

The Re The Respiratory System

Your respiratory system brings

Problems with your resp

The Parts of Lungs

The respiratory system is made up of

- Trachea
- Bronchi (Main)
- Bronchioles (Small)
- Alveoli (Tiny sacs where gas exchange happens)

Right and Left Lungs

Four lobes - Right and Left Lung

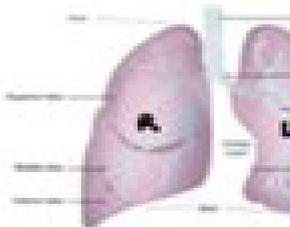
The right lung is made up of 3 lobes: Superior, Middle, and Inferior

Air is inhaled or exhaled by moving the diaphragm up and down



The Bronchial Tree

- Trachea
- Primary Bronchi
- Secondary Bronchi
- Tertiary Bronchi
- Bronchioles
- Terminal Bronchioles
- Alveoli (where gas exchange happens)

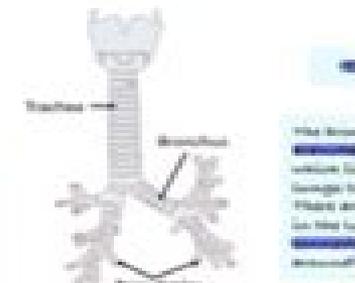


The Pleural Cavity

Space between the lungs and the chest wall

The Diaphragm

Muscle that separates the chest and abdominal cavities



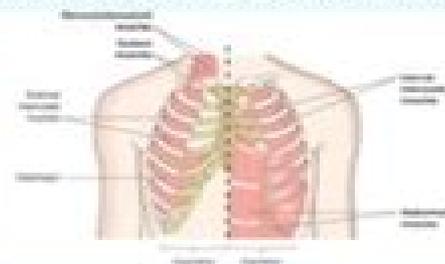
A diagram showing the diaphragm.

Inflation and deflation of the lungs require changes in the volume of the thoracic cavity, the contraction and relaxation of the muscles of respiration and the elastic connective tissue.

The Mechanics of Respiration

Inhalation

- Diaphragm contracts and moves down
- Ribs expand outwards
- Volume of thoracic cavity increases
- Pressure in thoracic cavity decreases
- Air moves in



Exhalation

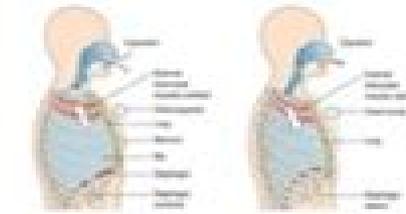
- Diaphragm relaxes and moves up
- Ribs contract
- Volume of thoracic cavity decreases
- Pressure in thoracic cavity increases
- Air moves out

Inhalation: The muscles of respiration contract and utilize energy to do so, this is an **active** process as it uses energy. Inspiration last approximately **2 seconds**.

Diaphragm contracts and moves down: As the diaphragm contracts, the pressure inside decreases, resulting in **negative pressure**, since the negative pressure is below atmospheric pressure, air is drawn in.

Exhalation: **Passive** process, doesn't use energy. **Relaxation of the diaphragm** allows the rib cage to move down and in and the **relaxation of the diaphragm** reduces the size of the thoracic cavity.

As the cavity decreases the pressure in the cavity increases, resulting in positive pressure, since it increases more than atmospheric pressure, air is forced out.



Vocal production: The vocal cords vibrate and produce sound waves.

Pharynx: The passage of air and food.

Larynx: The voice box.

Trachea: The windpipe.

Bronchi: The main airways.

Bronchioles: The smaller airways.

Alveoli: The tiny air sacs where gas exchange occurs.

Gas Exchange

Residual Volume: The volume of air remaining in the lungs after a normal expiration.

Tidal Volume: The volume of air that enters or leaves the lungs during a normal breathing cycle.

Inspiratory Capacity: The maximum volume of air that can be inhaled.

Vital Capacity: The maximum volume of air that can be exhaled after a maximal inspiration.

Functional Residual Capacity: The volume of air remaining in the lungs after a normal expiration.

Total Lung Capacity: The maximum volume of air that can be held in the lungs after a maximal inspiration.

Gas Exchange

- Inhalation:** Normal, unforced breathing.
- Exhalation:** Normal, unforced breathing.
- Hyperpnea:** An abnormally rapid breathing rate of more than 20 breaths per minute.
- Hypopnea:** An abnormally slow rate of breathing.

Composition of Inspired and Expired Air

Gas	Inspired Air (%)	Expired Air (%)
Oxygen	21%	16%
Carbon Dioxide	0.04%	4%
Nitrogen	78%	78%
Water	Variable	Saturated

BREATHE IN... BREATHE OUT

BREATHE IN... BREATHE OUT

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

Chapter 22 Respiratory System Study Guide

**Stephen F. Wehrman, Robert L.
Wilkins, James K Stoller**



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