Electrical Stimulation of the Heart

Electrical stimulation keeps the heartbeat regular and strong. The **sinoatrial node** located in the posterior wall of the right atrium establishes the basic rhythm of the heartbeat. From here, the impulse spreads over both atria causing the muscle to contract and force blood into the ventricles. The **atrioventricular node** transmits the electric impulses onto the **bundle of His**, branches from the bundle of His located within the **interventricular septum**, carrying the impulse that causes both ventricles to contract and force blood into the aorta and pulmonary arteries. This cycle is repeated rhythmically to maintain an effective flow of blood throughout the body.