

Nov 6, 2019

- 1) Blood Quiz
- 2) Systemic vs Pulmonary Circulation

Test Monday Nov 18th on Circulatory System!!

Warm-Up

It takes blood to circulate the entire body

Blood Quiz

How does oxygen get in the blood?

The main job of the circulatory system is to pump blood carrying oxygen around the body. So how does oxygen get in the blood?

It must be pumped to the lungs and this happens separately from the rest of the body.

Circulation

There are two circulatory systems:

Pulmonary - the pathway of blood between the heart and the lungs

Systemic- the pathway of blood between the heart and all other parts of the body except the lungs

Pulmonary Circulatory System

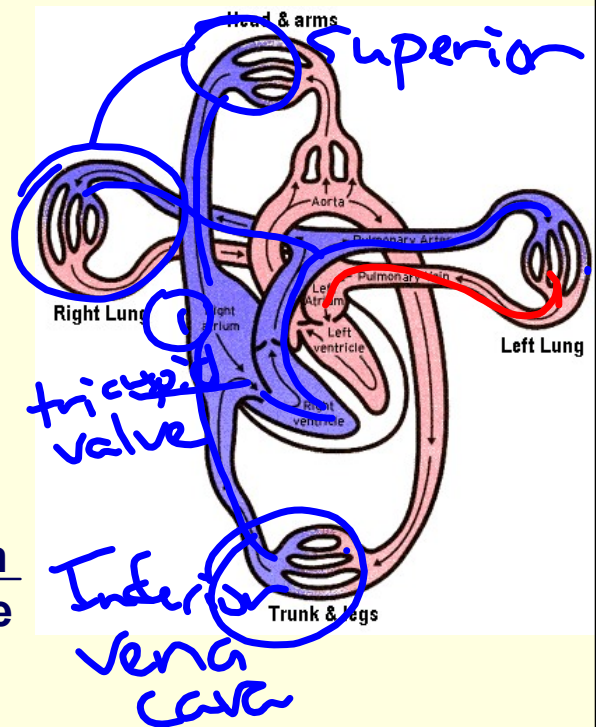
Deoxygenated blood or oxygen poor blood (no oxygen, high in CO₂)

returns from the body through the superior (head, chest and arms) and inferior (lower body regions) vena cava and enters the right atrium.

It moves through the right atrium through the tricuspid valve to the right ventricle.

The right ventricle pumps blood through the pulmonary artery, which leads to the lungs.

In the lungs, the blood gives up carbon dioxide and picks up oxygen and returns back to the heart through the pulmonary veins.



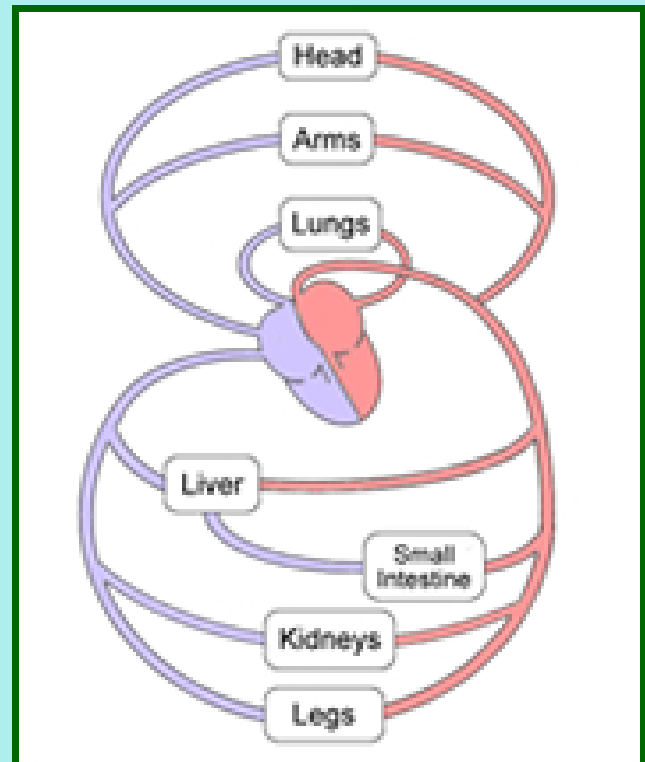
Systemic Circulatory System (sending blood from the heart to the rest of the body)

Oxygenated blood (with oxygen in it) passes from the left atrium through the bicuspid valve into the left ventricle.

The left ventricle pumps blood to the aorta.

The aorta branches into smaller arteries, which go to all parts of the body. Where it gives up oxygen and picks up carbon dioxide.

Veins return the blood to your heart from the body into the right atrium.



— Superior & Inferior Vena Cava

Attachments

Biology 113 blood vessel assignment.doc

Maintaining_a_Healthy_Heart_and_Circulatory_System.asf