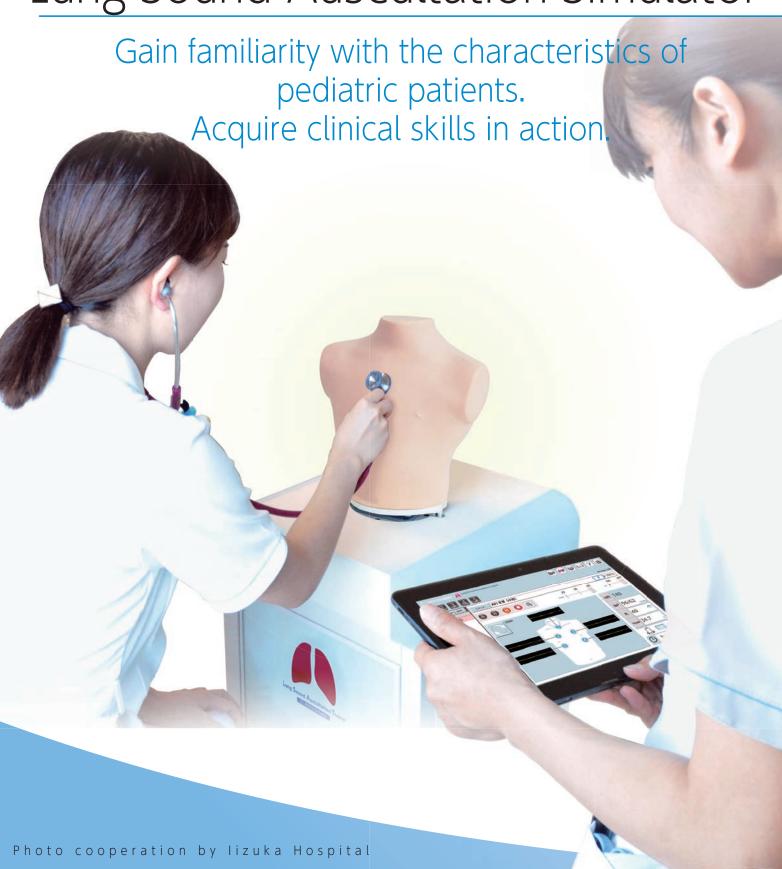


MW57

Pediatric Lung Sound Auscultation Simulator



Let's Become Familiar with Pediatric Lung Sound Characteristics



Respiratory Rate

Respiratory rate is adjustable between 15 and 50 breaths per minute, accurately depicting pediatric patients from neonates to school

Heart Rate

Heart rates are automatically set in accordance with the respiratory rates.

ex. respiratory 20 breaths/min:
heart rate 90 beats/min
respiratory 40 breaths/min:
heart rate 90 beats/min
Heart sounds can be turned off
when necessary.

Propagation of Sounds

Propagation of sounds on the chest are a crucial characteristic of pediatric patients. For example, sounds of upper lung field are more easily transmitted to the lower lung field than in the case of adult patients.



The torso is designed to represent a patient of 1-5 years old.

Not having a particular face allows imaging a variety of pediatric patients in different training scenarios



The photo is of the prototype.







X-ray and CT images work as visual aids to facilitate learning.



By tapping on the X-ray image, lung sounds of each respective site will be played through the external speake for group sessions.



Hands-on using real stethoscope





Soft skin of the torso simulates realistic sensation of touch.

The simulator works with real stethoscopes of trainees' own, allowing for hands-on training in a close-to-life clinical setting.

Realistic tactile feeling when placing the stethoscope on the torso is another key feature.

Training Example

Pre-Training

- 1. Lung sounds classification
- 2. Explanation of how to use the simulator



Hands-on Session

- 1. Auscultation of normal sounds
- 2. Differences between left and right
- 3. Adventitious sounds



Opportunities for Effective Training

One touch setting

Features for clinical reality

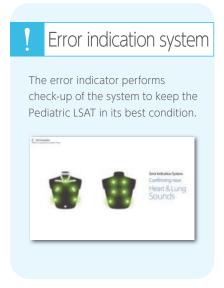
- O Heart sounds as background (Can be turned off when necessary)
- O Adjustable respiration rate (20·30·40/min)

