

# MANUAL

## **BIX-H2400 Advanced Full-functional Trauma Care Model(With Blood Pressure Measurement)**



**Shanghai Chinon Medical Model & Equipment Manufacturing Co.,Ltd.**

**Ada Med Supply Limited**

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### **一、 Features:**

This Model is newly developed by our company, based on the nursing operation and clinical practice nursing technology outline. It is an advanced type of basic nursing by which can cover all the nursing operation function of simulation model, instead the pre-sims which can not do the real operation. This model is made up of plastic material, Made by die casting mould technology, injection, piercing, genital made from imported soft plastic, etc.

Has character of clear image、real operation, easy disassembling, reasonable structure, durable, etc.

This model include the all function of holistic nursing, and some parts is removeable for teaching.

Is also an advanced、complete function、unique material advanced nursing training model

In current domestic.

### **二、 Function:**

1. Hand Care : shampoo、 face-washing、 eye、 ear drop clean、 big cavity nursing
2. Overall Care: bad baths、 brush baths、 ware/exchange close、 cool&hot cure
3. Oxygen Inhalation
4. Nasal Feeding
5. Gastric Lavage
6. Tracheotomy Nursing
7. Do Oral endotracheal intubation operation training directly
8. Chest anatomical important organs structure observation
9. Arm intravenous injection, infusion, blood transfusion training
10. Deltoid muscle subcutaneous injection
11. Thighs, hips muscle injection
12. Male/ female urethral catheterization

13. Male/ female bladder irrigation
14. Enema method
15. Drainage nursing colostomy
16. Pleural puncture (Between the 7-8 ribs of shoulder line, avoid the following puncture between 9 rib)、 Lumbar puncture (In 3-4 lumbar spine clearance, depth of needle for adult is 4 to 6 cm, The skeletons ridge peak flat 4 lumbar spine) And bone marrow aspiration (On the left rear skeletons on the former spines 1-2 cm) Liver biopsy (on the left axillary midline between 8-9 rib, depth of no more than 6 cm)
17. Important organs, abdominal cavity anatomy structure observation
18. Limb joints bend, up and down
19. Trauma care: Disinfection, Dressing, Hemostasis, Bandage
  - (1) The chest incision suture wound care
  - (2) Abdominal incision suture wound care
  - (3) Thigh injury cut suture wound care (disinfection, cleaning and suture)
  - (4) Torn thigh skin care (disinfection, cleaning)
  - (5) Thigh infectious ulcers (disinfection, cleaning, treatment)
  - (6) Foot gangrene, 1, 2, 3 digits with pressure ulcers and foot care (bedsore)
  - (7) Upper arm amputation wound care (for bandage training)
  - (8) Leg amputation wound care (for bandage training)

## **Blood Pressure Measurement Function**

### **1. Product Structure:**

Product Formation: Advanced arm blood training model include blood measurement training, arm model、 sphygmomanometer、 cuff, stethoscope, DC5V external power adapter, and other accessories

### **2. Connecting Method:**

- a. Connected one end to the blood pressure, the other 2 end to the cuff and trachea

- b. Insert the other end of the trachea to air pressure input back of training instrument
- c. Insert the model arm signal lines of merchandise into signal output terminal
- d. Tie the cuff on the arm directly
- e. Insert the plug of the ac adapter into the power input port. If use the battery, put the 5<sup>th</sup> battery /4pcs into the box back of the training model, Attention the positive and negative polarity.
- f. Press power button, the system boot
- g. Audio output can be an external headset or active speaker (mono)

### 3.Function Keys:

**“Power Button”**: First, system boot, again, power off

**" Setting "** :choose " Systolic blood pressure" , " diastolic blood pressure " , "" heart" "advanced Settings" menu.

**" + " " - " key**: Select a menu, press "+" "-" keys to increase or decrease the set value

After startup, the system will conduct self-inspection and display the boot interface

### 4.Menu Interface Introduction

After completion of system self-check, automatically entered into the main menu interface.

When training instrument using an external voltage regulator, left upper corner of the screen shows "O" icon,

When using the battery, right upper corner shows the battery icon and reflects the current power.

Simulation of mercury shows the cuff pressure on the left side of the screen, and the value on the top.

(When the pressure more than 30mmHg, the central screen displayed pressure value in large characters,

And the key will be locked, Unable to perform a single bond operations)

Systolic pressure, diastolic blood pressure, heart rate value showed on the right side.

The screen shows Systolic pressure, diastolic blood pressure, heart rate advanced setting etc. At the beginning, select box point to the Systolic pressure. You can press the "setting key" to choose the menu which need to be revised. Press "+" "-" enter the "advanced settings" menu.

Auscultation interval setting: Selected the auscultation interval, press "+" "-" enter to the interface.

Respectively selected auscultation ceiling and lower limit, then press the "+" "-" key. Auscultation ceiling/lower limit must do as pre requirement. If any error on the setting,

The training instrument will make an alarm when doing the return operation.

System default on auscultation/lower limit value is 0, suggests that this feature is not open.

**Pressure Correction:** Products have been pressure correction before they go out, the user can according to the actual situation again.

