Physiko is a physical assessment training simulator for Medical and Nursing students. Twelve pre-set example of out-patients are designed to cover typical complaints, facilitating training in assessment procedures, assessment skills and providing hands-on experience of important abnormal findings. New patients for your original scenario can be created by simply choosing from built-in data.

Comprehensive examination of 12 typical patients
- Patients with abdominal pain: 2 cases
- Patients with chest pain: 4 cases
- Patients with shortness of breath: 5 cases
- Unconscious patient: 1 case

Physical function assessment training on life-size model
- Health interview and communication
- Pupillary reflex
- BP measurement
- Heart sounds: 17 cases
- Bowel sounds: 5 cases
- Lung sounds: 8 cases
- Electrocardiographic simulation: 10 cases

Easily-handled
Easy to setup, handle and clean up
Physiko’s twelve pre-set patients cover typical outpatients’ complaints such as chest pain or shortness of breath.

**Top menu**

- **Physical Assessment Simulator “Physiko”**
- **Patient cases**

**Choose a patient**

**Twelve pre-set patients**

<table>
<thead>
<tr>
<th>Case</th>
<th>Age, Sex</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chest Pain</td>
<td>58 yrs Male</td>
<td>Myocardial Infarction</td>
</tr>
<tr>
<td></td>
<td>55 yrs Male</td>
<td>Dissecting Aortic Aneurysm</td>
</tr>
<tr>
<td></td>
<td>76 yrs Female</td>
<td>Lung Infarction</td>
</tr>
<tr>
<td></td>
<td>28 yrs Male</td>
<td>Intercostal Muscle Ache</td>
</tr>
<tr>
<td>Abdominal Pain</td>
<td>26 yrs Female</td>
<td>Ileus</td>
</tr>
<tr>
<td></td>
<td>19 yrs Male</td>
<td>Diarrhea</td>
</tr>
<tr>
<td>Lie Unconscious</td>
<td>36 yrs Female</td>
<td>Brain Hypertension</td>
</tr>
<tr>
<td>Shortness of breath</td>
<td>84 yrs Female</td>
<td>Pneumonia</td>
</tr>
<tr>
<td></td>
<td>66 yrs Male</td>
<td>Chronic Obstructive Lung Disease</td>
</tr>
<tr>
<td></td>
<td>70 yrs Male</td>
<td>Pulmonary Fibrosis</td>
</tr>
<tr>
<td></td>
<td>73 yrs Male</td>
<td>Heart Failure</td>
</tr>
<tr>
<td></td>
<td>23 yrs Female</td>
<td>Anemia</td>
</tr>
</tbody>
</table>

**Start a session**

Interview and history taking

**The case of a 58 yr old male patient**

**Case:** Chest Pain

**Condition:** Myocardial Infarction

- **Pupil reflex:** Normal
- **Blood Pressure:** Normal
- **Heart sounds & Arterial pulses:** Normal
- **Lung sound:** Normal
- **Bowel sound:** Normal
- **ECG:** Ischemic change
- **Others:** Fast pulse
- **Note:** Low pulse pressure

On early winter morning on the way to his work, a 58 year old man folded up suddenly agonizing with his hands on chest.

When the patient complains "Chest pain", you should think of these possible high-risk cases: Myocardial Infarction, Dissecting Aortic Aneurysm and Lung Infarction (Pulmonary Embolism). Sudden effort or exposure to cold air tend to induce Myocardial Infarctions. It is important to check the risk factors such as age, history of hypertension, and environmental factors. Do not forget that 30-50% of patients with MI’s don’t complain of chest pain.
Skills Training

**Pupillary reflex**

The light reflex can be observed by illuminating the manikin pupil.

**Heart sounds & Arterial pulses**

Arterial pulsation at four areas (R/L Carotid and Radial) and heart sound at four areas (Aortic, Pulmonic, Tricuspid and Mitral).

**Blood Pressure**

Blood pressure can be measured while listening to Korotkoff sound and taking radial pulses.

**Lung sounds**

Auscultation on both front and back with your own stethoscope.

**ECG**

ECG leads placement on the manikin is shown on the screen. Appropriate electrocardiographic wave patterns are observed when the electrode replacement is correct.

**Bowel sound**

The bronchial breath sounds

Heart sounds (A, P, T, and M)
Physiko allows you to create a new simulated patient by selecting findings from the built-in data.

### System Configuration Diagram

- **Manikin**
- **Sphygmomanometer**
- **ECG electrodes**
- **Laptop PC**
- **Mouse**
- **AC power supply (optional)**
- **Terminal box**
- **ECG sensors**
- **Pulse generators**
- **Blood pressure sensor**
- **Pupils light sensors**
- **Speakers (Heart sounds, Lung sounds)**
- **ECG sensors**

### Specifications

- **Assessment Item**
  - **Condition**
    - **Pupillary reflex**
      - Normal
      - Pupillary dilation
      - Pupillary constriction
      - Bilateral asymmetry
    - **Blood pressure**
      - Can be set to any desired range
      - Normal lung sounds
      - Coarse crackles
      - Weak in the left lung
      - Fine crackles
      - Absent in the right lung
      - Wheezes
      - Bronchial breathing
      - Rhonchi
    - **Auscultation of breath sounds**
      - S3 split absent
      - Aortic stenosis
      - Ventricular fibrillation
      - S3 split present
      - Mitral regurgitation
      - Atrial flutter
      - S4 gallop
      - Aortic regurgitation
      - Premature ventricular contraction (single)
      - S1 and S4 gallop
      - Sinus tachycardia
      - Ventricular fibrillation
      - Inconvenient murmur
      - Sinus bradyarrhythmia
      - Cardiac sound regulation
    - **Auscultation of bowel sounds**
      - Normal
      - Increase
      - Decrease
      - Sibullous
      - Anus
    - **ECG simulation**
      - Normal
      - Ventricular flutter
      - Atrial fibrillation
      - Ventricular fibrillation
      - Atrial flutter
      - Myocardial infarction (acute stage)
      - Myocardial infarction (subacute stage)
      - Myocardial infarction (chronic stage)

### Set includes:

- 1 Manikin (62" x 52 lb)
- 1 Laptop PC
- 1 Terminal Box
- 1 Sphygmomanometer unit
- 1 ECG Electrodes unit
- 1 Clothes

### Package size & weight:

- **Main Package**: 70" x 22" x 14", 66 lb
- **Accessory Package**: 20” x 18” x 12”, 27.5 lb

*Tables and ECG monitor are not included.*

*Specifications are subject to change.*

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