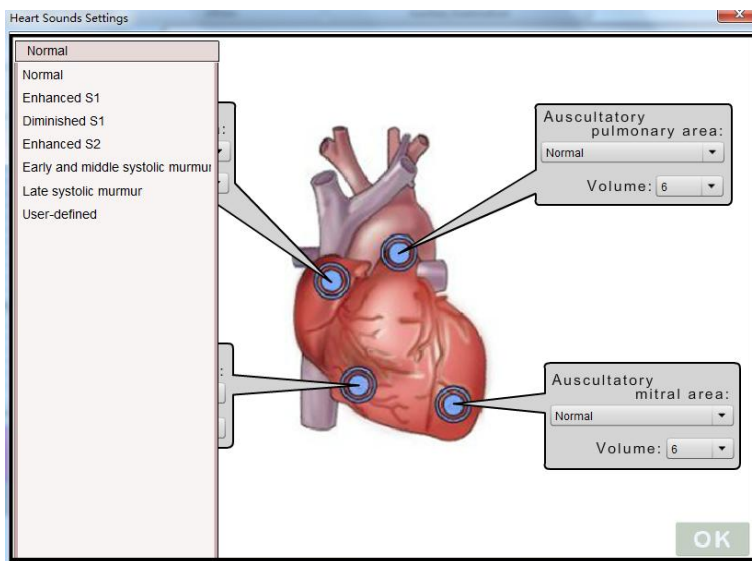
Setting physiological sign parameters:




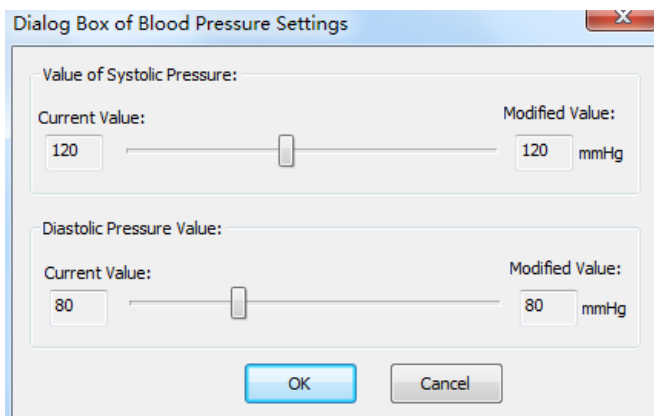
Click **Rhythm** , and start setting the heart rate parameters.

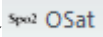


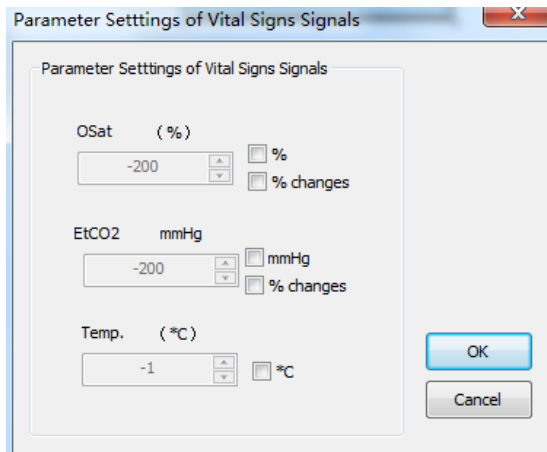
Click  , and start setting the heart sound parameters.




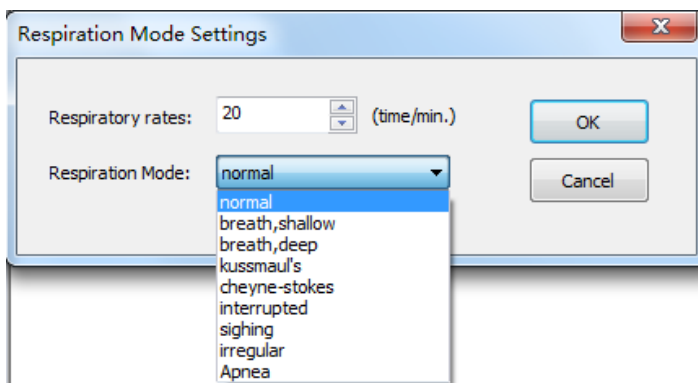
Click  , and start setting the blood pressure parameters.




