

The Cardiovascular System

The cardiovascular system includes the heart, blood and all blood vessels in the body.
The heart itself, is a major organ that propels blood through the circulatory system by pumping.
The heart is located between the lungs, in the center and a bit to the left of the body's midline.
The heart helps deliver oxygen and nutrients to the body's cells as well as carry away waste product.

4 CHAMBERS

The 2 ATRIA (Atrium is singular) are the top two chambers.
The R. Atrium receives **deoxygenated** blood from the body and the Coronary System. The L. Atrium receives **oxygenated** blood from the lungs.
The 2 VENTRICLES (ventricle is singular) are found at the bottom. The R. ventricle pushes **deoxygenated** blood towards the lungs and the L. ventricle pushes **oxygenated** blood towards the body.
The Atria have thinner walls than the ventricles and the Left ventricle in particular has the thickest wall.

4 VALVES

All 4 valves are ONE WAY VALVES that direct the blood in one direction and prevent the backflow of blood in the opposite direction.

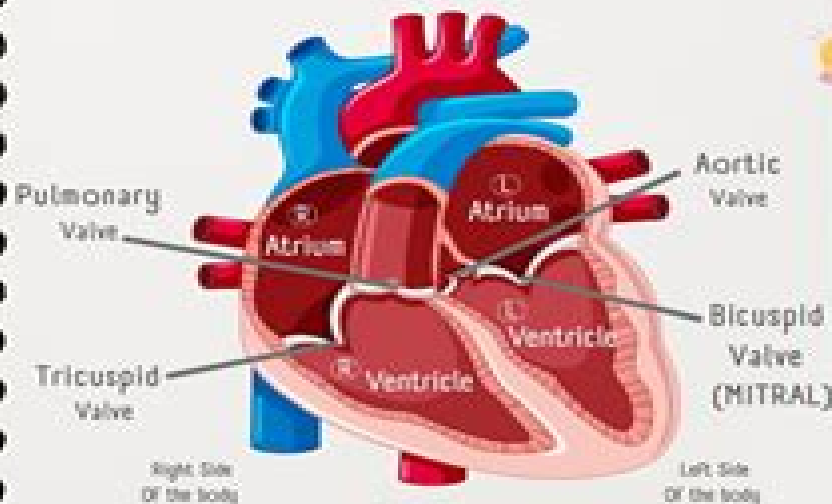
There are two categories these valves fall into, the AV VALVES AND THE SEMILUNAR VALVES.

Atrioventricular Valves (AV valves)

AV valves separate the Atria from the Ventricles they include both the TRICUSPID VALVE and the BICUSPID/MITRAL valve.

Semilunar Valves

Include both the Pulmonary Valve and Aortic Valve.



The LEFT VENTRICLE has the THICKEST wall surrounding it, because it needs such a forceful contraction to pump blood all the way around the body.
If you can imagine, it's like trying to shoot a basketball to a net that is very far.
The further you are trying to get the ball to go, the more muscle power you need.
Same with the left ventricle, it needs to pump blood all the way to the toes so the walls need to be made of the thickest muscle, so it can generate a strong contraction to shoot the blood far away.

Study Guide For Cardiovascular Certification

Nicole Kupchik



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