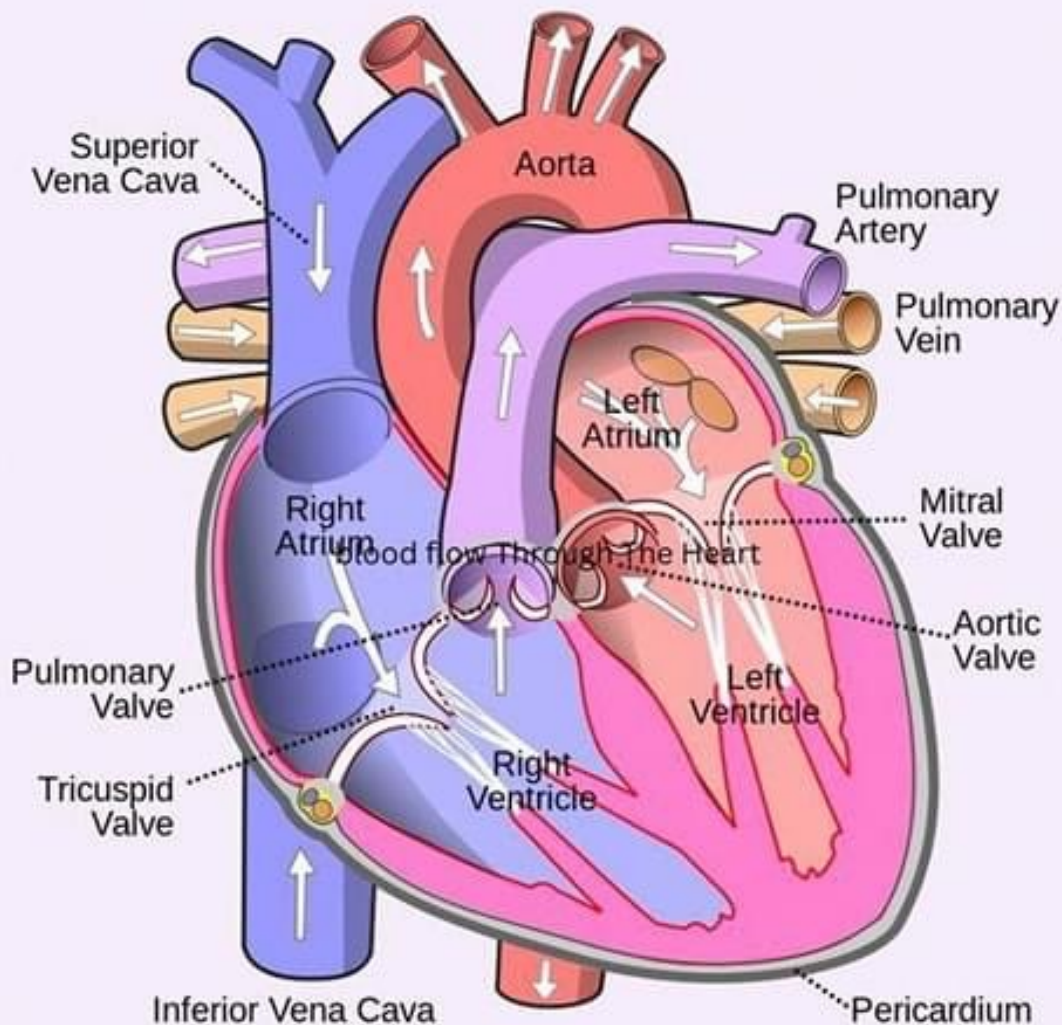


BLOOD FLOW THROUGH THE HEART

Pulmonary Circulation

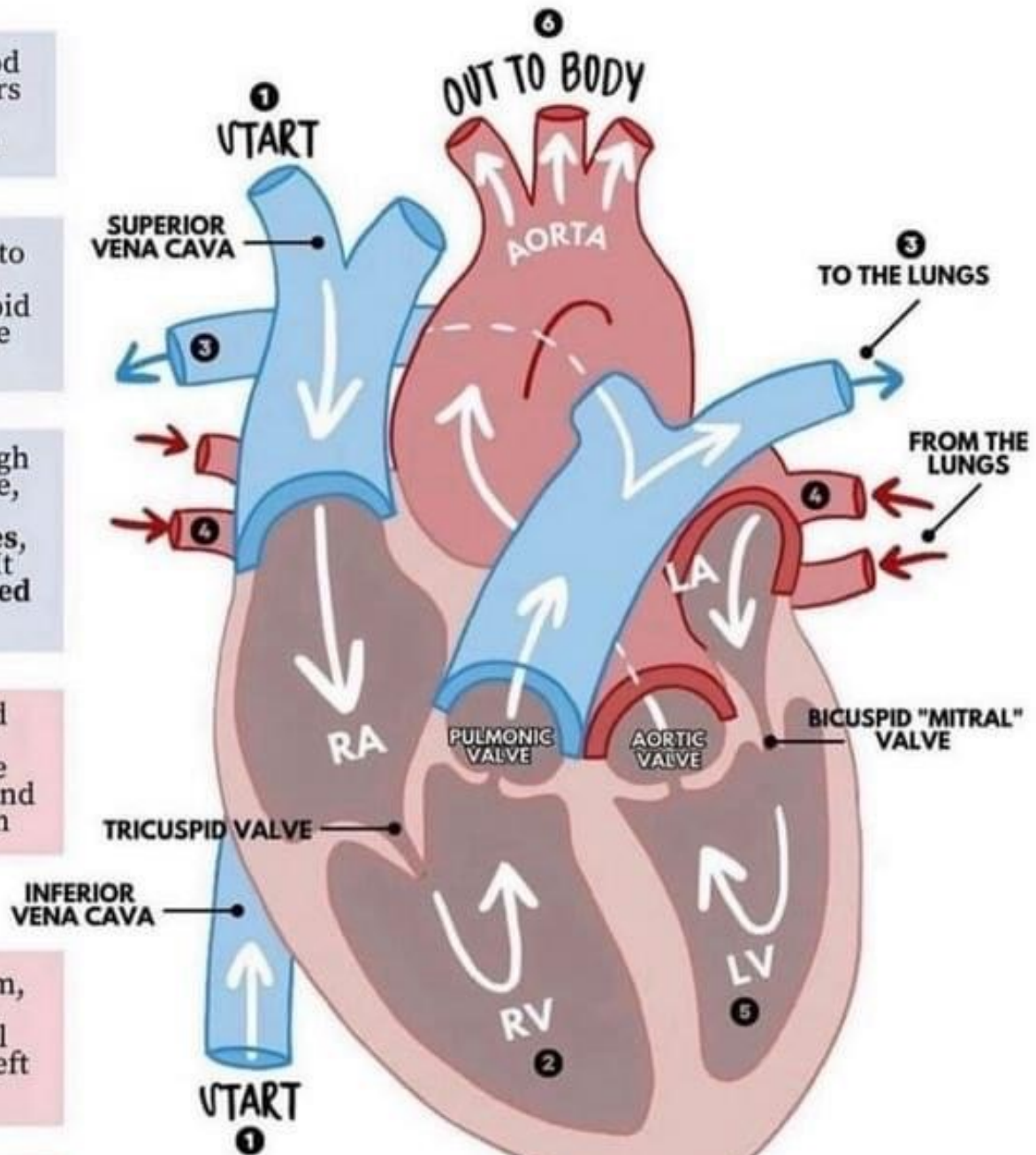
The heart is a four-chambered muscular pump that circulates blood throughout the body. Blood flow through the heart involves two main circuits: the pulmonary circulation and the systemic circulation



1. **Right atrium:** Deoxygenated blood from the body enters the right atrium through the superior and inferior vena cavae.
2. **Right ventricle:** The right atrium contracts, pumping blood into the right ventricle.
3. **Pulmonary valve:** The right ventricle contracts, pumping blood through the pulmonary valve into the pulmonary artery.
4. **Pulmonary artery:** The pulmonary artery carries deoxygenated blood to the lungs.
5. **Pulmonary capillaries:** In the lungs, blood passes through small capillaries where it is oxygenated.
6. **Pulmonary veins:** The oxygenated blood then returns to the heart through the pulmonary veins.

