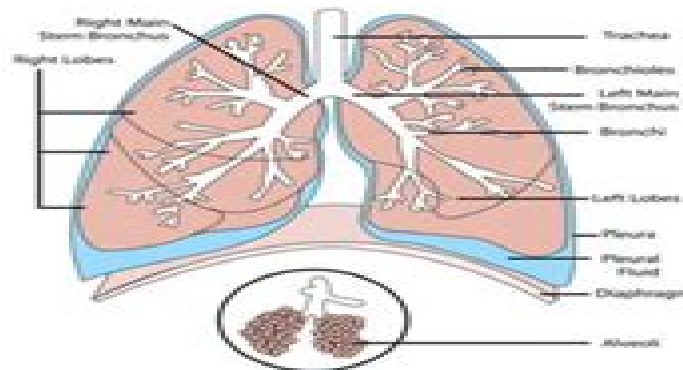


Gaseous Exchange

Lungs:

Diagram of the Human Lungs



During inhalation the external intercostal muscles contracts and the internal relaxes which pushes the ribs up and out. Apart from this, the diaphragm contracts, pulling the diaphragm down and flat. All this creates a high volume in the chest (thorax) and therefore low pressure. This causes air to be pulled into the lungs as there is higher pressure outside. During exhalation, the opposite happens meaning the ribs are pulled down and in and the diaphragm goes back to a dome shape. This creates high pressure which pulls the air out of the lungs.

Adaptations of alveoli	Advantages
Large surface area	This allows for faster diffusion as more particles can diffuse across the membrane at one time.
Good blood supply	Maintains a steep concentration gradient between alveoli and the blood capillaries.
Walls one cell thick	Creates a short diffusion pathway.
Moist	Increases the rate of oxygen diffusion as it dissolves.

Lung capacity - the volume of air the lung takes in different phases of the respiratory cycle. This can be measured with a spirometer.

1. Vital capacity - maximum lung capacity
2. Tidal volume - normal volume of air in the lungs during quiet breathing.

When the brain detects a too large or too little concentration of oxygen or carbon dioxide in the blood it changes the breathing rate to change the amount of air it takes in. e.g. if there is too much carbon dioxide, the breathing rate rises to breath out the carbon dioxide.

Diseases from smoking:

1. Emphysema - chemicals from cigarettes damage the elastic tissue in the lungs, reducing the surface area of the alveoli and therefore the speed and amount of oxygen it absorbs.
2. Lung cancer - carcinogenic chemicals in cigarette tar causes cancer.

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