

45

Respiratory Organs

MATERIALS NEEDED

Textbook
 Human skull (sagittal section)
 Human torso model
 Larynx model
 Thoracic organs model
 Compound light microscope
 Prepared microscope slides of the following:
 Trachea (cross section)
 Lung, human (normal)
 Animal lung with trachea (fresh or preserved)
 Bicycle pump
 Prepared microscope slides of the following:
 Lung tissue (smoker)
 Lung tissue (emphysema)

SAFETY

- Wear disposable gloves when working on the fresh or preserved animal lung demonstration.
- Wash your hands before leaving the laboratory.

PURPOSE OF THE EXERCISE

To review the structure and function of the respiratory organs and to examine the tissues of some of these organs.



LEARNING OUTCOMES APT

After completing this exercise, you should be able to

1. Locate the major organs and structural features of the respiratory system.
2. Describe the functions of these organs.
3. Sketch and label features of tissue sections of the trachea and lung.

The organs of the respiratory system include the nose, nasal cavity, paranasal sinuses, pharynx, larynx, trachea, bronchial tree, and lungs. They mainly process incoming air

and transport it to and from the atmosphere outside the body and the air sacs of the lungs.

In the alveoli (air sacs), gas exchanges take place between the air and the blood of nearby capillaries. The blood, in turn, transports gases to and from the alveoli and the body cells. This entire process of transporting and exchanging gases between the atmosphere and the body cells is called *respiration*.



PRACTICE

PROCEDURE A—Respiratory Organs

1. Review section 19.2 titled “Organs of the Respiratory System” in chapter 19 of the textbook.
2. As a review activity, label figures 45.1–45.4.
3. Examine the sagittal section of the human skull, and locate the following features:

nasal cavity

nostril (nares)
 nasal septum
 nasal conchae
 meatuses

paranasal sinuses

maxillary sinus
 frontal sinus
 ethmoidal sinuses (ethmoidal air cells)
 sphenoidal sinus

4. Observe the larynx model, the thoracic organs model, and the human torso model. Locate the features listed in step 3. Also locate the following features:

pharynx

nasopharynx
 oropharynx
 laryngopharynx

larynx (palpate your larynx)

vocal cords
 false vocal cords (vestibular folds)
 true vocal cords (vocal folds)
 thyroid cartilage (“Adam’s apple”)
 cricoid cartilage

Laboratory Exercise 45 Respiratory Organs

David Kirk



Laboratory Exercise 45 Respiratory Organs:

Laboratory Exercise 45 Respiratory Organs Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Laboratory Exercise 45 Respiratory Organs**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Laboratory Exercise 45 Respiratory Organs Introduction

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