# Human Patient Simulator

Features:

1. a high-end emergency and intensive care manikin, simulate real vital signs, realize the response of human body to various physiological, pharmacological and therapeutic interventions, carry out high-quality simulation training for diferent medical procedures and cases, mainly used for pre-hospital and in-hospital training and teaching of the diagnosis and treatment of acute and critical diseases

2. has realistic appearance and obvious anatomical landmark,it can be connected to real medical equipment, set up various clinical scenarios, simulate various symptoms and signs, and automatically identify drugs; fully wireless control design, real-time voice intercom technology, 3D intelligent software control

3. Control software (RISING): simple interface, powerful function and easy operation. It has 5 physiological systems, can control and adjust various physiological and pathological parameters and functions of the manikin

4. Nervous system:

   ① Simulation of neurological symptoms: blink and pupil light relex

   ② Epilepsy: trismus, foaming at the mouth, convulsion of upper limbs

   ③ Stif-neck

   ④ Liquid secretion: cerebrospinal luid, tears, saliva, sweat, snot

5. Circulatory system

   ① It has 13 places arterial pulse : bilateral carotid artery, bilateral femoral artery,bilateral radial artery, left brachial artery,bilateral ankle artery, bilateral popliteal artery, bilateral foot artery. Pulse strength can be adjusted

   ② Blood pressure measurement: blood pressure can be measured with a sphygmomanometer

   ③ Cyanosis: cyanosis of the lips, fingers (toes),the degree of cyanosis can be adjusted

