

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

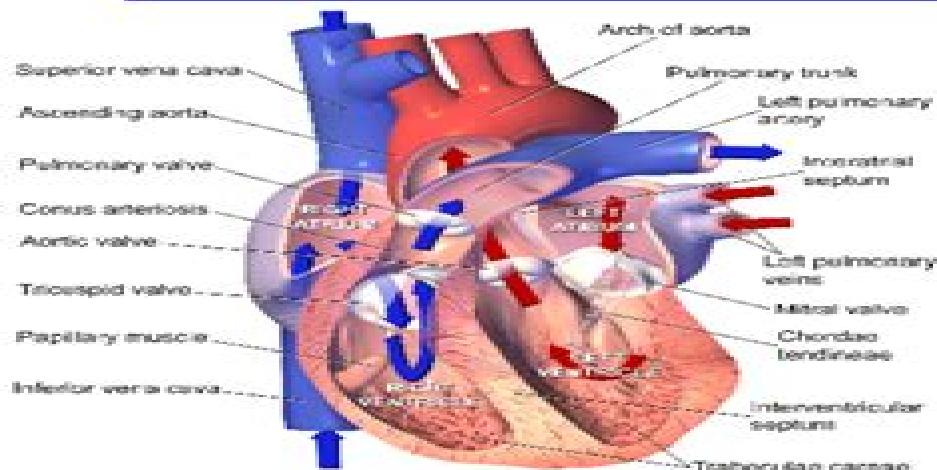
- Pulmonary semilunar valve: between the right ventricle and pulmonary artery
- Aortic semilunar valve: between the ventricle and the aorta.

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 transmits 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.

Cardiovascular System Study Guide

National Library of Medicine (U.S.)

Cardiovascular System Study Guide:

Circulatory System (Speedy Study Guides) Speedy Publishing,2014-07-03 The circulatory system consists of the veins and arteries throughout the body through which blood flows to and from the heart Owning a reference guide to the circulatory system is a valuable tool in any first aid kit A reference guide will allow the owner to immediately recognize the severity of an injury based entirely on where the injury occurs and by the amount of blood flowing from the wound This knowledge will determine how a person treats the injury

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

[Student Notebook and Study Guide to Accompany The Human Body](#) Bruce Wingerd,Patty Bostwick Taylor,2013-02-01 This Student Notebook and Study Guide the ideal companion to Bruce Wingerd s The Human Body reinvents the traditional study guide by giving students a tool to help grasp information in class and reinforce learning outside of class Too often students struggle to both learn the concepts presented and simultaneously record crucial information The Student Notebook and Study Guide provides a structure for recording in class material that parallels the text s concept presentation and includes supplemental questions and activities for assignment outside of the classroom A complete answer guide for both the in class and out of class materials is available online

Clinical Decision-Making Study Guide for Medical-Surgical Nursing - Revised Reprint Donna D. Ignatavicius,Patricia Conley,M. Linda Workman,Donna Rose,Amy H. Lee,2013 Designed to accompany Ignatavicius and Workman s Medical Surgical Nursing Patient Centered Collaborative Care 7th Edition this study guide helps you understand and apply material from each chapter in the text and gives you added support as you learn to make safe and effective clinical decisions Study review questions provide a review of key content using a variety of question formats including a high percentage of questions in traditional and alternate NCLEX R Examination formats Answers are provided in the back of the book Case studies in most chapters give you the opportunity to apply higher level thinking skills to true to life clinical scenarios NEW Increased emphasis on clinical decision making prepares you to confidently make safe and effective decisions in clinical practice NEW Documentation practice questions have been added to select case studies to help you take the next

step in patient care just as you would in clinical practice

Pediatric Critical Care Study Guide Steven E. Lucking, Frank

A. Maffei, Robert F. Tamburro, Neal J. Thomas, 2012-04-10 This is the first comprehensive study guide covering all aspects of pediatric critical care medicine. It fills a void that exists in learning resources currently available to pediatric critical care practitioners. The major textbooks are excellent references but do not allow concise reading on specific topics and are not intended to act as both text and study guide. There are also several handbooks available but these are usually written for general pediatric residents and lack the advanced physiology and pathophysiology required for the higher level pediatric critical care practitioner.

