Survey: Sounds of auscultation

Survey for doctors and medical students for the research about the auscultation of the respiratory system.

Please enter your e-mail. The field is not mandatory.

* What is your specialization?
  - pediatrics
  - currently training to specialize in pediatrics
  - neonatology
  - currently training to specialize in neonatology
  - pulmonology
  - currently training to specialize in pulmonology
  - internal medicine
  - currently training to specialize in internal medicine
  - family medicine
  - currently training to specialize in family medicine
  - cardiac surgery
  - currently training to specialize in cardiac surgery
  - anesthesiology and intensive care
  - currently training to specialize in anesthesiology and intensive care
  - medical student (enter your year in the "other" box)
  - other

* The year of graduation (if you are a student please enter your planned year of graduation).

* University you graduated from (if you are a student, enter the name of the University where you are currently studying).

On a scale from 0 to 5 (where 0 = “very poorly” and 5 = “very well”), how do you evaluate your skills in respiratory system auscultation?

<table>
<thead>
<tr>
<th></th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>a child</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>an adult</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
</tbody>
</table>

Please indicate how much you agree with the following statements.

Sounds of auscultation
* The number of hours during the studies dedicated to the auscultation of the respiratory system is INADEQUATE

<table>
<thead>
<tr>
<th></th>
<th>strongly disagree</th>
<th>do not agree</th>
<th>partially agree</th>
<th>agree</th>
<th>strongly agree</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

* The number of hours dedicated to training in auscultation of the respiratory system during internship and specialization is INADEQUATE

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* Additional training in auscultation of respiratory system for doctors in my specialization are needed

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* The names associated with the auscultatory sounds of the respiratory system are inconsistent and need to be organised

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<td>○</td>
</tr>
</tbody>
</table>

How often do you practice auscultation.

<table>
<thead>
<tr>
<th></th>
<th>everyday</th>
<th>few times per week</th>
<th>at least once per week</th>
<th>at least once per month</th>
<th>fewer than once per month</th>
<th>I don't do auscultation</th>
</tr>
</thead>
<tbody>
<tr>
<td>a child</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>an adult</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
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* Do you have a musical background?

  - no
  - music school
  - choir
  - other

Do you use an electronic stethoscope in your work?

  - yes
  - no

* During lungs auscultation, do you use:

  - the diaphragm of stethoscope
  - the bell of stethoscope
  - other (what kind?)

Looking at the illustration below, please select the points where you usually auscultate a patient.
The research on auscultation of the respiratory system - practical part

In this part auscultation recordings of 24 patients will be presented. Please use headphones to listen to the recordings.

For each patient the information includes age, height and weight of the patient.

The illustrations show where the stethoscope was placed and the sound recorded. Below are the recordings for you to listen to. Adjust the volume as needed. The recordings can be played repeatedly.

Please identify the respiratory sounds you can hear in each recording (multiple choice from two columns).

* Patient 1

Age: 11 years old
Height: 147 cm
Weight: 32 kg
*Patient 2*

**Age:** 3 years old  
**Height:** 96 cm  
**Weight:** 12 kg
* Patient 3
Age: 6 years old
Height: 118 cm
Weight: 30 kg

Sounds of auscultation:
- vesicular breath sound
- louder breath sound
- abnormal bronchial sound
- medium crackles
- crepitus
- expiratory wheezes
- prolonged expiratory phase
- pleural rub
- comments

- diminished breath sound
- normal bronchial sound
- fine crackles
- coarse crackles
- inspiratory wheezes
- stridor
- squawk
- rhonchi
* Patient 4
Age: 7 years old
Height: 115 cm
Weight: 21 kg

Sounds of auscultation

- vesicular breath sound
- louder breath sound
- abnormal bronchial sound
- medium crackles
- crepitus
- expiratory wheezes
- prolonged expiratory phase
- pleural rub
- comments

- diminished breath sound
- normal bronchial sound
- fine crackles
- coarse crackles
- inspiratory wheezes
- stridor
- squawk
- rhonchi
Patient 5
Age: 18 years old
Height: 168 cm
Weight: 50 kg

Sounds of auscultation:
- vesicular breath sound
- louder breath sound
- abnormal bronchial sound
- medium crackles
- crepitus
- expiratory wheezes
- prolonged expiratory phase
- pleural rub
- comments

* vesicular breath sound
* louder breath sound
* abnormal bronchial sound
* medium crackles
* crepitus
* expiratory wheezes
* prolonged expiratory phase
* pleural rub
* comments
* Patient 6
Age: 5 months old
Height: 78 cm
Weight: 7 kg

Sounds of auscultation
Patient 7

Age: 2 years old
Height: 81 cm
Weight: 10 kg

**Sounds of auscultation**

- vesicular breath sound
- louder breath sound
- abnormal bronchial sound
- normal bronchial sound
- fine crackles
- coarse crackles
- inspiratory wheezes
- expiratory wheezes
- stridor
- prolonged expiratory phase
- squawk
Patient 8

Age: 18 years old
Height: 179 cm
Weight: 60 kg

Sounds of auscultation:
- pleural rub
- rhonchi
- comments
- vesicular breath sound
- louder breath sound
- abnormal bronchial sound
- medium crackles
- crepitus
- expiratory wheezes
- diminished breath sound
- normal bronchial sound
- fine crackles
- coarse crackles
- inspiratory wheezes
- stridor
* Patient 9

