

Respiratory System Learning Objectives

I. Functional Anatomy Part I

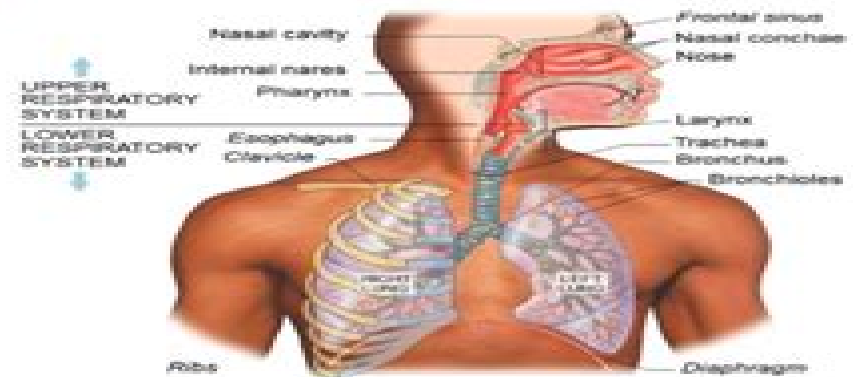
a. Describe principles of respiration and associated respiratory anatomy

i. External respiration:

1. Exchange of O_2 and CO_2 between the environment and cells of the body (gas exchange via the lungs)
 - a. 250 ml O_2 enters the body every minute
 - b. 200 ml CO_2 is expired every minute

ii. Cellular or internal respiration

1. cellular utilization of O_2 for the production of ATP resulting in the formation of CO_2 as the primary waste product



b. Identify functions of the respiratory system and the 4 major steps in respiration

i. Principle function of respiratory system:

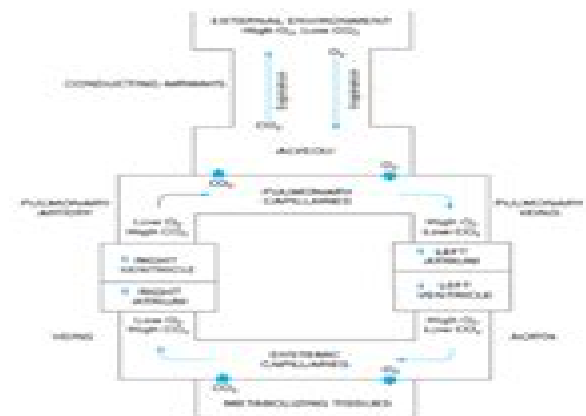
1. External respiration (gas exchange)

ii. Other functions:

1. Acid-base balance via the elimination of CO_2
2. Phonation
 - a. Vocalization via vocal cords (sound produced when air passes through glottis and causes the vocal cords to vibrate)
3. Defense mechanisms against infections (mucociliary clearance)
 - a. "air conditioning process"
4. Pulmonary metabolism
 - a. Activation/inactivation of endogenous and exogenous chemicals/substances
5. Olfaction (smell)
6. Route of administration for drugs
 - a. Volatile anesthetics, bronchodilators, vaccines, pulmonary vasodilators, CII/I substances
 - b. **Bypass first-pass metabolism** (but only 10-20% of dose inhaled is absorbed via lungs)

iii. Four major steps in external respiration

1. Ventilation:
 - a. air moves **into the lungs during inspiration**, and **out during expiration**
2. O_2 and CO_2 exchange between air and blood flowing through pulmonary capillaries.
 - a. At the **pulmonary alveolar level**
3. O_2 and CO_2 are transported in the blood to all tissues of the body through systemic circulation.
4. O_2 and CO_2 are exchanged between blood and body tissue cells.
 - a. At **systemic capillary level**



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