



CARDIOVASCULAR SYSTEM

A presentation in anatomy by

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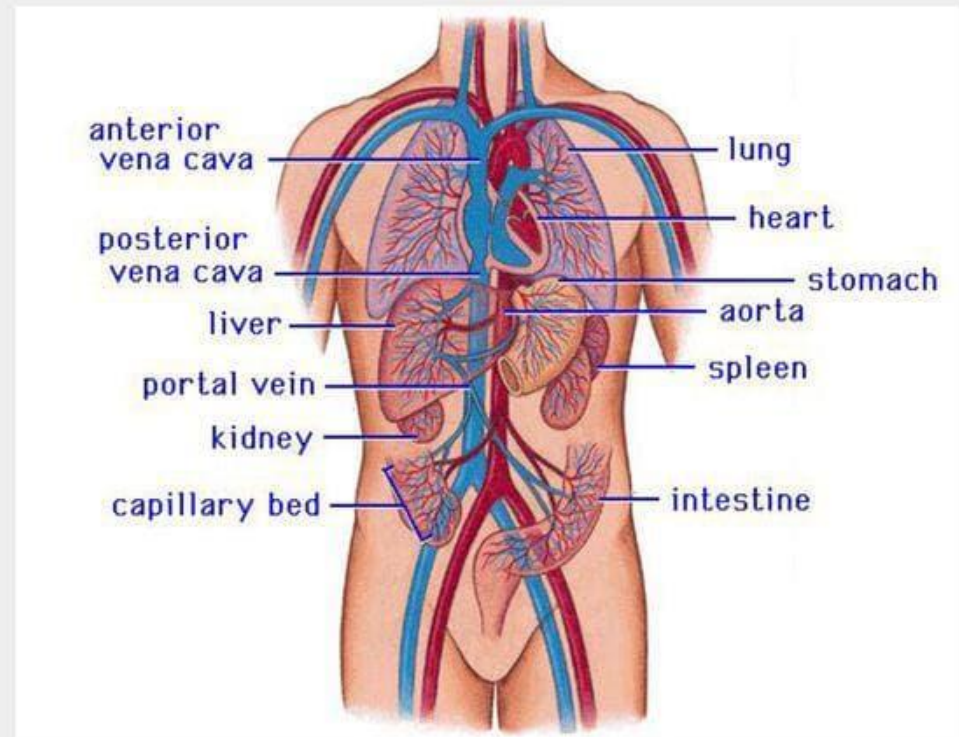
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Main Parts of the Circulatory System

