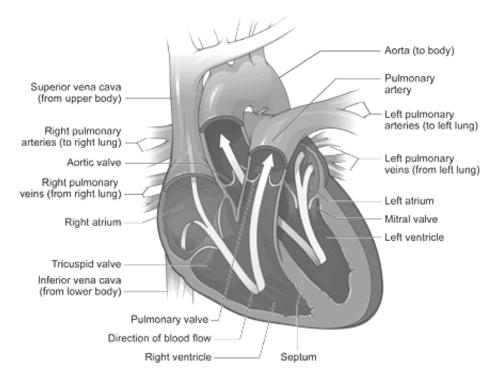
The Circulatory System



Heart

- Vena cava blood comes into your heart
- Right Atrium first chamber of the heart
- Tricuspid valve The valve between the right atrium and right ventricle
- Right Ventricle The very muscular chamber that pumps blood to the lungs
- Semi Lunar valve The valve between the right ventricle and pulmonary artery that keeps blood from going back into the heart
- Pulmonary artery takes blood from the heart to the lungs
- Pulmonary vein takes blood back to the left atrium of the heart
- Left atrium the chamber that oxygenated blood enters when it returns to the lungs
- Bicuspid valve The valve between the Left Atrium and Left Ventricle
- Left Ventricle Muscular chamber that pushes blood through the body
- Semi lunar valve The valve that keeps blood from going back into the left ventricle

• Aortic arch - the large major artery that all the other arteries in the body receive blood

Circulation

- Cardiovascular Heart and vessels
- Pulmonary circulation Circulation to the Lungs
- Systemic circulation –Circulation to the body
- Renal circulation Circulation to the kidneys
- Portal circulation Circulation to the digestive systems
- Coronary Circulation Circulation to the heart

Blood Vessels

- Arteries carry blood away from the heart
- Capillaries are microscopic vessels that attach arteries to
- Veins take blood back to the heart

Blood Pressure

- The result of the heart contractions putting pressure on the arteries
- Systolic pressure is the pressure when the heart contracts and blood is forced in the arteries
- Diastolic pressure is the pressure in the arteries when the heart is relaxed.
- Control of the blood pressure is in the walls of the arteries.

Cardio Vascular disease.

- Arteriosclerosis a condition caused by fatty deposits on the arterial walls
- Hypertension increase in blood pressure

Blood

- Functions of Blood
 - Carries Oxygen and removes CO₂ from the blood
 - Carries waste to the kidneys
 - Transports nutrients
- About 8% of your body mass
- Parts of your blood
 - Plasma liquid portion of the blood
 - Hematicrit portion of the blood

- Red blood cells that carry oxygen
 - Hemoglobin is the protein in the blood that helps it to carry oxygen
- White Blood cells fight off disease
- Platelets are irregular shaped cell fragments that help clot the blood

Blood types

- A, B, AB, and O
- Type A
 - Antigen A
 - Antibody B
- Type B
 - Antigen B
 - Antibody A
- Type AB
 - Antigen A&B
 - No Antibodies
- Type O
 - No Antigens
 - Has Antibodies A&B

Transfusions

- Type A Can receive A&O Can Donate to A&AB
- Type B Can receive B & O Can Donate to B&AB
- Type AB Can receive from all Can Donate to AB
- Type O Can receive for O Can Donate to all

Rh Factor -

- Is the Rh protein in the blood
- Erithroblastosis fetalis

Blood disorders

- Anemia
- Leukemia

- Hemophilia
- Lymphatic System Page 644

The Lymphatic System -

- collects this fluid from body tissue spaces and returns it to the blood through a system of lymph capillaries and larger lymph vessels.
- Contains cells lymphocytes that help your body defend itself
- Lymphatic organs
 - Lymph Nodes small structures through out the body that filter out microorganisms and foreign materials
 - Tonsils
 - Thymus
 - Spleen
- Diseases of the lymph system
 - HIV
 - Lymphoma