Age: 15 years old
Height: 164 cm
Weight: 42 kg

Sounds of auscultation

- prolonged expiratory phase
- pleural rub
- comments
- squawk
- rhonchi
- vesicular breath sound
- louder breath sound
- abnormal bronchial sound
- medium crackles
- crepitus
- diminished breath sound
- normal bronchial sound
- fine crackles
- coarse crackles
- inspiratory wheezes
**Patient 10**

*Age: 3 years old*

*Height: 92 cm*

*Weight: 14 kg*
**Patient 11**

*Age: 7 months old*

*Wzrost: 82 cm*

*Weight: 8 kg*

Sounds of auscultation

- crepitus
- inspiratory wheezes
- expiratory wheezes
- stridor
- prolonged expiratory phase
- squawk
- pleural rub
- rhonchi

Comments

- vesicular breath sound
- louder breath sound
- normal bronchial sound
- abnormal bronchial sound
- fine crackles
- coarse crackles
- inspiratory wheezes
- stridor
- squawk
- rhonchi

Diminished breath sound

Medium crackles

Coarse crackles
* Patient 12
Age: 17 years old
Height: 150 cm
Weight: 50 kg

* Patient 13

Sounds of auscultation

- vesicular breath sound
- diminished breath sound
- normal bronchial sound
- fine crackles
- coarse crackles
- inspiratory wheezes
- stridor
- squawk
- rhonchi

Comments: [Textbox]
* Patient 14
Age: 14 years old
Height: 150 cm
Weight: 35 kg
Patient 15
Age: 25 years old
Height: 176 cm
Weight: 58 kg

Sounds of auscultation

- vesicular breath sound
- louder breath sound
- abnormal bronchial sound
- medium crackles
- crepitus
- expiratory wheezes
- prolonged expiratory phase
- pleural rub

* comments
Patient 16
Age: 3 years old
Height: 94 cm
Weight: 14 kg

Sounds of auscultation

- vesicular breath sound
- louder breath sound
- abnormal bronchial sound
- medium crackles
- crepitus
- expiratory wheezes
- prolonged expiratory phase
- pleural rub
- comments

- diminished breath sound
- normal bronchial sound
- fine crackles
- coarse crackles
- inspiratory wheezes
- stridor
- squawk
- rhonchi
Patient 17
Age: 17 years old
Height: 150 cm
Weight: 50 kg

Sounds of auscultation

- vesicular breath sound
- louder breath sound
- abnormal bronchial sound
- medium crackles
- crepitus
- expiratory wheezes
- prolonged expiratory phase
- pleural rub
- comments
Patient 18
Age: 18 years old
Height: 179 cm
Weight: 60 kg

Sounds of auscultation

- vesicular breath sound
- louder breath sound
- abnormal bronchial sound
- medium crackles
- crepitus
- expiratory wheezes
- prolonged expiratory phase
- pleural rub
- comments
* Patient 19

Age: 2 years old

Height: 84 cm
Weight: 11 kg

Sounds of auscultation:

- crepitus
- expiratory wheezes
- prolonged expiratory phase
- pleural rub
- comments

- inspiratory wheezes
- stridor
- squawk
- rhonchi

- vesicular breath sound
- louder breath sound
- abnormal bronchial sound
- diminished breath sound
- normal bronchial sound
- fine crackles
Patient 20
Age: 6 years old
Height: 118 cm
Weight: 23 kg

Sounds of auscultation

- medium crackles
- coarse crackles
- crepitus
- inspiratory wheezes
- expiratory wheezes
- stridor
- prolonged expiratory phase
- squawk
- pleural rub
- rhonchi

Comments
Patient 21
Age: 35 years old
Height: 180 cm
Weight: 74 kg

Sounds of auscultation

- pleural rub
- comments
- rhonchi
- vesicular breath sound
- louder breath sound
- abnormal bronchial sound
- medium crackles
- crepitus
- expiratory wheezes
- prolonged expiratory phase
- pleural rub
- comments
- diminished breath sound
- normal bronchial sound
- fine crackles
- coarse crackles
- inspiratory wheezes
- stridor
- squawk
- rhonchi
**Patient 22**
Age: 56 years old
Height: 162 cm
Weight: 53 kg

**Patient 23**
Age: 11 years old
Height: 147 cm
Weight: 32 kg

Sounds of auscultation

- vesicular breath sound
- louder breath sound
- abnormal bronchial sound
- medium crackles
- crepitus
- expiratory wheezes
- prolonged expiratory phase
- pleural rub
- comments

- diminished breath sound
- normal bronchial sound
- fine crackles
- coarse crackles
- inspiratory wheezes
- stridor
- squawk
- rhonchi

*
Patient 24
Age: 14 years old
Height: 150 cm
Weight: 35 kg

Sounds of auscultation

- vesicular breath sound
- louder breath sound
- abnormal bronchial sound
- medium crackles
- crepitus
- expiratory wheezes
- prolonged expiratory phase
- pleural rub
- comments

- diminished breath sound
- normal bronchial sound
- fine crackles
- coarse crackles
- inspiratory wheezes
- stridor
- squawk
- rhonchi
* What kind of headphones do you use to listen to the recordings? If you know the name of the headphones company, please enter in the box

- Over-Ear Headphones
- In-Ear Headphones
- Name of the headphones company

Sounds of auscultation

- vesicular breath sound
- louder breath sound
- abnormal bronchial sound
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- diminished breath sound
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