Heart – the pump

Blood – fluid in which materials are transported

Vessels – Tubes to carry the blood



BLOOD VESSELS :-

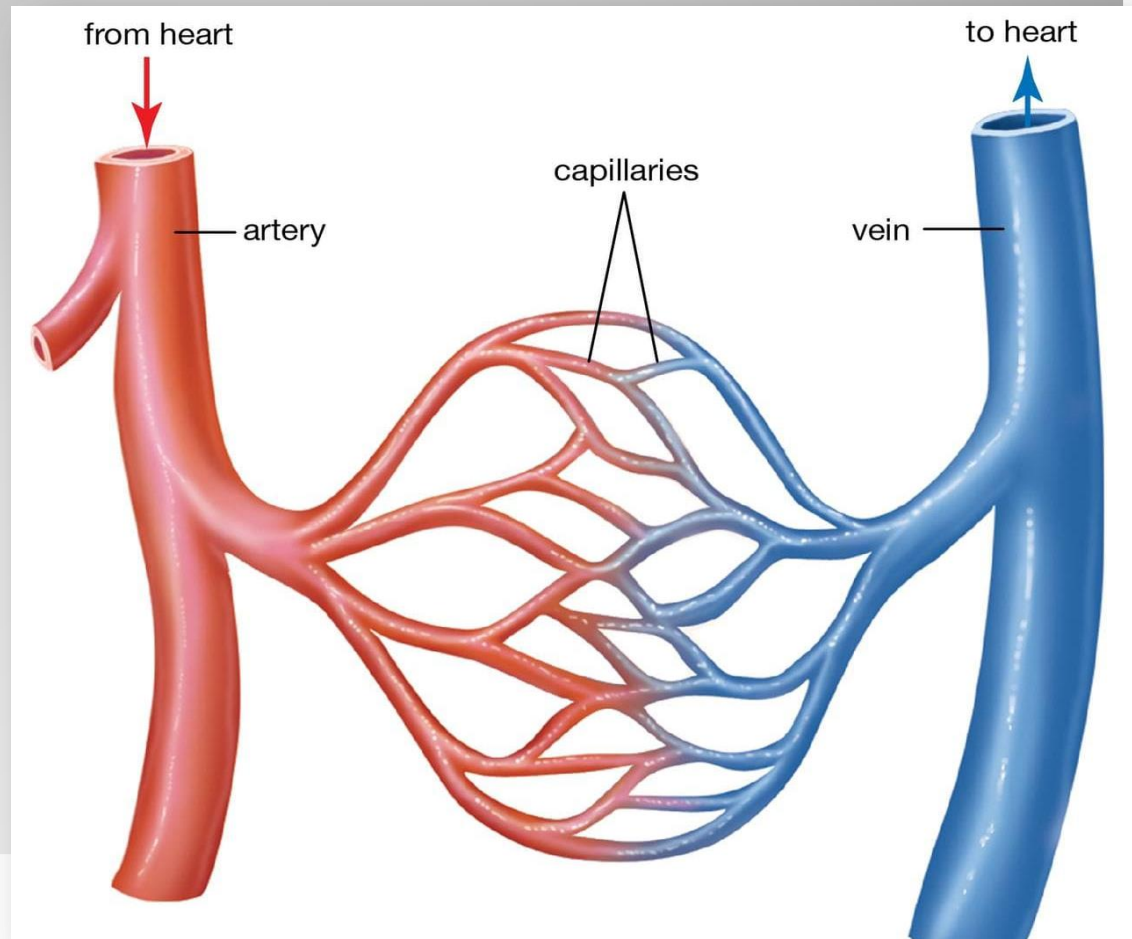
types of Blood Vessels

