

Manual

PAC

Physiological Auscultation Trainer

REF.NO.: PAC





With the help of the Auscultation Trainer, lung and heart sounds can be simulated.

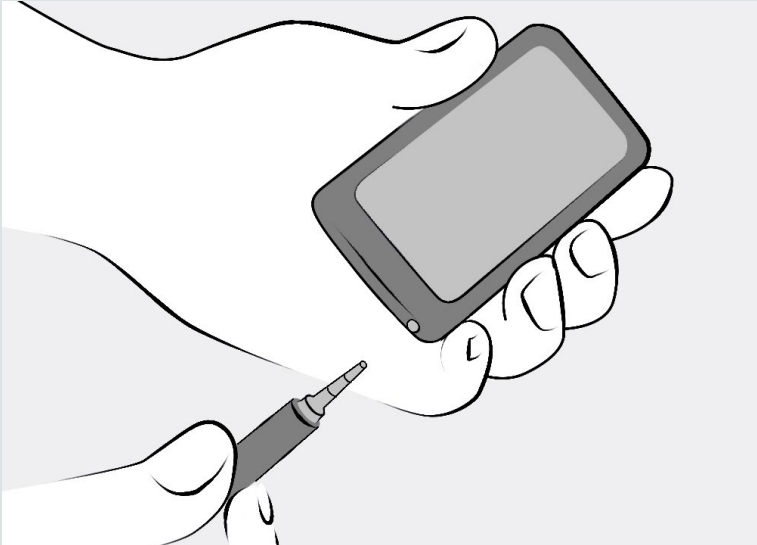
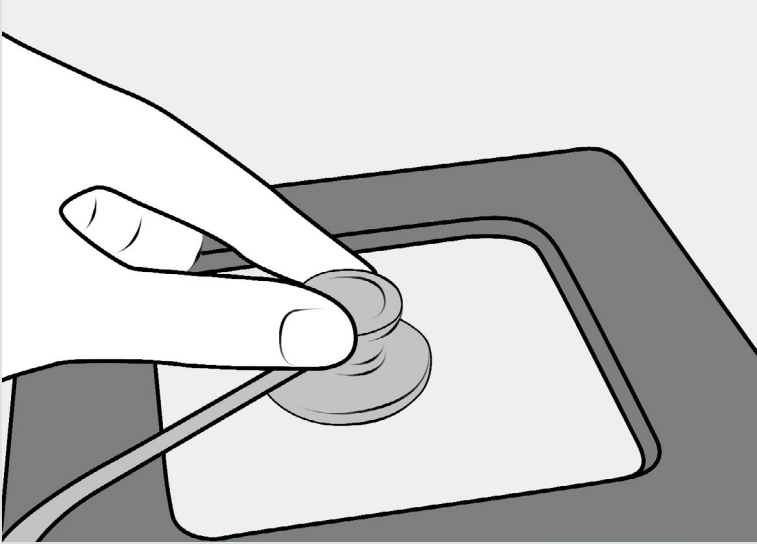
To this day, auscultation of the lungs and heart remains an essential part of any general medical examination. Abnormal findings during auscultation often serve as the first indication for further diagnostic procedures. Learning auscultation is still one of the most challenging techniques that aspiring medical professionals must master.

The Auscultation Trainer is a user-friendly and highly realistic device designed to facilitate the learning of auscultation using a stethoscope, just as one would on a real patient. It also serves as a demonstration tool for the capabilities of electronic polygraphs with sound sensors.

The device generates both heart and breath sounds and allows for their identification. An MP3 player with preloaded natural demo recordings is connected to the system. The package includes 30 different sounds, but the system is open, allowing users to upload their own sounds at any time. This flexibility enables instructors to supplement the included recordings with additional sounds from sound libraries. For example, particularly interesting patient sounds can be recorded using an electronic stethoscope and made available to all students via the auscultation trainer. Additionally, a PC can be connected instead of the MP3 player, making it possible to use a variety of learning programs.

The different sound phenomena can be selected on the MP3 player and transmitted to the Auscultation Trainer via a speaker.

Thanks to a gel pad made of a special elastic polymer, the contact surface for the stethoscope has tissue-equivalent properties. Light pressure on the stethoscope is sufficient to detect low-frequency sounds, while increased pressure allows for auscultation of high-frequency tones.

Package Contents	
	<ul style="list-style-type: none">• PAC_Physiological Auscultation Trainer• MP3-Player• Lung and Heart Sounds (MP3 Demo Files)
Start-up	
Connection	
Place the stethoscope	
Technical Specifications	
Input Impedance: Connector: Weight: Dimensions:	8 Ohms 3.5mm Stereo Plug 1830 g (HxWxD) 100x188x188 (mm)



Electrical and electronic devices must not be disposed of with household waste. The disposal of the device and its accessories at the end of its service life must be carried out in accordance with the applicable electronic waste regulations. If in doubt, please contact the manufacturer.

Lung Sounds

1. bronchial breathing - lung
2. bronchovesicular - lung
3. coarse crackles 1- lung
4. fine crackles 1 - lung
5. fine crackles 2 - lung
6. crackles - late Inspiratory - lung
7. diminished vesicular - lung
8. ronki 1 - lung
9. ronki 2 - lung
10. stridor - lung
11. inspiratory stridor 1 - lung
12. inspiratory stridor 2 - lung
13. vesicular - lung
14. wheezing expiratory 1 - lung
15. wheezing expiratory 2 - lung
16. wheezing expiratory 3 - lung
17. wheezing monophon - lung
18. wheezing polyphon - lung
19. deep respiration - lung
20. coughing 1 - lung
21. coughing 2 - lung

Lungengeräusch

Bronchialatmen
Bronchiovesikulär
Coarse Crackles 1 (Rasselgeräusche)
Feine Rasselgeräusche 1
Feine Rasselgeräusche 2
Crackles spät inspiratorisch
Abnehmend Vesikulär
Rhonchus 1
Rhonchus 2
Stridor
Inspiratorischer Stridor 1
Inspiratorischer Stridor 2
Vesikuläratmen
Wheezing expiratorisch 1
Wheezing expiratorisch 2
Wheezing expiratorisch 3
Wheezing monophon
Wheezing polyphon
Tiefe Atmung
Husten 1
Husten 2

Heart Sounds

22. aortic stenosis - heart
23. mitral insufficiency - heart
24. pulmonary valve stenosis - heart

Herzgeräusche

Aortenstenose
Mitralklappeninsuffizienz
Pulmonal Klappen Stenose

Bowel Sounds

25. loud, gurgling rushed sounds - bowel
26. peristaltic snarling - bowel
27. peristaltic gurgling - bowel
28. low growl - bowel
29. gurgling - bowel
30. loud howl - bowel

Darmgeräusche

Leise, gurgelnde Geräusche
Peristaltisches Knurren
Peristaltisches Glucksen
Tiefes Knurren
Gluckern
Lautes Heulen