Click  , and start setting the blood oxygen parameters.

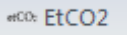


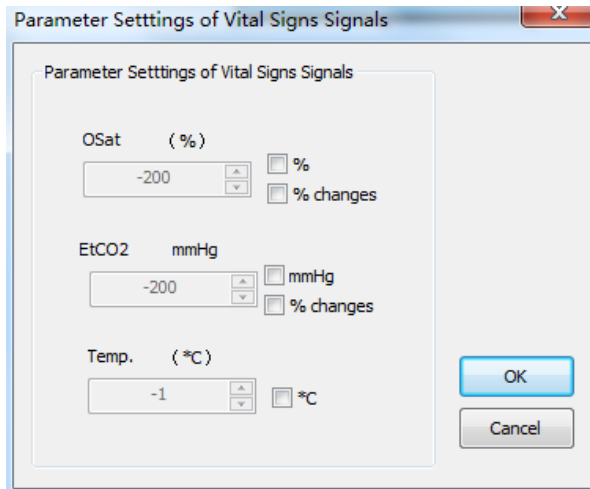
Click  , and a dialogue box shown as following is displayed, then start setting respiration parameters.



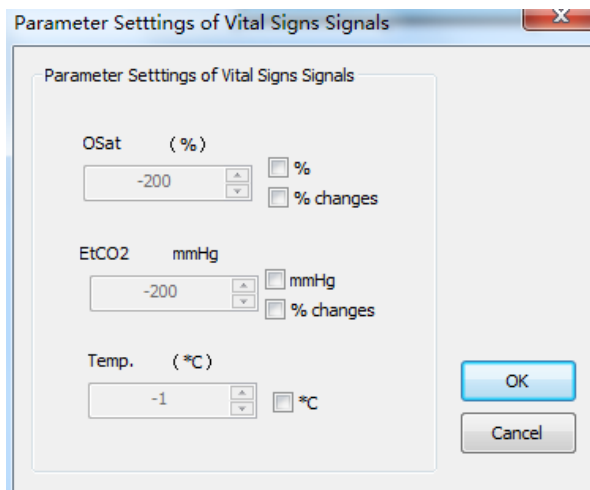
Click  , and set the type and location of the respiration sounds.



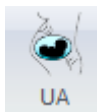
Click  ,and the carbon dioxide partial pressure parameters can be set.




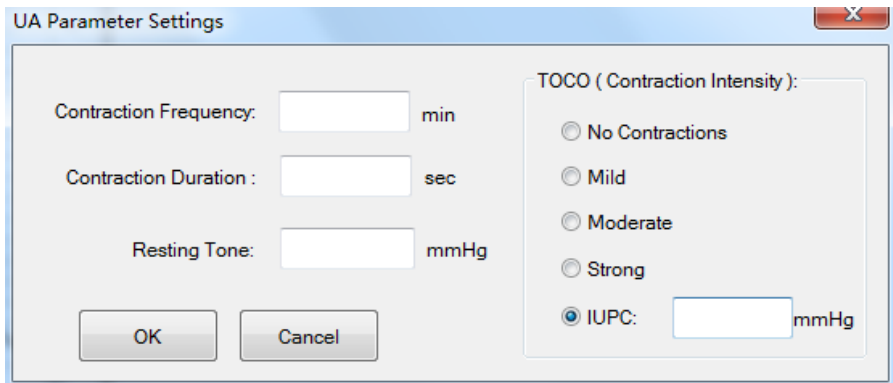
Click  , and set the body temperature of the simulated patient.




