

# 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

- 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 Co<sub>2</sub> is lost and O<sub>2</sub> is gained in the pulmonary capillaries
- O<sub>2</sub> 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 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

# Cardiovascular System Anatomy And Physiology Key

**Kristine L'Ecuyer, Elaine Young**



## **Cardiovascular System Anatomy And Physiology Key:**

**Medical Terminology Systems Updated** Barbara Gylys, Mary Ellen Wedding, 2023-02-20 A better way to learn a word building and body systems approach A true blend of words art and technology Medical Terminology Systems and Medical Language Lab MLL work together to create an immersive multimedia experience that tracks each student's progress until they've mastered the language of medicine An access code inside new printed textbooks unlocks an ebook as well as access to MLL Or choose the all digital Instant Access option which includes the ebook and immediate access to MLL See what students are saying about the 8th Edition Amazing Textbook for Medical Terms class I love the format that each chapter begins with a review of the body system If you are entering the medical healthcare field and need to take a medical terminology class this is the best book because it's thorough and easy to use Zora Online Reviewer LEARN Build a solid foundation with the text Students begin by learning the parts of words roots combining forms suffixes and prefixes Then they use their understanding of word parts to learn medical terminology Mnemonic devices and engaging interactive exercises make word building fun and easy ensuring students retain the information they need for success PRACTICE Study smarter not harder Based on proven language methodology Medical Language Lab MLL guides students step by step from basic through advanced levels of proficiency to become confident medical language speakers Students review what they've learned from the text and in class through activities and quizzes ASSESS Build mastery Attain fluency Students and their instructors can monitor their progress through every MLL lesson and assignment to identify the areas where they're struggling A Review section provides additional activities for remediation The Student Lesson Gradebook identifies which lessons have been completed or not completed and the grade earned while the Student Activity Gradebook details how each student performed on specific assignments and how long they took to complete each

*Cardiac Vascular Nurse Certification Review* Kristine L'Ecuyer, Elaine Young, 2022-02-26 The definitive certification review for CVRN exam success Mirroring the CVRN Certification exam blueprint in style and content this is the most current and comprehensive review guide available Written in a user friendly style this review provides a concise and focused survey of the most important aspects of cardiovascular care Cardiac nursing experts deliver essential information in an easy to follow outline format that includes a glossary bulleted key points patient scenarios clinical pearls case studies references and practice Q As in each chapter Colorful charts and illustrations clarify complex information and a complete practice exam at the end of the book provides a targeted assessment of test readiness This review contains preparatory information about the CVRN certification exam including eligibility criteria how to apply guidance on best study practices and a test content outline A complete practice exam with more than 350 exam style questions with rationales enables readers to assess their strengths and weaknesses This text also contains further resources and best references for more in depth learning Key Features Includes a glossary bulleted key points patient scenarios clinical pearls case studies references and practice Q As in each chapter Over 350 exam style

questions with complete rationales Provides a complete practice exam to determine test readiness *Handbook of Cardiac Anatomy, Physiology, and Devices* Paul A. Iaizzo, 2015-11-13 This book covers the latest information on the anatomic features underlying physiologic mechanisms and treatments for diseases of the heart Key chapters address animal models for cardiac research cardiac mapping systems heart valve disease and genomics based tools and technology Once again a companion of supplementary videos offer unique insights into the working heart that enhance the understanding of key points within the text Comprehensive and state of the art the Handbook of Cardiac Anatomy Physiology and Devices Third Edition provides clinicians and biomedical engineers alike with the authoritative information and background they need to work on and implement tomorrow's generation of life saving cardiac devices

