

Circulatory System

Blood Flow

DHO8 7.8, pg. 190

Objectives:

1. Identify and discuss the structures and functions of the cardiovascular system and their role in maintaining homeostasis.
- d. Describe pulmonary and systemic circulation.

Review cardiac information!

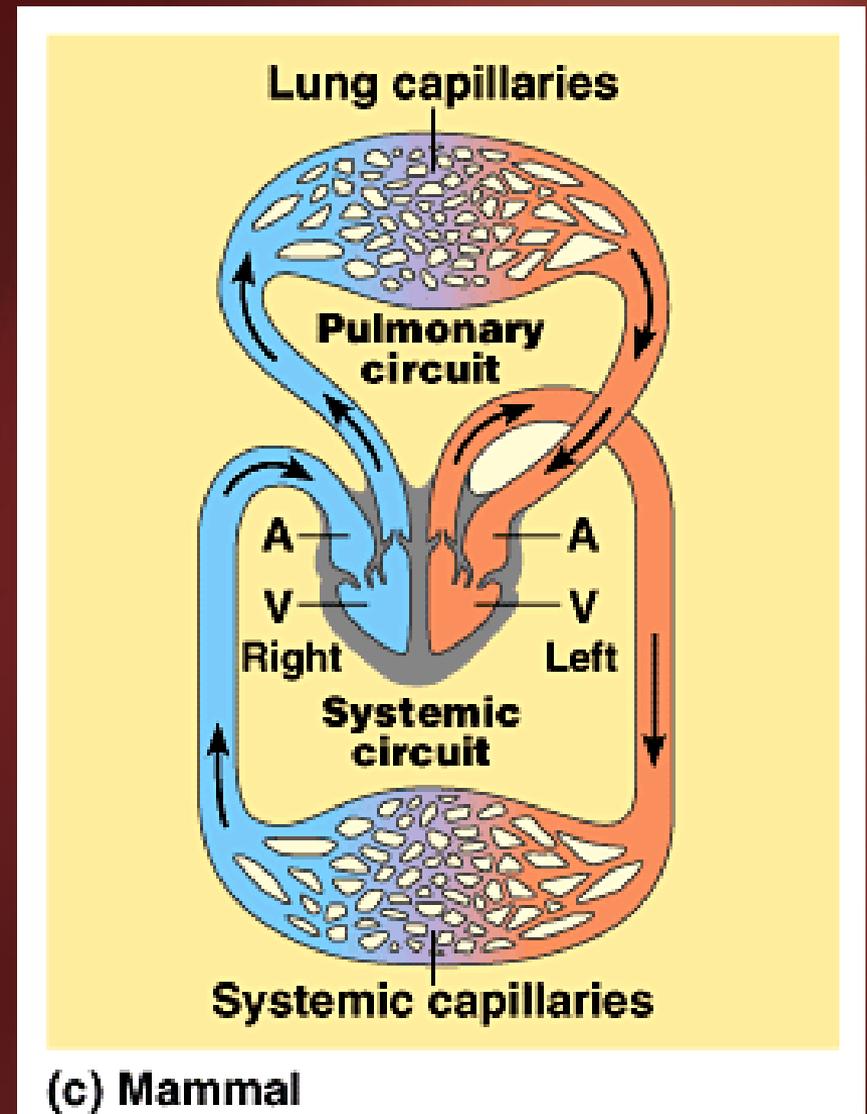
- ▶ www.youtube.com/watch?v=z4EqyyIf2_4&t=34s

- **Pulmonary circuit**

- The blood pathway between the right of the heart, to the lungs, and back to the left side of the heart.

- **Systemic circuit**

- The pathway between the left side of the heart, to the body, and back to the right side of the heart.