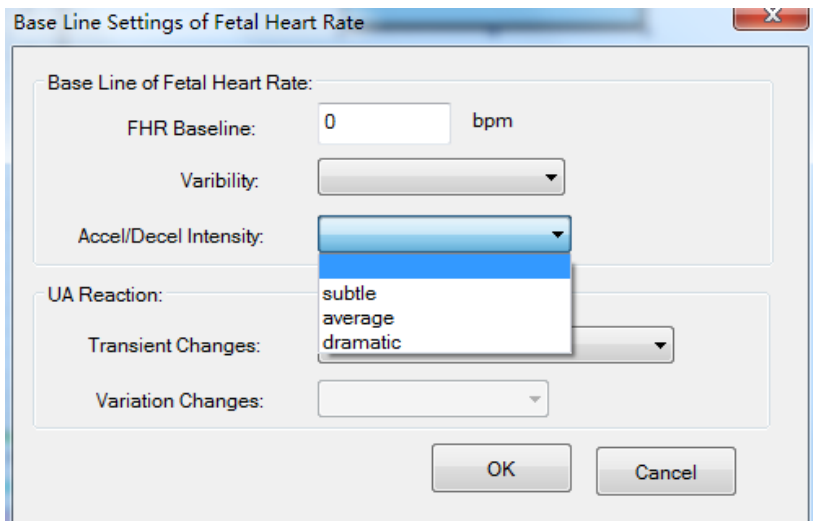
Setting delivery parameters:



Click  , and set the contraction parameters, Including contraction intermission, duration, intrauterine pressure and contraction intensity.




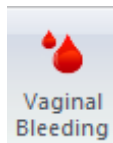
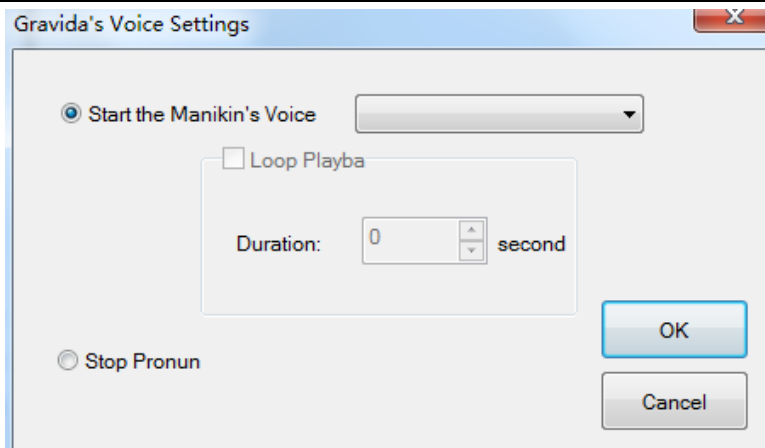
Click  , and set the fetal heart rate baseline parameters, including baseline features and transient change features.



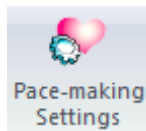
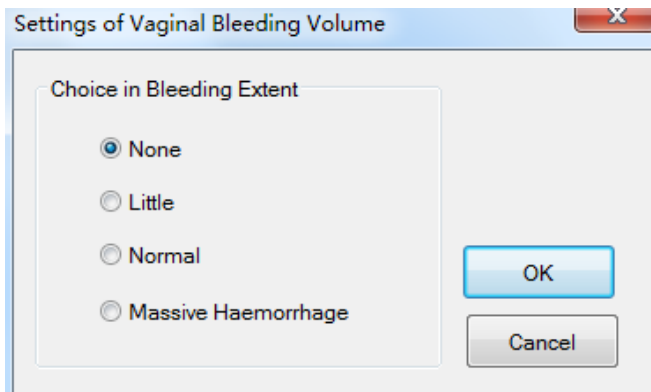
Setting other parameters:



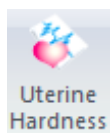
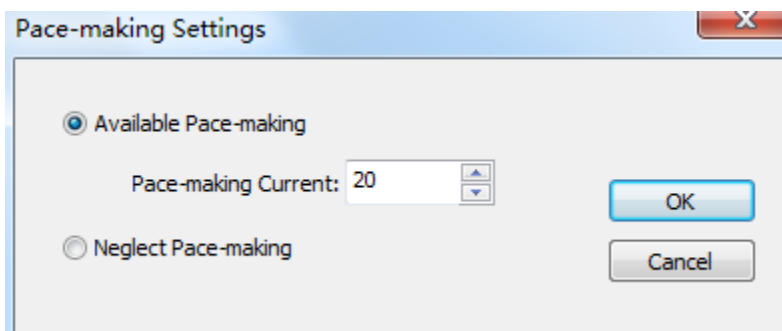
Click  , and start setting the simulated patient voice. The system provides a variety of simulating sound to choose. You can set it to loop or set a fixed playback time, or stop the pronunciation.