#### **The Health Sciences Audiovisual Resource List**

University of Connecticut. Health Center, 1978 **Anatomy and Physiology : The Cardiovascular System** Rumi Michael Leigh, The Cardiovascular System Things You Should Know Questions and Answers explains the anatomy physiology and conditions of the cardiovascular system in a question and answer format The book introduces the heart blood and blood vessels describing how the system functions as a closed circuit to circulate blood It explains systole diastole cardiac output and the phases of the cardiac cycle The roles of arteries veins and capillaries are outlined along with how valves pressure differences and muscle activity regulate blood flow Key topics include the composition of blood the function of erythrocytes leukocytes and thrombocytes and the importance of plasma in transporting nutrients and gases The text also covers electrocardiograms hemostasis erythropoiesis and the role of hormones in blood pressure regulation Common cardiovascular conditions are explained such as anemia arrhythmia hypovolemia myocarditis endocarditis hypertension atherosclerosis and angina pectoris This book will interest students health science learners and those studying anatomy and physiology who want to understand the cardiovascular system its functions and related disorders *Britannica Student Encyclopedia*

Encyclopaedia Britannica, Inc, 2014-05-01 Entertaining and informative the newly updated Britannica Student Encyclopedia helps children gain a better understanding of their world Updated for 2015 more than 2 250 captivating articles cover everything from Barack Obama to video games Children are sure to immerse themselves in 2 700 photos charts and tables that help explain concepts and subjects as well as 1 200 maps and flags from across the globe Britannica Student is curriculum correlated and a recent winner of the 2008 Teachers Choice Award and 2010 AEP Distinguished achievement award [A Text-book of Anatomy and Physiology for Schools of Nursing, Normal Schools, and Colleges](#) Jesse Feiring Williams, 1926

[Integrated Medical Sciences](#) Shantha Perera, Ho Leung, Rousseau Gama, Stephen Anderson, 2007-04-30 This book is a concise accessible problem based approach to the subject using case scenarios to facilitate students taking their pre clinical or basic sciences examinations Using a family of characters in each case scenario the text reflects the current changes in medical and biomedical science teaching that is increasingly moving towards a more integrated approach through problem based learning The characters all members of an extended family appear in several scenarios and the

student becomes familiar with their personalities and their disease processes Each scenario covers the relevant anatomy physiology pathology pharmacology microbiology immunology and biochemistry and enables the reader to grasp the key concepts of basic medical sciences in an integrated fashion Key Features Takes an integrated approach to the subject to reflect recent changes in medical and biomedical science curriculum Further Study sections to enhance understanding and enable the student to read around the subject Intended learning outcomes included at the beginning of each chapter Trigger Boxes containing key facts and revision questions included throughout to ensure key concepts are fully understood Integrated Medical Sciences The Essentials is an essential text for first and second year undergraduates taking medical or biomedical sciences during the pre clinical phase for medical students The book is also an invaluable resource for nursing degree students and allied health students taking courses in dentistry physiotherapy and pharmacy In addition the book is ideal for US and international medical students preparing for the USMLE Step 1 examination **A Textbook of Anatomy and Physiology** Jesse Feiring Williams,1929 *Foundations of Adult Health Nursing* Lois White,2005 *Foundations of Adult Health Nursing* is written following the Nursing Process format The clinical chapters have been revised to include Nursing Management sections for each disorder emphasizing the nurse s role in providing competent client care Nursing Outcomes Classification NOC and Nursing Interventions Classification NIC have been identified in each Nursing Care Plan A Case Study included in each chapter uses critical thinking questions to assist the user through the nursing process and to develop a customized plan of care for the client in the scenario The last chapter Integration has been included to assist the user in understanding the complexity of human illness and how a disorder in one body system affects other body systems Special features throughout the book are specially designed to emphasize specific information such as Life Cycle Considerations Client Teaching Infection Control Safety Community Home Health Care Cultural Considerations and Professional Tips Critical Thinking Questions are included throughout the book to encourage the user to apply the chapter s content At the end of each chapter readers will find a Summary and Review Questions along with References Suggested Readings and Resources **Instructor's Resource Manual and Testbankl to Accompany Critical Care Nursing** Gayla P. Smith,1998