1. **Arteries:** Carry blood away from heart .

2. **Capillaries:**

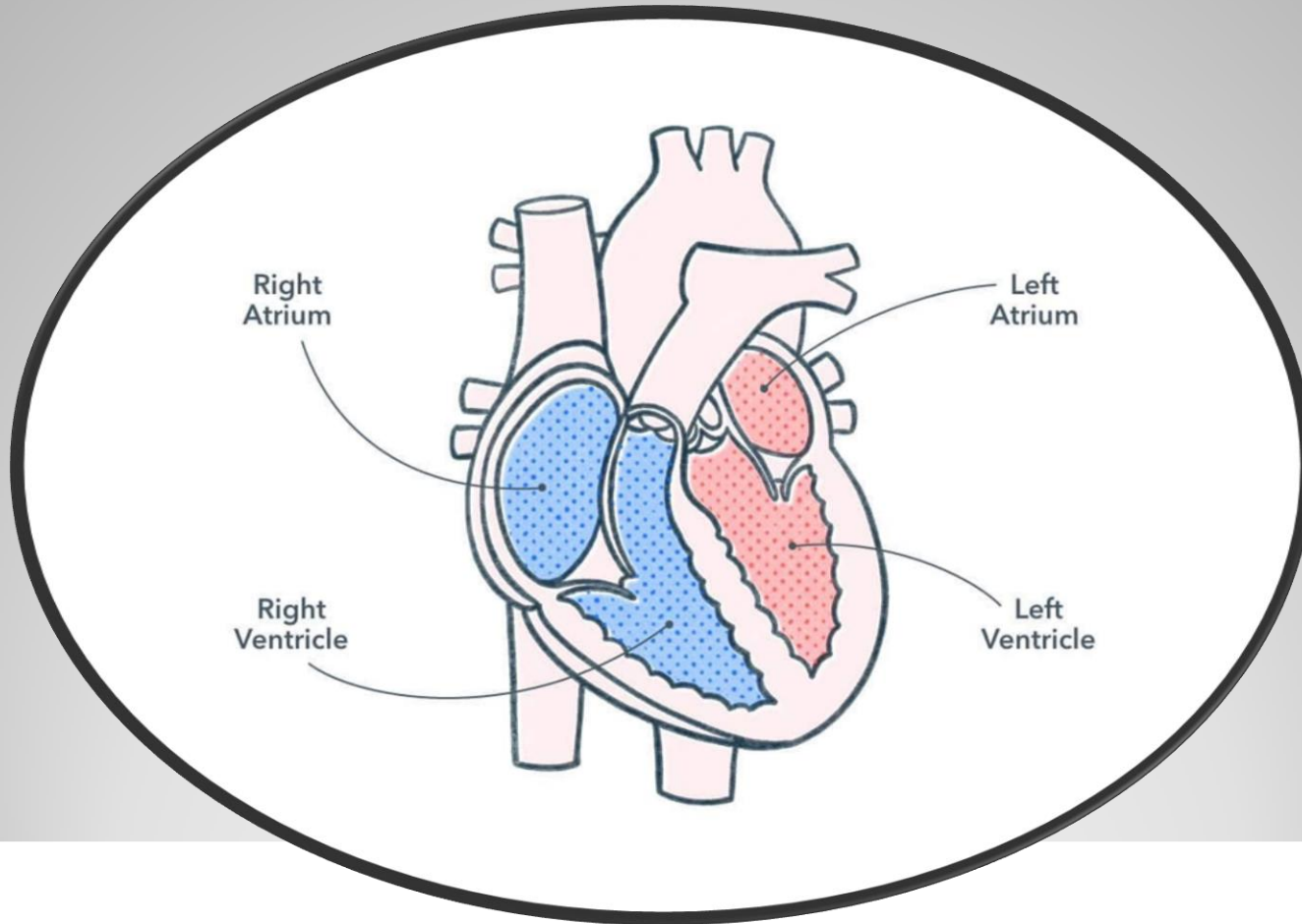
Microscopic vessels where exchange Between cells and blood takes place.

