

The Respiratory System

Your respiratory system brings

Problems with your respi

The Parts of the

The respiratory system is made up of

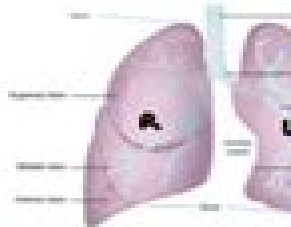
- Nose
- Pharynx (throat)
- Larynx (voice box)
- Trachea (windpipe)
- Bronchi (primary branching from trachea to smaller bronchioles)
- Alveoli

Right and Left Lungs

Our nostrils/mouth are the main way while air enters the body. Internal (anterior) nostrils. Internal (posterior) nostrils. The nasal cavity is made up of nasal septum - Bone and hyaline cartilage. Nasal conchae. Nasal mucosa. Meatus: (2) Superior, middle & inferior. Defecting region. Functions include: Air is warmed or cooled to match its temperature, moistened and filters. Defecting. Sense of smell.

The Bronchial

- Right and left bronchus
- Right is more ductile (in ductile and shorter) & foreign objects entering the right lung
- Left bronchus is lower and narrower
- It divides into
 - Subsegmental bronchi
 - Tertiary bronchi
 - Bronchioles
 - Bronchial bronchioles
- Normal = external respiration (other gases, by other acquired)

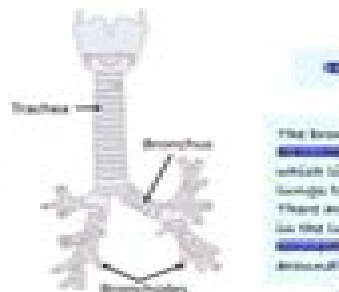


The Alveoli

- Each alveolus and each pair of alveoli (alveoli) (secondary alveoli) and alveoli (tertiary) (tertiary alveoli)
- Alveoli (tertiary) (tertiary alveoli)
- Alveoli (tertiary) (tertiary alveoli)

The Pleura

- Results layer of serous membrane, separates and lubricates chest wall (parietal)
- At potential space between the two layers is fluid and prevents friction when we breathe

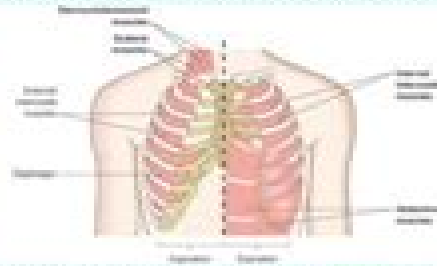


A diagram showing the bronchioles.

The Mechanisms of Respiration
Inflation and deflation of the lungs ensures that regular exchange of gases takes place, however this is dependent on the arrangement of the pleura, the contraction and relaxation of the muscles of respiration and the elastic connective tissue.

Muscles of Respiration

- During normal quiet breathing the muscles involved are:
 - Diaphragm
 - External intercostal muscles
 - Internal intercostal muscles
- During increased times of breathing the breathing muscles are used:
 - Diaphragm
 - External intercostal muscles



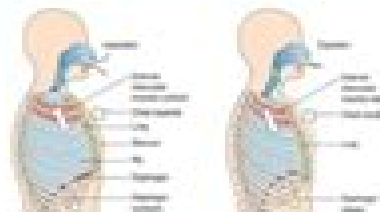
Accessory muscles

- Internal intercostal (20 pairs)
- Diaphragm
- Abdominal Oblique (outer lateral)
- Rectus Abdominus (20 pairs)

Nervous Control

- Diaphragm nerve (C3-C5) "I'd and I keep you alive"
- Intercostal intercostal nerves, T1-T12

- Inspiration** - The muscles of respiration contract and whilst trying to do so, this is an **active** process as it uses energy. Inspiration last approximately 2 seconds.
 - Simultaneous contraction of the **external** muscles pull the rib cage upwards and outwards.
 - The **diaphragm** contracts when contracted, increasing the thoracic cavity.
 - As the rib cage contracts, the pressure inside decreases, creating **negative pressure**, and the negative pressure is below atmospheric pressure, air is drawn in.
- Expiration** - A **passive** process, doesn't use energy.
 - Relaxation of the **external** muscles allows the rib cage to move down and in and the **relaxation** of the **diaphragm** reduces the size of the thoracic cavity.
 - As the rib cage relaxes the pressure in the rib cage increases, resulting in **positive pressure**, and in expiration more than atmospheric pressure, air is forced out.



Factors Affecting Respiration

- Compliance** - Loss of elasticity of the connective tissues in the lungs will increase breathing effort.
- Compliance** - Measure of the distensibility. High compliance, lung will expand easily. Low compliance, lung will not expand to capacity.
- Flow resistance**
- Resistance**
- Resistance**
- Resistance**

Lung Volumes

- Residual lung volume** - the residual volume that stays in the air passages that isn't involved in volume exchange = **1200ml**
- Tidal volume** - the amount of air which passes in and out of the lungs during normal breathing = **500ml**
- Inspiratory reserve volume** - the extra amount of air that can be inhaled into the lungs during maximal inspiration = **1200ml**
- Expiratory reserve volume** - the maximum amount of air that can be expired, tidal volume + inspiratory reserve volume = **1200ml**
- Functional residual volume** - the amount of air remaining in the air passages and alveoli at the end of normal expiration = **1200ml**
- Expiratory reserve volume** - the largest amount of air that can be expired during maximal expiration = **1200ml**
- Residual volume** - amount of air left in the lungs after forced expiration = **1200ml**
- Vital capacity** - maximum volume of air which can be moved in and out of the lungs = **1200ml**

Composition of Inspired and Expired Air

	Inspired	Expired
Oxygen	21%	16%
Carbon Dioxide	0.04%	4%
Nitrogen	78%	78%
Water vapour	Variable	Saturated

Breathing Patterns

- Eupnoea** - normal, unaltered breathing.
- Apnoea** - no breathing.
- Tachypnoea** - An abnormally rapid breathing rate of more than 20 breaths per minute.
- Bradypnoea** - An abnormally slow rate of breathing.

BREATH IN... BREATH

BREATH IN... BREATH OUT

BREATH IN... BREATH OUT... BREATH IN... BREATH OUT...

Best Registered Respiratory Therapist Study Guide

Linda S. Williams, Paula D. Hopper



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