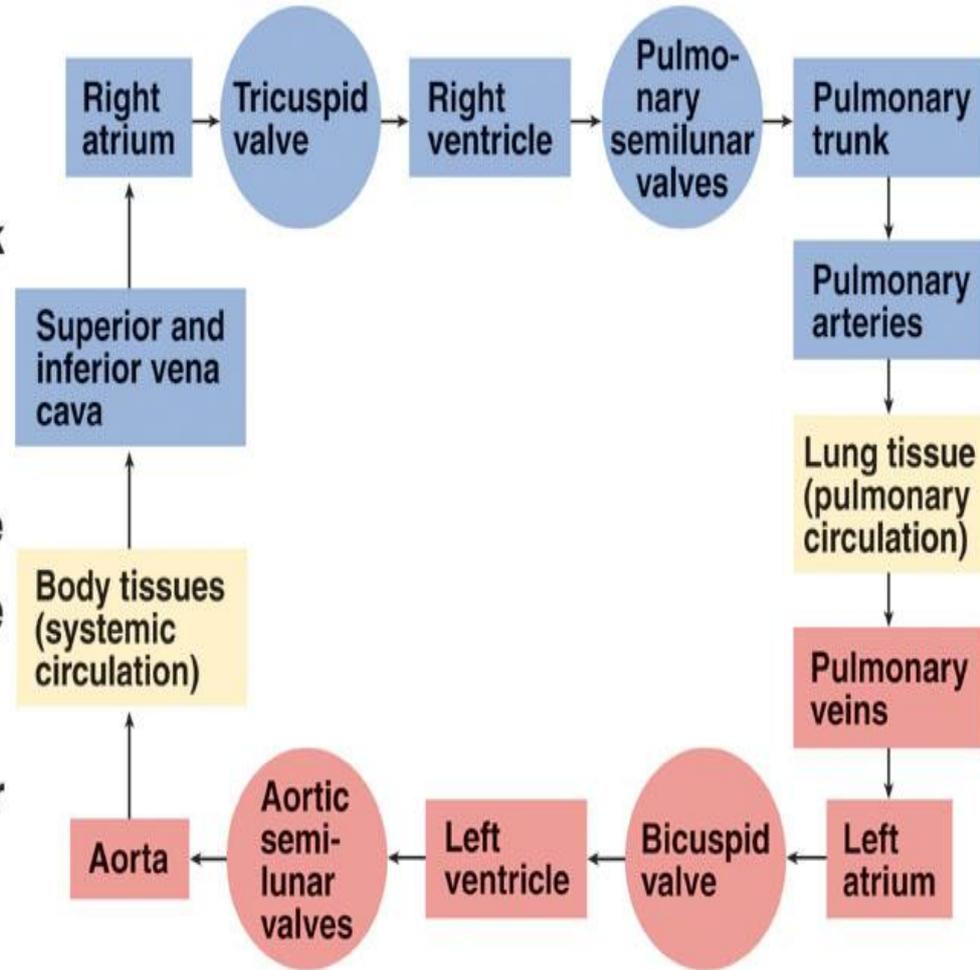
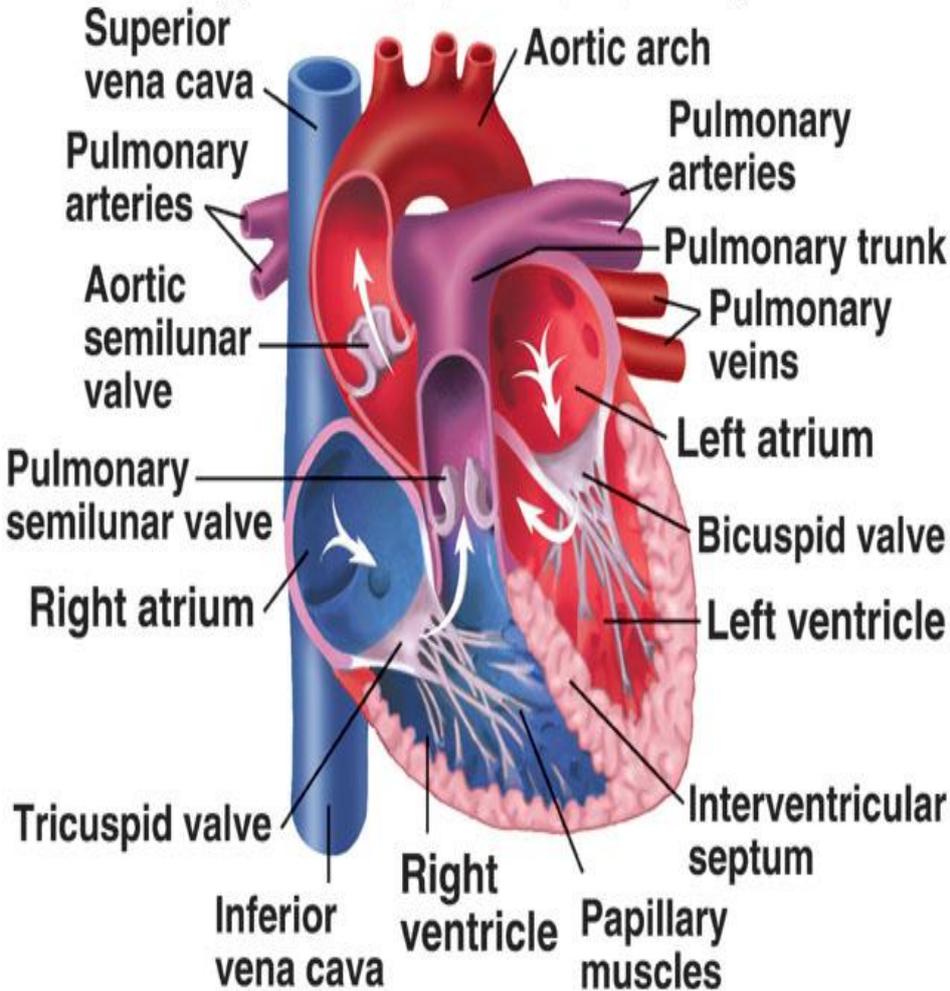
The Pathway of Blood

