

37-3 The Respiratory System

Guide for Reading



Key Concepts

- What are the structures of the respiratory system?
- How does smoking affect the respiratory system?

Vocabulary

- pharynx • trachea
- larynx • bronchus
- alveolus • diaphragm
- nicotine • emphysema

Reading Strategy: Monitoring Your Understanding

Make a table with three columns labeled K, W, and L. Before you read, write what you know about respiration in Column K and what you want to learn in Column W. After you read, write what you have learned in Column L.



(magnification: 5600 \times)

When paramedics rush to the aid of an injured person, they check to see if the person is breathing. If the person's chest is not rising and falling and they cannot feel or hear air being exhaled from the mouth or nose, the person is not breathing. Paramedics will ignore broken bones or burns to focus on breathing because there is no time to lose! If breathing stops for more than a few minutes, a life may be lost.

Paramedics can do mouth-to-mouth rescue breathing to force air into the lungs. They can do chest compressions to keep the blood circulating. Cardiopulmonary resuscitation, or CPR, is rescue breathing combined with chest compressions.

What Is Respiration?

In biology, the word *respiration* is used in two slightly different ways. At the cellular level, respiration is defined as the release of energy from the breakdown of molecules in food in the presence of oxygen. Without oxygen, cells lose much of their ability to produce ATP. Without ATP, cells cannot synthesize new molecules, pump ions, and carry nerve impulses.

The blood carries oxygen and carbon dioxide—a waste product of cellular respiration—between the lungs and the trillions of cells throughout the body. The process by which oxygen and carbon dioxide are exchanged between cells, the blood, and air in the lungs is also known as respiration.

The Human Respiratory System

The basic job performed by the human respiratory system is remarkably simple—to bring about the exchange of oxygen and carbon dioxide. With each breath, air enters the body through the air passageways and fills the lungs, where gas exchange takes place. The respiratory system consists of the nose, pharynx, larynx, trachea, bronchi, and lungs.

Figure 37-14 shows the structures of the respiratory system. Air moves through the nose to a tube at the back of the mouth called the pharynx, or throat. The pharynx serves as a passageway for both air and food. Air moves from the pharynx into the trachea, or windpipe. A piece of cartilage called the epiglottis covers the entrance to the trachea when you swallow.

◀ **Figure 37-13** In this cross section of the trachea, the cilia have been colored green. **Inferring** What is the role of cilia in the respiratory system?

Section 37 3 The Respiratory System Answers

Craig W. Stevens, George M. Brenner



Section 37 3 The Respiratory System Answers:

Complimentary Workbook of Applied Anatomy and Applied Physiology for Nurses, 2nd Edition - E-Book

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