



Cardiology Patient Simulator "K" ver.2

Hone your senses and skills for bedside cardiology

By using five senses to recognize heart sounds, lung sounds, pulses, abdominal respiration, jugular veins, apex beats and ECGs
The cardiology patient simulator K ver.2 helps you with hands-on training regarding patients with cardiac problems

Product Supervision:

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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

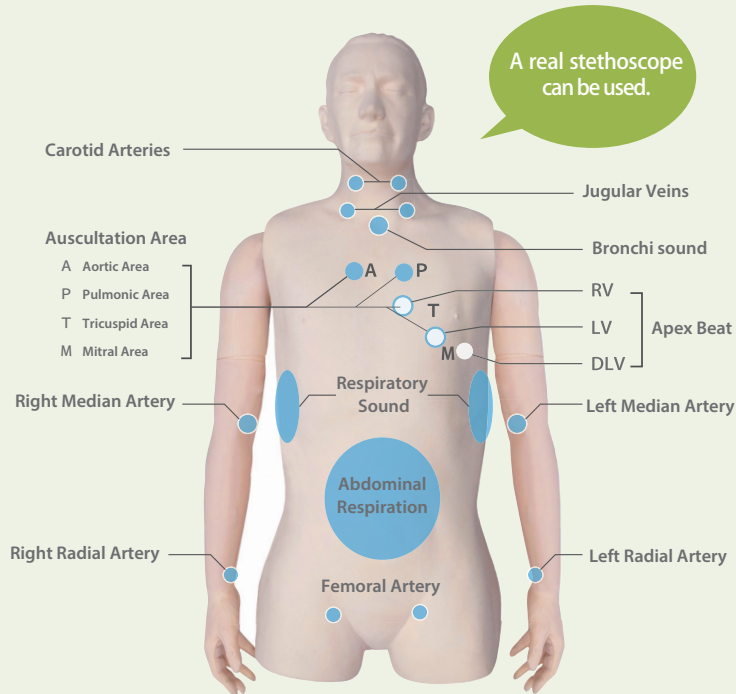
A		B		C		D	
A-01	normal sinus R	B-01	atrial flutter	C-01	VVI pacemaker	D-01	vpc (quadrigeminy)
A-02	sinus tachycardia	B-02	av block	C-02	atrial pacemaker	D-02	vpc (trigeminy)
A-03	sinus arrhythmia	B-03	av block & crbbb	C-03	vent pacemaker	D-03	vpc (bigeminy)
A-04	apc solitary	B-04	av block (digial)	C-04	av seq pacemaker	D-04	vpc (couplet)
A-05	apc bigeminy	B-05	av block (mobitz)	C-05	icrbbb	D-05	pvc (repetitive)
A-06	actopic pacemaker	B-06	av block (mobitz)	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	paroxy atr tachy	C-09	clbbb (by ami)	D-09	vent flutter
A-10	ss syndrome	B-10	av junc R(svst)	C-10	wpw syndrome	D-10	vent fibrillation
A-11	atrial fibrillation	B-11	av junc R (pat)	C-11	wpw syndrome	D-11	vent R (sinus cond)
A-12	atrial flutter	B-12	av junc R	C-12	wpw syndrome	D-12	accel vent rhythm
A-13	atrial flutter fib	B-13	ac junc contraction	C-13	vpc (solitary)	D-13	agonal rhythm

KEY FEATURES

Basic Skill Training

Physical findings of Simulator "K" ver.2

Comprehensive Clinical Examination Training



Heart Sounds and Murmurs

Auscultation synchronized with electrocardiograms and findings.

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

Pulse examination

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

Observation of Jugular Veins

The strength and timing of "α" and "V" waves vary with cases.

Palpation of Apex Beat

Simulated RV, LV and DLV 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 cycles are represented to understand respiratory conditions.

For Effective Training Sessions

Up to 5 Simulators at One Time

OSCE, group session and scenario based simulation



Up to five cardiology simulated cases can be controlled by one wireless tablet. Able to set different conditions in each simulator.

The system allows:

- scenario based training that involves more than one patient.
- skills assessment sessions with different cardiovascular stations.

Playlist System

Simulator "K" is not just for individual task training. Incorporated "Play List Maker" facilitates creation of scenario based training sessions whose conditions vary over time.

Playlist Maker facilitates:

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

DESCRIPTIONS

SPECIFICATIONS

Size: 145x75x170cm/57x30x70 inch
Weight: 145kg/ 320lbs
Power: AC100V-240V 50/60Hz
Power Consumption: 400W

MATERIALS

Soft resin, hard resin
Latex free

SET INCLUDES

1	main unit with the model body	1	control PC
1	external speaker (built-in the unit)	1	rib sheet
1	PC / keyboard / mouse (built-in the unit)	1	storage cover
1	air compressor unit (built-in the unit)	4	textbooks
1	main monitor	2	instruction manuals
			-built-in help file of software operation
			-instruction manual

* A stethoscope is not included.