

### 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

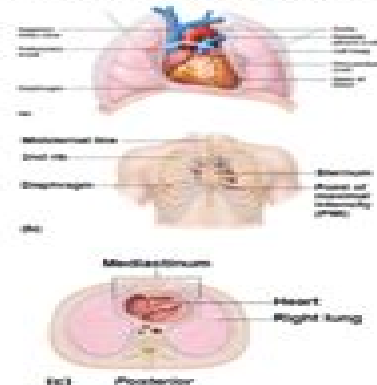
- Transport oxygen, nutrients, cell wastes, hormones to and from cells

### 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

**R Pring**



## **Anatomy And Physiology Chapter 11:**

## The Enigmatic Realm of **Anatomy And Physiology Chapter 11**: Unleashing the Language is Inner Magic

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