

Product Supervision

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Hone your senses and skills for bedside cardiology

Cardiology Patient Simulator "K" is a classroom staple for cardiology assessment throughout the world's educational institutes for over 20 years and the upgraded "K" Ver.2 offers an even more efficient and effective clinical training for cardiology.

Cases: (MODE 1) Comprehensive patient simulation with sounds, pulses, apex beats and ECG

| No. | Normal heart simulation (12 cases) | No. | Heart disease simulation (14 cases) | No. | Arrhythmia (10 cases) |
|------|------------------------------------|------|-------------------------------------|------|---------------------------------------|
| A-01 | S2 split (-) HR: 60 | B-01 | aortic stenosis | C-01 | sinus arrhythmia |
| A-02 | S1 split (+) | B-02 | mitral regurgitation | C-02 | sinus tachycardia |
| A-03 | S2 split (+) | B-03 | mitral stenosis | C-03 | sinus bradycardia |
| A-04 | S2 wide split | B-04 | aortic regurgitation | C-04 | ventricular premature contraction (1) |
| A-05 | S3 gallop | B-05 | hypertrophic cardiomyopathy | C-05 | ventricular premature contraction (2) |
| A-06 | S4 gallop | B-06 | mitral steno-regurgitation | C-06 | ventricular premature contraction (3) |
| A-07 | pulmonic ejection sound | B-07 | pulmonic valvular stenosis | C-07 | sino-atrial block |
| A-08 | S3 and S4 gallop | B-08 | atrial septal defect | C-08 | atrio-ventricular block |
| A-09 | innocent murmur | B-09 | ventricular septal defect | C-09 | atrial fibrillation |
| A-10 | midsystolic click sound | B-10 | tricuspid regurgitation | C-10 | atrial flutter |
| A-11 | S2 split (-) HR: 72 | B-11 | acute mitral regurgitation | | |
| A-12 | S2 split (-) HR: 84 | B-12 | patent ductus arteriosus | | |
| | | B-13 | mitral valvular prolapse | | |
| | | B-14 | dilated cardiomyopathy | | |

(MODE 2) Arrhythmia simulation, auscultation training with ECG

| A | B | C | D | | | | |
|------|---------------------|------|-------------------------|------|------------------|------|---------------------|
| A-01 | normal sinus R | B-01 | atrial flutter | C-01 | VVI pacemaker | D-01 | vpc (quadrigeminy) |
| A-02 | sinus tachycardia | B-02 | av block | C-02 | atrial pacemaker | D-02 | vpc (trigeminy) |
| A-03 | sinus arrhythmia | B-03 | av block & crbbb | C-03 | vent pacemaker | D-03 | vpc (bigeminy) |
| A-04 | apc solitary | B-04 | av block (digital) | C-04 | av seq pacemaker | D-04 | vpc (couplet) |
| A-05 | apc bigeminy | B-05 | av block (mobbitz) | C-05 | icrbbb | D-05 | pvc (repetitive) |
| A-06 | ectopic pacemaker | B-06 | av block (mobbitz) | C-06 | crbbb | D-06 | pvc (R-on-T type) |
| A-07 | wondering pacemaker | B-07 | av block (3:1&4:1) | C-07 | clbbb | D-07 | non-sustained VT |
| A-08 | coronary sinus R | B-08 | av & crbbb | C-08 | clbbb | D-08 | vent tachycardia |
| A-09 | sinus bradycardia | B-09 | paroxysm atr tachy | C-09 | clbbb (by ami) | D-09 | vent flutter |
| A-10 | ss syndrome | B-10 | av junction R (svst) | C-10 | wpw syndrome | D-10 | vent fibrillation |
| A-11 | atrial fibrillation | B-11 | av junction R (pat) | C-11 | wpw syndrome | D-11 | vent R (sinus cond) |
| A-12 | atrial flutter | B-12 | av junction R | C-12 | wpw syndrome | D-12 | accel vent rhythm |
| A-13 | atrial flutter fib | B-13 | av junction contraction | C-13 | vpc (solitary) | D-13 | agonal rhythm |

