

740 CHAPTER 19 • THE CARDIOVASCULAR SYSTEM: THE BLOOD

a period of infection, phagocytic WBCs may live only a few hours. WBCs are far less numerous than red blood cells; at about 5000–10,000 cells per microliter of blood, they are outnumbered by RBCs by about 700:1. **Leukocytosis** (loo'-kō-si-TŌ-sis), an increase in the number of WBCs above 10,000/ μ L, is a normal, protective response to stresses such as invading microbes, strenuous exercise, anesthesia, and surgery. An abnormally low level of white blood cells (below 5000/ μ L) is termed **leukopenia** (loo'-kō-PĒ-nē-ā). It is never beneficial and may be caused by radiation, shock, and certain chemotherapeutic agents.

The skin and mucous membranes of the body are continuously exposed to microbes and their toxins. Some of these microbes can invade deeper tissues to cause disease. Once pathogens enter the body, the general function of white blood cells is to combat them by phagocytosis or immune responses. To accomplish these tasks, many WBCs leave the bloodstream and collect at sites of pathogen invasion or inflammation. Once granular leukocytes and monocytes leave the bloodstream to fight injury or infection, they never return to it. Lymphocytes, on the other hand, continually recirculate—from blood to interstitial spaces of tissues to lymphatic fluid and back to blood. Only 2% of the total lymphocyte population is circulating in the blood at any given time; the rest is in lymphatic fluid and organs such as the skin, lungs, lymph nodes, and spleen.

RBCs are contained within the bloodstream, but WBCs leave the bloodstream by a process termed **emigration** (em'-i-GRĀ-shun; *e-* = out; *-migr-* = wander), also called **diapedesis** (di-ā-pe-DE-sis), in which they roll along the endothelium, stick to it, and then squeeze between endothelial cells (Figure 19.8). The precise signals that stimulate emigration through a particular blood vessel vary for the different types of WBCs. Molecules known as **adhesion molecules** help WBCs stick to the endothelium. For example, endothelial cells display adhesion molecules called **selectins** in response to nearby injury and inflammation. Selectins stick to carbohydrates on the surface of neutrophils, causing them to slow down and roll along the endothelial surface. On the neutrophil surface are other adhesion molecules called **integrins**, which tether neutrophils to the endothelium and assist their movement through the blood vessel wall and into the interstitial fluid of the injured tissue.

Neutrophils and macrophages are active in **phagocytosis** (fag'-ō-si-TŌ-sis); they can ingest bacteria and dispose of dead matter (see Figure 3.13). Several different chemicals released by microbes and inflamed tissues attract phagocytes, a phenomenon called **chemotaxis** (kē-mō-TAK-sis). The substances that provide stimuli for chemotaxis include toxins produced by microbes; kinins, which are specialized products of damaged tissues; and some of the colony-stimulating factors (CSFs). The CSFs also enhance the phagocytic activity of neutrophils and macrophages.

Among WBCs, neutrophils respond most quickly to tissue destruction by bacteria. After engulfing a pathogen during phagocytosis, a neutrophil unleashes several chemicals to destroy the pathogen. These chemicals include the enzyme **lysozyme** (lī-sō-zim'), which destroys certain bacteria, and **strong oxidants**, such as the superoxide anion (O_2^-), hydrogen peroxide (H_2O_2), and the hypochlorite anion (OCl^-), which is similar to household bleach.

Figure 19.8 Emigration of white blood cells.



? In what way is the “traffic pattern” of lymphocytes in the body different from that of other WBCs?

Neutrophils also contain **defensins**, proteins that exhibit a broad range of antibiotic activity against bacteria and fungi. Within a neutrophil, vesicles containing defensins merge with phagosomes containing microbes. Defensins form peptide “spears” that poke holes in microbe membranes; the resulting loss of cellular contents kills the invader.

Eosinophils leave the capillaries and enter tissue fluid. They are believed to release enzymes, such as histaminase, that combat the effects of histamine and other substances involved in inflammation during allergic reactions. Eosinophils also phagocytize antigen–antibody complexes and are effective against certain parasitic worms. A high eosinophil count often indicates an allergic condition or a parasitic infection.

