
Chapter 9 Cardiovascular System

Chapter Objectives

Upon completion of this chapter the participant will be able to:

1. List the major structures of the cardiovascular system.
2. Discuss the functions of the cardiovascular system.
3. Name the three layers of the heart wall.
4. Label the major structures of the heart on a diagram.
5. Describe the system that allows contraction of the heart and circulation of blood.
6. Describe the flow of blood through the body.
7. Differentiate between the three types of blood vessels.
8. Define the components of blood pressure.
9. List the common components of blood.
10. Describe the functions of the blood components.
11. Analyze, define and spell the terms related to the cardiovascular system.
12. Successfully complete the exercises at the end of the chapter.

In order for the trillions of cells in the body to remain healthy they need to have a continuous supply of oxygen and nutrients. This is achieved because of the cardiovascular system. The parts of the cardiovascular system work together to deliver the needed oxygen and nutrients to the body tissues. A second function of the system is to then carry the waste products produced by the body tissues to the areas of the body where they can be eliminated. Blood cells contained in the circulating blood also play an important role in the immune system of the body.

When defined the term *cardiovascular* means pertaining to the heart and blood vessels. The components of this system include:

- Heart
- blood vessels
- blood

Types of Blood Vessels

- *arteries* to carry blood away from the heart
- *veins* to carry blood toward the heart
- *capillaries* which are tiny vessels that join the arteries to the veins and they carry blood to the body organs.

Structures of the Heart

The heart is a hollow muscular organ, which is about the size of your fist, and weights about eleven ounces. It is the contraction of this organ that provides the power to move blood through the vascular system of the body. The root word for heart is *cardi/o*.

Chapter 9 The Cardiovascular System

Shasha Hu



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