Lung Sound Auscultation Trainer "LSAT" ver.2

Used by 96% of medical faculties in Japan, LSAT is now renewed and improved!
This unique and upgraded trainer can offer more efficient and effective respiratory auscultation training.
The physical status adjustable by touching control PC

Background heart sounds are available in 5 volume levels.

<table>
<thead>
<tr>
<th>Normal</th>
<th>Miscellaneous continuous sounds</th>
<th>Abnormal</th>
<th>Fine crackles</th>
<th>Rhonchi</th>
<th>Miscellaneous</th>
</tr>
</thead>
<tbody>
<tr>
<td>A01 standard</td>
<td>G01 stridors</td>
<td>B01 weak: left lower area</td>
<td>D01 both lower area</td>
<td>F01 trachea and upper area 150-250Hz</td>
<td></td>
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<tr>
<td>A03 mildly strong sounds</td>
<td>G03 squawks</td>
<td>B02 weak: left whole area (adhesion)</td>
<td>D03 both middle lower area</td>
<td>F03 trachea and upper area 150-450Hz (polyphonic)</td>
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<tr>
<td>A05 mildly rapid</td>
<td></td>
<td>B03 weak: left whole area(pneumothorax)</td>
<td>D05 whole area (IPF)</td>
<td>F05 trachea and upper area 80-120Hz</td>
<td></td>
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<tr>
<td>A07 loud heart sounds</td>
<td></td>
<td>B04 absent: right middle and lower areas</td>
<td>D07 whole area (NSIP)</td>
<td>F07 whole area 80-200Hz</td>
<td></td>
</tr>
</tbody>
</table>

Coarse crackles
- C01 right lower area
- C03 both lower area
- C05 right upper and middle area
- C07 left lower area
- C09 both upper area
- C11 whole area

Wheezees
- E01 upper area 600-700Hz
- E03 upper area 350-450Hz
- E05 upper area 200-1000Hz

* A stethoscope is not included.
Physical Examination

**KEY FEATURES**

### Basic Features

**Anterior**
- 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

**Posterior**
- 0. upper left lung field
- 1. upper right lung field
- 2. middle right lung field
- 3. middle left lung field
- 4. lower left lung field
- 5. lower right lung field
- 6. right costophrenic angle
- 7. left costophrenic angle

**NEW Features**

- **Wireless multi-unit operation**
  - Up to five “LSAT” can be controlled by one wireless control PC.
  - Each simulator can be individually programmed
  - Cases can be switched at any time with a simple touch

- **Simultaneous anterior and posterior auscultation**
  - Two or more trainees can work together at the same time

- **LED light panel to indicate inspiration and expiration**
  - Attention to respiration rate while auscultating during examination

- **Create a custom playlist**
  - With 36 different cases.
  - Playlist mode enables optimization of training sessions.

- **Error Indication System**
  - The error indicator performs check-up of the system to keep LSAT in its best condition.

**CASE INFORMATION**
Images of plain X-ray, CT and bronchoscopy are included.

Lung sound of each area can be played by tapping the plain X-ray image.

**Classification of Lung Sounds**
Based on acoustic analysis of recorded lungs sounds, each are classified according the American Thoracic Society standards. With this approach, lung sounds are categorized as continuous (wheeze, rhonchi, or stridor) or discontinuous (crackles). Crackles are further identified as fine or coarse.

**SPECIFICATIONS**
- Size: 39x45x130cm / 15.3x17.7x51.2 inch
- Power: AC100V-240V  50/60Hz
- Power Consumption: 180W

**MATERIALS**
- Soft resin
- Latex free

**SET INCLUDES**
- 1 LSAT2 main unit
- 1 control PC
- 1 LSAT T-shirt
- 1 instruction manual