Cardiovascular Physiology Concept Hannah Ramirez,2020-08-23 *Cardiovascular Physiology Concept Short Book* Description An Introduction to Cardiovascular Physiology provides the student with the key concepts of cardiovascular physiology Cardiovascular Physiology Questions for Self Assessment With Illustrated Answers Cardiovascular Physiology Concept full Book Description Overview of the cardiovascular system The cardiac cycle Cardiac myocyte excitation and contraction Initiation and nervous control of heart beat Electrocardiography and arrhythmias Control of stroke volume and cardiac output Assessment of cardiac output and peripheral pulse Haemodynamics flow pressure and resistance The endothelial cell The microcirculation and solute exchange Circulation of fluid between plasma interstitium and lymph Vascular smooth muscle excitation contraction and relaxation Control of blood vessels I Intrinsic control Control of blood

vessels II Extrinsic control by nerves and hormones Specialization in individual circulations Cardiovascular receptors reflexes and central control Coordinated cardiovascular responses Cardiovascular responses in pathological situations The aim of this collection of over 230 questions is to offer students an element of self assessment as they progress through the companion book or revise for examinations Lecturers may find some of the questions useful as a template when setting questions of their own but should note that the questions are primarily educational in intent their discriminatory power has not been tested The questions are grouped under the same headings as the chapters of the companion textbook so they become progressively more advanced see Contents Occasional statements call for information from later chapters Medically relevant questions are introduced wherever they are appropriate I have set at least one question on each learning objective given at the start of the chapter in the companion volume to help you assess your achievement of the learning objectives Some questions require you to integrate information from other chapters too The questions aim to test basic understanding fundamental principles and medical relevance Hopefully they avoid excessive detail always the examiner's easy option The questions Most of the questions are multiple choice questions MCQs generally with five true false statements but occasionally more or less than five Although some educationalists now demand single correct answer questions SAQs one correct answer out of four or five options these test less knowledge so the MCQ style has been retained here To add variety there is a sprinkling of other styles of question such as extended matching questions i.e. choose the best answer from a list data interpretation problems and little numerical problems that test reasoning power and ability to do simple calculations The answers Each answer is accompanied by a brief explanation and very often an illustrative figure which should help if you got the answer wrong Most of the figures are from the accompanying textbook but there are also new explanatory diagrams after some questions It is sometimes difficult to avoid ambiguity in MCQ questions so use your common sense choose the answer that will be right most of the time rather than a remote rare possibility Nevertheless if you disagree with the official answer do let me know *The Heart; Its Physiology, Pathology and Clinical Aspects* Selian Neuhof, 1923 **Clinical**

**Anesthesia** Paul G. Barash, 2009 The premier single volume reference in the field of anesthesia Clinical Anesthesia is now in its Sixth Edition with thoroughly updated coverage a new full color design and a revamped art program featuring 880 full color illustrations More than 80 leading experts cover every aspect of contemporary perioperative medicine in one comprehensive clinically focused clear concise and accessible volume Two new editors Michael Cahalan MD and M Christine Stock MD join Drs Barash Cullen and Stoelting for this edition A companion Website will offer the fully searchable text plus access to enhanced podcasts that can be viewed on your desktop or downloaded to most Apple and BlackBerry devices

**Introduction to Basic Cardiac Dysrhythmias** Sandra Atwood, Cheryl Stanton, Jenny Storey, 1990 New Analytic  
Anatomy, Physiology and Hygiene Human and Comparative Calvin Cutter, 1870 First Book on Analytic Anatomy.  
Physiology and Hygiene, Human and Comparative Calvin Cutter, 1872 Nursing Pharmacology, 1996 This textbook

presents a strong blend of in depth pharmacology with clear consistent nursing implications It focuses on relevant nursing implications for each drug and highlights key nursing diagnoses for each classification of drugs using a prototype approach

**The Medical Herald and Physiotherapist** ,1925      **The Journal of Physiology** ,1884

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