▲ Pupil light reflex

▲ Meningeal irritation

▲ Fluid secretion

▲ Cyanosis
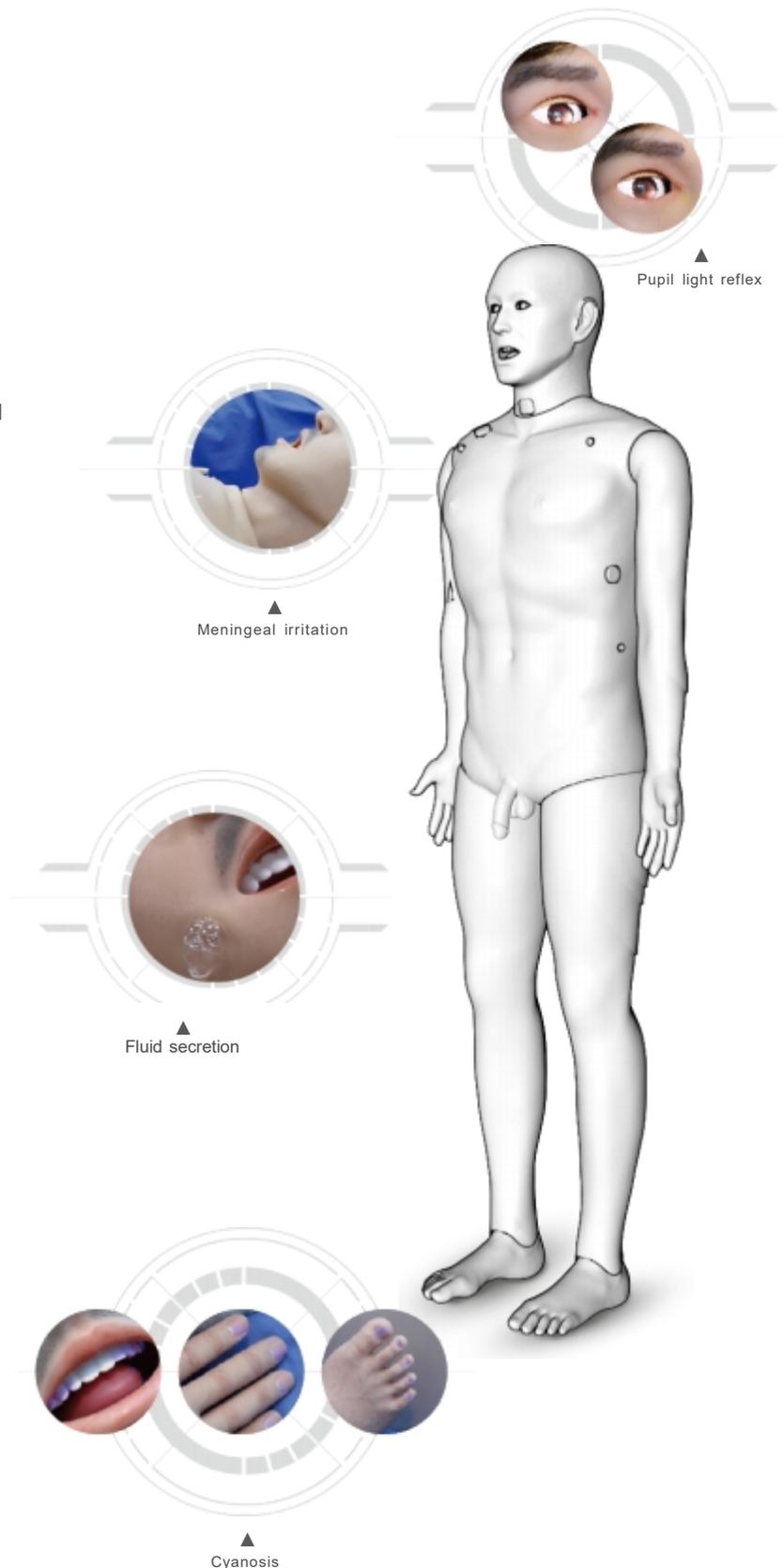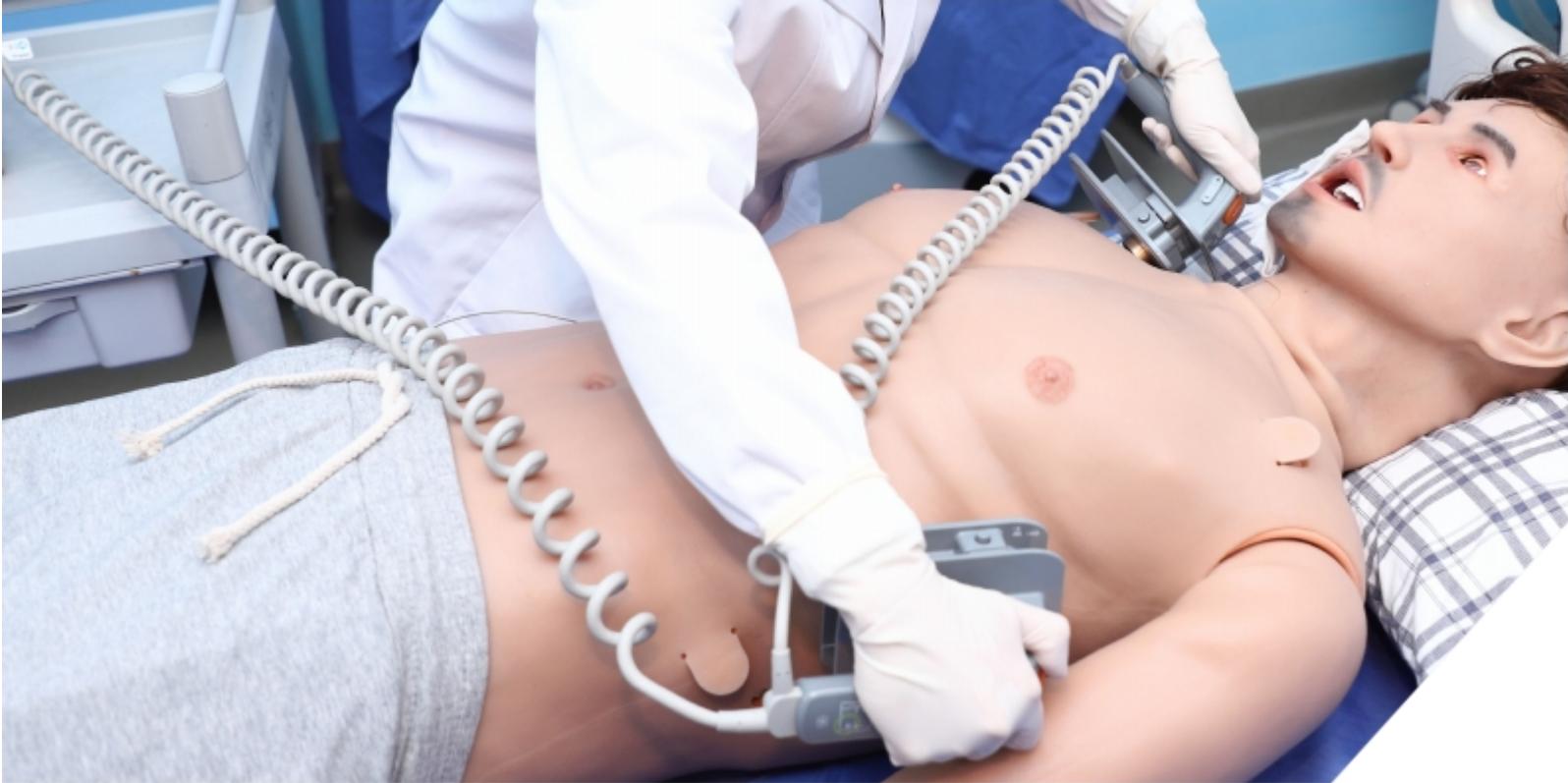
④ Electrical defibrillation: It can be connected to a real defibrillator for electrode defibrillation, and it can directly feed back to the electrical defibrillation, and convert it into the post-treatment heart rhythm on the electrocardiogram and monitor

