

# FROM THE BEGINNING TO THE END

- Aorta
- Arteries
- Arterioles
- Capillaries of Body
- Venules
- Veins
- Vena Cava
- Right Atrium
- Right AV Valve
- Right Ventricle
- Pulmonary Artery
- Capillaries of Lungs
- Pulmonary Vein
- Left Atrium
- Left AV Valve
- Left Ventricle

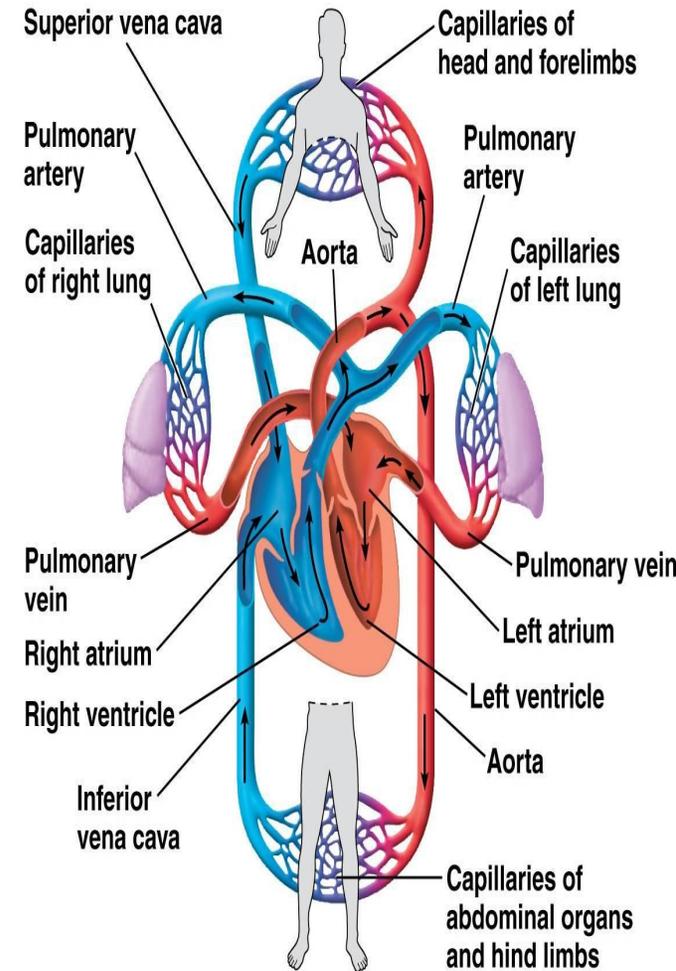
And then it all starts again!

*"Going through this tour is a great learning experience. I took my kids here on an educational trip and they absolutely loved it! They can not stop talking about it to everyone." - Stacey (mom of 4)*

## TAKING A JOURNEY THROUGH THE CIRCULATORY SYSTEM

The Circulatory system is responsible for transporting materials throughout your body. These materials can include nutrients, water, and oxygen to your billions of body cells. This is an amazing journey that travels through your entire body connecting all of your cells.

*"Going through this tour has helped me learn a lot about the circulatory system that I didn't know. I loved seeing all the different parts to it through this tour!" -Melanie (age 12)*



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## CIRCULATORY SYSTEM

### CRUISING WITH A BLOOD CELL



## Pulmonary Circulation

Blood transport to the lungs is also important. Blood will be pumped from the right ventricle of the heart to the lungs via the pulmonary artery. The pulmonary artery is the only artery in the body that doesn't carry blood to the body—it goes to the lungs. In the lungs, blood will flow through the blood vessels until they reach the small capillaries.

Alveoli are the site of oxygen and carbon dioxide exchange. In the lungs, carbon dioxide (the waste product of respiration) is exchanged with fresh oxygen from the alveoli of the lungs. Alveoli will appear like a cluster of grapes in the lungs.

After oxygen is exchanged in the alveoli, the blood cell will travel back to the left atrium via the pulmonary vein.

## GOING THROUGH THE HEART

After you enter and go through the aorta, you will start to go through the many different arteries. An artery carries your blood away from the heart. Which will take you on the rest of your tour. Without the arteries, your blood will not be able to travel anywhere, and you would not be able to continue your tour. Next, you will go through your capillaries. The capillaries are the smallest vessels carrying blood to all organs of your body. The capillaries will also get you to the rest of your tour. Next you will go through your veins and the vena cava. Your veins are very small and will carry your blood back towards the heart. The vena cava, however, is a large vein that allows blood to enter your heart. After the veins and the vena cava, you will enter the right atrium. The right atrium brings in blood from the vena cava and allows oxygen to enter and carbon dioxide exit. You then will go through the right AV valve and enter the right ventricle. The right AV valve lets the blood travel from the right atrium to the right ventricle. The right ventricle then sends the blood to the lungs via the pulmonary artery. Then you will go through the pulmonary artery and the capillaries of the lungs. After that, the pulmonary vein will take you to the left atrium. The left atrium allows the blood return from the lungs. Then you will go through the left AV valve which will take you to the left ventricle. The left ventricle pumps the blood to the rest of your body out of your heart. And then the process starts all over again.

## STARTING THE TOUR

This tour will be making various stops in the circulatory system, including pulmonary and systemic circulation.

The major parts of the circulatory system include the following:

**Arteries**—Arteries carry blood away from the body. This blood is oxygenated.

**Veins**—Veins carry blood back to the heart. This blood is oxygenated.

**Heart**—The heart is the major organ responsible for human life. The heart contains 4 chambers (Left/Right Atria, Left/Right Ventricles). Blood enters the heart in the right atrium and leaves via the left ventricle.

**Pulmonary Circulation**—This is circulating blood from the heart to the lungs to become oxygenated. The lungs contain alveoli, which is the site where oxygen and carbon dioxide are exchanged.

### Set up a tour day now!

Just simply call our office!  
(999)-555-8888

We are located at...  
5000 Blood Street, HeartVille, Lungstania 17777.

Come visit and learn a lot about your CIRCULATORY SYSTEM!!!