

The Cardiovascular System: The Heart

I. Overview of the cardiovascular system

- A. Function**
- B. Components**
 - 1. Blood**
 - 2. Blood vessels**
 - 3. Heart**

II. Heart

- A. Size**
- B. Location**
- C. Orientation**
 - 1. Apex**
- D. Coverings**
 - 1. Pericardium**
 - a. Fibrous pericardium**
 - b. Serous pericardium**
 - i. Parietal pericardium**
 - ii. Visceral pericardium**
 - iii. Pericardial cavity**

E. Wall layers

- 1. Epicardium**
- 2. Myocardium**
- 3. Endocardium**

F. Chambers

- 1. Atria**
 - a. Auricles**
 - b. Interatrial septum**
 - i. Fossa ovalis**
 - c. Coronary sulcus**
 - d. Right atrium**
 - i. Superior vena cava**
 - ii. Inferior vena cava**
 - iii. Coronary sinus**
 - e. Left atrium**
 - i. Pulmonary veins**
- 2. Ventricles**
 - a. Interventricular septum**
 - b. Anterior interventricular sulcus**
 - c. Posterior interventricular sulcus**
 - d. Papillary muscles**
 - e. Right ventricle**
 - i. Pulmonary trunk**
 - f. Left ventricle**
 - i. Aorta**

G. Blood circulation

1. Pulmonary circuit
2. Systemic circuit
3. Circulation notes

- a.
- b.

H. Valves

1. Atrioventricular valves
 - a. Tricuspid valve
 - b. Mitral valve
 - c. Chordae tendinae
2. Semilunar valves
 - a. Pulmonary valve
 - b. Aortic valve

I. Coronary circulation

1. Right coronary artery
 - a. Marginal artery
 - b. Posterior interventricular artery
2. Left coronary artery
 - a. Anterior interventricular artery
 - b. Circumflex artery
3. Cardiac veins
 - a. Great cardiac vein
 - b. Middle cardiac vein
 - c. Small cardiac vein