⑤ ECG monitoring: real ECG monitor can be connected

⑥ Cardiopulmonary resuscitation: it can perform artificial respiration and chest compression, with autonomous feedback and vital signs changes, and the depth and frequency of compressions can be monitored

⑦ Cardiac auscultation: it has 4 auscultation sites in the front chest, with a variety of normal and abnormal heart sounds, and the volume can be adjusted

⑧ Bleeding: the built-in blood reservoir controls bleeding and the amount of bleeding can be adjusted

6. Respiratory system:

① Airway management: Built-in RFID technology can identify a variety of airway management tools; can be intubated through the oral/nasal cavity and monitor the position of the intubation; tracheotomy, cricothyroid puncture, tongue edema, laryngospasm,pharyngeal swelling can be performed

② Lung compliance: Spontaneous breathing, adjustable breathing rate and strength, and bilateral lung compliance can be adjusted

③ Lung auscultation: it has 8 auscultation sites in the forechest, with normal breathing sounds, abnormal breathing sounds, rales and pleural frictions

④ Spontaneous breath: show the chest rise and fall

7. Digestive system:

① Bowel sounds : a variety of normal and abnormal bowel sounds, auscultation in 4 quadrants, adjustable volume

8. Urinary system:

① Catheterization: Indwelling catheterization and disposable catheterization can be performed, monitoring the insertion position

9. Puncture:

① Sternal manubrium puncture: the manubrium sternum has a puncture module for the manubrium sternum puncture

② Thorax puncture: pneumothorax, liquid thoracic puncture

③ Tibial puncture

10. Drug identification: built-in RFID technology, providing hundreds of clinical drugs for selection, drug chip for drug identification, including drug name, dosage, use method and operation time

11. Case editing: simulating the clinical scene, the development process of clinical cases can be set in manual mode to realize the training of students' clinical thinking ability, and the edited cases can also be selected through automatic mode

12. Voice intercom: to realize the interaction between the doctor and patient

13. Virtual patient monitor: equipped with a all in one screen, WIFI connection to the software system for control and editing

14. It can be connected with a large screen and a projector, so that the operator can check the changes of vital signs more intuitively

15. ECG, vital signs: with blood pressure, pulse, respiration, blood oxygen saturation, etc. The upper and lower alarm limits of each parameter can be adjusted and there is an alarm sound

16. Main components:

① Manikin 1 pc   ③ Virtual patient monitor 1 pc

② Laptop 1 pc   ④ Software 1 pc