

CHAPTER 13: CARDIOVASCULAR SYSTEM

A. Chapter Objective 1: Name the organs of the cardiovascular system, and discuss their functions.

1. Lecture Suggestions and Guidelines
 - a. Give an overview of the cardiovascular system and describe its interrelationships with other systems in the human body.
 - b. Briefly describe the heart, blood vessels, pathways of circulation, blood pressure, and heart actions.
 - c. Discuss the cardiovascular system in terms of its ability to provide oxygen and nutrients to tissues and to remove wastes.
2. Application Question(s)
 - a. Ask students to develop a diagram that illustrates the flow of blood from the systemic circuit, through the heart, to the lungs, back to the heart, and out once again to the systemic circuit.
Answer: The diagram should illustrate flow to the vena cavae, right atrium, right ventricle, pulmonary trunk, pulmonary arteries, lungs, pulmonary veins, left atrium, left ventricle, aorta, to the systemic circuit.
3. Critical Thinking Issue(s)
 - a. How does a stroke differ from a heart attack in terms of the location of arterial blockage?
Answer: A stroke is the result of a blockage of blood flow to the brain, whereas a heart attack may result from the blockage of blood flow through the coronary arteries.

B. Chapter Objective 2: Identify and locate the major parts of the heart and discuss the functions of each part.

1. Lecture Suggestions and Guidelines
 - a. Lecture on the size and location of the heart.
 - b. Discuss the coverings and walls of the heart, including the pericardium, epicardium, myocardium, and endocardium.
 - c. Describe the chambers and valves of the heart. Introduce the atria, ventricles, septum, tricuspid valve, papillary muscles, pulmonary valve, mitral valve, aorta, and aortic valve.
 - d. Explain what is meant by the skeleton of the heart.
 - e. Discuss ways in which the heart communicates with its external environment.
2. Application Question(s)
 - a. Provide students with a model of the human heart and ask them to trace the normal flow of blood through it.
Answer: The normal flow of blood through the heart begins in the right atrium, to the right ventricle, to the lungs to become oxygenated, back to the left atrium, to the left ventricle, and out through the aorta into the systemic circuit.
3. Critical Thinking Issue(s)
 - a. How do the three layers of the heart wall compare in terms of composition?
Answer: The epicardium is a serous membrane of connective tissue, covered with epithelium, including blood capillaries, nerve fibers, etc. The myocardium is cardiac muscle tissue, separated by connective tissue. The endocardium is a membrane of epithelium and connective tissues, including elastic and collagenous fibers, blood vessels, and specialized muscle fibers.

C. Chapter Objective 3: Trace the pathway of the blood through the heart and the vessels of the coronary circulation.

1. Lecture Suggestions and Guidelines
 - a. Demonstrate the flow of blood through the heart by using a heart model.
 - b. Dissect a sheep heart and illustrate the flow of blood through the heart.
 - c. Reiterate the functions of the atria and ventricles, and emphasize their differences.
 - d. Lecture on the function of each heart valve, and explain the importance of one-way flow.

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