

Slide 2: Introduction

- **What is the heart?**
 - A muscular organ that pumps blood throughout the body.
 - Vital for life, providing oxygen and nutrients to cells.
- **Brief overview of the circulatory system:**
 - Heart, blood vessels (arteries, veins, capillaries)
 - Transportation of oxygen, nutrients, hormones, waste products

Slide 3: Heart Structure

- **Image of the heart:**
 - Label the four chambers: right atrium, right ventricle, left atrium, left ventricle
 - Show the major blood vessels: aorta, pulmonary artery, pulmonary veins, vena cava
- **Key points:**
 - **Atria:** Receive blood
 - **Ventricles:** Pump blood out
 - **Valves:** Prevent backflow of blood (tricuspid, pulmonary, mitral, aortic)

Slide 4: Heart Layers

- **Image of a cross-section of the heart wall:**
 - Label the three layers: epicardium, myocardium, endocardium
 - Briefly explain the function of each layer

Slide 5: The Cardiac Cycle

- **Image or diagram:**
 - Show the two phases: systole (contraction) and diastole (relaxation)
 - Explain how blood flows through the heart during each phase

Slide 6: Electrical Conduction System

- **Image or diagram:**
 - Show the sinoatrial (SA) node, atrioventricular (AV) node, Bundle of His, and Purkinje fibers
 - Explain how electrical signals control the heartbeat

Slide 7: The Role of Blood Vessels

- **Arteries:** Carry oxygenated blood away from the heart
- **Veins:** Carry deoxygenated blood back to the heart
- **Capillaries:** Tiny vessels where gas exchange occurs
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Slide 8: Coronary Circulation

- **Explain the importance of coronary arteries and veins:**
 - Supply blood to the heart muscle itself

Slide 9: Conclusion

- Summarize the key points about the heart's structure and function
- Emphasize the importance of a healthy heart

