

Anatomy and Physiology Cardiovascular System

A closed system of the heart and blood vessels

- The heart pumps blood
- Blood vessels allow blood to circulate to all parts of the body

Functions of the cardiovascular system

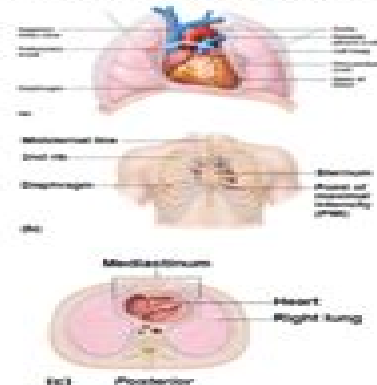
- Transport oxygen, nutrients, cell wastes, hormones to and from cells

Anatomy of the Heart

- Size of a human fist, weighing less than a pound
- Located in the thoracic cavity, between the lungs in the inferior mediastinum

Orientation

- Apex is directed toward left hip and rests on the diaphragm
- Base points toward right shoulder



Coverings of the heart

- **Pericardium**—a double-walled sac
 - o Fibrous pericardium is loose and superficial

- o Serous membrane is deep to the fibrous pericardium and composed of two layers
 - **Parietal pericardium:** outside layer that lines the inner surface of the fibrous pericardium
 - **Visceral pericardium:** next to heart; also known as the *epicardium*
- o Serous fluid fills the space between the layers of pericardium, called the *pericardial cavity*



Walls of the Heart

- **Epicardium**
 - o Outside layer; the visceral pericardium
- **Myocardium**
 - o Middle layer
 - o Mostly cardiac muscle
- **Endocardium**
 - o Inner layer known as *endothelium*

Four Chambers of the Heart

- **Atria (right and left)**
 - o Receiving chambers
 - o Assist with filling the ventricles
 - o Blood enters under low pressure
- **Ventricles (right and left)**
 - o Discharging chambers
 - o Thick-walled pumps of the heart
 - o During contraction, blood is propelled into circulation

Anatomy And Physiology Chapter 11

Brendan G. Carr



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