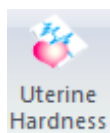


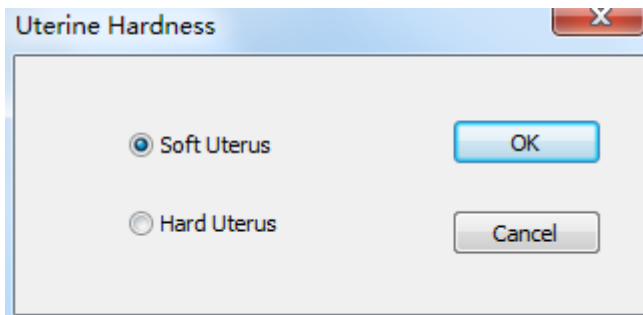
Click  , and you can set the vaginal bleeding amount.



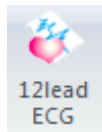
Click  ,and start pacing settings. You can set different pacing current.

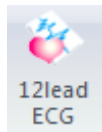


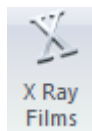
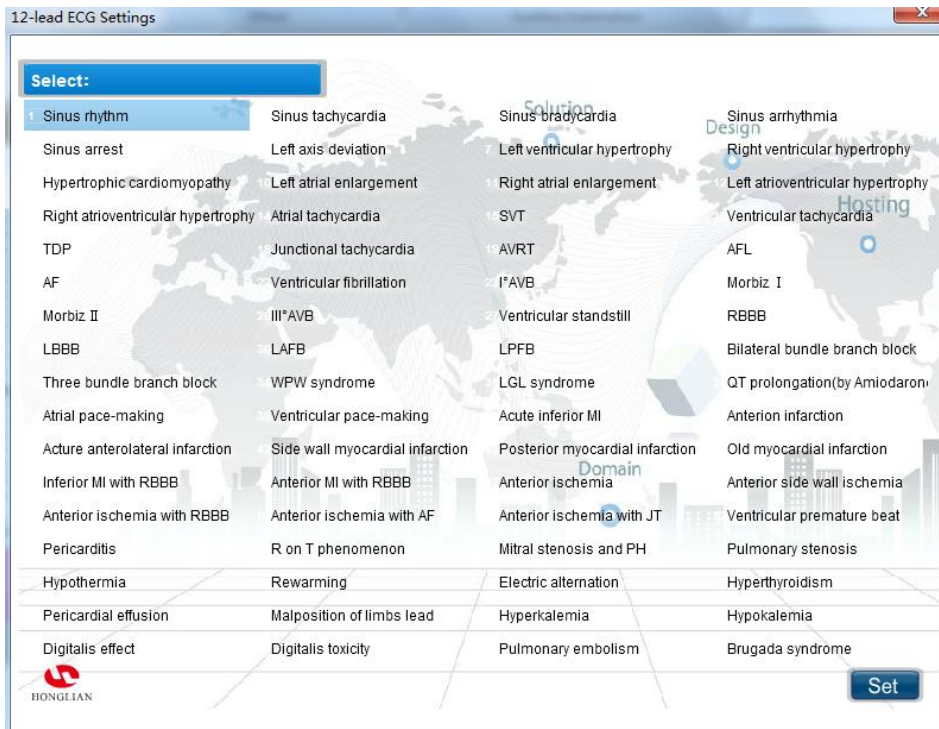
Click  , and set uterine hardness.

