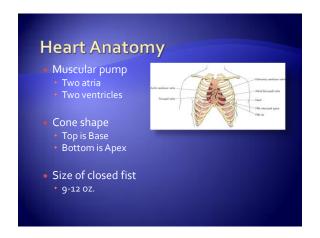
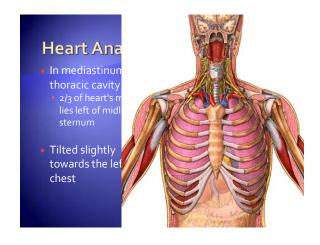
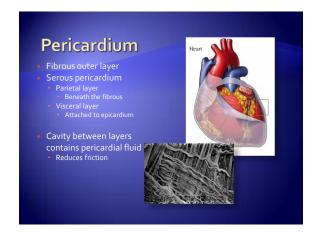
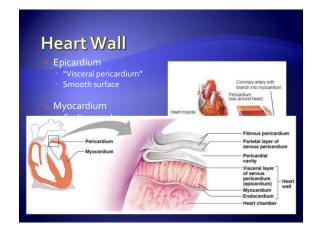


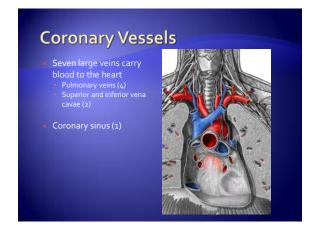
Heart Anatomy It beats over 100,000 times a day to pump over 1,800 gallons of blood per day through over 60,000 miles of blood vessels. During the average lifetime, the heart pumps nearly 3 billion times, delivering over 50 million gallons of blood!

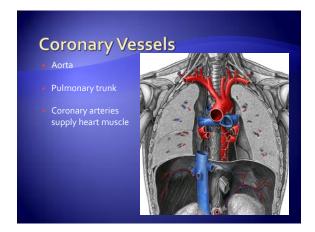




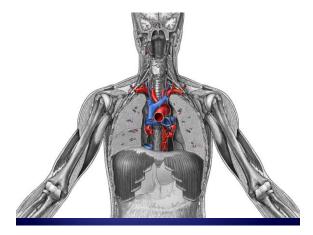






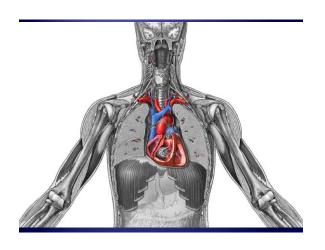


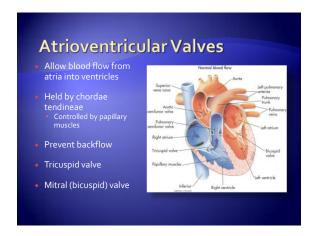


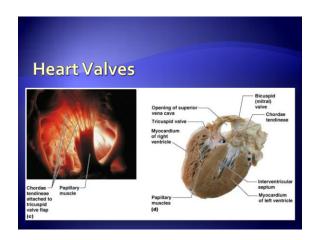




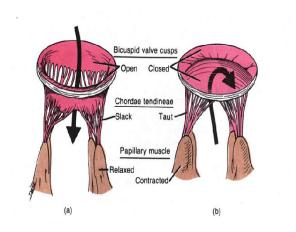


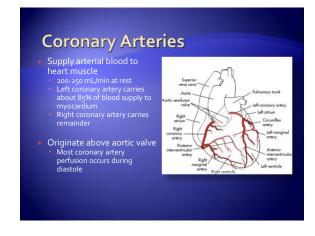


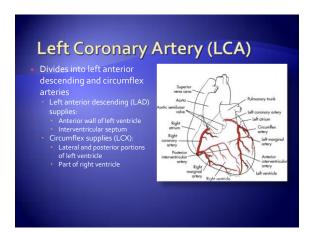


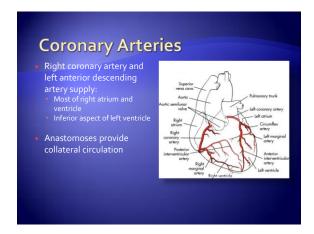


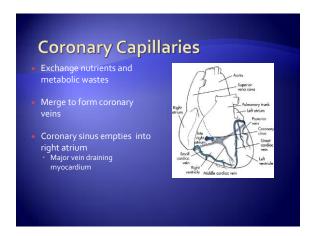


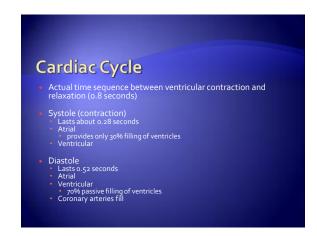


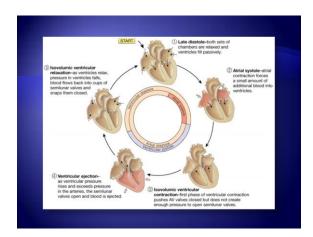


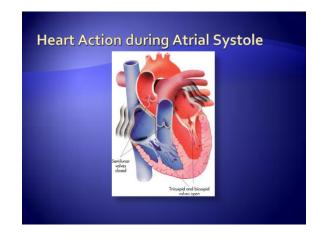


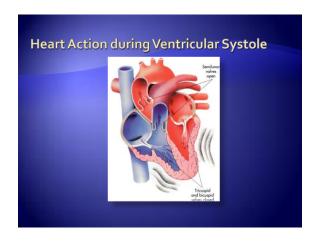


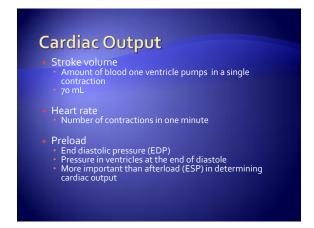


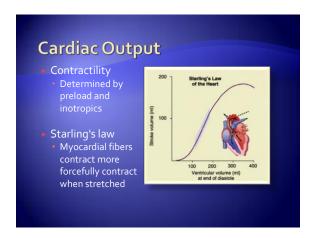


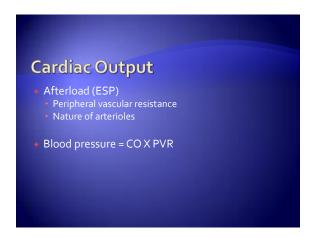




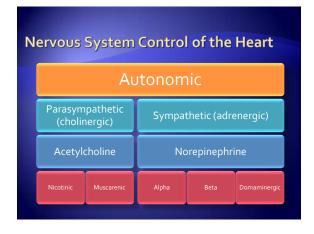
















Sympathetic Control Postganglionic sympathetic fibers release norepinephrine; have effects on myocardium: Inotropic (force of contractility) Dromotropic (velocity of conduction) Chronotropic (heart rate)

Sympathetic Control Sympathetic stimulation of the heart Dilation of coronary blood vessels Constriction of peripheral vessels Increased oxygen demands of the heart met by increase in blood and oxygen supply

Parasympathetic Control Cardiac Inhibitory Center (CIC) Vagus nerve (X) Innervates SA node, atria, AV junction Cholinergic receptor sites





