

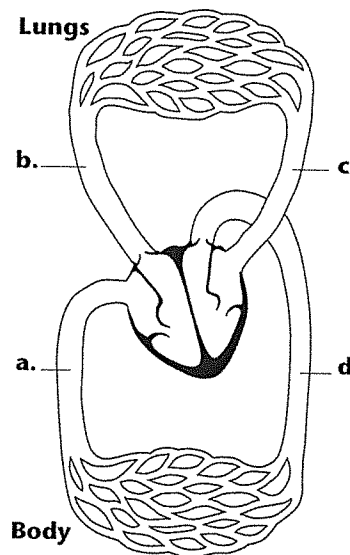
Review and Reinforce

The Body's Transport System

Understanding Main Ideas

Use the diagram to answer the following questions on a separate sheet of paper.

1. Draw arrows on the diagram to show the path of blood flow throughout the body.
2. What is the function of each atrium?
3. What is the function of each ventricle?
4. Which of the large blood vessels labeled *a*, *b*, *c*, and *d* are arteries and which are veins? Explain how you know.



Building Vocabulary

Match each term with its definition by writing the letter of the correct definition in the right column on the line beside the term in the left column.

- | | |
|------------------------------|---|
| 5. ___ cardiovascular system | a. a group of cells in the right atrium that signals the heart muscle to contract |
| 6. ___ heart | b. a lower chamber of the heart |
| 7. ___ atrium | c. the body's largest artery |
| 8. ___ ventricle | d. the heart, blood vessels, and blood |
| 9. ___ pacemaker | e. blood vessels that carry blood back to the heart |
| 10. ___ valve | f. an upper chamber of the heart |
| 11. ___ arteries | g. tiny blood vessels where substances are exchanged between the blood and body cells |
| 12. ___ aorta | h. a flap of tissue that prevents blood from flowing backward |
| 13. ___ capillaries | i. a hollow, muscular organ that pumps blood throughout the body |
| 14. ___ veins | j. blood vessels that carry blood away from the heart |

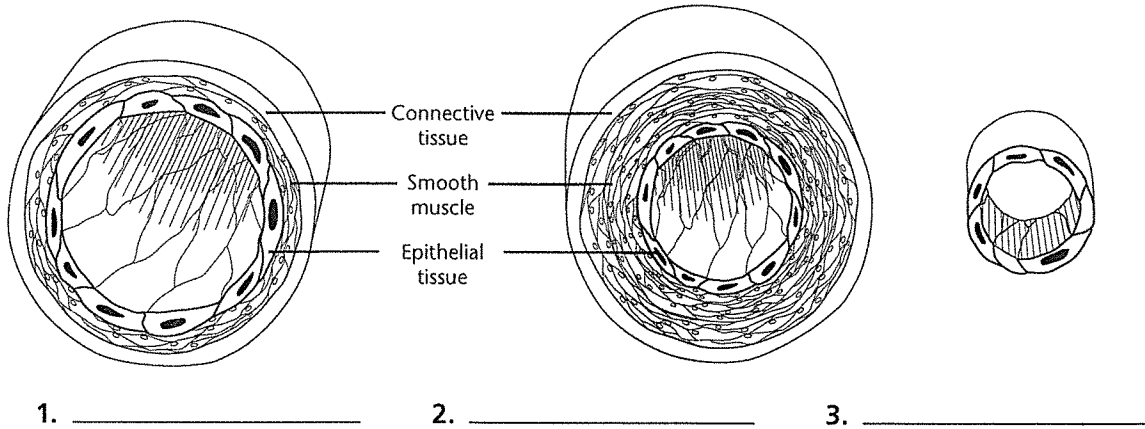
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Review and Reinforce

A Closer Look at Blood Vessels

Understanding Main Ideas

Label the diagram with the names of the three kinds of blood vessels. Then answer the following questions on a separate piece of paper.



4. After blood leaves the heart, through what kinds of vessels and in what order does blood move?
5. In which kind of blood vessel is blood pressure usually highest?
6. Which blood vessel allows diffusion through its walls?
7. What causes blood pressure?
8. What factors help blood move through veins?

Building Vocabulary

Match each term with its definition by writing the letter of the correct definition in the right column on the line beside the term in the left column.

- | | |
|--------------------------|---|
| 9. ___ coronary arteries | a. caused by the force with which the ventricles contract |
| 10. ___ diffusion | b. vessels that supply the heart itself with blood |
| 11. ___ blood pressure | c. the movement of molecules from a high concentration toward a low concentration |

Review and Reinforce

Composition of Blood

Understanding Main Ideas

Answer the following questions on a separate sheet of paper.

1. What is the function of plasma?
2. What is the function of red blood cells?
3. What is the function of white blood cells?
4. What is the function of platelets?
5. If a person with type B blood needs a transfusion, which types of blood can he or she safely receive? Explain your answer.

Building Vocabulary

Match each term with its definition by writing the letter of the correct definition in the right column on the line beside the term in the left column.

- | | |
|--------------------------|--|
| 6. ___ plasma | a. a protein that binds chemically to oxygen molecules |
| 7. ___ red blood cells | b. knobs of tissue that trap bacteria and other disease-causing microorganisms |
| 8. ___ hemoglobin | c. cell fragments that help form blood clots |
| 9. ___ white blood cells | d. carry oxygen to cells throughout the body |
| 10. ___ platelets | e. the liquid part of blood |
| 11. ___ lymphatic system | f. the body's "drainage system" |
| 12. ___ lymph nodes | g. fight infection and disease |

Review and Reinforce

Cardiovascular Health

Understanding Main Ideas

For each of the following activities, write *healthy* or *harmful* in the space provided depending on how the activities relates to cardiovascular health.

1. _____ eating foods high in saturated fat
2. _____ running
3. _____ smoking
4. _____ eating low-sodium foods
5. _____ playing basketball
6. _____ eating salty foods
7. _____ eating foods low in cholesterol
8. _____ being overweight

Answer the following questions on a separate piece of paper.

9. Why is atherosclerosis dangerous?
10. Describe how hypertension affects your heart and blood vessels. Why is it called "the silent killer"?
11. Explain how hypertension is related to atherosclerosis.

Building Vocabulary

Match each term with its definition by writing the letter of the correct definition in the right column on the line beside the term in the left column.

- | | |
|---|---|
| <ol style="list-style-type: none"> 12. ___ atherosclerosis 13. ___ heart attack 14. ___ hypertension | <ol style="list-style-type: none"> a. high blood pressure b. a condition in which an artery wall thickens as a result of a buildup of fatty materials c. an event that occurs when blood flow to part of the heart muscle is blocked, causing cells to die |
|---|---|

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