

## Lab 7: Respiratory Anatomy

### Learning outcomes of the lab exercises:

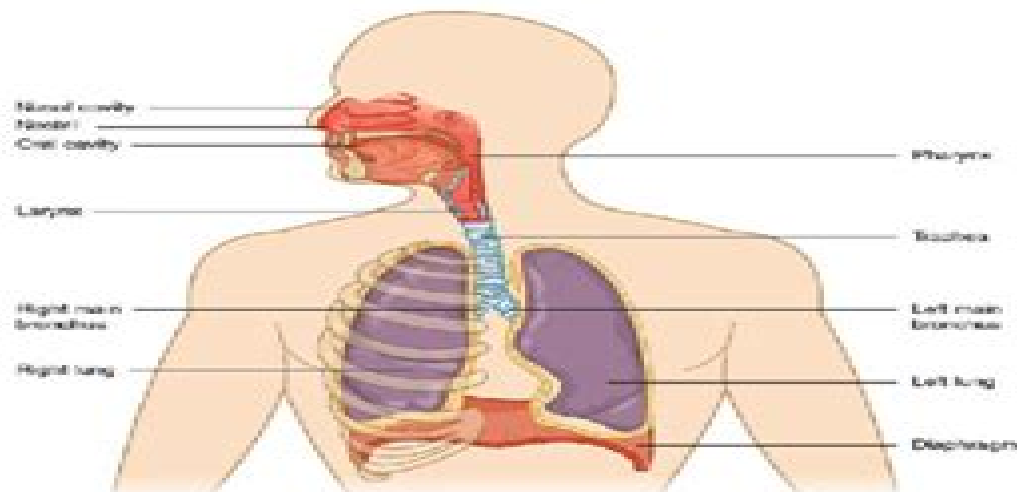
1. Identify the structures of the human respiratory tract on models
2. State the main function of each respiratory structure
3. Determine the pathway of airflow into the lungs
4. Compare the histological features of the various respiratory system tissues

### Background

"The major organs of the respiratory system function primarily to provide oxygen to body tissues for cellular respiration, remove the waste product carbon dioxide, and help to maintain acid-base balance. Portions of the respiratory system are also used for non-vital functions, such as sensing odors, speech production, and for straining, such as during childbirth or coughing" *OpenStax A&P, pg. 1034*

The respiratory system can be functionally divided into two zones:

1. Respiratory zone: for gas exchange, consists of respiratory bronchioles and alveoli.
2. Conducting zone: portions of respiratory system whose function is to conduct air to the alveoli



*OpenStax A&P, pg. 1034*

### Structures of the Respiratory Tract

You must be able to identify all of the terms in **bold** on models for the lab exam.

#### **A. Nasal Cavity**

- Air enters the nasal cavity via the **external nares**, opening into the **nasal vestibule**
- The nasal cavity is divided midline by the **nasal septum**, which is cartilaginous anteriorly and vomer bone in the posterior.
- The nasal cavity connects to the pharynx via the **internal nares**.

# Lab Guide Respiratory Anatomy

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A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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