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## Chapter 9 Cardiovascular System

### Chapter Objectives

Upon completion of this chapter the participant will be able to:

1. List the major structures of the cardiovascular system.
2. Discuss the functions of the cardiovascular system.
3. Name the three layers of the heart wall.
4. Label the major structures of the heart on a diagram.
5. Describe the system that allows contraction of the heart and circulation of blood.
6. Describe the flow of blood through the body.
7. Differentiate between the three types of blood vessels.
8. Define the components of blood pressure.
9. List the common components of blood.
10. Describe the functions of the blood components.
11. Analyze, define and spell the terms related to the cardiovascular system.
12. Successfully complete the exercises at the end of the chapter.

In order for the trillions of cells in the body to remain healthy they need to have a continuous supply of oxygen and nutrients. This is achieved because of the cardiovascular system. The parts of the cardiovascular system work together to deliver the needed oxygen and nutrients to the body tissues. A second function of the system is to then carry the waste products produced by the body tissues to the areas of the body where they can be eliminated. Blood cells contained in the circulating blood also play an important role in the immune system of the body.

When defined the term *cardiovascular* means pertaining to the heart and blood vessels. The components of this system include:

- Heart
- blood vessels
- blood

### Types of Blood Vessels

- *arteries* to carry blood away from the heart
- *veins* to carry blood toward the heart
- *capillaries* which are tiny vessels that join the arteries to the veins and they carry blood to the body organs.

### Structures of the Heart

The heart is a hollow muscular organ, which is about the size of your fist, and weights about eleven ounces. It is the contraction of this organ that provides the power to move blood through the vascular system of the body. The root word for heart is *cardi/o*.

# Chapter 9 The Cardiovascular System

**Kent Van de Graaff, R. Rhee, Sidney  
Palmer**



## **Chapter 9 The Cardiovascular System:**

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*The Cardiovascular System* Alan Noble,2005 A textbook on the cardiovascular system for medical students offering an integrated coverage of the basic science and major diseases of the system Integrated coverage of the structure function and major diseases of the cardiovascular system highly suitable for systems courses as taught in the new medical curriculum Coverage of the basic science is clinically driven a common clinical presentation introduces each major topic Clinical cases are used and explained in the chapter rather than merely being

present to provide additional interest Coverage of major diseases of the cardiovascular system equips students for the contact with patients which now occurs much earlier in the medical course Attractive open two colour page design with objectives defined at the start of each chapter and self assessment at the end **AACN Essentials of Progressive Care Nursing, Second Edition** Marianne Chulay, Suzanne M. Burns, 2010-08-23 The authoritative evidence based coverage you need to safely and competently care for adult critically ill patients and their families or prepare for the critical care nursing certification exam Endorsed by the American Association of Critical Care Nurses and written by top clinical experts in acute care nursing this textbook thoroughly covers all the need to know details on the care of adult critically ill patients and their families Supported by helpful tables and algorithms the book s practical building block organization starts with the basics before proceeding to more complex concepts paralleling the blueprint for the critical care nursing CCRN certification examination AACN Essentials of Critical Care Nursing is divided into four logical sections which taken as a whole will give you complete understanding of this challenging area of nursing practice The Essentials provides fundamental information that new clinicians must understand to provide safe competent nursing care to all critically ill patients regardless of their underlying medical diagnosis Pathological Conditions covers pathologic conditions and management strategies commonly encountered in all adult critical care units Advanced Concepts in Caring for the Critically Ill Patient presents advanced critical care concepts or pathologic conditions that are less common or more specialized than those generally found in adult critical care units Key Reference Information includes reference information that you will find helpful in a clinical environment such as normal laboratory and diagnostic values algorithms for advanced cardiac life support and summary tables of critical care drugs and cardiac rhythms Each chapter begins with Knowledge Competencies that can be used to gauge your progress This edition is compatible with ECCO Essentials of Critical Care Orientation the online program offered by the American Association of Critical Care Nurses [Instructor's guide for Medical terminology, a systems approach](#) Barbara A. Gyls, 1996-09 *Schaum's Easy Outline of Human Anatomy and Physiology* Kent Van De Graaff, R. Ward Rhee, 2001-08-14 Boiled down essentials of the top selling Schaum s Outline series for the student with limited time What could be better than the bestselling Schaum s Outline series For students looking for a quick nuts and bolts overview it would have to be Schaum s Easy Outline series Every book in this series is a pared down simplified and tightly focused version of its predecessor With an emphasis on clarity and brevity each new title features a streamlined and updated format and the absolute essence of the subject presented in a concise and readily understandable form Graphic elements such as sidebars reader alert icons and boxed highlights stress selected points from the text illuminate keys to learning and give students quick pointers to the essentials Designed to appeal to underprepared students and readers turned off by dense text Cartoons sidebars icons and other graphic pointers get the material across fast Concise text focuses on the essence of the subject Delivers expert help from teachers who are authorities in their fields Perfect for last minute test preparation So small and

light that they fit in a backpack

**The Pressure Pulses in the Cardiovascular System** Carl John Wiggers, 1928 Wiggers was a physiology professor at the Western Reserve University in Cleveland He contributed to the knowledge of circulation and devised several instruments to promote the study on this subject

*Bates' Guide to Physical Examination and History Taking* Lynn S. Bickley, Robert A. Hoekelman, 1999 This classic bestseller is popular with students and teachers alike Now completely revised and updated it maintains the easy to use format that is the hallmark of earlier editions Comprehensive yet to the point and with emphasis throughout on clinical thinking the book provides the best foundation for learning to perform physical examination and history taking Students learn to ask the right questions and to understand the answers A logical two column format places examination procedures and proper techniques on the left and common abnormalities and possible interpretations on the right Highly visual now featuring hundreds of new images illustrations are strategically placed adjacent to relevant information enhancing understanding Tables of abnormalities appear at the end of each chapter enabling the reader to compare and contrast abnormal findings

**Eisenhower's Heart Attack** Clarence G. Lasby, 1997 Previous Eisenhower biographers have touched on his heart condition but Clarence Lasby is the first to examine the impact of the president's health on the nation He offers a dramatic revisionist account of the events surrounding the president's 1955 heart attack and subsequent efforts by the president and his staff to minimize its political impact Drawing on newly opened medical records and personal papers of Eisenhower's physicians Lasby challenges virtually everything we have believed about the president's heart attack Most disturbingly he has discovered that the president's personal physician Dr Howard Snyder misdiagnosed the attack as a gastrointestinal problem and waited ten hours before sending Eisenhower to the hospital Lasby also sets the record straight on how the president and his aides managed the public's understanding of events and he offers evidence that Eisenhower Dr Snyder and press secretary James Hagerty withheld and recast information to serve the president's political priorities Equally important Lasby's book offers a touching portrait of a proud man faced with a debilitating disease It examines Ike's private struggle to lead a full life despite his condition and analyzes his decision to seek a second term even against the advice of cardiologist Paul Dudley White It also shows how a man who had always carefully joked after his health now became obsessed with it

**Cardiovascular engineering**, 1983

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