

Physical Assessment Simulator "Physiko"

for all students of Medical and Nursing programs

Product No. M55

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.



Physical Assessment
Mode 1
Patient cases

Physical Assessment
Mode 2
Patient cases editor

Physical Examination
Skills Training
Individual examination
skills training

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



Physical Assessment Mode

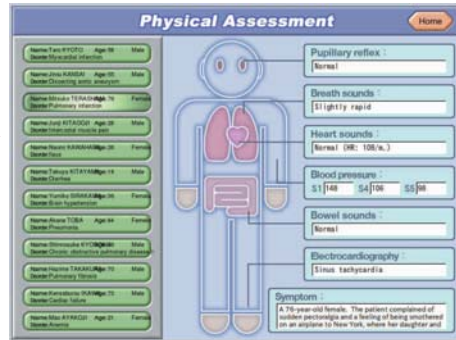
Patient cases

Top menu



Physiko's twelve pre-set patients cover typical outpatients' complaints such as chest pain or shortness of breath.

Choose a patient



Twelve pre-set patients

Case	Age, Sex	Condition
Chest Pain	58 yrs Male	Myocardial Infarction
	55 yrs Male	Dissecting Aortic Aneurysm
	76 yrs Female	Lung Infarction
	28 yrs Male	Intercostal Muscle Ache
Abdominal Pain	26 yrs Female	Ileus
	19 yrs Male	Diarrhea
Lie Unconscious	36 yrs Female	Brain Hypertension
Shortness of breath	84 yrs Female	Pneumonia
	66 yrs Male	Chronic Obstructive Lung Disease
	70 yrs Male	Pulmonic Fibrosis
	73 yrs Male	Heart Failure
	21 yrs Female	Anemia



Interview and history taking

Start a session



Production (Scenario) Supervision:

- 2010 Toyoaki Yamauchi, M.D., Ph.D. Professor Nagoya University, faculty of medicine, basic nursing course
- 1985 MD at University of Niigata, Faculty of medicine, medical science course
- 1991 PhD of medical science at University of Niigata, 8 years experience in Japanese hospitals (internal medicine and neurology)
A post at University of California, San Diego, faculty of Medicine
- 1996 BSN-RN at Pace University, N.Y.
- 1997 FNP at Pace University, N.Y.
- 1998 Master's Degree at Case Western Reserve University, and Associate professor at Oita University of Nursing and Health Sciences.
- 1999 Qualified as Nurse and Public Health Nurse of Japan
- 2002 Professor at University of Nagoya, faculty of medicine, basic nursing course

The case of a 58 yr old male patient

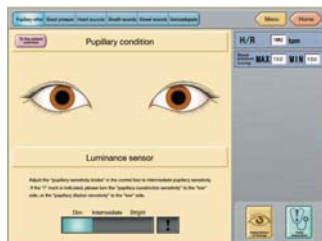
Case: Chest Pain



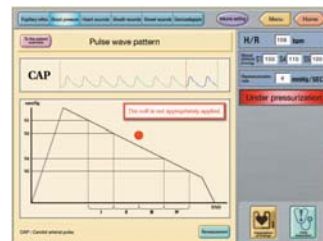
On early winter morning on the way to his work, a 58 year old man folded up suddenly agonizing with his hands on chest.

When the patient complains "Chest pain", you should think of three possible high-risk cases: Myocardial Infarction, Dissecting Aortic Aneurysm and Lung Infarction (Pulmonary Embolus). 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.