3. **Veins:** Receive blood from capillaries and carry it back to the heart.



THE HEART :-

A muscular organ that pumps the blood into blood vessels to supply the whole body.

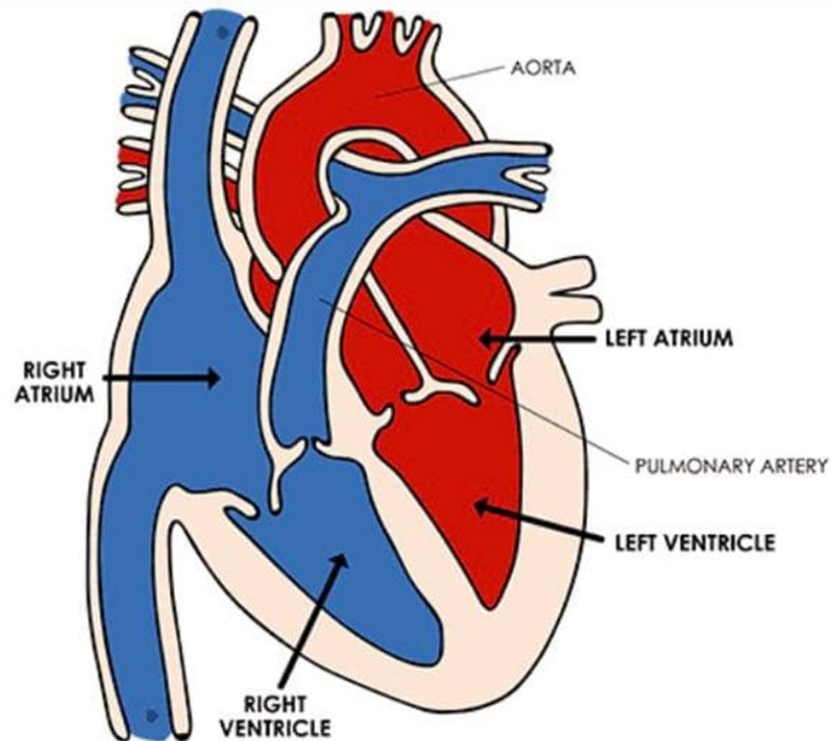


Right atrium: Receives systemic blood

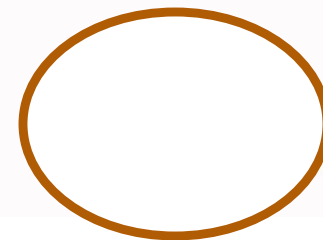
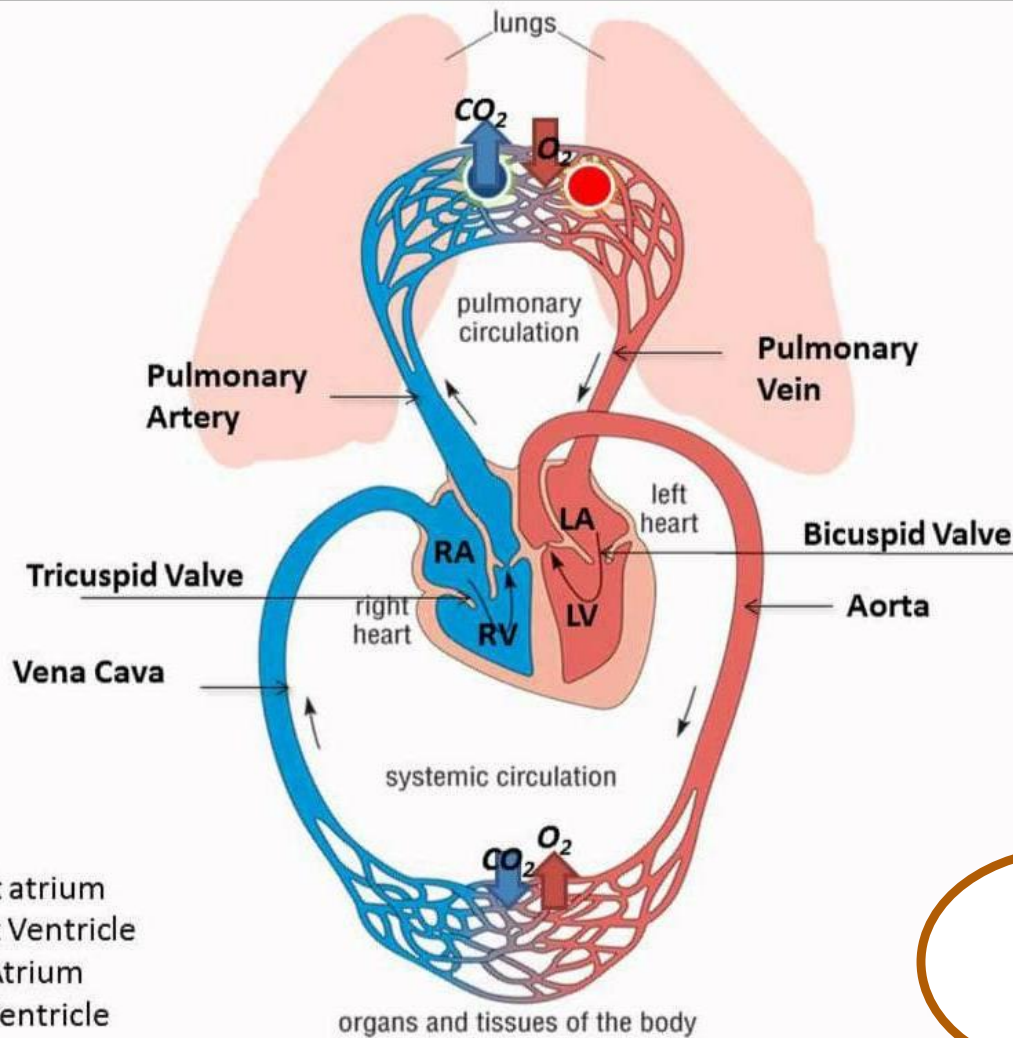
Right ventricle: Pumps deoxygenated blood to the lungs