BLOOD FLOW PATHWAY

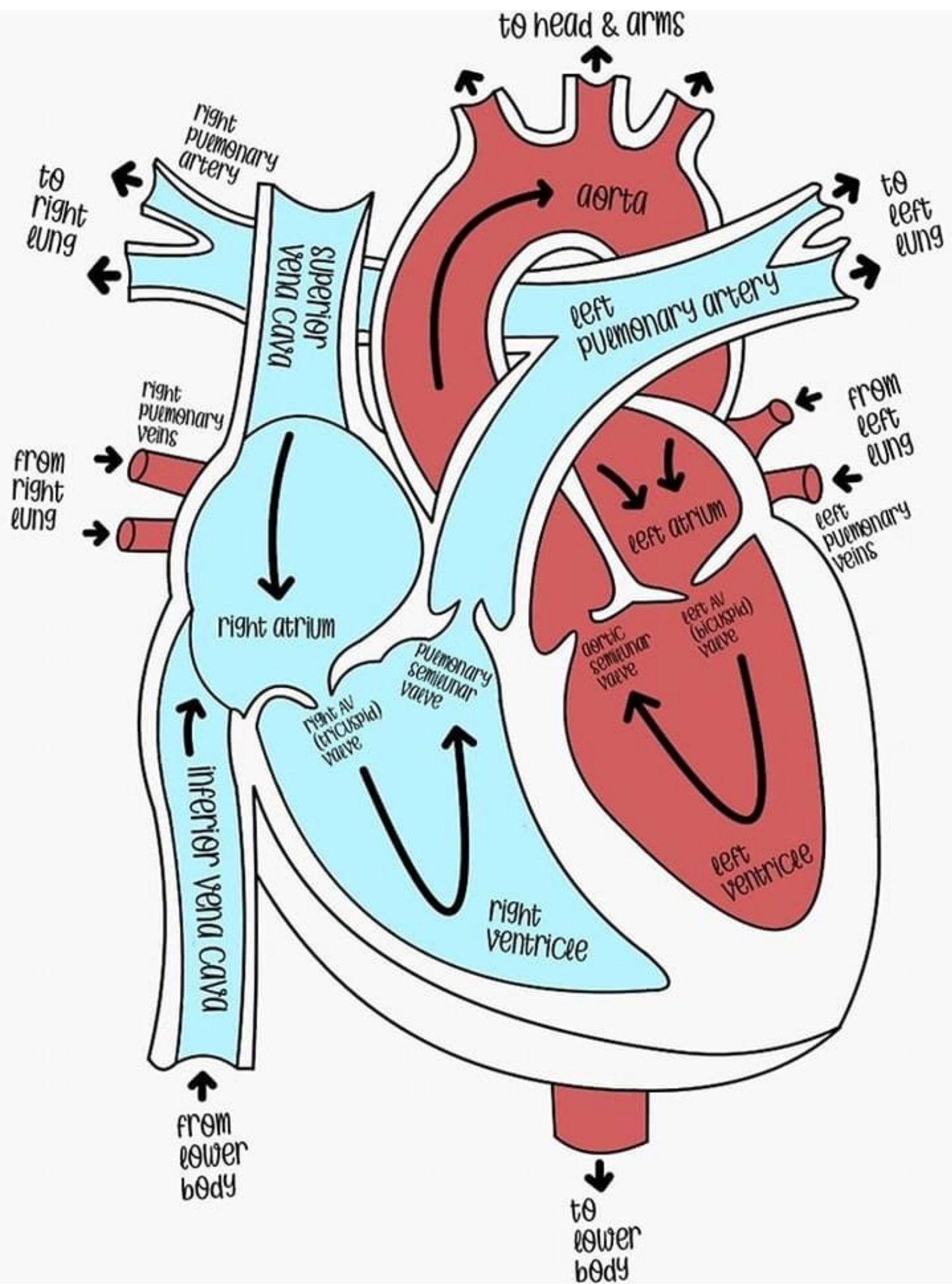
- 1** Deoxygenated blood from the body enters the superior and inferior vena cava
- 2** The blood flows into the right atrium, through the tricuspid valve, and into the right ventricle
- 3** It is pumped through the pulmonic valve, into left/right pulmonary arteries, and to the lungs. It becomes oxygenated & releases CO₂
- 4** Oxygen-rich blood travels from the lungs, through the pulmonary veins, and into the left atrium
- 5** From the left atrium, the blood moves through the mitral valve and into the left ventricle
- 6** The left ventricle pumps the blood through the aortic valve and out to the rest of the body