At sites of inflammation, basophils leave capillaries, enter tissues, and release granules that contain heparin, histamine, and serotonin. These substances intensify the inflammatory reaction and are involved in hypersensitivity (allergic) reactions. Basophils are similar in function to mast cells, connective tissue cells that originate from pluripotent stem cells in red bone marrow. Like basophils, mast cells release substances involved in inflammation, including heparin, histamine, and proteases. Mast cells are widely dispersed in

Cardiovascular Physiology Chapter 19 Of Principles And Practice Of Sleep Medicine

Alon Y. Avidan



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Kryger's Principles and Practice of Sleep Medicine - E-Book Meir H. Kryger, Thomas Roth, Cathy A Goldstein, 2021-12-16

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Principles and Practice of Sleep Medicine E-Book Meir H. Kryger, Thomas Roth, William C. Dement, 2010-11-01 Principles and Practice of Sleep Medicine 5th Edition by Meir H Kryger MD FRCPC Thomas Roth PhD and William C Dement MD PhD delivers the comprehensive dependable guidance you need to effectively diagnose and manage even the most challenging sleep disorders Updates to genetics and circadian rhythms occupational health sleep in older people memory and sleep physical examination of the patient comorbid insomnias and much more keep you current on the newest areas of the field A greater emphasis on evidence based approaches helps you make the most well informed clinical decisions And a new more user friendly full color format both in print and online lets you find the answers you need more quickly and easily Whether you are preparing for the new sleep medicine fellowship examination or simply want to offer your patients today's best care this is the one resource to use Make optimal use of the newest scientific discoveries and clinical approaches that are advancing the diagnosis and management of sleep disorders Stay on top of the hottest topics in sleep medicine with 56 new chapters including Postpartum Sleep Disturbances Fatigue Risk Management What does Brain Imaging Reveal about Sleep Genesis and Maintenance Physician Examination of the Sleep Patient Forensic Sleep Medicine Pathophysiology and Models of Insomnia Treatment of Insomnia Developing Treatment Guidelines Restrictive Lung Disorders Sleep Medicine in the Elderly Obstructive Obstructive Sleep Apnea Metabolic and Renal Disorders Sleep Apnea Obesity and Bariatric Surgery Sleep and Renal Disease Theories of Dreaming Why We Dream

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Principles and Practice of Sleep Medicine Meir H. Kryger, William C. Dement, 1989 This edition of the book on sleep medicine covers the basic sciences as well as sleep pathology in adults All information has been updated to encompass developments in this field New to this edition are topics related to the area of psychiatry circadian rhythms cardiovascular diseases and sleep apnea treatment and diagnosis

Potter and Perry's Canadian Fundamentals of Nursing - E-Book Barbara J. Astle, Wendy Duggleby, Patricia A. Potter, Anne G. Perry, Patricia A. Stockert, Amy Hall, 2023-02-15 Get the solid foundation you need to practise nursing in Canada Potter Perry's Canadian Fundamentals of Nursing 7th Edition covers the nursing concepts knowledge research and skills that are essential to professional nursing practice in Canada The text's full colour easy to use approach addresses the entire scope of nursing care reflecting Canadian standards culture and the latest in evidence informed care New to this edition are real life case studies and a new chapter on practical nursing in Canada Based on Potter Perry's respected Fundamentals text and adapted and edited by a team of Canadian nursing experts led by Barbara J Astle and Wendy Duggleby this book ensures that you understand Canada's health care system and health care issues as well as national nursing practice guidelines More than 50 nursing skills are presented in a clear two column format that includes steps and rationales to help you learn how and why each skill is performed The five step nursing process provides a consistent framework for care and is demonstrated in more than 20 care plans Nursing care plans help you understand the relationship between assessment findings and nursing diagnoses the identification of goals and outcomes the selection of interventions and the process for evaluating care Planning sections help nurses plan and prioritize care by emphasizing Goals and Outcomes Setting Priorities and Teamwork and Collaboration More than 20 concept maps show care planning for clients with multiple nursing diagnoses UNIQUE Critical Thinking Model in each clinical chapter shows you how to apply the nursing process and critical thinking to provide the best care for patients UNIQUE Critical Thinking Exercises help you to apply essential content Coverage of interprofessional collaboration includes a focus on patient centered care Indigenous peoples health referencing the Truth and Reconciliation Commission TRC Report the CNA Code of Ethics and Medical Assistance in Dying MAID legislation Evidence Informed Practice boxes provide examples of recent state of the science guidelines for nursing practice Research Highlight boxes provide abstracts of current nursing research studies and explain the implications for daily practice Patient Teaching boxes highlight what and how to teach patients and how to evaluate learning Learning objectives key concepts and key terms in each chapter summarize important content for more efficient review and study Online glossary provides quick access to

