

HUMAN RESPIRATORY SYSTEM

EPIGLOTTIS

▲ A flap-like structure located at the entrance of the larynx. Prevents food and liquids from entering the trachea during swallowing.

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LARYNX (VOICE BOX)

▲ A hollow structure containing the vocal cords. Plays a crucial role in sound production and air passage to the lungs.

TRACHEA (WINDPIPE)

▲ A tube reinforced with cartilage rings that connects the larynx to the bronchi. Allows the passage of air to and from the lungs.

BRONCHUS

▲ The trachea divides into two main bronchi, one leading to each lung. Further branches into smaller bronchi and bronchioles.

LUNG

▲ A pair of spongy, air-filled organs responsible for gas exchange. Contains millions of alveoli where oxygen enters the blood and carbon dioxide is removed.

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ALVEOLI

▲ Tiny air sacs within the lungs where the exchange of oxygen and carbon dioxide takes place. Surrounded by capillaries to facilitate efficient gas diffusion.

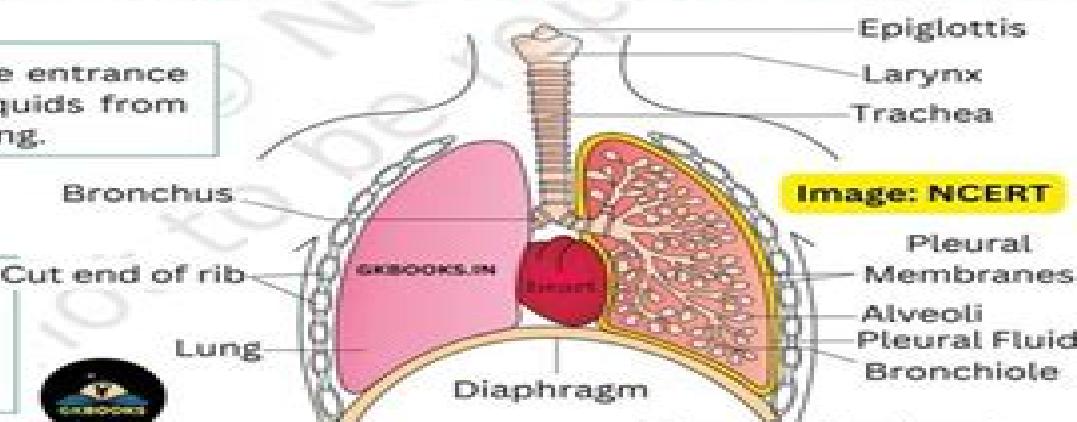


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Diagrammatic view of human respiratory system

PLEURAL MEMBRANES

▲ Thin double-layered membranes covering the lungs. Provide protection and facilitate smooth lung expansion and contraction.

BRONCHIOLE

▲ Smaller air passages that branch from the bronchi. Transport air to the alveoli.

PLEURAL FLUID

▲ A lubricating fluid present between the pleural membranes. Reduces friction during breathing movements.

CUT END OF RIB

▲ Part of the rib cage that protects the lungs and heart. The rib cage expands and contracts during breathing.

DIAPHRAGM

▲ A dome-shaped muscle located below the lungs. Plays a key role in breathing by contracting and relaxing to facilitate airflow.

HEART

▲ Positioned between the lungs, slightly tilted to the left. Pumps oxygenated blood from the lungs to the body and returns deoxygenated blood for oxygenation.

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