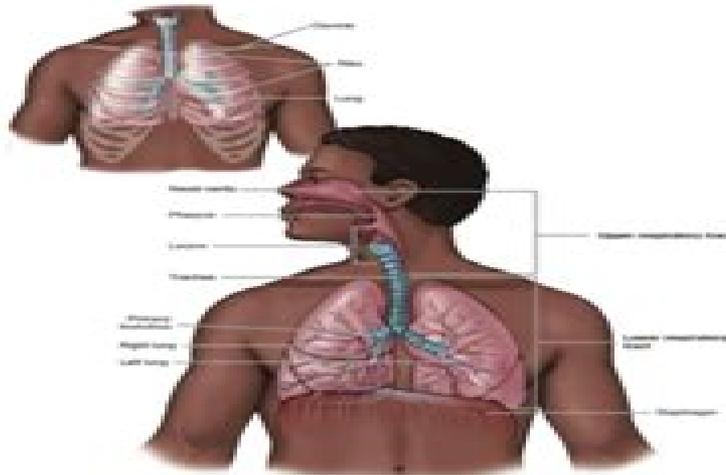


RESPIRATORY SYSTEM: CHAPTER 22

STRUCTURE: ORGANS OF THE RESPIRATORY SYSTEM

- Upper respiratory tract:
 - Organs located outside the chest
- Lower respiratory tract:
 - Organs located inside the chest

** Can you give examples of upper respiratory and lower respiratory infections? (Answers might include the common cold, pharyngitis, and laryngitis as examples of upper respiratory infections; bronchitis and pneumonia are examples of lower respiratory infections.)



UPPER RESPIRATORY SYSTEM

- Nose and nasal cavities
- Pharynx
 - Nasopharynx

- Oropharynx
- Laryngopharynx
- Larynx
 - Vocal cords
- Trachea
 - Cartilaginous rings

** The **oropharynx** and the **laryngopharynx** are part of both the digestive and respiratory systems. The **pharynx** also contains the opening to the tonsils and the eustachian tubes; the latter can be a pathway for otitis media.

** The thyroid cartilage is called the **Adam's apple** and can be seen in swallowing.

** The **cartilaginous rings** of the trachea prevent its collapse, helping maintain an open airway.

FUNCTIONS OF UPPER RESPIRATORY STRUCTURES

- Nose and nasal passages: Warm, moisturize, and conduct air
- Pharynx (throat): Conducts air to lower structures
- Larynx (voice box): Vibrates vocal cords, produces sound, and conducts air to lower structures
- Trachea (windpipe): Conducts air to right bronchus and left bronchus

** Describe what factors affect the quality of voice sound. (Mouth and tongue positions form sounds. Sound quality is modulated by the sinuses, so people sound different with sinusitis. A boy's voice changes at puberty because the vocal cords thicken and lengthen.)

LOWER RESPIRATORY SYSTEM

- Bronchi
- Bronchioles

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E Durkheim



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