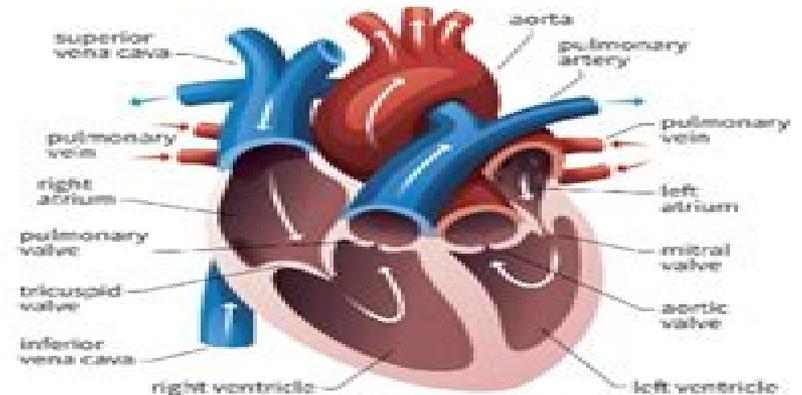


# BLOOD AND CIRCULATORY SYSTEM

## The HEART ❤️

- Blue, "right side" - blood high in CO<sub>2</sub>
- Red, "left side" - blood high in O<sub>2</sub>
- 1. **Right atrium** receives blood from body through vena cava
- 2. Goes through tricuspid valve into right ventricle
- 3. Then goes through pulmonary valve and get sent off to lungs to get oxygenated
- 4. Oxygenated blood comes through pulmonary veins into left atrium
- 5. Goes through mitral valve into left ventricle
- 6. Pumped through aortic valve through aorta and distributed to the rest of the body
- 7. Blood travels through arteries, O<sub>2</sub>
- 8. Arteries branch and get smaller and thinner capillaries to deliver O<sub>2</sub> and nutrients to every cell
- 9. Capillaries do a U-turn and start getting larger
- 10. Blood travels back to the heart in veins



- "Lub Dub" = "Lub", Tricuspid & Mitral valves slamming shut "Dub", Pulmonary & Aortic valves slamming shut as blood leaves the heart.

## 4 Valves of the Heart

1. Tricuspid - r Atrium to r Ventricle
2. Pulmonary - r Ventricle to lungs
3. Mitral - l Atrium to l Ventricle
4. Aortic - l Ventricle to rest of the body

## 3 Layers of the Heart

1. **Endocardium**: INSIDE, "skin" that lines inside of heart to prevent leakage
2. **Myocardium**: THICK, muscle layer
3. **Pericardium**: Membrane sac around the heart, protects from infection

## 3 Main structures that control heart rate:

1. **Medulla Oblongata** (the brain) sends impulses down the vagus nerve
2. Nerve impulses go to **SA node** on the upper right atrium.
3. SA node makes Atria contract.
4. Impulses go to **AV node** on lower right atrium and ventricles contract
5. (Purkinje Fibers: nerve that causes the contraction of the Ventricles)

- **Coronary Arteries**: feeds the heart O<sub>2</sub> and nutrients, wraps around heart  
- **Atherosclerosis**: If clogged, that area of the heart can't contract - "heart attack"  
Treatments: Lifestyle changes, medication, stent insertion

## Pulmonary Circulation

- Carries deoxygenated blood away from R ventricle, to lungs, and returns O<sub>2</sub> blood to the left atrium & ventricle

vs.

## Systemic Circulation

- carries oxygenated blood from the left ventricle, through the arteries, to the capillaries in the tissues of the body

# Blood And Circulatory System Study Guide Key

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