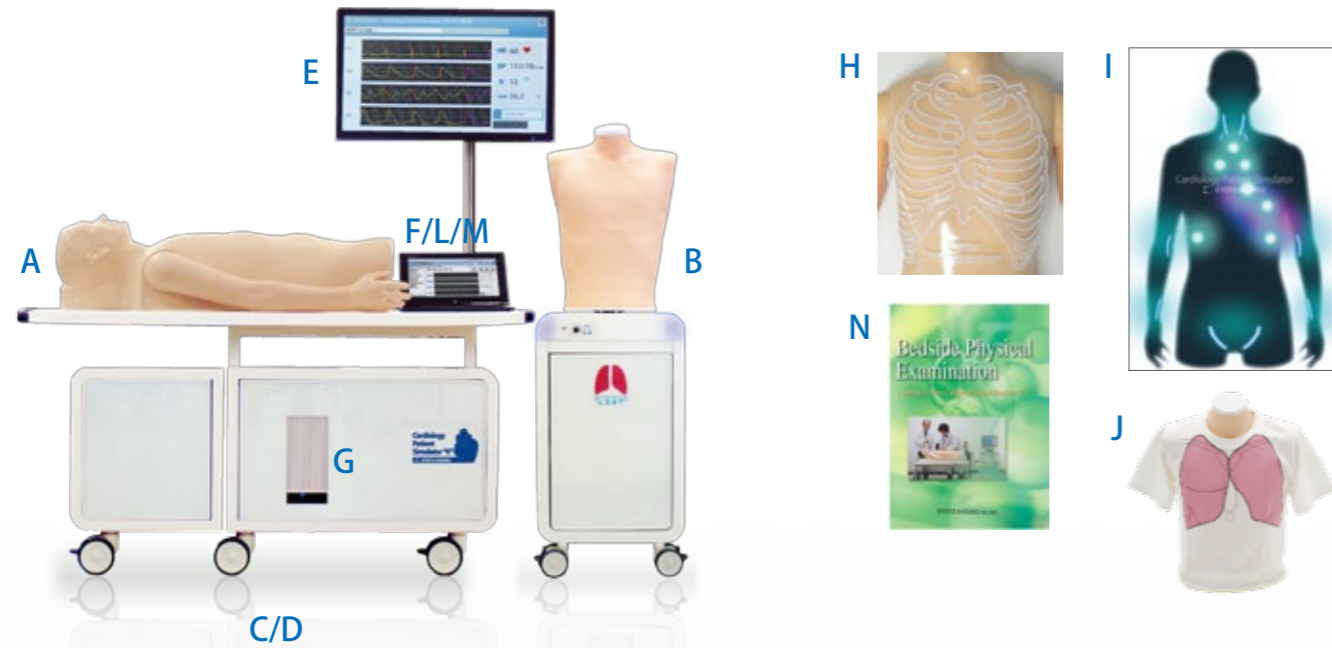


## Set Includes



- |                                                 |                                           |
|-------------------------------------------------|-------------------------------------------|
| <b>A</b> 1 cardiology torso model               | <b>I</b> 1 cover (for K ver.2)            |
| <b>B</b> 1 respiratory torso model              | <b>J</b> 1 lung T-shirt                   |
| <b>C</b> 1 controller-table                     | <b>K</b> 1 Instruction manual             |
| <b>D</b> 1 PC (built-in the unit)               | <b>L</b> 1 K ver.2 instruction manual     |
| <b>E</b> 1 monitor                              | -built-in help file of software operation |
| <b>F</b> 1 control PC                           | <b>M</b> 1 LSAT2 instruction manual       |
| <b>G</b> 1 external speaker (built-in the unit) | -built-in help file of software operation |
| <b>H</b> 1 rib sheet ( for K ver.2)             | <b>N</b> 4 text books                     |

## Specifications

Size: K ver.2 (W140xD75xH170cm)  
LSAT2 (W39xD45xH130cm)

\* Simulator "K" ver.2 and LSAT2 share their control system in K ver.2 plus. They cannot be independent and controlled separately.

