

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

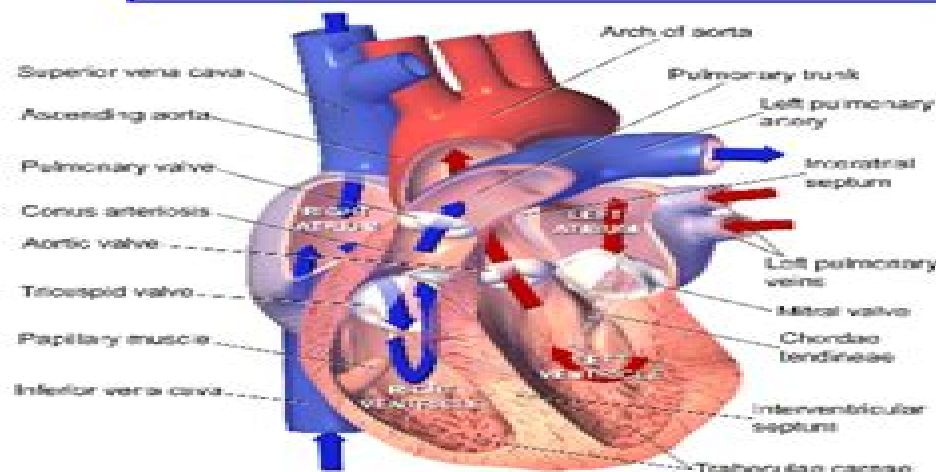
- Pulmonic semilunar valve: between the right ventricle and pulmonary artery
- Aortic semilunar valve: between the ventricle and the aorta.

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 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 Guide

Debbie Lawrence, Richard (Bob) Hope



Cardiovascular System 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.

Circulatory System, an Illustrated Guide for Nursing Education United States. Public Health Service, 1956

The Cardiovascular System at a Glance Philip I. Aaronson, Jeremy P. T. Ward, Michelle J. Connolly, 2020-04-13 Everything you need to know about the cardiovascular system at a Glance. The Cardiovascular System at a Glance is the essential reference guide to understanding all things circulatory. Concise, accessible, and highly illustrated, this latest edition presents an integrated overview of the subject from the basics through to application. Featuring brand new content on stroke, examination and imaging, heart block and ECGs, and myopathies and channelopathies. The Cardiovascular System at a Glance goes one step further and offers new and updated clinical case studies and multiple choice questions on a supplementary website. Integrates basic science and clinical topics. Offers bite size chapters that make topics easy to digest. Includes coverage of anatomy and histology, blood and haemostasis, cellular physiology, form and function, regulation and integration of cardiovascular function, history, examination and investigations, pathology and therapeutics. Filled with highly visual, colour illustrations that enhance the text and help reinforce learning. The fifth edition of The Cardiovascular System at a Glance is an ideal resource for medical students, junior doctors, students of other health professions, and specialist cardiology nurses.

The Cardiovascular System Ian Peate, 2025-02-25 A concise, illustrated, and accessible guide to the cardiovascular system. Each of the twelve volumes in Peate's Body Systems series is rooted in the belief that a deep and thorough understanding of the human body is essential for providing the highest standard of care. Offering clear, accessible, and up-to-date information on different body systems, this series bridges the gap between complex scientific concepts and practical everyday applications in health and care settings. This series makes for an invaluable resource for those committed to understanding the intricacies of human biology, physiology, and the various systems that sustain life. The Cardiovascular System is the perfect companion for students and newly registered practitioners across nursing and allied health fields with an interest in cardiovascular care, providing a comprehensive yet easy-to-digest guide for both academic and clinical application. Equips healthcare students and practitioners with the necessary information to provide safe and competent care. Features colourful illustrations to aid comprehension, clarify complicated concepts, and render content more engaging and accessible. Empowers readers to adapt to a rapidly evolving healthcare landscape, preparing them for the future of healthcare delivery. Contains information necessary for effective patient care of those with heart failure, hypertension, and other cardiovascular diseases and conditions.

A Handbook of Practical Treatment:

Diseases of the circulatory system, infectious diseases, tropical diseases, animal parasites John Herr

Musser,Aloysius Oliver Joseph Kelly,Thomas Charles Kelly,1911 *The Cardiac Care Unit Survival Guide* Herzog,2012 This book is geared toward cardiologists trainees and housestaff anyone who rotates or practices in the CCU who must grasp the subtleties when treating patients in a cardiac care unit It is organized in a way to help you understand the simplified pathophysiology of the disease the diagnosis modalities the initial critical care management in the CCU the clinical care in a step down unit and plan for discharge therapy Dr Herzog has developed unified pathways for the management of patients presenting with acute chest pain or its equivalent acute heart failure atrial fibrillation and flutter syncope cardiac arrest hypertension and hyperglycemia Algorithms and pathways for management are provided in each chapter for easy implementation in any health care system In addition because specialized units are frightening to the patients and their families there is a section in each chapter on what the patient and family need to know that encompasses a capsulated explanation of the condition and treatment management A companion website accompanies the text that includes fully searchable text and patient information **Handbook of Physiology: The cardiovascular system. v. 1. The heart. v. 2. Vascular smooth muscle. v. 3, pt.1-2. Peripheral circulation and organ blood flow** ,1977 **The Complete Guide to Circuit Training** Debbie Lawrence,Richard (Bob) Hope,2015-10-13 The Complete Guide to Circuit Training is the second edition of the definitive guide to planning and teaching a circuit class It is the established reference title on the subject for all group exercise instructors from trainees to the vastly experienced Circuit training is one of the original forms of group exercise and is still the most popular From fitness club classes through sport specific routines to the use in medical rehabilitation it has a very wide appeal This new edition has been completely updated to take full account of developments in the area and is now supported with detailed photography The book comprises four parts Circuit training and its role in fitness Planning and teaching Session structure Working with specific groups Written by two of the leading authorities on the subject it is sure to continue as a must have for all fitness professionals Formerly published as Fitness Professionals Circuit Training 2nd edition and now rebranded and in full colour in the Complete Guide series *The Hands-on Guide to Clinical Pharmacology* Sukhdev Chatu,2011-06-20 Are you about to sit your pharmacology exams Do you lack confidence in prescribing Would it help to have a quick reference pocket sized reassurance on common drugs and the conditions that they are used in The Hands on Guide to Clinical Pharmacology is the perfect companion for students doctors nurses pharmacists and other health care professionals who need help on the ward or are preparing for exams It includes sections containing both treatment regimens of common conditions and detailed information on the relevant drugs that help you obtain a better understanding of therapeutic management The benefits include A Z of over 100 key drugs in a one drug per page format A systems based approach Fully indexed text Clear explanations of drug mechanisms a regular feature of pharmacology exams Management guidelines for common conditions within each system Brand new two colour design to help with information

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