CARDIOVASCULAR SYSTEM : ANATOMY & PHYSIOLOGY

FUNCTION OF CIRCULATION

Delivers 02 , nutrients, hormones and antibodies to organs, tissues and cells Removes the end product of cellular metabolism

FUNCTION OF THE BEART

Pumps oxygeneted blood into the arterial system to supply capitlaries and tissue Pumps oxygen poor blood from the venous system through the lungs to be reoxygeneted.

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.

EDNSTATS OF 3 LATERS

- 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.

A CRAMBERS

- Right atrium: carries deoxygenated blood from the body via superior and inferior vens cava.
- Right ventricle: carries blood from the right atrium and pumps it into the lungs through the pulmonary artery
- Left strium: 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 sorts.

A VALVES

Two atrioventricular valves that close at the beginning of ventricular contraction. They prevent blood from flowing back into the stria.

- Tricuspid valve : on the right side of the heart
- Blouspid valve: on the left side of the heart

Two semilunar valves that prevent blood from flowing back into the ventricles during releasition

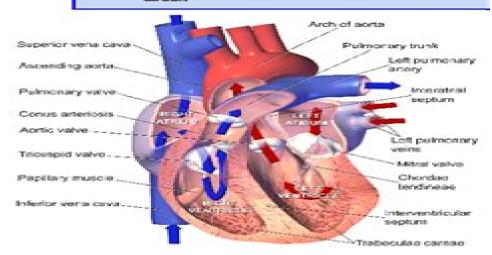
- Pulmonic semilunar valve: between the right ventricle and pulmonary artery
- Aortio semiliunar valve: between the ventricle and the sorts.

CORONARY ARTERTES

- Right mein coronery artery: supplies the right atrium and ventricle, the inferior left ventricle, posterior septal wall, SA and AV nodes.
- Left main ocronary 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 end inferior vens care caygen poor blood goes to the
- 2. Right atria through the tricuspid valve
- 3. Right ventricle to the pulmonery valve
- To the pulmonary trunk and arteries into the kings Co2 is lost and 02 is gained in the pulmonary capitaries
- 5. O2 rich blood enters the pulmonary veins to the left strium
- Blood trevels through the bicuspid valve and enters the left ventricle
- Blood moves through the sortic valve and travels through the sorts to the systemic choult



Sectional Anatomy of the Heart

ELECTRICAL CONDUCTION

- BA node: pacemaker of the heart and initiates contraction at 80-100 SPM.
- AV : receives impulses from the SA node initiates and austains impulses at 40-80 BPM
- Bundle of his: continuation of the AV node and branches into the the bundle branches which terminate in the purking fibers
 - Puridinje fibers: network of conducting strands beneath the ventricular endocardium. They can act as a pacemaker when the SA and AV fall as pace makers. They can sustain at 20-40 BPM



Heart And Circulatory Study Guide

Calvin Yates

Heart And Circulatory 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 **EMT Study Guide** ,2025-03-24 What if you could be the first responder to someone s most critical moment making life saving decisions that can change the course of their future As an Emergency Medical Technician EMT every call could mean the difference between life and death Whether you re new to the field or looking to sharpen your skills this comprehensive EMT guide provides the essential knowledge practical advice and expert strategies needed to thrive in the fast paced world of emergency medical services You will gain a deep understanding of the core concepts and practical applications of EMT work Covering everything from airway management and patient assessment to trauma care and medical emergencies this book is designed to equip you with the skills needed to provide effective care in high pressure situations. The detailed explanations of anatomy and physiology emergency protocols and treatment techniques ensure you re ready for any challenge that comes your way What sets this book apart is its focus on real world scenarios With case studies and practice questions you ll have the opportunity to apply your knowledge to practical situations allowing you to build confidence in decision making and patient care The book also dives into specialized areas like pediatric and geriatric emergencies obstetric care neurological emergencies and trauma treatment giving you a well rounded understanding of the diverse conditions EMTs face Additionally you ll learn how to handle difficult but crucial aspects of the profession such as consent refusal of care and understanding the legal and ethical considerations of EMT work The book offers valuable insights into managing high stress situations ensuring your mental and physical well being and staying current with evolving medical practices Whether you re preparing for the National Registry of Emergency Medical Technicians NREMT exam looking to pass your certification or simply striving to improve your EMT skills this guide provides you with the tools needed to succeed With practical tips for test taking time management and staying calm in emergencies this book will help you become a confident compassionate and competent EMT Prepare yourself for a career that requires skill dedication and a passion for helping others This Guide is your comprehensive resource to ensure you re ready for whatever comes next With expert advice and real life insights it s the ultimate companion for anyone serious about a career in emergency medical services Anatomy II (Human) (Speedy Study Guides) Speedy Publishing, 2014-07-03 A human s internal anatomy includes the reproductive digestive and skeletal systems Each part inside the human body has its own name to assist medical personnel diagnose health conditions or perform surgical procedures Reference guides concerning anatomy help students learn about the body to have a greater understanding of its functions in order to become physicians surgeons

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pathophysiology principles how they relate to the social determinants of health and how they relate to improving patient care Coverage of diseases and disorders is organized by body system with each chapter including an overview of the topic a guide to study along with study tips realistic case studies and challenge questions asking you to apply your knowledge to clinical situations Written by noted nurse educator Kaveri Roy this text features a strong focus on clinical judgment that makes it a perfect study and review tool for the Next Generation NCLEX RN Overview of each body system includes the related diseases and disorders for each Case studies help you grasp pathophysiological concepts and apply clinical judgment to care based decisions Challenge guiding questions help you apply pathophysiological principles to clinical situations with answers provided at the back of the book Inclusive lens highlights how social determinants of health SDOH are indicators of disease pathways Focus on patient needs concepts enhances your understanding beyond specific medical diagnoses

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