

## Respiratory System Learning Objectives

### I. Functional Anatomy Part I

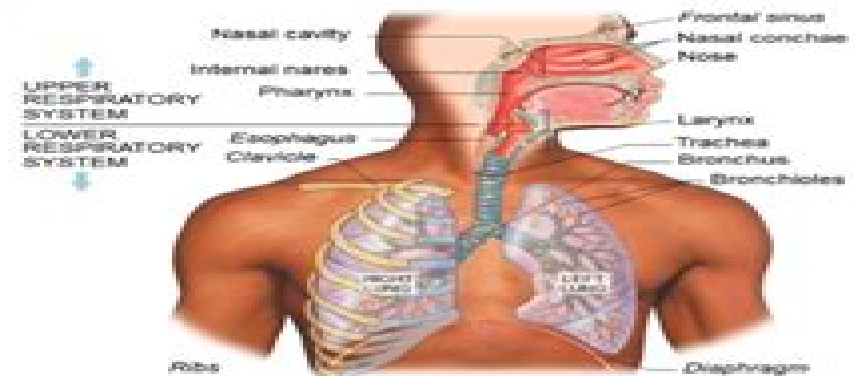
#### a. Describe principles of respiration and associated respiratory anatomy

##### 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:

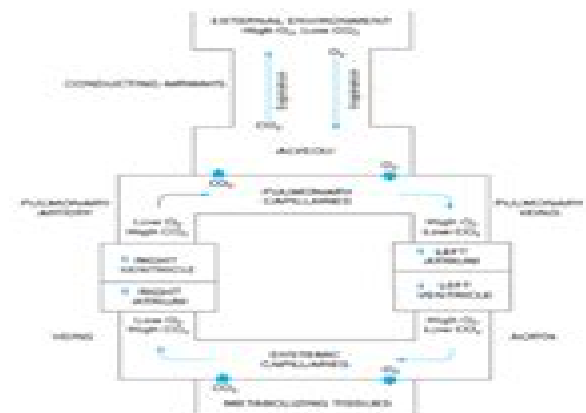
1. External respiration (gas exchange)

##### 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**



# Respiratory System Study Guide Answers

**J Elliott**



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