

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

1. From the superior and inferior vena cava oxygen poor blood goes to the
2. Right atria through the tricuspid valve
3. Right ventricle to the pulmonary valve
4. To the pulmonary trunk and arteries into the lungs Co₂ is lost and O₂ is gained in the pulmonary capillaries
5. O₂ rich blood enters the pulmonary veins to the left atrium
6. Blood travels through the bicuspid valve and enters the left ventricle
7. 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

Vascular System Study Guide

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Vascular System Study Guide:

Study Guide and Laboratory Manual for Physical Examination and Health Assessment, Canadian Edition- E-Book Carolyn Jarvis, Ann L. Eckhardt, 2023-02-23 NEW Preface includes an overview of the NCSBN Clinical Judgement Measurement Model PN competencies and the REx PN NEW Clinical judgement exercises equip students for success on the Next Generation NCLEX NGN including questions with an increased focus on clinical judgement Updated content throughout corresponds to the 4th Canadian edition of the textbook and incorporates the latest research and evidence informed practice **ICD-9-CM Inpatient Coding Reference and Study Guide** Ba Kobayashi, 2010-07 If you need to have a strong understanding of how ICD 9 CM diagnosis and procedure codes are determined then you have chosen the right book ICD 9 CM Inpatient Coding Reference and Study Guide The author designed a book that goes beyond the fundamentals that gets into the details of ICD 9 CM diagnosis and procedure code assignment as would be experienced on the job This user friendly reference teaches coders how to handle many coding situations while also being comprehensive enough to teach someone with a basic knowledge of medical coding how to move to the next level of advanced inpatient coding Updated every year to reflect the annual ICD 9 CM coding changes the text enables HIM professionals to master the concepts of medical coding while also gaining critical knowledge to pass the CCS exam administered by AHIMA and the CPC H exam from the AAPC The book also serves as an excellent desk reference and resource for coders who need to refresh their ICD 9 CM coding skills Among the topics covered in Volume 1 are inpatient coding guidelines coding conventions coding tables and a drug reference However the heart of this manual is the body system analysis based on chapters 1 17 of the Tabular list in Volume I of the ICD 9 CM Official Coding Guidelines The chapters are categorized by body system such as respiratory digestive et al The chapters in this study guide follow the same sequence as the Official Coding Guidelines All chapters in addition to highlighting basic coding guidelines contain situation based coding tips and coding examples A quiz follows each chapter reinforcing concepts in a rigorous manner that applies directly to the professional coding environment The book also contains a selective discussion of invasive procedures that the coder will most likely encounter on the job and on the exam At the end of ICD 9 CM Inpatient Coding Reference and Study Guide are 15 case studies providing the reader with an opportunity to assess their ICD 9 CM coding skill set and speed at coding inpatient medical records Each record contains a face sheet history physical progress notes and answer sheet Some of the case studies contain ER reports consultations as well as operative and pathology reports The answer key at the end of this study guide contains a rationale for all code assignments 456 short answer questions 116 multiple choice questions 15 full medical record case studies Each question is highly relevant and reflects a coding situation most hospital based inpatient coders will face The text strives to ensure the reader understands every diagnosis and procedure discussed thorough discussion of symptoms standard treatment protocols and medications Coding examples and quizzes help clarify the information presented Linda Kobayashi BA RHIT CCS has been a coder and coding manager for

almost 20 years Since 1998 Ms Kobayashi has owned and operated Codebusters Inc a nationwide coding consulting company Widely regarded as a medical coding and auditing expert she has conducted workshops on a variety of coding topics including CCS Exam preparation workshops Throughout her career the author has remained professionally active as an AHIMA member as well as a member of her state association CHIA California health Information Association Her formal training includes a teaching credential from California State University Los Angeles a B A degree in English Literature from University of California Los Angeles an RHIT from AHIMA after completing the RHIT program at East Los Angeles College and a CCS certificate from AHIMA Extensive experience as a hands on coder auditor and educator and has given the author the expertise to help coders prepare for the professional coding environment **Surgery-Vascular Specialty Review and Study Guide**

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profession and taking the NCLEX PN examination NEW Separate Pediatric Nursing Care chapter makes it easier to find information to care for the pediatric client **Study Guide for Clayton's Basic Pharmacology for Nurses - E-Book** Michelle J. Willihnganz, Samuel L. Gurevitz, Bruce D. Clayton, 2021-11-27 Reinforce your understanding of nursing pharmacology and prepare for success on the NCLEX PN exam With chapters corresponding to the chapters in Basic Pharmacology for Nurses 19th Edition this study guide provides a variety of exercises to help you review and practice the LPN LVN's role in drug therapy and patient care Review questions make it easier to achieve the chapter objectives from the textbook and patient scenarios help you develop clinical judgment skills Now with Next Generation NCLEX NGN style case studies and questions this study tool also ensures that you will be ready for the critical thinking questions on the NGN exam Reader friendly writing style and organization make it easier to review and practice nursing pharmacology concepts Variety of exercises reinforce your understanding with multiple choice matching and select all that apply questions as well as crossword puzzles Questions on medication administration reinforce your knowledge of drugs and safety in performing procedures NEW Next Generation NCLEX NGN style questions provide practice for the new question formats on the NGN licensure exam NEW Case studies in clinical chapters allow you to review practice and apply clinical judgment skills NEW Updated exercises cover the new content in the text including newly approved pharmaceutical drugs and treatments

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