Left atrium: Receives oxygenated blood from lungs

Left ventricle: Pumps oxygenated blood to organs



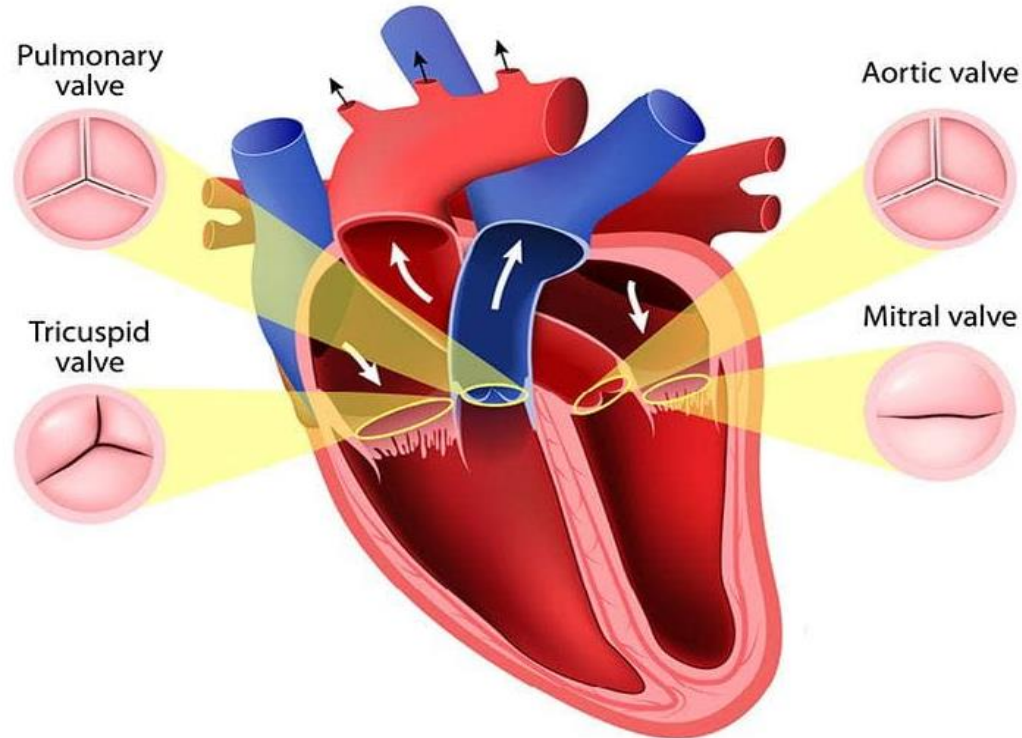
Pulmonary and systemic circulation:-



Heart valves :-

Heart valves ensure unidirectional blood flow through the heart

1. Mitral valve: between the LA and LV.
2. Tricuspid valve: between the RA and RV.
3. Aortic valve: between the LV and the aorta.
4. Pulmonary valve: between the RV and pulmonary trunk.



