

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

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CVP; the Journal of Cardiovascular and Pulmonary Technology, 1981 **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

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