

THE HEART

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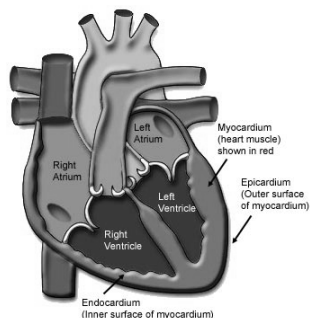
CIRCULATION OF THE HEART

- Circulation
- Heart
- Average about 72 beats per minute
- Beating of the heart is affected by the emotions
- Slightly bigger than a person's fist
- Apex
- Base

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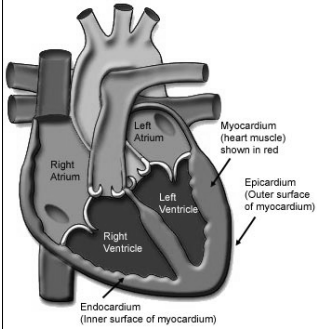
STRUCTURE OF THE HEART

- Endocardium
- Myocardium
- Epicardium
- Pericardium
- Divisions of the heart
 - Pulmonary circuit
 - Systemic circuit



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FOUR CHAMBERS OF THE HEART

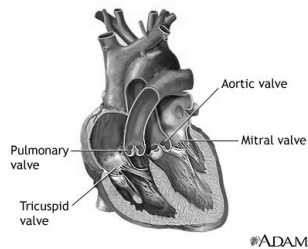


- Right Atrium
- Right Ventricle
- Left Atrium
- Left Ventricle
- Septum
 - Interatrial Septum
 - Interventricular Septum

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FOUR VALVES OF THE HEART

- Atrioventricular Valve
 - Tricuspid Valve
 - Mitral Valve
- Semilunar Valve
 - Pulmonary Valve
 - Aortic Valve



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FUNCTION OF THE HEART

- Systole
- Diastole
- Cardiac Cycle
- Cardiac Output
- Stroke Volume

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FUNCTION OF THE HEART (cont'd)

Heart's Conduction System

- Nodes
- Sinoatrial Node (Pacemaker)
- Atrioventricular Node
- Atrioventricular Bundle (Bundle of His)
- Purkinje Fibers
- Internodal Pathways
- Sinus Rhythm

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CONTROL OF THE HEART RATE

- Heart rate can be influenced by the nervous system, hormones, and other factors of the internal environment
- Sympathetic Nervous System – increases heart rate
- Parasympathetic Nervous System – decreased the heart rate – homeostasis
- Vagus Nerve
- Variations in Heart Rate
 - Bradycardia
 - Tachycardia
 - Sinus Arrhythmia
 - Premature Beat

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SOUNDS OF THE HEART

- Murmurs
 - Organic Murmur
 - Functional Murmurs

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