

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

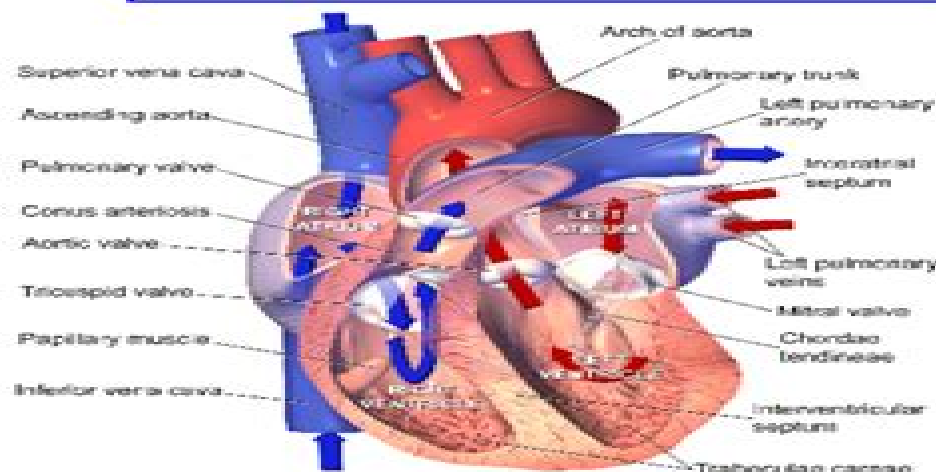
- Pulmonic semilunar valve: between the right ventricle and pulmonary artery
- Aortic semilunar valve: between the ventricle and the aorta.

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

Study Guide For Heart Mcgraw Hill Answer

Pierre Theroux



Study Guide For Heart Mcgraw Hill Answer:

Cardiology: Smart Study Guide Saif ul Islam, MD.,R.Ph., BCPS,2025-04-30 Comprehensive yet Concise Covers the most up to date clinical information in cardiology including pharmacology pharmaceutics dosing and practical knowledge High Yield practical Designed for use in clinical settings presenting information in a easy to remember format Tailored for students residents Ideal for medical pharmacy and nursing students as well as residents seeking a quick and effective resources Beyond Standard Textbooks Include valuable clinical insights and practice pearls not commonly found in traditional medical textbooks Active Learning Approach Features chapters based questions and answers to reinforce knowledge and deepen understanding Visual Learning Aids Provides essential diagrams and references to online image libraries for enhanced comprehension **Nuclear Cardiology Technology Study Guide (Voice)** Ann Marie Alessi,2010

Emergency Medicine Review Richard A. Harrigan,Jacob Ufberg,Matthew Tripp,2010-09-14 Emergency Medicine Review Preparing for the Boards by Richard Harrigan Matthew Tripp and Jacob Ufberg uniquely combines a comprehensive bulleted review of all required subjects with a thorough practice exam of board style questions giving you all the tools you need to be prepared and confident during the American Board of Emergency Medicine s qualifying exam and beyond You can also access the online Q A review at expertconsult com A comprehensive bulleted review section allows you to efficiently brush up on every area tested on the exam Board style practice questions in print and online let you assess your mastery of all topics you need to know Over 200 illustrations challenge you to correctly identify images read ECGs and interpret other visual elements crucial to successful completion of the exam Answers and detailed explanations for every question enable you to fill any gaps in your knowledge Content based on The Model of the Clinical Practice of Emergency Medicine from which the boards and ConCert exams are also derived lets you focus on the most essential information in the field **Eye of the Heart** William F. Sullivan,2005-01-01 What is the role of feelings in the euthanasia debate This is the central question in William F Sullivan s unique philosophical and ethical exploration of the issue Eye of the Heart Employing the principles and techniques of the great Canadian theologian and thinker Bernard Lonergan Sullivan offers a concrete examination of the role of feelings in grasping moral values and the key role that feelings play in ethical decision making The heart has its reasons he argues convincingly and it is a type of reason that bioethicists philosophers and legal scholars all need to know Sullivan draws on his experiences as a practicing physician to analyse the distinguishing elements of human knowing illustrating them through common examples of decision making in health care He highlights the occurrence of various types of insight particularly deliberative insights that occur in the process of making value judgments These deliberative insights are affective and through them a person apprehends moral values Eye of the Heart proposes that feelings are relevant to knowing moral values and orient us towards moral self transcendence The implications of this stance in ethics are drawn out for the euthanasia debate Heart Failure Andreas P. Kalogeropoulos,Hal A. Skopicki,Javed Butler,2022-07-11 This patient