# Patient Simulator "K ver.2 Plus" Training System

Product supervision ■ Cardiology Patient Simulator "K" ver.2 :  
Japanese Educational Clinical Cardiology Society

■ Lung Sound Auscultation Trainer "LSAT2" :  
Chiharu Yoshii, MD., Ph.D., Professor,  
Division of Respiratory Medicine, Wakamatsu Hospital,  
University of Occupational and Environmental Health, Japan



## Publication Referances

- |                               |                                                                                                                                                                                                                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Development</b>            | Tsunekazu Takashina, Masashi Shimizu, Hidenobu Katayama<br>"A New Cardiology Patient Simulator"<br>Cardiology 1997;88:408-413                                                                                                                                                                       |
| <b>Undergraduate medicine</b> | Hiroyuki Komatsu, Yasuji Arimura, Takuroh Imamura, Kazuo Kitamura, Akiko Okayama Katsuhiro Hayashi<br>"Training in physical examination using a cardiac patient simulator for medical students during bed side learning."<br>Medical education 42(2), 55-63, 2011-04-25                             |
| <b>Postgraduate medicine</b>  | Tsunekazu Takashina<br>"The Postgraduate Education of Basic Clinical Skills and Patient Management"<br>ACC-JCS Joint Symposium: Postgraduate Cardiology Education: A Comparison of the US and Japan,<br>The 68th Annual Scientific Meeting of the Japanese Circulation Society (2004)               |
| <b>Postgraduate medicine</b>  | Kanji Iga, Hiroyuki Tomatsu, Hiroyasu Ishimaru<br>"Effect of Repeated Training in Physical Examination with a New Cardiology Simulator for 1st-year Medical Residents Shortly after Receiving Medical Licenses"<br>Medical Education 2001; 32(2) : 107-111                                          |
| <b>Nurse Students</b>         | Tomoko Ito, Yoshihiro Asanuma, Shoko Inomata<br>"Evaluation of teaching cardiological examination skills to student nurses with the simulator -Using "Ichiro" , the new cardiology patient simulator"<br>The Journal of Japan Society for Health Care Management Vol. 4 (2003-2004) No. 3 P 406-411 |

2015/11/13

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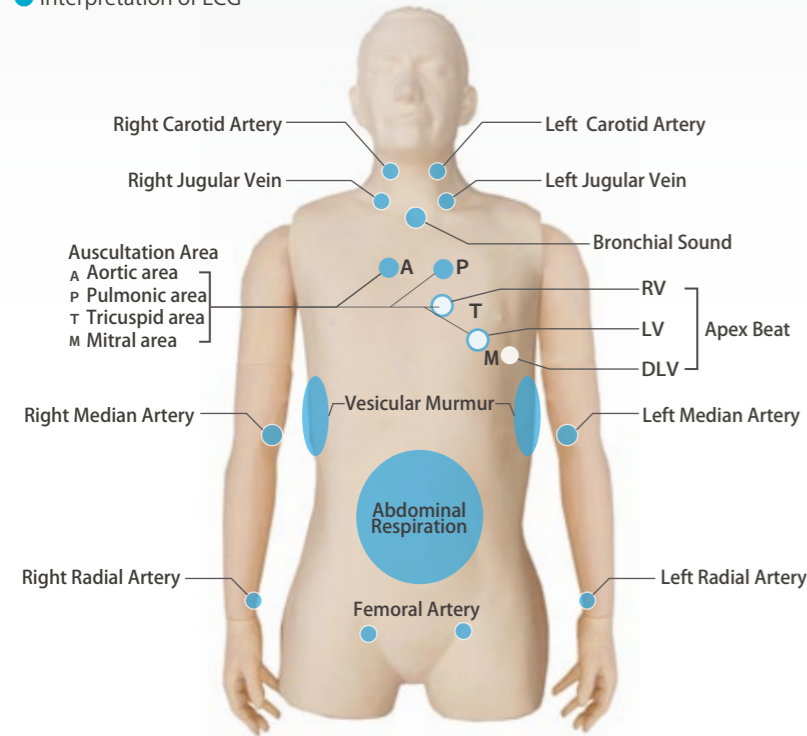
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 **KYOTO KAGAKU**

