

Unit J: Circulation & Blood
BASIC FUNCTIONS OF THE CIRCULATORY SYSTEM

1. Transports oxygen from lungs to tissue
2. Transports carbon dioxide from tissue to lungs
3. Absorbs and transports nutrients from small intestine to tissues
4. Absorbs and transports water from stomach, small and large intestine to tissues and lungs
5. Carries waste products (urea, ammonia...) to kidneys for removal
6. Transports hormones from glands to target organs
7. Distributes body heat from internal source to peripheral skin for dissipation
8. Maintains pH in tissues (acts as a buffer with HHb)
9. Regulates fluid levels in tissues (along with the Lymphatic system)
10. Seals punctures in the skin or elsewhere by forming a blood clot; thus, preventing loss of blood and body fluids
11. Fights infection; involved in body defense

A. The Five Types of Blood Vessels

Basis of Comparison	Function	Structure	Location
Arteries	Transport blood AWAY from the heart	Thick, elastic walls	Usually deep, along bones
Arterioles	Control blood flow to capillaries	Thick, elastic walls, precapillary sphincters, thinner walls	Leading towards all capillaries
Capillaries	Interconnect arterioles to venules	Very thin (1 cell thick) walls	Everywhere; within a few cells of each other
Venules	Drain blood from capillaries and join to form a vein	Thinner walls than veins	Often on the surface
Veins	Transport blood TOWARDS the heart	Thin walls; contain valves	Often on the surface surrounded by skeletal muscle

1. **ARTERIES:** (see page 226)
2. **ARTERIOLES:** (see page 227)
3. **CAPILLARIES:** (see page 241)
4. **VENULES:** (see page 227)
5. **VEINS:** (see page 226)

Circulatory And Blood Study Guide

Barbara Aehlert



Circulatory And Blood Study Guide:

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known and respected specialist in the field provides the reader with authoritative coverage of what the EMT needs to know perfectly balanced between the question bank and the more comprehensive traditional text The presentation is clear and concise making the text an excellent addition to the EMT student s resources as well as a perfect tool to use in reviewing for refresher courses 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 education in order to understand the pathogenesis and optimum care of a variety of critical illnesses we have substantially revised the prior topics in the first 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 coronary 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

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