oriented book was written as a meeting ground for practicing clinicians allied health professionals and clinical researchers to provide a practical guide for the contemporary assessment and management of patients with heart failure and cardiomyopathy. It revolves around broad patient scenarios to elegantly or expertly guide diagnostic and management strategies. Combining the talents of over one hundred experts in the field, the book also endeavors to challenge the reader with areas of current controversies and opportunities for clinical investigation with the goals of both orienting clinicians and stimulating their research passions.

Key Features:

- Provides practical guidance based on real life heart failure scenarios
- Discusses both acute and chronic care patient oriented scenarios
- Covers up to date and novel concepts in heart failure
- Features the perspectives of current debates and controversies in heart failure
- Highlights the opportunities for research in this field

Imaging in Neurodegenerative Disorders Luca Saba, 2015

Diagnosing neurodegenerative diseases can prove particularly intimidating to clinicians because many times the diagnosis cannot be critically confirmed by a simple test. New imaging modalities have advanced to the point of high resolution morphological, metabolic, and functional analysis. Computed tomography, magnetic resonance, nuclear medicine, and molecular imaging have recently emerged as outstanding non-invasive techniques for the study of the neurodegenerative disorders. *Imaging in Neurodegenerative Disorders* covers all the imaging techniques and new exciting methods like new tracers, biomarker, metabolomic, and gene array profiling potential for applying such techniques clinically and offers present and future applications as applied to the neurodegenerative disorders with the most world renowned scientists in these fields. This book is an invaluable resource for researchers, clinicians, and trainees in neuroscience, neurology, psychiatry, and radiology.

Acute Coronary Syndromes: A Companion to Braunwald's Heart Disease E-Book Pierre Theroux, 2010-09-24

Acute Coronary Syndromes: A Companion to Braunwald's Heart Disease covers the state of the art scientific and clinical information you need to rapidly evaluate and manage acute coronary syndromes. Dr. Pierre Theroux and his team of expert contributors present advances in diagnostic and imaging techniques such as biomarkers, nuclear cardiology, echocardiography, and multislice CT, secondary prevention, and new antiplatelet, anti-ischemic, and gene therapies. Tap into the most definitive knowledge available from one of the leading experts in the field and a stellar cast of contributors. Understand the special considerations for the care of acute coronary syndromes in the emergency department and the coronary care unit. Effectively handle the treatment of special populations and chronic patients thanks to coverage of these challenges. See techniques and procedures in greater detail and clarity through the all new full color design. Approach treatment with a global perspective from the new section on Population Based Perspective that discusses the INTERHEART study, insights from the REACH registry, lessons learned from European registries, and ACS in North America. Gain a comprehensive understanding of ACS through coverage of pathophysiology, molecular mechanisms, the role of the immune system, and brand new chapters on cell necrosis and cell regeneration and pharmacogenetics in the section on Disease Based Perspectives. Integrate the latest testing and treatment techniques into your practice thanks to new