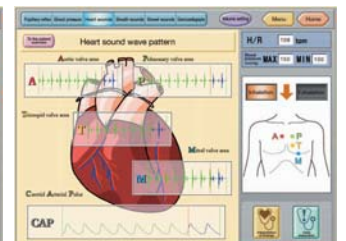
Condition: Myocardial Infarction



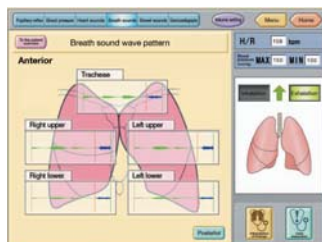
Pupil reflex: Normal



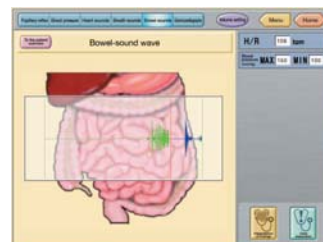
Blood Pressure: Normal



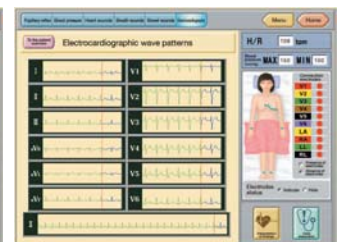
Heart sounds & Arterial pulses: Normal



Lung sound: Normal



Bowel sound: Normal

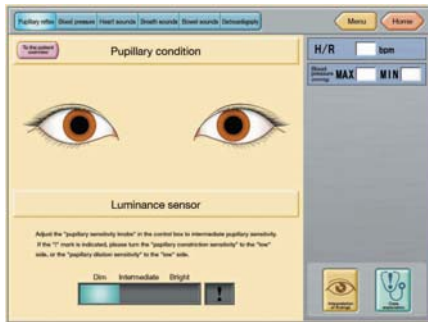


ECG: Ischemic change

Others: Fast pulse Note: Low pulse pressure

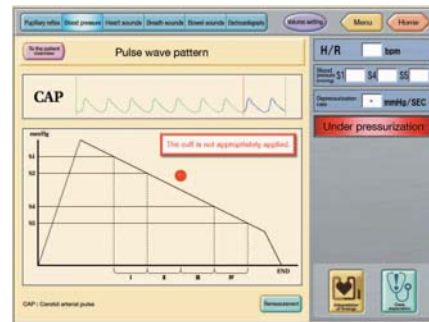
Skills Training

Pupillary reflex



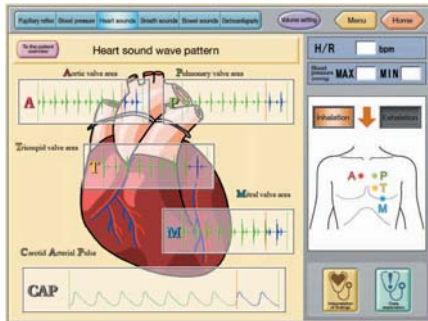
The light reflex can be observed by illuminating the manikin pupil.

Blood Pressure



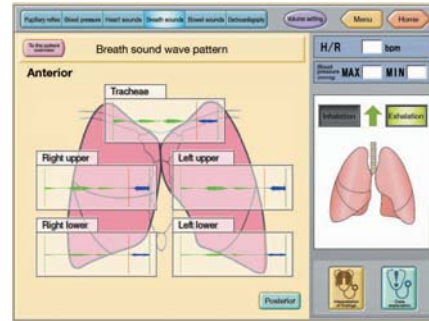
Blood pressure can be measured while listening to Korotkoff sound and taking radial pulses.

Heart sounds & Arterial pulses



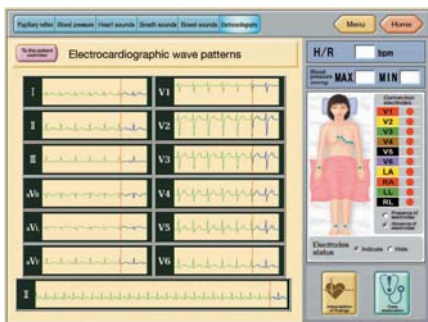
Arterial pulsation at four areas (R/L Carotid and Radial) and heart sound at four areas (Aortic, Pulmonic, Tricuspid and Mitral).

Lung sounds



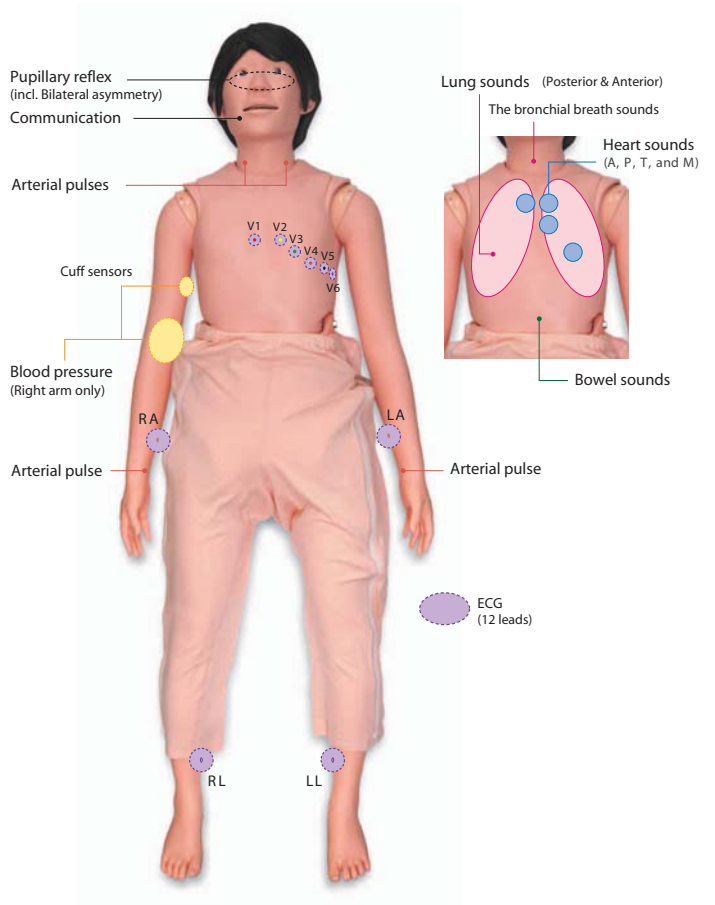
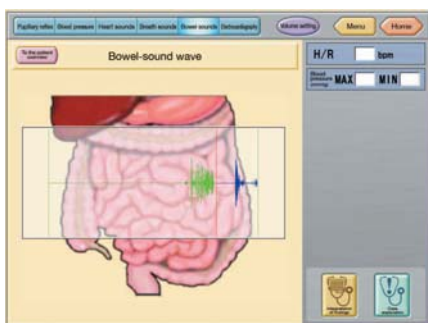
Auscultation on both front and back with your own stethoscope.