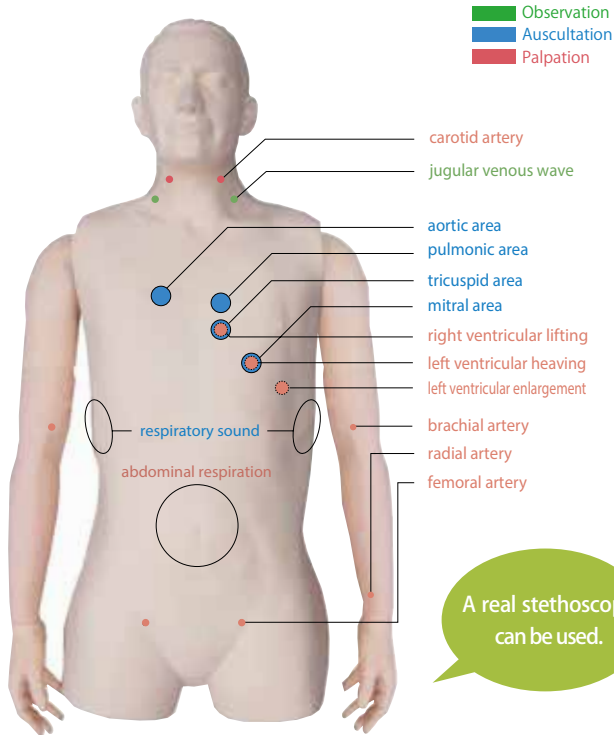
* A stethoscope is not included.

Features

Basic Skill Training

Physical findings of Simulator "K" Ver.2

Comprehensive Clinical Examination Training



Heart Sounds and Murmurs

Auscultation in relation to synchronized electrocardiograms and findings.

- differentiation of S1, S2, S3 and S4
- discrimination between systolic and diastolic murmurs

Palpation of Arteries

Slight variations of the arterial pulse waves under different cardiac conditions or arrhythmias can be detected by palpation.

Observation of Jugular Veins

The strength and timing of "a" and "v" waves vary with cases.

Palpation of Cardiac Impulses

RV, LV and DLV are simulated and can be palpated.

Monitoring Screen

Real time dynamic charts on the screen:

- phonocardiogram
- sphygmogram (CAP/JVP/AC)
- electrocardiogram (ECG)

Respiratory Sounds and Abdominal Movement

Respiratory cycle is represented to understand respiratory related phenomena.

Specifications :

| | | | |
|---|-----------------|---|----------------------|
| Set Includes: | | | Unit Size: |
| 1 main unit with the model body | 1 main monitor | 4 textbooks | W140 x D75 x H170 cm |
| 1 external speaker (built-in the unit) | 1 control PC | 2 instruction manuals | |
| 1 PC / keyboard / mouse (built-in the unit) | 1 rib sheet | -built-in help file of software operation | Power Consumption: |
| 1 air compressor unit (built-in the unit) | 1 storage cover | -instruction manual | 400 W |

For Effective Training Sessions

Up to 5 Simulators at One Time

OSCE, group session and scenario based simulation



Up to five cardiology simulators with respective can be controlled by one wireless tablet.

The system realize:

- scenario based training that involves more than one patient.
- learning with comparison between related or easy case examples.
- skills assessment sessions with different cardiovascular stations.

Playlist System

Simulator "K" is not just for individual task training. Incorporated "Play List Maker" facilitates creating and conducting scenario based training sessions which feature change in findings over time.



Playlist Maker facilitates:

- sessions with temporal change in physical findings.
- standardizing training contents among different instructors.
- saving time of preparation.

Ready-to-use

Simple connection and all-in-one unit structure.



Error Indicator

The error indicator performs check-up of the system to keep Simulator K in its best condition.