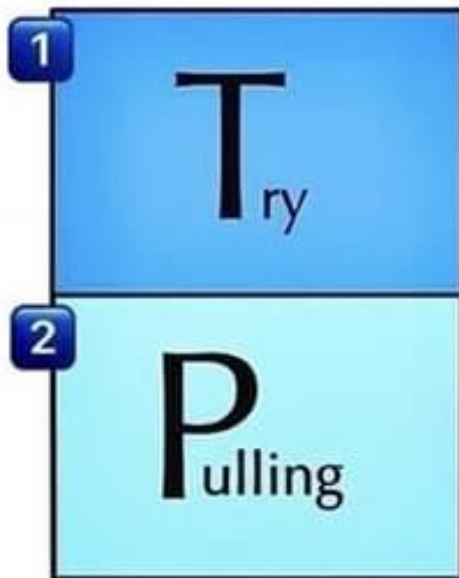
@stephaneobeggs

NOTE:

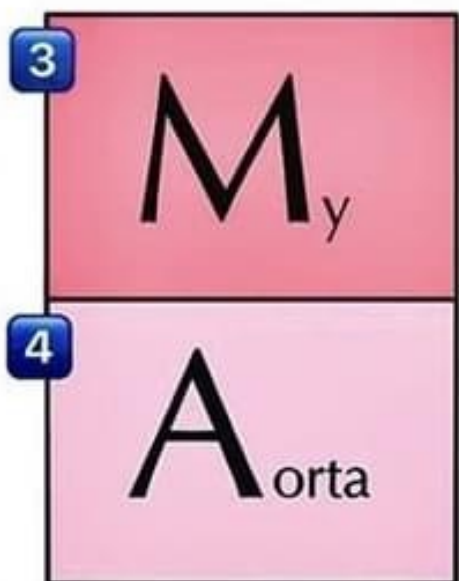
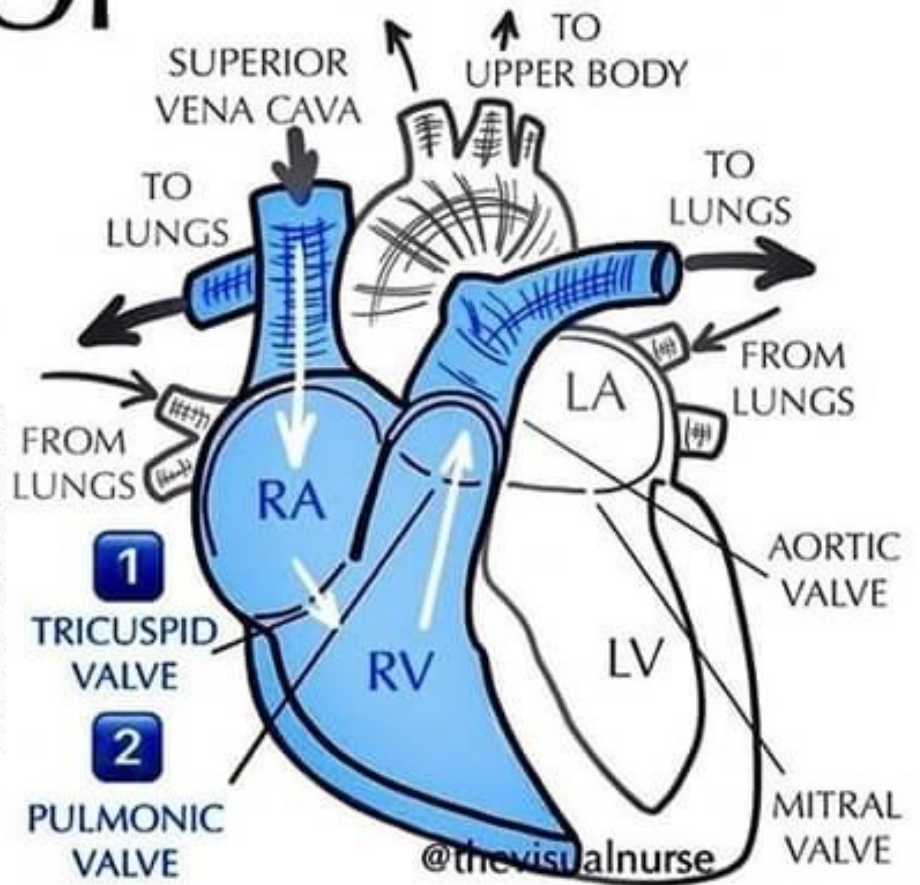
- The pulmonary ARTERIES carries deoxygenated blood to the lungs
- The pulmonary VEINS carry oxygen-rich blood to the left atria



