

The Respiratory System

Your respiratory system brings

Problems with your respi

The Parts of the

The respiratory system is made up of

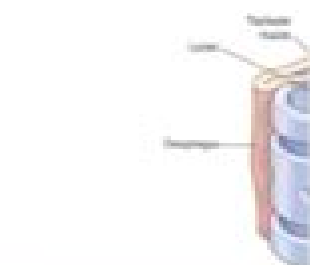
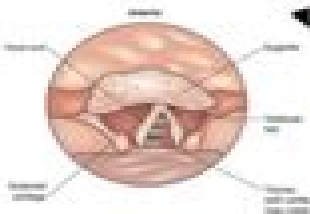
- Nose
- Pharynx (throat)
- Larynx (voice box)
- Trachea (windpipe)
- Bronchi (primary branching from trachea to smaller bronchioles)
- Alveoli

Right and Left Lungs

Our respiratory system has the main part where air enters the body. Internal (anterior) and external (posterior) views.

The nasal cavity is made up of nasal septum, bone and hyaline cartilage. The nasal cavity is made up of nasal septum, bone and hyaline cartilage.

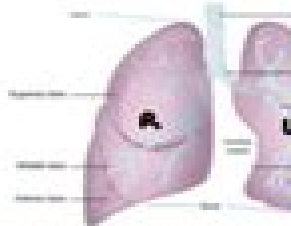
Alveoli (small sacs) are located at the end of the bronchioles. Air is inhaled or exhaled to match the temperature, moisture and volume of the air.



BREATHE IN... BREATHE

The Mechanisms

- Right and left bronchi
- Right is more acute (in angle) and shorter than left bronchi entering the right lung
- Left bronchi is lower and narrower
- It divides into
- Subdividing bronchi
- Terminal bronchi
- Bronchioles
- Terminal bronchioles
- Alveoli (primary branching from trachea to smaller bronchioles)

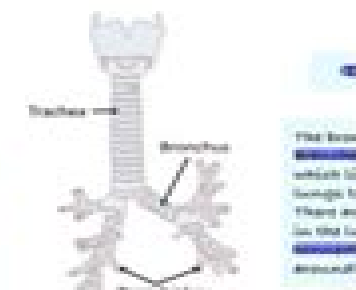


The Trachea

- Trachea is made of cartilage and muscle
- It is located in the center of the neck
- It is made of cartilage and muscle
- It is located in the center of the neck

The Pleura

- It is a layer of tissue that covers the lungs
- It is located in the center of the neck
- It is made of cartilage and muscle
- It is located in the center of the neck



A diagram showing the bronchioles.

BREATHE IN... BREATHE OUT

The mechanisms of respiration involve the contraction and relaxation of the muscles of respiration and the elastic properties of the lungs.

Mechanisms of Respiration

- During normal quiet breathing the muscles involved are
- Diaphragm
- External intercostal muscles
- Internal intercostal muscles
- External intercostal muscles
- Internal intercostal muscles

- Inhalation** - The muscles of respiration contract and pull the rib cage upwards and outwards.
- Exhalation** - The muscles of respiration relax and the rib cage moves downwards and inwards.
- Inhalation** - The muscles of respiration contract and pull the rib cage upwards and outwards.
- Exhalation** - The muscles of respiration relax and the rib cage moves downwards and inwards.



- Compliance** - Ease of stretching of the connective tissues in the lungs with increased breathing effort.
- Elasticity** - Measure of the distensibility of the lungs with increased breathing effort.
- Resistance** - Measure of the resistance to the flow of air through the airways.
- Flow** - Measure of the volume of air that flows through the airways.
- Volume** - Measure of the volume of air that is in the lungs.
- Pressure** - Measure of the pressure of the air in the lungs.

Lung Volumes

- Residual Volume** - The volume of air that remains 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 Reserve Volume** - The volume of air that can be inhaled above the tidal volume.
- Expiratory Reserve Volume** - The volume of air that can be exhaled below the tidal volume.
- Vital Capacity** - The maximum volume of air that can be inhaled and exhaled during a single breathing cycle.

Respiratory Patterns

- Normal** - Normal, unaltered breathing.
- Apnea** - No breathing.
- Hyperventilation** - An abnormally rapid breathing rate of more than 20 breaths per minute.
- Bradypnea** - An abnormally slow rate of breathing.

Composition of Inspired and Expired Air

	Inspired Air	Expired Air
Oxygen	21%	16%
Carbon Dioxide	0.04%	4%
Water Vapor	Variable	Saturated

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

Guide To Respiratory Care

Michael Rajnik



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