

ANATOMY AND PHYSIOLOGY OF THE LUNGS

The lungs are the major organs of the respiratory system, and are divided into sections, or lobes. The right lung has three lobes and is slightly larger than the left lung, which has two lobes.

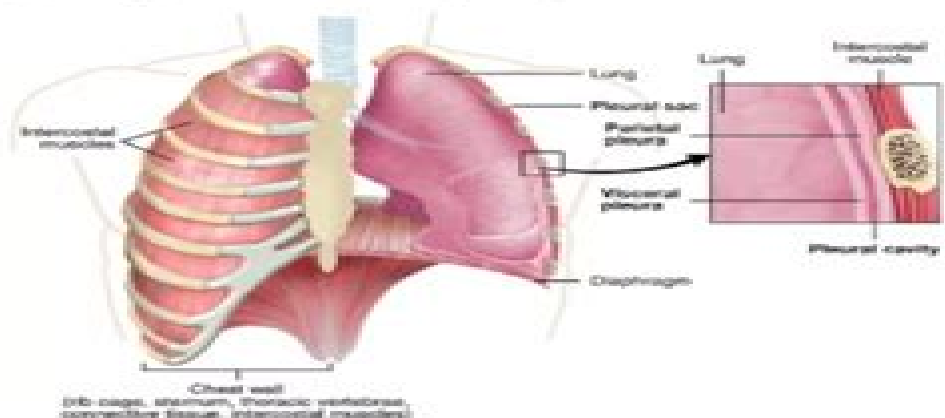
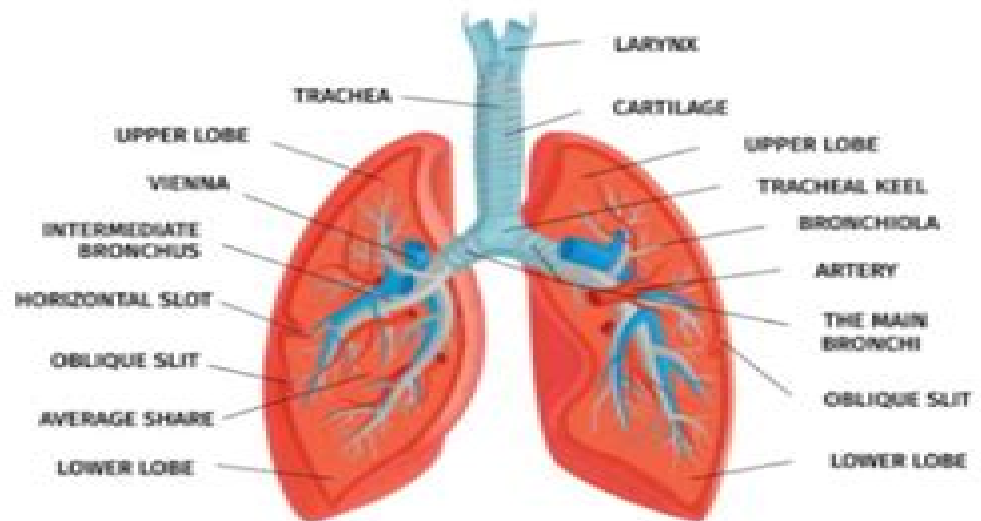
The lungs are separated by the mediastinum. This area contains the heart, trachea, esophagus, and many lymph nodes. The lungs are covered by a protective membrane known as the pleura and are separated from the abdominal cavity by the muscular diaphragm.

With each inhalation, air is pulled through the windpipe (trachea) and the branching passageways of the lungs (the bronchi), filling thousands of tiny air sacs (alveoli) at the ends of the bronchi. These sacs, which resemble bunches of grapes, are surrounded by small blood vessels (capillaries). Oxygen passes through the thin membranes of the alveoli and into the bloodstream. The red blood cells pick up the oxygen and carry it to the body's organs and tissues. As the blood cells release the oxygen they pick up carbon dioxide, a waste product of metabolism. The carbon dioxide is then carried back to the lungs and released into the alveoli. With each exhalation, carbon dioxide is expelled from the bronchi out through the trachea.

The pleura is a vital part of the respiratory tract whose role it is to cushion the lungs and reduce any friction which may develop between the lungs, rib cage, and chest cavity. The pleura consists of a two-layered membrane that covers each lung. The layers are separated by a small amount of viscous lubricant known as pleural fluid.

There are a number of medical conditions that can affect the pleura, including pleural effusions, a collapsed lung, and cancer. When excess fluid accumulates between the pleural membranes, various procedures may be used to either drain the fluid or eliminate the space between the membranes.

There are two pleurae, one for each lung, and each pleura is a single membrane that



Clinical Physiology Of The Lung

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