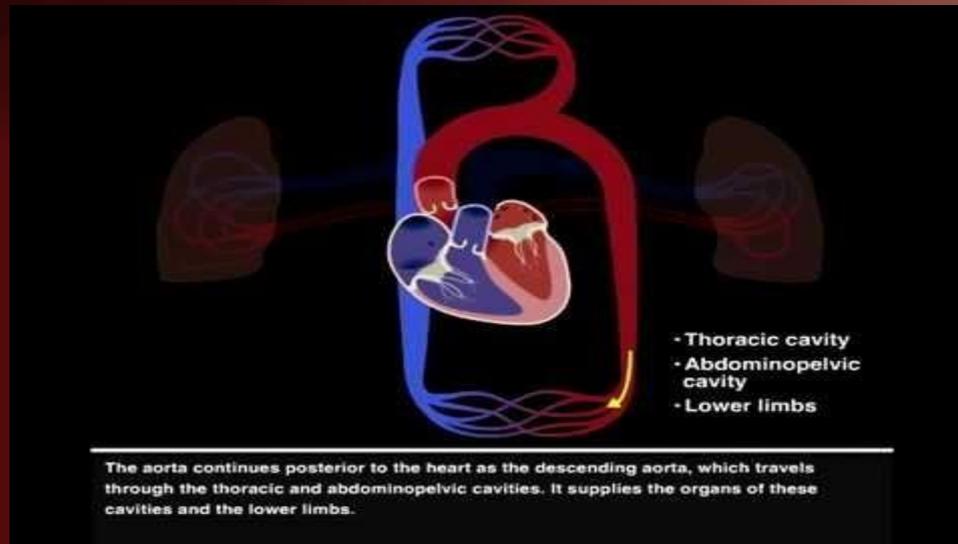
- **Superior & Inferior Vena Cava**
- **Right Atrium**
- **Tricuspid Valve**
- **Right Ventricle**
- **Pulmonary Semilunar Valve**
- **Pulmonary Artery**
- **Lungs**
 - **Pulmonary Arterioles**
 - **Pulmonary Capillaries**
 - **Pulmonary Venules**
- **Pulmonary Vein**
- **Left Atrium**
- **Mitral Valve**
- **Left Ventricle**
- **Aortic Semilunar Valve**
- **Aorta**
 - **Arteries**
 - **Arterioles**
 - **Capillaries**
 - **Venules**
 - **Veins**

Blood Flow Through Heart

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Do You Know?

- **When blood leaves the left atrium, where does it go next?**
 - a) Aorta**
 - b) Left ventricle**
 - c) Right atrium**
 - d) Pulmonary artery**

And the answer is....B

Do You Know?

- **After blood leaves the right atrium, what valve prevents the back flow?**
 - a) Pulmonary**
 - b) Mitral**
 - c) Tricuspid**
 - d) Aortic**

And the answer is...C

Do You Know?

- **The right ventricle is the chamber of the heart that pumps blood for the pulmonary circulation. Based on this information, blood from the right ventricle is on its way to the _____.**

- a) Liver**
- b) Lungs**
- c) Hands and feet**

And the answer is...B

- Which of the following is correct order of blood flow for the right side of the heart?
 - a) RA, Tricuspid valve, RV, PSLV, pulmonary artery
 - b) RA, PSLV, RV, Tricuspid valve, pulmonary artery
 - c) RA, Tricuspid valve, RV, pulmonary artery , PSLV

And the answer is...A

- **Which of the following is correct order of blood flow for the left side of the heart?**
 - a) LA, Bicuspid valve, LV, ASLV, aorta**
 - b) LA, ASLV, LV, Bicuspid valve, aorta**
 - c) LA, Bicuspid valve, LV, ASLV, aorta**

And the answer is...C