

The Respiratory System

Your respiratory system belongs

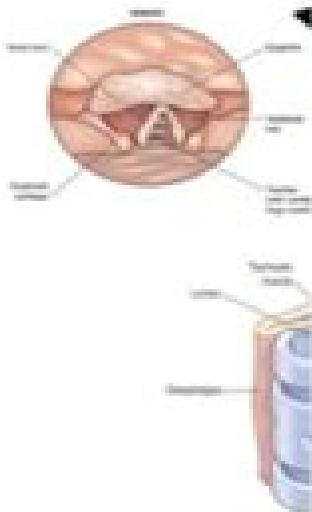
Problems with your respi

The Parts of Lungs

The respiratory system is made up of

- Trachea
- Bronchi (Trachea)
- Alveoli (Bronchi)
- Capillaries (Alveoli)
- Diaphragm (Alveoli)
- Respiratory muscles (Alveoli)
- Respiratory system (Alveoli)
- Respiratory system (Alveoli)
- Respiratory system (Alveoli)
- Respiratory system (Alveoli)

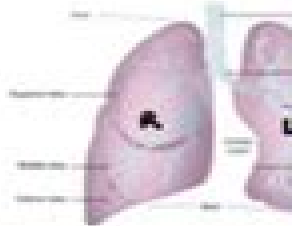
Right and left lungs:
The right and left lungs are the main organs of the respiratory system. The right lung is larger than the left lung. The right lung is divided into three lobes: the upper lobe, the middle lobe, and the lower lobe. The left lung is divided into two lobes: the upper lobe and the lower lobe. The right lung is larger than the left lung because it has to make room for the heart, which is located in the center of the chest.



RELATIVE IN ... RELATIVE

The Bronchial

- Right and left bronchi
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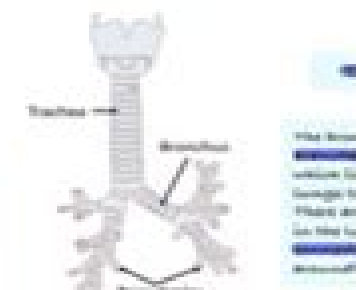


The Alveoli

- Right and left alveoli
- Right and left alveoli
- Right and left alveoli
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- Right and left alveoli
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- Right and left alveoli

The Trachea

- Right and left trachea
- Right and left trachea
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- Right and left trachea
- Right and left trachea
- Right and left trachea
- Right and left trachea
- Right and left trachea



A diagram showing the trachea and bronchi.

BREATHE IN ... BREATHE OUT

The mechanism of respiration involves the contraction and relaxation of the diaphragm and the external intercostal muscles. This is dependent on the pressure changes in the thoracic cavity and the external environment.

Mechanism of Respiration

- Inhalation: The diaphragm contracts and moves down, and the external intercostal muscles contract and pull the ribs up and out.
- Exhalation: The diaphragm relaxes and moves up, and the external intercostal muscles relax and the ribs move down and in.

Inhalation: The diaphragm contracts and moves down, and the external intercostal muscles contract and pull the ribs up and out. This creates a negative pressure in the thoracic cavity, which causes air to be drawn in.

Exhalation: The diaphragm relaxes and moves up, and the external intercostal muscles relax and the ribs move down and in. This creates a positive pressure in the thoracic cavity, which causes air to be forced out.



Factors affecting respiration

- Temperature: The rate of respiration increases with temperature.
- Humidity: The rate of respiration increases with humidity.
- Pressure: The rate of respiration increases with pressure.
- Volume: The rate of respiration increases with volume.
- Concentration: The rate of respiration increases with concentration.
- Time: The rate of respiration increases with time.

Volume of Respiration

- Tidal Volume:** The volume of air that enters or leaves the lungs during normal breathing.
- Inspiratory Volume:** The volume of air that enters the lungs during inspiration.
- Expiratory Volume:** The volume of air that leaves the lungs during expiration.
- Residual Volume:** The volume of air that remains in the lungs after expiration.
- Functional Residual Volume:** The volume of air that remains in the lungs after expiration, plus the volume of air that can be inhaled.
- Vital Capacity:** The maximum volume of air that can be inhaled and then exhaled.

Composition of Inspired and Expired Air

| | Inspired Air | Expired Air |
|----------------|--------------|-------------|
| Oxygen | 21% | 16% |
| Carbon Dioxide | 0.04% | 4% |
| Water Vapor | Variable | Saturated |
| Nitrogen | 78% | 78% |
| Other Gases | Variable | Variable |

BREATHE IN ... BREATHE OUT ... BREATHE IN ... BREATHE OUT ...

Respiratory System Study Guides

Sabine Zange



Respiratory System Study Guides:

The Enigmatic Realm of **Respiratory System Study Guides**: Unleashing the Language is Inner Magic

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