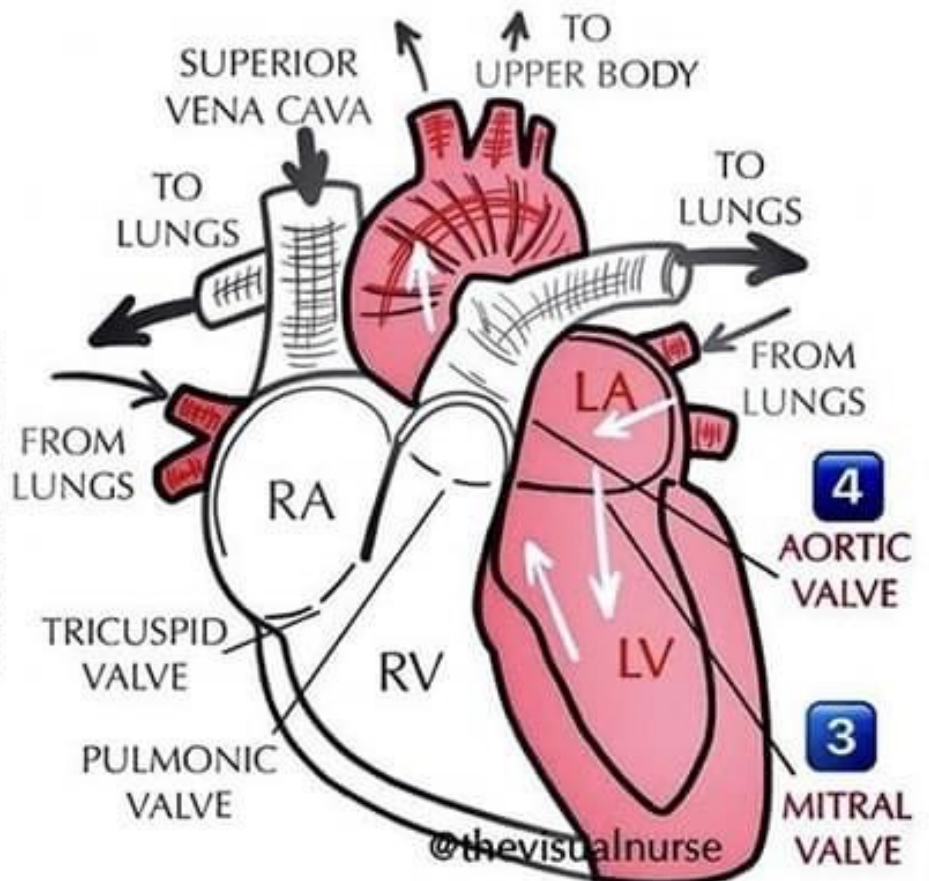
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BLOOD FLOW

