

ANATOMY



Systemic Circulation:
The **Aorta** carries oxygenated blood from the left ventricle to the rest of the body. It branches into arteries that lead to capillaries where oxygen is delivered to tissues. Deoxygenated blood then returns to the right atrium via the **Superior vena cava** and **Inferior vena cava**.

Pulmonary Circulation:
The **Right ventricle** pumps deoxygenated blood to the **Pulmonary artery**, which carries it to the lungs. In the lungs, carbon dioxide is exchanged for oxygen. The **Pulmonary vein** then carries oxygenated blood back to the **Left atrium**.

Heart Structure:
The heart is divided into four chambers: the **Right atrium** and **Right ventricle** on the right side, and the **Left atrium** and **Left ventricle** on the left side. The **Right ventricle** is connected to the **Pulmonary artery**, and the **Left ventricle** is connected to the **Aorta**. The **Superior vena cava** and **Inferior vena cava** enter the right atrium. The **Pulmonary vein** enters the left atrium.