TRAINING SKILLS

- Perform bedside cardiovascular examination in organized sequence
- Assessment of jugular vein pulses at 8 sites
- Identify different components of normal heart sounds (S1, S2, S3, S4 and OS)
- Assessment of heart sounds and murmurs
- Observation and palpation of apex beat at 3 sites
- Interpretation of ECG



FEATURES

- True-to-life reproduction of heart and breathing sounds recorded from real patients.
- 36 cases of total patient simulation and 52 cases of arrhythmia/ ECG simulation.
- Auscultation sites corresponding to heart valves are located on a life-size body.
- Objective and standardized finding of simulator "K" provides an incomparable tool for OSCE.

Multiple Operation



Up to five Simulator "K" units can be controlled by one wireless control PC.

Playlist Maker



Choose up to 10 cardiac cases from 88 examples to make a playlist.

Error Indication System



Troubles and errors in speaker, pulses and apex beats are warned on screen. History of system conditions is automatically recorded for reference.



Observation



Palpation



Auscultation



Remote & Wireless Control



Touch screen



Error Indication System



Multiple Operation



Playlist Maker



Only one connection

Use your own stethoscope.

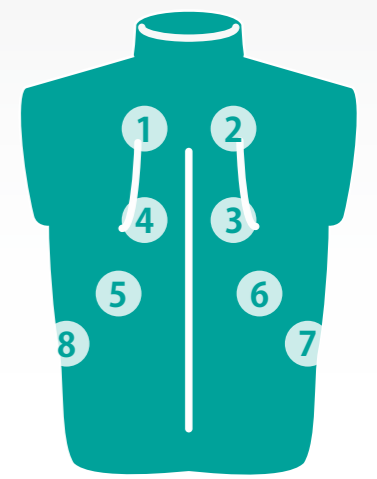


TRAINING SKILLS

- Perform bedside respiratory examination in organized sequence
- Lung sound auscultation
- 34 lung sound cases and one example of vocal fremitus are prepared.



1. trachea
2. upper right lung field
3. upper left lung field
4. middle left lung field



5. middle right lung field
6. lower right lung field
7. lower left lung field
8. left costphrenic angle

FEATURES

- Outstanding sound quality: Cases are recorded from actual patients.
- 35 lung sound cases: posterior and anterior.
- Respiration sounds can be monitored graphically.
- Natural propagation of the sounds.
- Monitoring and self-learning.
- The torso rotates on a base.

Auscultation at Both Sides



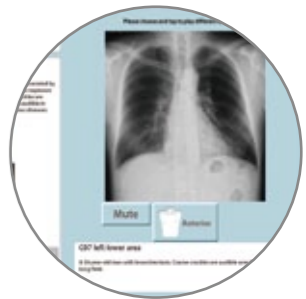
It is possible to play both posterior and anterior sound simultaneously.

Synchronizing LED Light

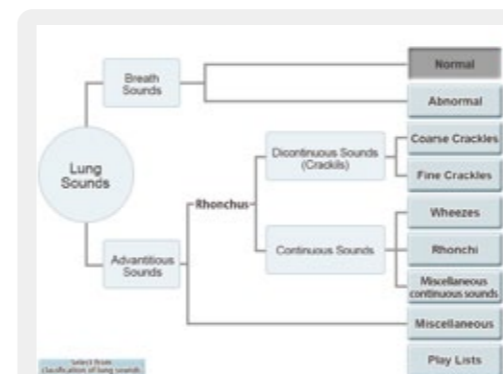


LED lights during inhalation and facilitates understanding of relationship between the sound and timing of breathing.

Case Description



Images of plain X-ray, CT and bronchoscopy may be available in each case. Lung sound of each area can be played by tapping the plain X-ray image.



Classification of lung sound

The classification of lung sounds is based on the criteria of the American Thoracic Society.