chapters on biomarkers in acute ischemic heart disease the role of noninvasive testing in prognostic risk stratification the culprit lesions and patient at risk non responsiveness to antiplatelet therapy bleeding in the acute coronary syndromes and the refractory patient Tabbner's Nursing Care Gabby Koutoukidis,Jodie Hughson,2012-10 This text covers a wide range of issues surrounding nursing midwifery and health visiting The topics it covers are the structure and functions of the human body nursing care and nursing needs care of the individual with a body system disorder and special aspects of nursing care This edition written for Australia and NZ students **Vital Signs and Resuscitation** Joseph V. Stewart,2003-01-01 Pocket sized text provides the procedures for taking accurate vital signs Provides an historical overview and covers such vital signs as temperature heart rate respiration blood pressure and level of consciousness For nurses residents and physicians Wire spiral binding *Core Knowledge in Critical Care Medicine* Wolfgang Krüger,Andrew James Ludman,2014-08-25 This book provides a detailed review of state of the art knowledge on critical care topics as well as the latest research findings It covers the core aspects in excellent detail but is not so comprehensive as to make its daily use unfeasible For each condition considered discussion of the pathophysiology is integrated with observations on diagnosis and treatment in order to allow a deeper understanding The book is scientifically based with extensive references to published research This will allow readers to investigate their individual interests further and will enable physicians to justify measures by providing a coherent evidence based strategy and relevant citations where needed Core Knowledge in Critical Care Medicine will appeal to experienced practitioners as an aide m moire but will also be of great value to a wide range of more junior staff wishing to complement their background knowledge with important facts applicable to everyday practice **Practical Pharmacology in Rehabilitation** Lynette Carl,Joseph Gallo,Peter Johnson ,2014 Practical Pharmacology in Rehabilitation discusses the effects of medications in the rehabilitation process and assists rehabilitation professionals in designing patient specific therapy plans based on coexisting disease states and medications used **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1971 Core Curriculum for Pediatric Emergency Nursing Bruce Herman,Emergency Nurses Association,2003 This unique text serves as the foundation for pediatric emergency nursing practice and also addresses pediatric trauma care **Adult-Gerontology Acute Care Nurse Practitioner** Paula McCauley,2020-11-24 Adult Gerontology Acute Care Nurse Practitioner A Case Based Approach Studying for AGACNP DNP certification or looking to strengthen your adult gerontology acute care skills Grab the know how support and practical guidance you need with Adult Gerontology Acute Care Nurse Practitioner This clearly written evidenced based guide offers best practices for providing patient and family centered care for young adults older adults and elderly patients facing complex acute and or chronic health conditions From foundational advanced practice knowledge and skills to informed clinical judgment this is an indispensable reference for preparing for AGACNP DNP certification and a clinical road map for all adult gerontology acute care nurse practitioners *Union List of Audiovisuals in the Library Network of the Veterans Administration* United States.