ECG



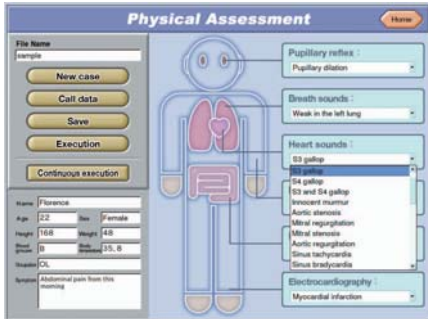
ECG leads placement on the manikin is shown on the screen. Appropriate electrocardiographic wave patterns are observed when the electrode replacement is correct.

Bowel sound



Physical Assessment Mode 2

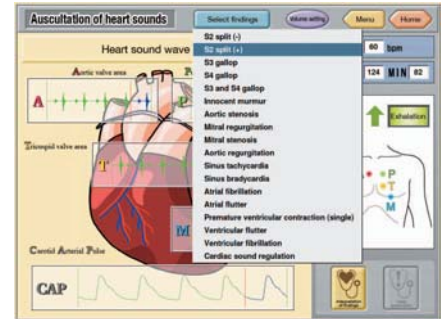
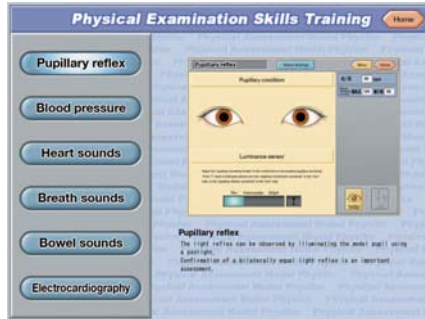
Patient cases editor



Physiko allows you to create a new simulated patient by selecting findings from the built-in data.

Physical Examination Skills Training

Individual assessment and skills training



Physiko allows individual assessment and skills training.

Assessment Item	Condition		
Pupillary reflex	Normal		
	Pupillary dilation		
	Pupillary constriction		
	Bilateral asymmetry		
Blood pressure	Can be set to any desired range		
Auscultation of breath sounds	Normal lung sounds	Coarse crackles	
	Weak in the left lung	Fine crackles	
	Absent in the right lung	Wheezes	
	Bronchial breathing	Rhonchi	
Auscultation of heart sounds	S2 split absent	Aortic stenosis	Atrial fibrillation
	S2 split present	Mitral regurgitation	Atrial flutter
	S3 gallop	Mitral stenosis	Premature ventricular contraction (single)
	S4 gallop	Aortic regurgitation	Ventricular flutter
	S3 and S4 gallop	Sinus tachycardia	Ventricular fibrillation
	Innocent murmur	Sinus bradycardia	Cardiac sound regulation
Auscultation of bowel sounds	Normal		
	Increase		
	Decrease		
	Subileus		
	Ileus		
	ECG simulation	Normal	Ventricular flutter
Atrial fibrillation		Ventricular fibrillation	
Atrial flutter		Myocardial infarction (acute stage)	
Premature ventricular contraction		Myocardial infarction (subacute stage)	
Ventricular tachycardia		Myocardial infarction (chronic stage)	



Tables and ECG monitor are not included.

Set includes:

- 1 Manikin (62", 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

Specifications are subject to change.

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System Configuration Diagram