Student Study Guide to Accompany Human Biology Sylvia S. Mader, 2003-08 This best selling text emphasizes the relationship between humans and other living things. Intended for an introductory course this text provides students with a firm grasp of how their bodies function and how the human population can become more fully integrated into the biosphere. An Online Learning Center tied directly to the text via icons will direct students to activities or animations that gives a visual example of difficult processes as well as Working Together boxes to emphasize homeostasis.

Study Guide for Introduction to Human Anatomy and Physiology Eldra Pearl Solomon, Mical K. Solomon, Karla Solomon, Karla Edelson-Solomon, 2009 Master content from the textbook with this helpful study tool. Designed to accompany Solomon's Introduction to Human Anatomy and Physiology 3rd Edition this workbook will assist students in understanding and applying material from each chapter in the text.

Teaching and Assessing Clinical Competence, 1990 **Human**

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Study Guide to Accompany Human Physiology Kevin T. Patton, Victoria Schauf, 1989-12 **Study Guide to Accompany Textbook of Basic Nursing** Joyce

Young Johnson, Rosdahl, Phyllis Prather Hicks, 1999-03 **Study Guide** Johnson, Judith Stewart, 2000-12 Designed specifically for the one semester human biology course. Contains traditional chapter review and self testing activities.

Human Heart (Speedy Study Guides) Speedy Publishing, 2014-06-21 A chart of the human heart would show the details of the valves and arteries. It shows the aspects of the circulatory system in relation to the heart. Details are given about it being a muscle as well as how many times it should beat for children and adults at various ages in life. Chambers are labeled the mitral and tricuspid valve are labeled and the blood vessels are shown in color to help designate those that take blood from the heart and those that take blood to the heart.

Psychology Study Guide Janet D. Proctor, Proctor, Donald, 1999-09-08

[National Library of Medicine Audiovisuals Catalog](#) National Library of Medicine (U.S.), **Instructor's Manual and Study Guide Answers for the Human Body in Health and Disease** Barbara Janson Cohen, Memmler, 1996 **Study Guide for Nairn's Psychology: the Adaptive Mind** Janet Proctor, James S. Nairne, 2003 The new edition of the Study Guide

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Lovell,Michael D. Franzen,1988 Containing over six hundred multiple choice questions with reasoned answers this study guide and self assessment manual has been prepared in conjunction with the definitive American Psychiatric Press Textbook of Psychiatry Wherever this new textbook is used students and trainees will benefit from the Study Guide both as a learning aid and as a means of self assessment Including condensed versions of discussions found in the parent Textbook it provides a useful revision text in psychiatry

The Cardiovascular System at a Glance Philip I. Aaronson,Jeremy P. T.

Ward,Michelle J. Connolly,2012-11-28 This concise and accessible text provides an integrated overview of the cardiovascular system considering the basic sciences which underpin the system and applying this knowledge to clinical practice and therapeutics A general introduction to the cardiovascular system is followed by chapters on key topics such as anatomy and histology blood and body fluids biochemistry excitation contraction coupling form and function integration and regulation pathology and therapeutics clinical examination and investigation all supported by clinical cases for self assessment Highly visual colour illustrations complement the text and consolidate learning The Cardiovascular System at a Glance is the perfect introduction and revision aid to understanding the heart and circulation and now also features An additional chapter on pulmonary hypertension Even more simplified illustrations to aid easier understanding Reorganized and revised chapters for greater clarity Brand new and updated clinical case studies illustrating clinical relevance and for self assessment The fourth edition of The Cardiovascular System at a Glance is an ideal resource for medical students whilst students of other health professions and specialist cardiology nurses will also find it invaluable Examination candidates who need an authoritative concise and clinically relevant guide to the cardiovascular system will find it extremely useful A companion website featuring cases from this and previous editions along with additional summary revision aids is available at www.ataglanceseries.com

cardiovascular

Industrial Management ,1984

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