Veterans Administration. Department of Medicine and Surgery, 1976 **Emergency Medical Services, 2 Volumes** Jane H. Brice, Theodore R. Delbridge, J. Brent Myers, 2021-11-17 The two volume Emergency Medical Services Clinical Practice and Systems Oversight delivers a thorough foundation upon which to succeed as an EMS medical director and prepare for the NAEMSP National EMS Medical Directors Course and Practicum Focusing on EMS in the real world the book offers specific management tools that will be useful in the reader's own local EMS system and provides contextual understanding of how EMS functions within the broader emergency care system at a state local and national level The two volumes offer the core knowledge trainees will need to successfully complete their training and begin their career as EMS physicians regardless of the EMS systems in use in their areas A companion website rounds out the book's offerings with audio and video clips of EMS best practice in action Readers will also benefit from the inclusion of A thorough introduction to the history of EMS An exploration of EMS airway management including procedures and challenges as well as how to manage ventilation oxygenation and breathing in patients including cases of respiratory distress Practical discussions of medical problems including the challenges posed by the undifferentiated patient altered mental status cardiac arrest and dysrhythmias seizures stroke and allergic reactions An examination of EMS systems structure and leadership **The Software Encyclopedia**, 1988 *Braunwald's Heart Disease E-Book* Douglas P. Zipes, 2018-01-09 Trusted by generations of cardiologists for the latest most reliable guidance in the field Braunwald's Heart Disease 11th Edition remains your 1 source of information on rapidly changing clinical science clinical and translational research and evidence based medicine This award winning text has been completely updated providing a superior multimedia reference for every aspect of this fast changing field including new material about almost every topic in cardiology A unique update program by Dr Braunwald creates a living textbook by featuring weekly Hot off the Press and periodic Late Breaking Clinical Trials including links to authors presentation slides More than a dozen new chapters cover Chronic Lung Disorders and Cardiovascular Disease Transcatheter Treatment of Congenital Heart Disease Approach to the Patient with Valvular Heart Disease Obesity and Cardiometabolic Disease Environmental Exposures and CVD Approach to the Patient with Cardiac Arrhythmias Cardio oncology Precision Medicine and more New information on clinical cardiovascular genetics MR PET MR device compatibility fibrosis fusion imaging OCT IVUS left atrial appendage exclusion approaches and other topics Many new videos that elucidate coronary peripheral valvular congenital heart diseases and other cardiovascular diseases Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices *Cardiovascular Problems in Emergency Medicine* Shama Grossman, Peter Rosen, 2011-10-13 A unique textbook in cardiovascular emergencies Cardiovascular Problems in Emergency Medicine takes you on rounds with the leading teachers of emergency medicine Transcripts of in depth telephone conferences on 27 real life cardiovascular cases provide a unique and fascinating insight into the way complex cases are diagnosed and managed by some of the most

experienced and respected practitioners in the field Each chapter is then complemented by an authoritative fully referenced review of the current literature on the topic With its unique approach and the range of cases covered Cardiovascular Problems in Emergency Medicine is an invaluable source of information for all emergency physicians both qualified and in training

Lewis's Medical-Surgical Nursing Diane Brown, Helen Edwards, Lesley Seaton, Thomas Buckley, 2017-03-25 Perfect for Undergraduate Nursing Students Postgraduate Specialist Nursing Pathways Advanced Medical Surgical Nursing TAFE Bachelor of Nursing Program Lewis's Medical Surgical Nursing Assessment and Management of Clinical Problems 4th Edition is the most comprehensive go to reference for essential information about all aspects of professional nursing care of patients Using the nursing process as a framework for practice the fourth edition has been extensively revised to reflect the rapid changing nature of nursing practice and the increasing focus on key nursing care priorities Building on the strengths of the third Australian and New Zealand edition and incorporating relevant global nursing research and practice from the prominent US title Medical Surgical Nursing 9Th Edition Lewis's Medical Surgical Nursing 4th Edition is an essential resource for students seeking to understand the role of the professional nurse in the contemporary health environment 49 expert contributors from Australia and New Zealand Current research data and Australian and New Zealand statistics Focus on evidence based practice Review questions and clinical reasoning exercises Evolve Resources for instructor and student including quick quiz s test banks review questions image gallery and videos Chapter on current national patient safety and clinical reasoning Over 80 new and revised case studies Chapter on rural and remote area nursing Fully revised chapter on chronic illness and complex care Chapter on patient safety and clinical reasoning Greater emphasis on contemporary health issues such as obesity and emergency and disaster nursing Australia and New Zealand sociocultural focus

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web may 22 2013 single phase motors work on the same principle as 3 phase motors except they are only run off one phase

a single phase sets up an oscillating magnetic field that goes back and forth rather than a rotating magnetic field see bottom figure

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web the single coil of a single phase induction motor does not produce a rotating magnetic field but a pulsating field reaching

maximum intensity at 0° and 180° electrical figure below single phase stator produces a nonrotating pulsating magnetic field another view is that the single coil excited by a single phase current produces two

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web single phase power is a two wire alternating current ac power circuit typically there is one power wire the phase wire and one neutral wire with current flowing between the power wire through the load and the neutral wire three phase power is a three wire ac power circuit with each phase ac signal 120 electrical degrees apart

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