

a. **Right ventricle**- forms most of the heart's anterior surface.

b. **Left ventricle**- form the apex.

→ **Septum**- divides the heart longitudinally.

- **Interatrial septum**- divides the atria.

- **Interventricular septum**- divides the ventricles.

→ **Great Vessels**

Heart as single organ functions as a double pump.

a. **Arteries**- carries blood away from the heart.

b. **Veins**- carries blood toward the heart.

BLOOD VESSEL OF PULMONARY CIRCULATION

→ Right side of the heart works as pulmonary circuit pump.
→ Right ventricle pumps to the lungs and back to left atrium or the receiving chamber.

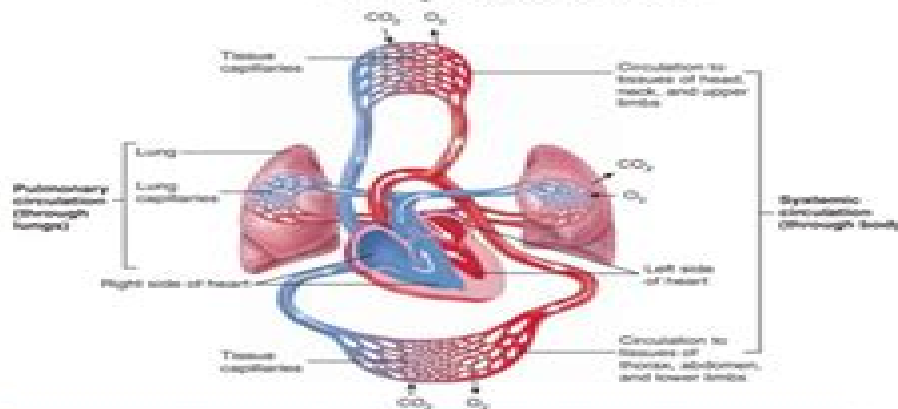
→ To carry blood to the lungs for gas exchange and return to heart.

- **Superior Vena Cava and Inferior Vena Cava**- receives oxygen poor blood from the veins of the body.

- **Pulmonary trunk**- receives the blood from the vena cavae and split into the right and left pulmonary arteries.

- **2 Pulmonary Arteries**- carry blood to lungs where oxygen is picked up and carbon dioxide is unloaded.

- **4 Pulmonary Veins**- carry oxygen-rich blood from lungs to left side of the heart.



BLOOD VESSEL OF SYSTEMIC CIRCULATION

→ Second circuit that is from the left ventricle through the body tissues and back to right atrium.

→ Supplies oxygen and nutrient rich blood to all organs.

- **Aorta**- systemic arteries branch to supply all body tissues.

- Oxygen rich blood coming from pulmonary veins to left ventricle pumped the blood into aorta.

- After the tissues received oxygen, oxygen poor blood will circulate from tissues back to right atrium via systemic veins.

HEART VALVES

→ Heart is equipped with 4 valves that allows blood only one direction through heart chambers and creates pulses.

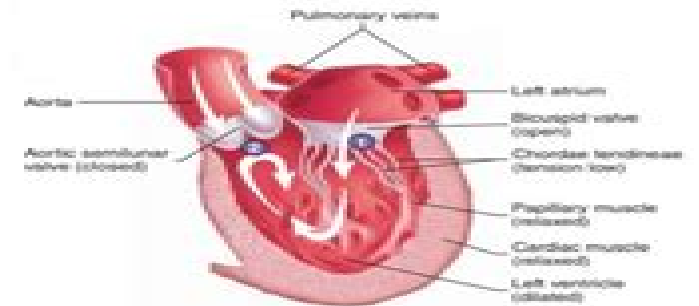
1. **Atrioventricular Valves (AV)**- located between atria and ventricles on each side.

- These prevent backflow into the atria when the ventricles contract.

a. **Bicuspid Valve or Mitral Valve**- left AV valve that consists of two cusps of endocardium.

b. **Tricuspid Valve**- right AV consists of three cusps attached to chordae tendineae which looks tiny white cords to anchor the ventricles.

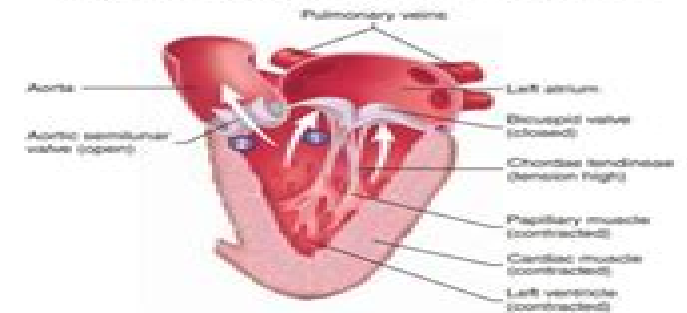
2. **Semilunar Valves**- second set of valves which guards the bases of two large arteries leaving the ventricular chambers.



(a) Valve positions when blood is flowing into the left ventricle.

1 The bicuspid valve is open. The cusps of the valve are pushed by the blood into the ventricle.

2 The aortic semilunar valve is closed. The cusps of the valve overlap as they are pushed by the blood in the aorta toward the ventricle.



(b) Valve positions when blood is flowing out of the left ventricle.

3 The bicuspid valve is closed. The cusps of the valve overlap as they are pushed by the blood toward the left atrium.

4 The aortic semilunar valve is open. The cusps of the valve are pushed by the blood toward the aorta.

– Each has three cusps that fit tightly together when closed and does not have chordae tendineae.

a. **Pulmonary Semilunar Valve**- located at left pulmonary artery.

b. **Aortic Semilunar Valve**- located in aorta.

Operation of the AV Valves

1. Blood returning to the atria puts pressure against the AV valves, the AV valves are forced to open.
2. As the ventricles fill, AV valve cusps hang limply into ventricles.
3. Atria contract forcing additional blood into ventricles.
4. Ventricle's contract forcing blood against AV valve cusps.

AV valves open; atrial pressure greater than ventricular pressure
5. AV valves close.

Operation of the Semilunar Valves

1. As ventricles contract and intraventricular pressure rises, blood is pushed up against semilunar valves, forcing them to open.
2. As ventricles relax and intraventricular pressure falls, blood flows back from the arteries, filling the cusps of semilunar valves and forcing them to close.

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Jacquelyn L. Banasik



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