

RESPIRATORY SYSTEM

Trachea (windpipe): has each long tube from the larynx to the upper chest. Has 16-20 cartilaginous rings of hyaline cartilage and connects the pharynx to the bronchi of the lungs.

Bronchi: hyaline cartilage tubes that extend from the trachea to the lungs. Right bronchus is slightly wider and angles downward than the left.

Branches: small bronchi

1. Secondary bronchi
2. Tertiary bronchi



RESPIRATORY SYSTEM

Functions of the Respiratory System

1. Exchange of gases (O_2 & CO_2)
2. Diffusion of water
3. Sound production through the vocal cords
4. Secretion of mucus to moisten inlets in the lungs
5. Regulation of blood pH

RESPIRATORY SYSTEM

Larynx (voice box): structure formed by three single and three paired cartilages that contains the vocal cords.

When vocal cords are closed, air cannot pass through them. They produce a sound which depends on the tightness of the folds.

Anatomical structures within the larynx

1. Glottis: opening between the cords
2. Epiglottis (C1)
3. Cricoid (C2)
4. Thyroid cartilage (C3)
5. Arytenoid (C3)
6. Corniculate (C3)
7. Cuneiform (C3)

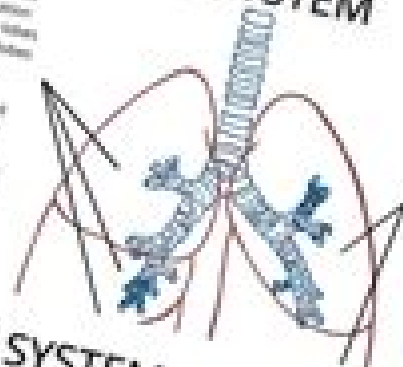
Epiglottis (protective structure that covers the trachea during swallowing (deglutition) and prevents food and water from entering the respiratory passageway)



RESPIRATORY SYSTEM

Lungs: spongy highly elastic paired organs of respiration

- Right lung has three lobes and the left has two lobes to accommodate the heart
- External surface is lined by a serous membrane covered by a pleural membrane that secretes serous fluid to prevent friction



RESPIRATORY SYSTEM

Paranasal sinuses: cavities in the frontal, maxillary, sphenoidal and ethmoidal bones that are lined with a mucous membrane that assists in the production of mucus for the respiratory tract. They also act as resonance chambers for sound production.

1. Frontal sinuses
2. Maxillary sinuses
3. Sphenoidal sinuses
4. Ethmoidal sinuses

RESPIRATORY SYSTEM COLORING WORKSHEETS

Cilia: hair-like projections on the surface of certain cells that trap particles and move them up and out down the throat

Nasal conchae: curved projections along the lateral walls of the nasal cavity that filter out dust particles, warm and humidify the air. Three types as follows

1. Superior nasal conchae
2. Middle nasal conchae
3. Inferior nasal conchae

1. **Oropharynx** (oropharynx) - the part of the oral cavity behind the mouth and tongue
2. **Laryngopharynx** (larynx) - the part of the pharynx directly below the larynx



Human Respiration Study Guide

Padhraic Smyth



Human Respiration Study Guide:

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