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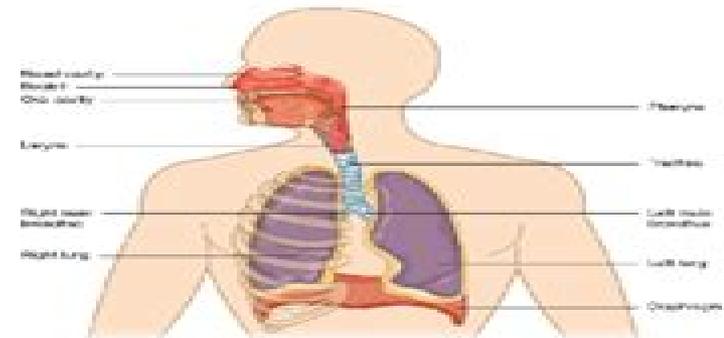
Functions of the Respiratory System

- Extensive surface area for gas exchange
- Moves air to and from the exchange surfaces of lungs
- Defense (MALT)
- Producing sounds
- Facilitating the detection of olfactory stimuli by olfactory receptors

Processes of Respiration

Respiratory System vs. Cardiovascular System

- **Pulmonary ventilation (breathing)**- movement of air into and out of lungs
- **External respiration**-O₂ and CO₂ exchange between lungs and blood
- **Transport**-O₂ and CO₂ in blood
- **Internal respiration**-O₂ and CO₂ exchange between systemic blood vessels and tissues



Gross Anatomy

Upper Respiratory Tract-structures in the **head and neck**
Lower Respiratory Tract-structures in the **thoracic cavity**

Respiratory Muscles: Diaphragm and other respiratory muscles promote ventilation

Functional Anatomy

Conducting zone-conduits to gas exchange sites

- Includes all other respiratory structures; cleanses, warms, humidifies air

Respiratory zone-site of gas exchange

- Microscopic structures-respiratory **bronchioles, alveolar ducts, and alveoli**

Chapter 22 Respiratory System Outline

**Wilburta Q. Lindh, Marilyn S.
Pooler, Barbara M. Dahl**



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Anatomy and Physiology II J. Gordon Betts, 2025-06-23 Anatomy and Physiology II offers a comprehensive and accessible exploration of the human body focusing on its intricate systems and essential functions. Designed as an Open Educational Resource (OER), this textbook is ideal for students in health sciences, nursing, and related fields who are seeking a deeper understanding of the body's structure and function. This volume covers key topics including the microscopic foundations of life through cellular and tissue anatomy, the structure and function of the integumentary, endocrine, cardiovascular, respiratory, lymphatic, and digestive systems, essential concepts of metabolism and nutrition, and common disease processes associated with each system. With clear explanations, diagrams, and real-world examples, this book bridges complex scientific theory with practical application. Whether you're continuing your studies in anatomy and physiology or preparing for clinical practice, Anatomy and Physiology II provides the foundational knowledge you need for success.

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