

# CARDIOVASCULAR SYSTEM : ANATOMY & PHYSIOLOGY

## FUNCTION OF CIRCULATION

Delivers O<sub>2</sub> , 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

1. From the superior and inferior vena cava oxygen poor blood goes to the
2. Right atria through the tricuspid valve
3. Right ventricle to the pulmonary valve
4. To the pulmonary trunk and arteries into the lungs Co<sub>2</sub> is lost and O<sub>2</sub> is gained in the pulmonary capillaries
5. O<sub>2</sub> rich blood enters the pulmonary veins to the left atrium
6. Blood travels through the bicuspid valve and enters the left ventricle
7. 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 80- 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

# Anatomy Cardiovascular System Study Guide

**Cybellium**



## **Anatomy Cardiovascular System Study Guide:**

*Study Guide for The Anatomy and Physiology Learning System* Edith Applegate, 2010-03-30 Designed to accompany The Anatomy and Physiology Learning System 4th Edition by Edith Applegate this study guide helps you learn and review basic A P concepts Each chapter emphasizes medical terminology with a set of key terms word parts clinical terms and abbreviations and then adds a variety of fun filled learning exercises review questions a quiz and a word puzzle The study guide corresponds to the textbook chapter for chapter Chapter learning objectives help you focus on the most important material Key concepts are defined on the first page of each chapter in the workbook Learning exercises for each chapter include short answer matching and diagrams to label and color Self quizzes allow you to measure your progress and understanding Fun and Games features end each chapter with a variety of engaging puzzles covering words and concepts A chapter summary provides a brief review of each chapter A chapter review provides questions for reinforcement and review of the concepts in each chapter

CMSRN Study Guide Tyler L Jackson, 2024-09-30 Are you ready to elevate your nursing career and enhance your impact on patient care The journey to becoming a Certified Medical Surgical Registered Nurse CMSRN is both challenging and rewarding and this comprehensive guide is your key to unlocking that potential You will find an in depth exploration of the CMSRN exam designed to prepare you for success in this vital nursing specialty Covering essential topics such as cardiovascular respiratory gastrointestinal renal neurological musculoskeletal hematological integumentary and oncological systems this resource provides you with a solid foundation of knowledge necessary to excel in medical surgical nursing Each chapter meticulously breaks down complex concepts making them accessible and easy to understand while reinforcing the critical thinking skills required in the field Beyond the theoretical knowledge this guide emphasizes practical applications including patient management nursing interventions and pharmacology With a focus on evidence based practices you ll learn how to assess and care for diverse patient populations effectively all while navigating the nuances of contemporary healthcare settings Detailed explanations and real life case studies will deepen your understanding of common conditions and prepare you to address the unique challenges you will face as a CMSRN The book offers valuable insights into effective study strategies and test taking tips tailored specifically for the CMSRN exam You ll discover how to approach multiple choice questions with confidence enhancing your test taking skills to maximize your chances of success The included practice questions and answers reflect the real exam format allowing you to evaluate your knowledge and identify areas for improvement This book addresses the psychosocial aspects of nursing highlighting the importance of mental health awareness and cultural competence in patient care With dedicated chapters on emergency situations professional issues and continuous learning you ll be well equipped to advocate for your patients and collaborate effectively within interdisciplinary teams Whether you re a seasoned nurse seeking certification or a nursing student preparing for a fulfilling career in medical surgical nursing this guide serves as your essential companion on the path to CMSRN success Empower yourself with the

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