

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

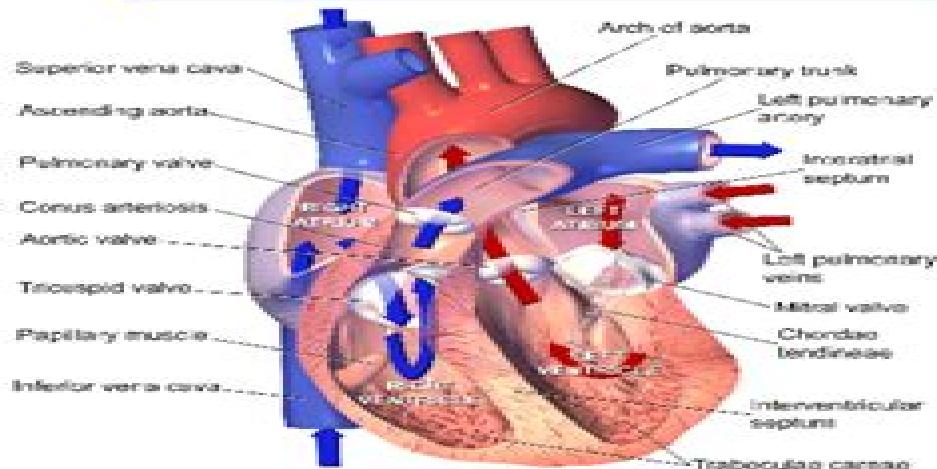
- Pulmonary semilunar valve: between the right ventricle and pulmonary artery
- Aortic semilunar valve: between the ventricle and the aorta.

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 receives 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.

Study Guide For Heart And Circulation

**Gerard J. Criner, Rodger E.
Barnette, Gilbert E. D'Alonzo**

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Pediatric Advanced Life Support Study Guide Barbara Aehlert,2017-01-16 Fully revised to meet the 2015 CPR ECC Guidelines and to prepare students and professionals for PALS certification and recertification Pediatric Advanced Life Support Study Guide Fourth Edition provides a clear and complete approach to managing pediatric emergencies Designed for use by the spectrum of healthcare professionals the Fourth Edition provides users with the critical information needed to approach real life pediatric emergencies The Fourth Edition includes End of chapter quizzes with answers and objectives as well as a comprehensive posttest to gauge material comprehension Case studies at the end of appropriate chapters for practice with real world material application Clear procedural explanations written in descriptive yet accessible language A refined Table of Contents including standalone chapters on cardiac dysrhythmias for focused learning and study PALS Pearl boxes for text to everyday clinical application In text references for deeper research if desired Critical Care Study Guide Gerard J. Criner,Rodger E. Barnette,Gilbert E. D'Alonzo,2010-06-27 Critical care medicine is a dynamic and exciting arena where complex pathophysiologic states require extensive knowledge and up to date clinical information An extensive knowledge of basic pathophysiology as well as awareness of the appropriate diagnostic tests and treatments that are used to optimize care in the critically ill is essential Since our first edition 7 years ago new information crucial to the care and understanding of the critically ill patient has rapidly accumulated Because this knowledge base crosses many different disciplines a comprehensive multidisciplinary approach presenting the information is essential similar to the multidisciplinary approach that is used to care for the critically ill patient We have strived to provide this content in an easily digestible format that uses a variety of teaching tools to facilitate understanding of the presented concepts and to enhance information retention To meet the demand to provide comprehensive and diverse educationin order to und stand the pathogenesis and optimum care of a variety of critical illnesses we have subst tially revised the prior topics in the frst edition with updated information We have also markedly expanded the number of topics covered to include acute lung injury and the acute respiratory distress syndrome an expanded discussion of the physiology and operation of mechanical ventilation obstetrical care in the ICU neurosurgical emergencies acute co nary syndromes cardiac arrhythmias role of whole body rehabilitation in the ICU ethical conduct of human research in the ICU and nursing care of the ICU patient **Study Guide for Perry's**

Maternal Child Nursing Care in Canada,E-Book Lisa Keenan-Lindsay,Cheryl A Sams,Constance L. O'Connor,Shannon E. Perry,Marilyn J. Hockenberry,Deitra Leonard Lowdermilk,David Wilson,2021-10-21 The new Study Guide for Perry's Maternal Child Nursing Care in Canada is designed to help you review and master content from the core text and learn how to think critically in applying your knowledge Chapters parallel those in the text and provide review critical thinking applications engaging activities and more with an answer key at the back of the book This comprehensive study guide also contains case studies to help you integrate information and develop the critical thinking clinical reasoning and clinical

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