

CARDIOVASCULAR SYSTEM : ANATOMY & PHYSIOLOGY

FUNCTION OF CIRCULATION

Delivers O₂, nutrients, hormones and antibodies to organs, tissues and cells
Removes the end product of cellular metabolism

FUNCTION OF THE HEART

Pumps oxygenated blood into the arterial system to supply capillaries and tissue
Pumps oxygen poor blood from the venous system through the lungs to be reoxygenated.

ANATOMY OF THE HEART

Cone shaped organ located in the mediastinal space. The pericardial sac encases the heart and protects it, lubricates and holds 5-20 ml of pericardial fluid. This has two layers.

- the parietal pericardium which is the outer membrane
- the visceral pericardium is the inner membrane attached to the heart.

CONSISTS OF 3 LAYERS

- Epicardium**: outermost layer of the heart
- Myocardium**: middle layer of the heart, the contracting muscle
- Endocardium**: innermost layer of the heart, lines the inner chambers and the valves.

4 CHAMBERS

- Right atrium**: carries deoxygenated blood from the body via superior and inferior vena cava
- Right ventricle**: carries blood from the right atrium and pumps it into the lungs through the pulmonary artery
- Left atrium**: carries oxygenated blood from the pulmonary veins
- Left ventricle**: carries oxygenated blood from the left atrium and pumps it into the systemic circuit through the aorta.

4 VALVES

Two atrioventricular valves that close at the beginning of ventricular contraction. They prevent blood from flowing back into the atria.

- Tricuspid valve**: on the right side of the heart
- Bicuspid valve**: on the left side of the heart

Two semilunar valves that prevent blood from flowing back into the ventricles during relaxation

- Pulmonic semilunar valve**: between the right ventricle and pulmonary artery
- Aortic semilunar valve**: between the ventricle and the aorta.

CORONARY ARTERIES

- Right main coronary artery**: supplies the right atrium and ventricle, the inferior left ventricle, posterior septal wall, SA and AV nodes.
- Left main coronary artery**: consists of two main branches left anterior descending which supplies blood to the left ventricle and the ventricular septum and circumflex arteries which supply blood to the left atrium and the lateral/posterior aspects of the left ventricle.

BLOOD FLOW OF THE HEART

- From the superior and inferior vena cava oxygen poor blood goes to the
- Right atria through the tricuspid valve
- Right ventricle to the pulmonary valve
- To the pulmonary trunk and arteries into the lungs Co₂ is lost and O₂ is gained in the pulmonary capillaries
- O₂ rich blood enters the pulmonary veins to the left atrium
- Blood travels through the bicuspid valve and enters the left ventricle
- Blood moves through the aortic valve and travels through the aorta to the systemic circuit



Sectional Anatomy of the Heart

ELECTRICAL CONDUCTION

- SA node**: pacemaker of the heart and initiates contraction at 60-100 BPM.
- AV**: receives impulses from the SA node initiates and sustains impulses at 40-60 BPM
- Bundle of His**: continuation of the AV node and branches into the the bundle branches which terminate in the Purkinje fibers
- Purkinje fibers**: network of conducting strands beneath the ventricular endocardium. They can act as a pacemaker when the SA and AV fail as pace makers. They can sustain at 20-40 BPM

Heart Study Guide Anatomy Key

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Table of Contents Heart Study Guide Anatomy Key

1. Understanding the eBook Heart Study Guide Anatomy Key
 - The Rise of Digital Reading Heart Study Guide Anatomy Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Heart Study Guide Anatomy Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Heart Study Guide Anatomy Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Heart Study Guide Anatomy Key
 - Personalized Recommendations
 - Heart Study Guide Anatomy Key User Reviews and Ratings
 - Heart Study Guide Anatomy Key and Bestseller Lists
5. Accessing Heart Study Guide Anatomy Key Free and Paid eBooks
 - Heart Study Guide Anatomy Key Public Domain eBooks
 - Heart Study Guide Anatomy Key eBook Subscription Services
 - Heart Study Guide Anatomy Key Budget-Friendly Options
6. Navigating Heart Study Guide Anatomy Key eBook Formats

- ePub, PDF, MOBI, and More
 - Heart Study Guide Anatomy Key Compatibility with Devices
 - Heart Study Guide Anatomy Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Heart Study Guide Anatomy Key
 - Highlighting and Note-Taking Heart Study Guide Anatomy Key
 - Interactive Elements Heart Study Guide Anatomy Key
 8. Staying Engaged with Heart Study Guide Anatomy Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Heart Study Guide Anatomy Key
 9. Balancing eBooks and Physical Books Heart Study Guide Anatomy Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Heart Study Guide Anatomy Key
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Heart Study Guide Anatomy Key
 - Setting Reading Goals Heart Study Guide Anatomy Key
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Heart Study Guide Anatomy Key
 - Fact-Checking eBook Content of Heart Study Guide Anatomy Key
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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