

Blood Vessels and Circulation

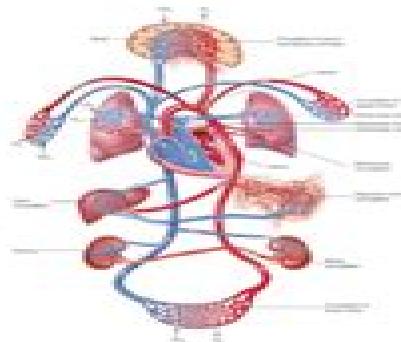
After passing from the right atrium to the right ventricle, blood is pumped into the pulmonary trunk.

The pulmonary trunk divides into the right and left pulmonary arteries, which carry deoxygenated blood to the lungs.

In the lung capillaries, CO₂ is given off, and the blood picks up O₂. Blood, now rich in O₂, flows from each lung to the left atrium.

Blood passes from the left atrium to the left ventricle. The left ventricle then pumps the blood into the aorta, which distributes the oxygenated blood through its branches to all of the body.

Blood returns from the body to the right atrium through a series of venules and veins, and the cycle continues.



Functions of the Circulatory System

Blood vessels

- form a network more complex than an interstate highway system
- carry blood to within two or three cell diameters of nearly all the trillions of cells that make up the body.
- blood flow through them is regulated, so that cells receive adequate nutrients and so that waste products are removed
- remain functional, in most cases, in excess of 70 years
- when damaged, they repair themselves

Blood vessels outside the heart are divided into two classes:

1. **Pulmonary vessels** – transport blood from the right ventricle of the heart through the lungs and back to the left atrium
2. **Systemic vessels** – transport blood from the left ventricle of the heart through all parts of the body and back to the right atrium

Together, the pulmonary vessels and the systemic vessels constitute the circulatory system.

Blood flow through the circulatory system is ensured by the pumping action of the heart. On its own, the circulatory system has five functions:

1. Carries blood
2. Exchanges nutrients, waste products, and gases with tissues
3. Transport substances
4. Helps regulate blood pressure
5. Directs blood flow to the tissues

Blood Circulation Study Guide

David A. Stetler

Blood Circulation Study Guide:

Medical Terminology: Heart (Speedy Study Guides) Speedy Publishing, 2014-07-17 The heart is made of only a few parts but they are vital to the operation of the organ A pamphlet can help a student learn about the ventricles valves arteries and other components in this vital part of the body There are pictures of the different valves as well as the chambers that the student can learn about Colors are sometimes used to give details about which way the blood flows into and out of the heart so that students can get a better idea of the circulation

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