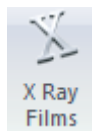


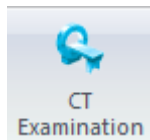
Setting the accessory examination parameters:

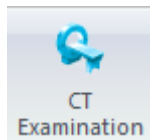


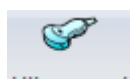
Click  , and a dialogue box of 12-lead ECG will be displayed., then set the parameters.

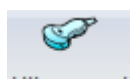


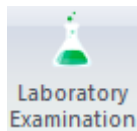
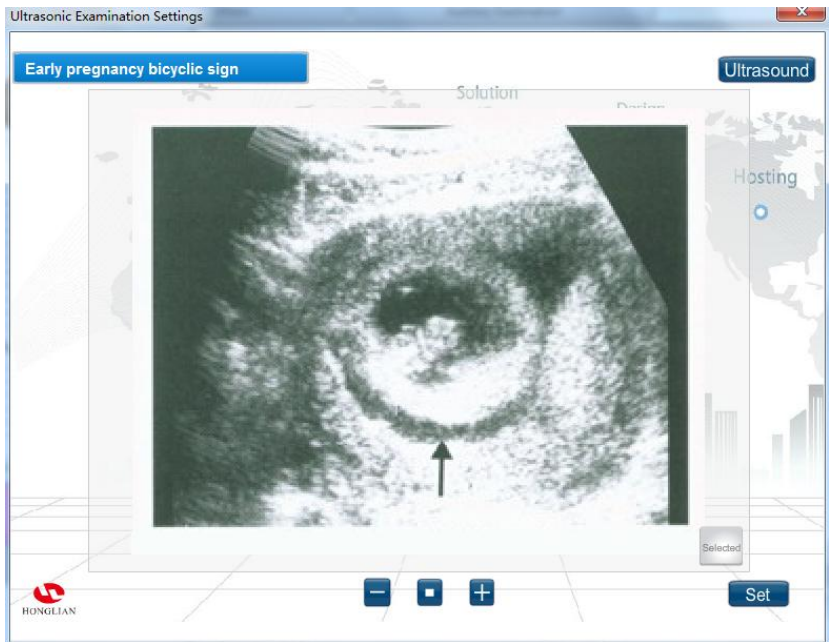
Click  , and dialogue box of X-ray results will be displayed, then set the parameters.

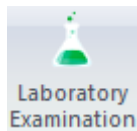


Click  , and a dialogue box of CT results will be displayed, then set the parameters.

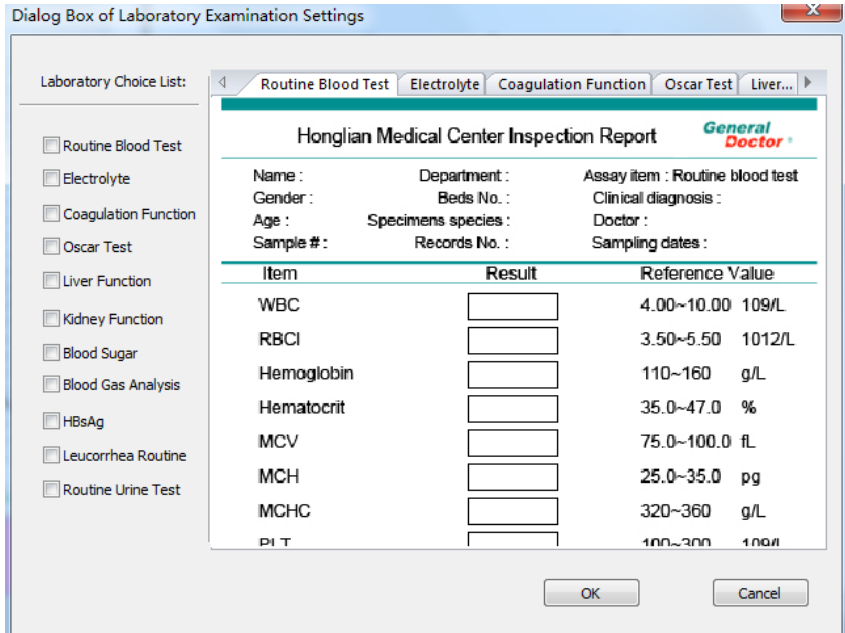


Click  , and a dialogue box of ultrasound will be displayed, then set the parameters.