Posterior

Tricuspid valve

Bicuspid (mitral) valve

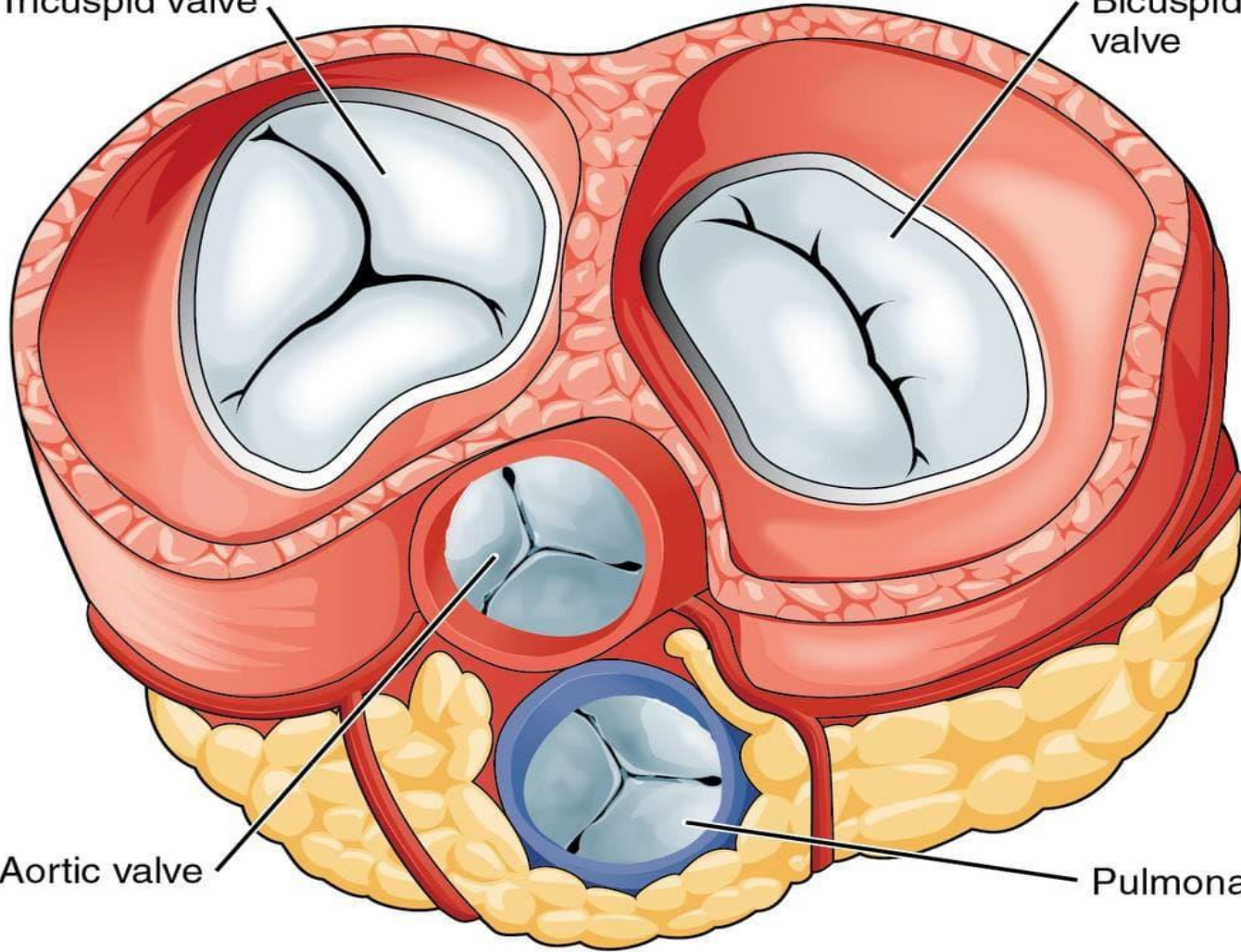
Right side of heart

Left side of heart

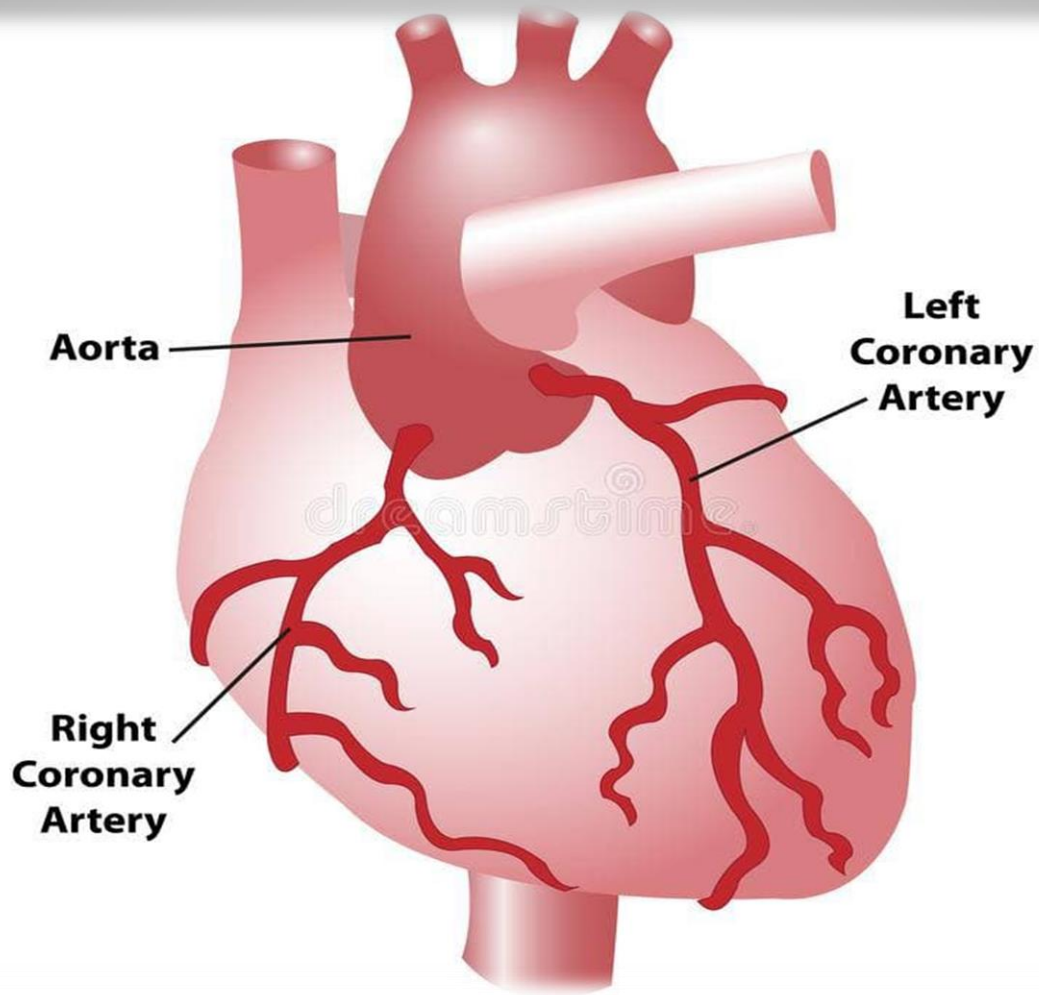
Aortic valve

Pulmonary valve

Anterior



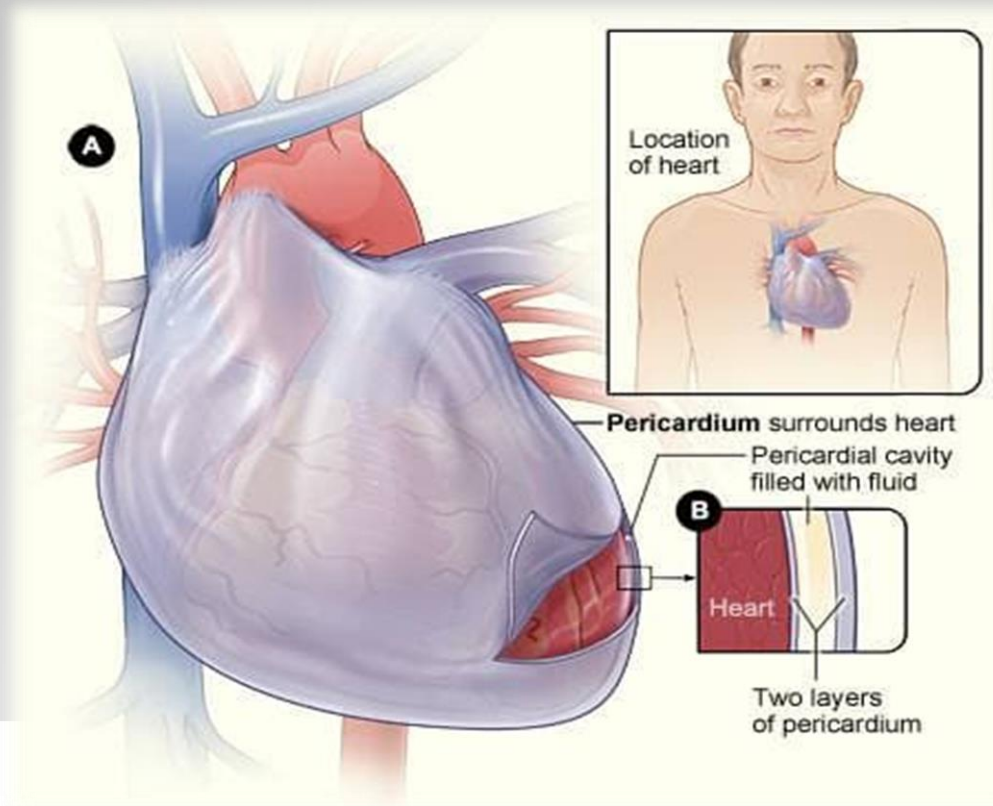
Blood supply of the heart:-



Pericardium :-

A double-walled sac surrounds the heart ; it's function :-

1. Protects the heart
2. Prevents overfilling of heart
3. Decrease the friction between heart and chest wall



THANK YOU