**Correct Method:** Selected the "Pressure Correction" in "Advanced settings" menu, press "+" "-" , enter into the pressure correct interface.

Choose "Pressure correction" press "+" "-" into the program.

According to the prompt, will play to a blood pressure cuff pressure pointer to 160 mmHg, lock valve, press "+" to enter the next step.

**4. Contrast:** Modification of contrast in advanced Settings menu item can change the screen display effect, divided into five, the user can do modify according to need

### 三、Blood Pressure Function Characteristics

#### 1. The blood pressure measurement training mode

Systolic pressure, diastolic blood pressure and heart rate parameters can be set

The main training technical indicators

Set the scope of systolic blood pressure (80-200 mmHg)

Heart rate setting range (50-140 times/min)

**PS:** a. The factory parameter Settings (systolic pressure 120 MMHG, diastolic pressure, 80 MMHG; heart rate 70 times/min)

b. When the systolic blood pressure value is less than or equal to the diastolic pressure set value, the system will alarm sound

2. Can be set up auscultation interval, simulate the special condition Upper limit of auscultation: systolic blood pressure is not greater than the current value: - 5 MMHG; Auscultation lower limit: diastolic blood pressure is not less than the current value: + 5 MMHG

1. The cuff pressure method of measuring blood pressure and display in real time

2. The cuff pressure measurement range (0-240 mmHg)

3. And is correctable.

4. Measurement process into the gas velocity detection and alarm prompt: when deflated speed is greater than 8 MMHG/s, the buzzer will alarm prompt

5. Keyboard shortcut: in order to ease of use, this product is the default for three set of shortcuts

- 1) "Pressure correction "shortcut: press" set "and" - "key at the same time, directly into the calibration interface pressure.
- 2) To restore the factory parameters: press the "Settings" and "+" key at the same time, can restore the factory parameters
- 3) Training/assessment mode switch: press the "+" "-" key at the same time, can freely switch between training or assessment mode
6. His sound played when real blood pressure measurement, but external headset or the source speakers.

PS: Headphones or speakers for options.

7. Automatic shutdown: when training instrument for five minutes when not in use, the system will automatically shut down
8. The power of the flexible choice: DC5V external power adapter or 5 batteries in 4pcs.

#### **四、Using Method(Blood Pressure Measurement)**

##### **1. Blood Pressure Measurement Training Mode:**

- 1) Connect the arm model and training of instrument and set the systolic pressure, diastolic blood pressure and heart rate value.

Note: when using, if it is found that training instrument measured pressure value, and pressure gauge pointer count deviation trap, please conduct stress correction to ensure the accuracy of the training.

- 2) Place the arm model level, palms up, blood pressure flat on the table, row to the best of the residual gas inside the cuff, flat coil 2 cm above the elbow, elastic to put a finger is advisable
- 3) Wear stethoscope, auscultation head close to the upper arm above the elbow, medial brachial artery shut valve, hold a handball to cuff inside pump up to 160 mmHg (normal diastolic blood pressure is less than 130 mmHg). Then slowly open

valve is deflated, to slow down, when I heard the first loud beat the stethoscope, the blood pressure pointer indicated by the scale that is representative of the systolic blood pressure. Continue to deflate, the increase of pulse sound continue to exist and, when the pulse sound suddenly disappeared, the pointer indicated by the scale that is representative of the diastolic blood pressure. If listen not clearly, can be a pointer to "0", to remeasure. If at the end of the first pressurized soon hear his voice, please appropriate pressure measuring 20-30 MMHG, high blood pressure conditions apply

Deflated measurement such as deflated too fast, in the process of training instrument will alarm prompt (buzzer ringing), Measurement process such as his sound is not obvious or voice is too light, please make sure the stethoscope head placement is correct.

Measurement process, the gas speed control in 2-4 MMHG/s can make accurate measurement results

4) Measurement, row cuff residual gas, tighten the valve, loose the cuff, arrange properly, into the box

## 2. Assessment Of Blood Pressure Measurement Model

1) First pressure correction (see pressure correction methods)

2) Then set the systolic pressure, diastolic pressure and heart rate value

3) Last press "+" – "at the same time, the training instrument will enter the examination mode, main parameter values will be hidden on the screen, at the same time the keyboard is locked, unable to perform a single bond operations (not including shortcut keys)

4) Compared the systolic blood pressure, diastolic blood pressure values measured by the students with the set value, to check student achievement



5) After the examination, the user again at the same time, press the "+" "-" key to switch to the training mode, the original set of parameter values will be displayed

## **2.Scope Of Use**

a) Medical University, College of Nursing, Health School, The Teaching of Clinical Medical Colleges and Universities Teaching and Student Practical Training

b) Hospital Medical 、Nursing Personnel to continue education in clinical teaching practice training

c) Health Units at the grass-roots level training of clinical popularization

## **三、 Maintenance Warranty**

a) Nasogastric, gastric lavage, enema, male and female urethral catheterization functions such as operations after the training, to empty your operation is pumped into the stomach, intestines, bladder residual liquid

b) Long time no used, model should be wiped clean, large packaging for a cool and dry place, to extend the service life

c) Model for packaged, keep the nut when disassembling, spare parts for replacement

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