Click , and a dialogue box of other laboratory tests will be displayed.

You can set it.

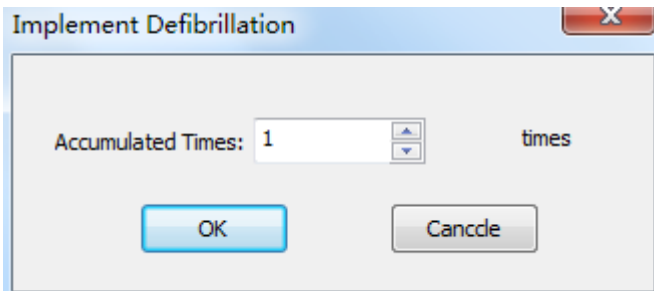


Setting sign event parameters: create an event box, and select different sign events.

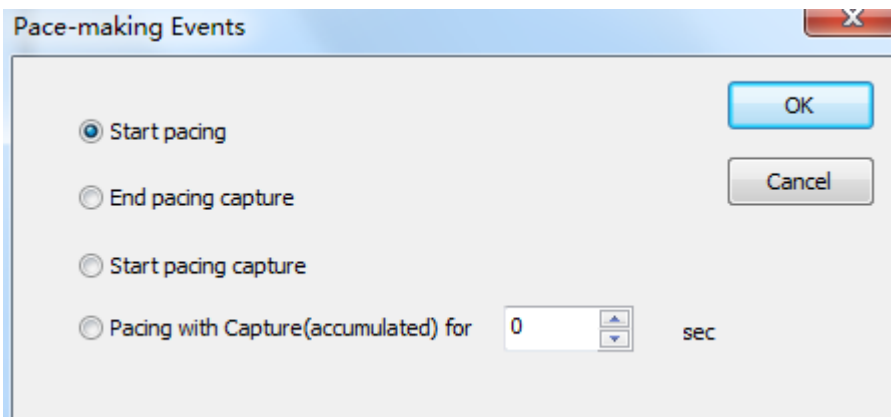
Setting event items:



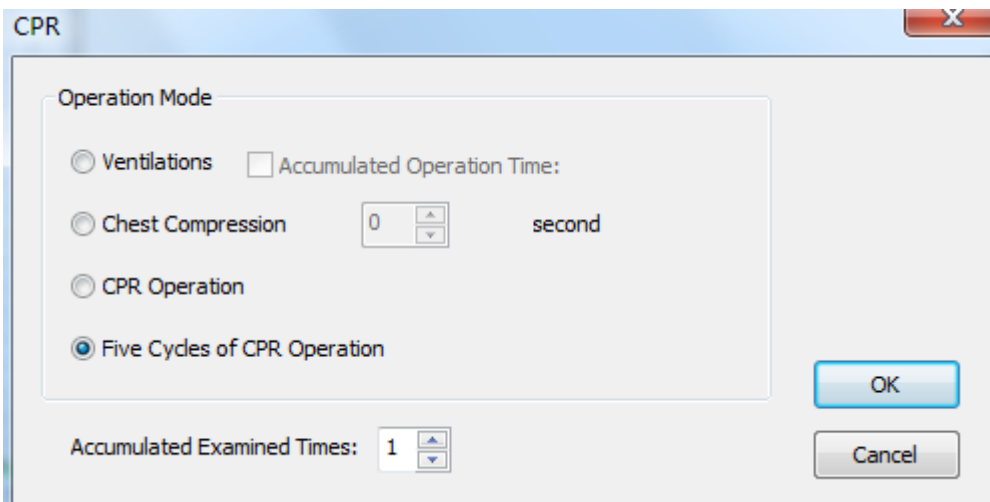
Click **Defibri.** , and set the times of defibrillation.