definitions for all key terms **Sleep Disorders Medicine E-Book** Sudhansu Chokroverty,2009-09-09 Dr Sudhansu Chokroverty a world recognized expert in sleep medicine presents the third edition of Sleep Disorders Medicine for the latest developments in this rapidly expanding specialty with coverage of neuroscience and clinical application In addition to summarizing basic science and important technological aspects of diagnosis and treatment this edition presents new chapters on sleep and memory consolidation neuroimaging and more in a color layout that makes it easy to access the latest advances in the field The text s manageable size and logical multi disciplinary approach make it the right choice for newcomers and experienced clinicians alike Covers all aspects of sleep medicine in a practical logical format divided into three sections the basic science of sleep physiology neuroanatomy and biochemistry the technical methods of recording and a clinical approach to patients with sleep complaints Represents the breadth of knowledge across disciplines through the contributions of 50 prominent names in the field of sleep medicine Provides a multidisciplinary approach to the diagnosis and management of sleep disorders with coverage of related fields such as pulmonology otolaryngology and psychiatry Includes a Glossary of Terms adapted from the American Sleep Disorders Association for quick reference to the sleep terminology used throughout the text Demonstrates how recent basic science advances affect clinical medicine through new chapters on Sleep Deprivation and Sleepiness Sleep and Memory Consolidation Neuroimaging in Sleep and Sleep Disorders Nutrition and Sleep Nature and Treatment of Insomnia Evolution of Sleep from Birth through Adolescence Sleep Disordered Breathing in Children and Women s Sleep Improves on the clarity and consistency of the text with a new completely redrawn art program including full color illustrations in the clinical section that enhances diagnostic material [Principles and Practice of Pediatric Sleep Medicine](#) Stephen H. Sheldon,Richard Ferber (M.D.),Meir H. Kryger,2005 This companion to Kryger et al s PRINCIPLES AND PRACTICE OF SLEEP MEDICINE focuses on the diagnosis and treatment of a full range of sleep disorders in children Recognised leaders in the field offer definitive guidance on virtually all of the sleep associated problems encountered in paediatrics from sleep and colic to obstructive sleep apnea neurological disorders and hypersomnias to sleep related enuresis As a reference book this edition should hold its value for a long time Editors Sheldon Ferber Kryger and Gozal deserve appreciation for their masterly compilation eBook version naturally adds further versatility and ease for the readers Reviewed by British Association for Community Child Health BACCH Nov 2014 Presents up to date information of the field s hottest topics in chapters on Pharmacology of Sleep in Children Epidemiology of Sleep Disorders During Childhood Circadian Rhythm Disorders Diagnosis and Treatment and Differential Diagnosis of Pediatric Sleep Disorders Organizes information into separate sections covering normal and abnormal sleep for quick reference Makes further investigation easy with abundantly referenced chapters Addresses both medical and psychiatric sleep disorders Features the expertise of Drs Sheldon Kryger and Ferber renowned authorities in the field of sleep medicine **Review of Sleep Medicine E-Book** Alon Y. Avidan,2017-06-29 Successfully review sleep medicine whether you plan to improve your sleep medicine competency skills

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Michael J. Aminoff, 2012-04-02 Appropriately select implement and interpret electrodiagnostic tests to identify a full range of central and peripheral nervous system disorders with Aminoff's Electrodiagnosis in Clinical Neurology Covering everything from basic principles to the latest advances in electrodiagnosis this medical reference book helps you make optimal use of this powerful but complex diagnostic modality in compliance with regulatory and professional standards so you can diagnose patients accurately and initiate effective treatment and management strategies Deepen your understanding of the principles scope limitations diagnostic importance prognostic relevance and complications for each technique Visually grasp the technical and practical aspects of electrodiagnostic tests with almost 800 charts figures and tables Rely on the knowledge experience and perspective of renowned expert Dr Michael J Aminoff and an international team of contributors comprised of a virtual who's who of clinical neurophysiology Keep up with developments in the field through significant updates including new chapters on Artifacts and Normal Variants in the Electroencephalogram Microneurography Clinical Applications of Nerve Excitability Testing Ultrasound of Muscle and Nerve The Blink Reflex and Other Brainstem Reflexes Visual Evoked Potentials Electroretinography and Other Diagnostic Approaches to the Visual System and Magnetic Stimulation in Clinical

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Fundamentals of Sleep Technology Nic Butkov, Teofilo L. Lee-Chiong, 2007 This text provides a thorough understanding of the use of polysomnography and other technologies in the evaluation and management of sleep disorders Coverage includes in depth reviews of the neurophysiology and cardiopulmonary aspects of sleep and the pathophysiology of sleep disorders Detailed sections on polysomnography include recording procedures identifying and scoring sleep stages and sleep related events and report generation Chapters discuss therapeutic interventions including positive airway pressure supplemental oxygen surgical and pharmacologic treatments and patient education A section focuses on pediatric sleep disorders and polysomnography Also included are chapters on establishing and managing a sleep center and accrediting a sleep program

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