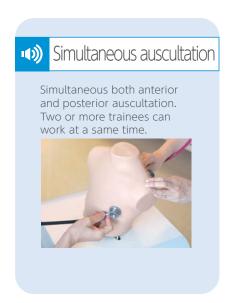
Features for group sessions

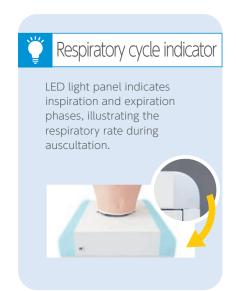
- O Anterior and posterior chest can be listened to simultaneously.
- O Multiple units operation with one tablet
- O The external speaker to share the sounds





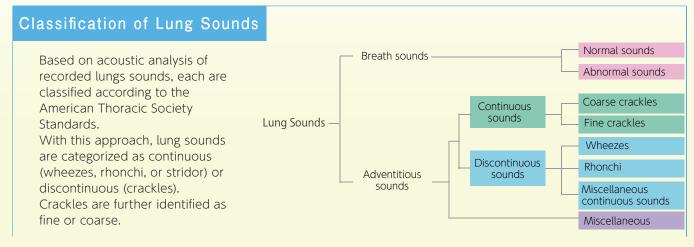








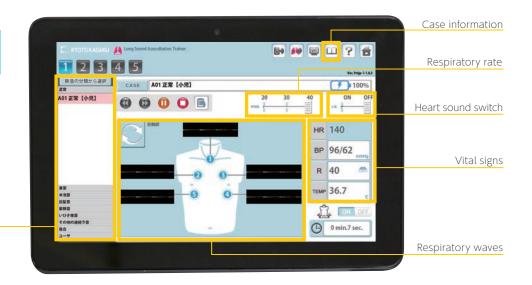
20 Pediatric Lung Sounds Examples Based on Lung Sounds Classification



Basic Operation Window

Simple designed display provides immediate understanding of respiratory waves, HR, BP, respiratory rate, and body temperature.

Case list



Auscultation Sites



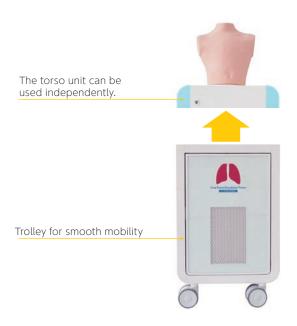
Anterior Five Sites

- 1. trachea
- upper right lung field
 upper left lung field
 lower left lung field
- 5. lower right lung field



Posterior Six Sites

- upper left lung field
 upper right lung field
 middle right lung field
 middle left lung field
 lower left lung field
 lower right lung field
 lower right lung field



20 cases recorded from real patients

20 cases recorded norm reac particines			
normal	abnormal	coarse crackles	fine crackles
normal	weak: left lower area weak: left whole area weak: right lower area weak: right whole area	right lower area both lower area left lower area both upper area whole area right upper area	both lower area whole area
wheezes	rhonchi	combined cases	miscellaneous continuous sounds
trachea and upper area whole area	trachea and upper area whole area	coarse crackles and rhonchi fine crackles and wheezes Examples of common	stridors
	7011	multiple adventitious sounds are included.	

Pediatric Lung Sound Auscultation Trainer

MW57

pediatric LSAT unit (external speaker incl.)	1
control PC	1
accessories	1
pediatric LSAT T-shirt	1
instruction manual	

size	W39×D39×H98cm
weight	35kg
power supply	AC100V-240V 50/60Hz
power consumption	180W





Worldwide Inquires and Ordering Head Office and Factories

15 Kitanekoya-cho, Fushimi-ku, Kyoto, 612-8388, Japan

() +81-75-605-2510

+81-75-605-2519

Kyoto Kagaku Co., Ltd. **Hong Kong Representative Office**

Level 60, One Island East, 18 Westlands Road, Island East, Hong Kong

Kyoto Kagaku Co., Ltd. **European Representative Office**

De-Saint-Exupery-Str.10, 60549 Frankfurt, Germany

() +49-69-5060-28160 **(** +49-69-5060-28170



All American regions KYOTOKAGAKU AMERICA INC.

http://www.kkamerica-inc.com/

info@kkamerica-inc.com
 info@kkamerica-inc.com

3109 Lomita Boulevard. Torrance, CA 90505-5108, USA

() +1-310-325-8860

+1-310-325-8867