

11 THE CARDIOVASCULAR SYSTEM



The major structures of the cardiovascular system, the heart and blood vessels, play a vital role in human physiology. The major function of the cardiovascular system is transportation. Using blood as the transport vehicle, the system carries nutrients, gases, wastes, antibodies, electrolytes, and many other substances to and from body cells. Its propulsive force is the contracting heart.

The anatomy and location of the heart and blood vessels and the important understandings of cardiovascular physiology (for example, cardiac cycle, ECG, and regulation of blood pressure) are the major topics of this chapter.

THE HEART

Anatomy of the Heart

1. Complete the following statements by inserting your answers in the answer blanks.

1. Thorax
2. Diaphragm
3. Second
4. Aorta
5. Right Atrium
6. Atrium
7. Ventricles
8. Endocardium
9. Epicardium

The heart is a cone-shaped muscular organ located within the (1). Its apex rests on the (2), and its base is at the level of the (3) rib. The coronary arteries that nourish the myocardium arise from the (4). The coronary sinus empties into the (5). Relative to the roles of the heart chambers, the (6) are receiving chambers, whereas the (7) are discharging chambers. The membrane that lines the heart and also forms the valve flaps is called the (8). The outermost layer of the heart is called the (9). The fluid that fills the pericardial sac acts to decrease (10) during heart activity. The heart muscle, or myocardium, is composed of a specialized type of muscle tissue called (11).

10. Friction
11. Cardiac muscle

Anatomy Cardiovascular System Packet

Catherine M. Otto



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Autonomic Nervous System and Cardiovascular Diseases: From Brain to Heart Lilei Yu, Hong Jiang, Yan Yao, Deyong Long, Sunny Po, 2022-05-25 *Scientific and Technical Aerospace Reports*, 1980 **Transesophageal Echocardiography for Pediatric and Congenital Heart Disease** Pierre C. Wong, Wanda C. Miller-Hance, 2021-07-17 This extensively revised textbook reviews the use of transesophageal echocardiography TEE in pediatric and young adult patients with cardiac disease It reviews how TEE has made a vital contribution to these patients successful and continually improving clinical outcomes enabling them to live well into adulthood The book details the evolving technology and applications of TEE including three dimensional TEE describing how this imaging approach remains at the forefront of clinical practice for pediatric patients and those with congenital heart disease CHD Transesophageal Echocardiography for Pediatric and Congenital Heart Disease represents a unique contribution as the only contemporary text to focus exclusively on the clinical application of TEE in children and all patients with CHD Written by numerous prominent specialists in the field it presents a comprehensive modern and integrated review of the subject Specific chapter topics include the physics and instrumentation of TEE structural and functional evaluation and specialized aspects of the examination with emphasis on the technical considerations pertinent to both pediatric and adult patients with a variety of congenital and acquired cardiovascular pathologies Consequently it serves as a comprehensive reference for the TEE evaluation of CHD utilizing the segmental approach to diagnosis and discussing the TEE evaluation of the many anomalies encompassing the CHD spectrum In addition numerous other relevant topics are discussed including application of TEE for perioperative and interventional settings The book is richly illustrated with many chapters supplemented by illustrative case studies and accompanying videos A specific section with multiple choice questions and answers is provided at the end of each chapter to reinforce key concepts This textbook therefore provides an invaluable and indispensable resource for all trainees and practitioners using TEE in the management of CHD and pediatric patients **Library of Congress Subject Headings** Library of Congress, Library of Congress. Subject Cataloging Division, Library of Congress. Office for Subject Cataloging Policy, 2013 **Library of Congress Subject Headings** Library of Congress. Office for Subject Cataloging Policy, 1992 **Introduction to Molecular Biophysics** Jack A. Tuszynski, Michal Kurzynski, 2003-02-26 Molecular biophysics is a rapidly growing field of research that plays an important role in elucidating the mysteries of life s molecules and their assemblies as well as the relationship between their structure and function Introduction to Molecular Biophysics fills an existing gap in the literature on this subject by providing the reader with th **Library of Congress Subject Headings** Library of Congress. Cataloging Policy and Support Office, 2004 *Pathophysiology: A Practical Approach* Lachel Story, 2014-03-14 Pathophysiology A Practical Approach Second Edition is a must have text for teaching undergraduates the complex concepts related to pathophysiology The Second edition offers an innovative user friendly approach to this subject and serves as a practical

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Boston Medical and Surgical Journal ,1851 Elsevier's Clinical

Skills Manual, Medical-Surgical Nursing, 1SAE, e-Book Daisy Thomas,2020-09-03 Dr Daisy Thomas is currently working as Assistant Professor at Raj Kumari Amrit Kaur College of Nursing Lajpat Nagar New Delhi She has completed her Masters in Nursing with distinction from Delhi University and Doctorate in Nursing from IGNOU She has also held the position of Registrar Delhi Nursing Council from 2016 to 2019 She is an experienced nursing teacher of Medical Surgical Nursing and has been tutoring graduate and postgraduate students of Delhi University for the past three decades She is the research guide for postgraduate students of Delhi University She has been examiner for many universities of India and have presented papers at state and national level workshops and conferences She has several publications to her credit both as single author as well as co author and has published in national and international journals She has been the adaptation editor for the First South Asia edition of Potter Perry s Fundamentals of Nursing Fully compliant with the new syllabus prescribed by the Indian Nursing Council Content organized in sections and chapters text presented in points Steps of procedures are based on current and best practices Chapter content presented under heads like Overview Supplies Child and Family Education Assessment and Preparation Procedure Monitoring and Care Expected Outcomes and Documentation Content richly supported by figures and tables ideas related to the procedures available on the MedEnact website *The Saturday Review of Politics, Literature, Science and Art* ,1861 **Smart Modeling for Engineering Systems** Alena V.

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