

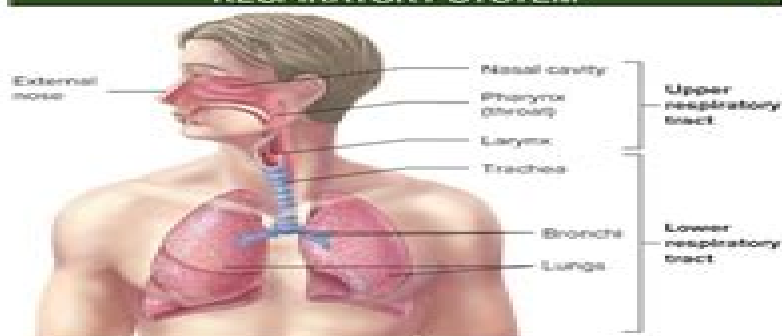


## ANATOMY & PHYSIOLOGY

### LECTURE 15: RESPIRATORY SYSTEM

Dr. Marie Cecil Elisa G. Esguerra, RN – Department of Anatomy and Physiology  
1<sup>ST</sup> SEMESTER | A.Y. 2022 - 2023

#### RESPIRATORY SYSTEM



Respiratory System - consist of the structures used to acquire oxygen and remove carbon dioxide from the blood.

ATP – energy we need for our body  
CO<sub>2</sub> – it is a by-product of the ATP

7.35 – 7.45 – Blood pH in normal state.  
If carbon dioxide accumulates, it will lead to what we called **Metabolic Acidosis**. --- decrease in blood pH.

#### 7 STRUCTURES OF THE RESPIRATORY SYSTEM

1. External nose - encloses the chamber for air inspiration.
2. Nasal Cavity – a heating, warming, and humidifying chamber for inspired air.
3. Pharynx – throat; serves as a shared passageway for both food and air.
4. Larynx – voice box; a rigid structure helps keep the airway constantly open, or patent.
5. Trachea – windpipe; it serves as an air-cleaning tube to funnel inspired air in each lung.
6. Bronchi – are tubes that direct air into the lungs.
7. Lungs – each lung is a labyrinth of air tubes and a complex network of air sacs, called alveoli, and capillaries. Air sacs are separated by walls of **COLLAGENOUS** and **ELASTIC FIBERS**.

#### FUNCTIONS OF THE RESPIRATORY SYSTEM

##### TWO ASPECTS OF RESPIRATION:

1. **Ventilation**, which is simply movement of air into and out of the lungs.
2. **Respiration**, the diffusion of gases across cell membranes.

##### TWO MAJOR TYPES OF RESPIRATION:

1. **EXTERNAL RESPIRATION**, the movement of gases between atmospheric air in the lungs and the blood
2. **INTERNAL RESPIRATION**, movement of gases between blood and the body's cells.

##### REGIONS OF THE RESPIRATORY TRACT:

1. **UPPER RESPIRATORY TRACT**, includes the structure from the nose to the larynx.
2. **LOWER RESPIRATORY TRACT**, includes the structures from the trachea through the alveoli in the lungs.

**CONDUCTING ZONE** – encompasses the structure from the nose to the smallest air tubes within the lungs and is strictly for ventilation.

**RESPIRATORY ZONE** – solely within the lungs and includes some specialized small air tubes and alveoli.

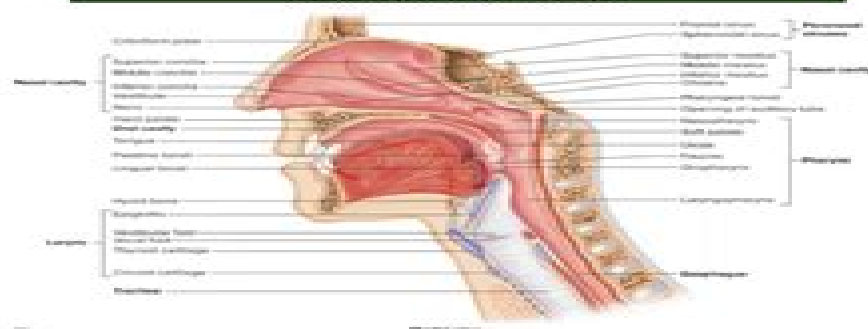
#### RESPIRATORY 4 SIMULTANEOUS PROCESSES:

1. **VENTILATION**, more commonly refer to as breathing. Air moves into and out of the respiratory passages.
2. **EXTERNAL RESPIRATION**, oxygen moves out of the alveolar air and into the blood. At the same time, CO<sub>2</sub> diffuses out of the blood and joins the air in alveoli.
3. **GAS TRANSPORT**, carbon dioxide and O<sub>2</sub> travel in the blood to and from cells.
4. **INTERNAL RESPIRATION**, gas exchange with the tissues involves the exit of O<sub>2</sub> from blood into cells, while CO<sub>2</sub> exit cells to enter blood.

#### FUNCTIONS OF RESPIRATORY

1. Respiration
2. Regulation of Blood pH
3. Voice Production
4. Olfaction
5. Innate Immunity/Protection – sneezing reflex

#### STRUCTURES AND HISTOLOGY OF THE RESPIRATORY TRACT



#### THE UPPER RESPIRATORY TRACT NOSE AND NASAL CAVITY

**NOSE** – consist of the external nose and the nasal cavity.

**EXTERNAL NOSE** – visible structure that forms a prominent feature of the face.

**NARES** – nostrils; external opening of the nose.

**CHOANAE** – opening into the pharynx.

**NASAL CAVITY** – open chamber inside the nose where air first enters the RS (respiratory system).

**HARD PALATE** – the floor of the nasal cavity, which separates it from the oral cavity in the mouth.

**NASAL SEPTUM** – a partition dividing the nasal cavity into right and left parts.

# Ch 15 Respiratory System Answer Key

**Jahangir Moini**



## Ch 15 Respiratory System Answer Key:

*Respiratory Care Clinical Competency Lab Manual* Sandra T Hinski, 2013-12-10 Respiratory Care Clinical Competency Lab Manual provides the practical skills needed to apply classroom theory to clinical practice This text has the flexibility to be used in conjunction with all other respiratory care titles as well as in other disciplines that require competencies in respiratory therapy With detailed step by step procedures supporting procedural illustrations hands on lab exercises case studies and critical thinking questions this text helps you understand and apply theoretical knowledge by demonstrating specific skills Procedural competency evaluation forms help you to assess your progress and performance of specific procedures Detailed structured lab activities provide hands on opportunities to assess psychomotor and patient communication skills in a controlled environment Content correlation to NBRC combined CRT RRT exam content outlines helps you better prepare for credentialing exams Step by step procedural competencies prepare you for the RT competency areas established by the American Association of Respiratory Care AARC and meet the national practice standards for patient care Up to date coverage of current technology equipment Clinical Practice Guidelines CPGs CPR guidelines and CDC recommendations and mass casualty disaster management equips you with the most state of the art training for respiratory care Integration of case based questions within the lab activities helps you develop and promote your critical thinking abilities UNIQUE Coverage of polysomnography addresses clinical evaluation in this expanding specialty area Over 200 images provide visual guidance on how to perform procedures UNIQUE Reality Check boxes arm you with practical knowledge on real world application of various procedures UNIQUE Tip boxes supply you with helpful pointers for the clinical arena Glossary of terms offers quick reference to terms presented in the text

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