

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

- Pulmonary 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 atrium through the tricuspid valve.
- Right atrium to the right ventricle
- 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 node: receives impulses from the SA node, initiates and conducts impulses at 40-60 BPM.
- Bundle of His: continuation of the AV node and branches into the two 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.

Nursing Cardiovascular Study Guide

DJ Losen

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Table of Contents Nursing Cardiovascular Study Guide

1. Understanding the eBook Nursing Cardiovascular Study Guide
 - The Rise of Digital Reading Nursing Cardiovascular Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Nursing Cardiovascular Study Guide
 - 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 Nursing Cardiovascular Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nursing Cardiovascular Study Guide
 - Personalized Recommendations
 - Nursing Cardiovascular Study Guide User Reviews and Ratings
 - Nursing Cardiovascular Study Guide and Bestseller Lists
5. Accessing Nursing Cardiovascular Study Guide Free and Paid eBooks
 - Nursing Cardiovascular Study Guide Public Domain eBooks
 - Nursing Cardiovascular Study Guide eBook Subscription Services
 - Nursing Cardiovascular Study Guide Budget-Friendly Options

6. Navigating Nursing Cardiovascular Study Guide eBook Formats
 - ePUB, PDF, MOBI, and More
 - Nursing Cardiovascular Study Guide Compatibility with Devices
 - Nursing Cardiovascular Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nursing Cardiovascular Study Guide
 - Highlighting and Note-Taking Nursing Cardiovascular Study Guide
 - Interactive Elements Nursing Cardiovascular Study Guide
8. Staying Engaged with Nursing Cardiovascular Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nursing Cardiovascular Study Guide
9. Balancing eBooks and Physical Books Nursing Cardiovascular Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nursing Cardiovascular Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Nursing Cardiovascular Study Guide
 - Setting Reading Goals Nursing Cardiovascular Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nursing Cardiovascular Study Guide
 - Fact-Checking eBook Content of Nursing Cardiovascular Study Guide
 - 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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