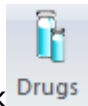
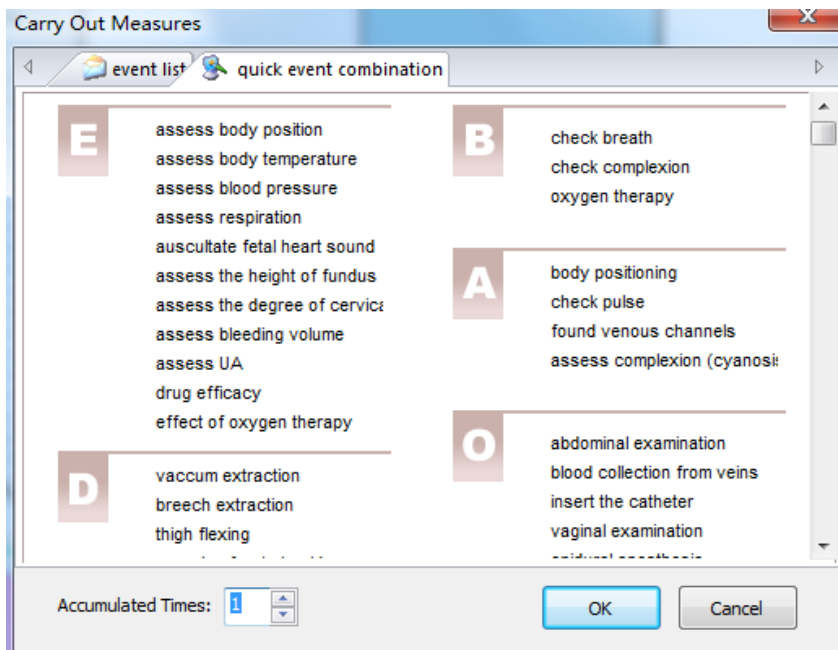
Click **Pace** , and set the parameters of the pacing event.



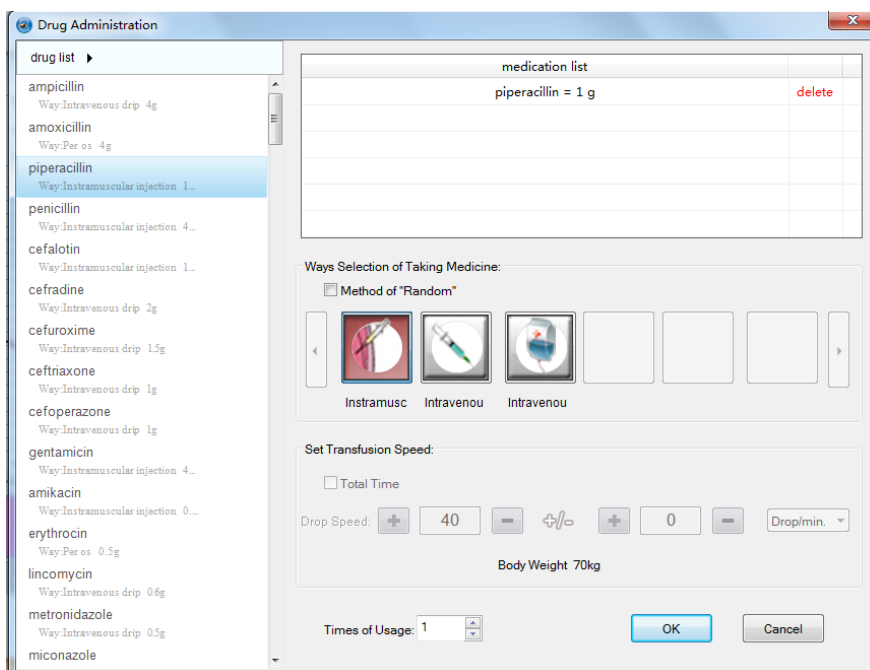
Click **CPR** , and set the parameters of cardiopulmonary resuscitation.



Click **ABC** , and start setting ABC events , which are divided into event list and shortcut event combination. The cumulative times of the event can be set.



Click **Drugs** , and start setting drugs. You can set the way of administration, administration time point, times of administration, and drip rate parameters.



Other settings:



Click **Time** , and set the patient time and duration in the framework.



Time X

Patient Time <= sec

Duration in the Framework =