

## Focus

## Overview

Before beginning this section review with your students the objectives listed in the Student Edition. This section introduces students to the nonspecific defenses of the human body, including skin and mucous membranes. Students will then learn that pathogens that make it past the first line of defense face the inflammatory and temperature responses that can be very effective in killing the invader.

## Bellringer

Ask students to make a list of the many ways the body prevents infectious organisms from entering. (skin, mucous membranes, nose hairs, etc.) When they are finished, have them share their lists. Ask them if the barriers on their lists can distinguish between the types of infections and can prevent specific ones. (no) TAKS 2 See 15A

## Motivate

## Discussion

Basic

Ask students what happens when they get a wood splinter in their finger and they don't get it out within the first day or so. (The area turns red, becomes sore, and may swell.) What happens after several more days, if the splinter isn't removed? (Pus may form around the splinter; years ago this was called "festering.") Ask them why they think the pus is whitish in color. (White blood cells are converging on the area of the wood splinter and it is being digested.) 15 Verbal TAKS 2 See 15A, 15B 11B

## ★ TEKS/TAKS

pp. 924–925

## Student Edition

TAKS Obj 2 See 4B  
TAKS Obj 2 See 15A  
TAKS Obj 2 See 15B  
TAKS Obj 3 See 4D  
TEKS See 4B, 4D, 15A, 15B

## Teacher Edition

TAKS Obj 2 See 15A, 15B  
TEKS See 4B, 4D, 15A, 15B, 11B, 11D

## Objectives

- Describe how skin and mucous membranes defend the body. 15A, 15B TAKS 2
- Compare the inflammatory response with the temperature response. 15A, 15B TAKS 2
- Identify proteins that kill or inhibit pathogens. 15A, 15B TAKS 2
- Analyze the roles of white blood cells in combating pathogens. 15A, 15B TAKS 2

## Key Terms

pathogen  
mucous membrane  
inflammatory response  
histamine  
complement system  
interferon  
neutrophil  
macrophage  
natural killer cell

## Two Lines of Nonspecific Defenses

Some animals, including turtles, clams, and armadillos, defend themselves with their hard armor shells. However, even armor will not protect against the most dangerous enemies that they or the human body faces—harmful bacteria, viruses, fungi, and protozoa. You, as well as most animals, survive because your body's immune system defends against these pathogens. A **pathogen** is a disease-causing agent. The immune system consists of cells and tissues found throughout the body. The body uses both nonspecific and specific defense mechanisms to detect and destroy pathogens, thereby preventing or reducing the severity of infection. 1

## First Line of Nonspecific Defenses

The body's surface defenses are nonspecific, meaning they do not target specific pathogens. Your skin is the first of your immune system's nonspecific defenses against pathogens. Skin acts as a nearly impenetrable barrier to invading pathogens, keeping them outside the body. This barrier is reinforced with chemical weapons. Oil and sweat make the skin's surface acidic, inhibiting the growth of many pathogens. Sweat also contains the enzyme lysozyme, which digests bacterial cell walls. 1 2

Mucous membranes cover some body surfaces that come into contact with pathogens. **Mucous** (MEYOO-kooz) **membranes** are layers of epithelial tissue that produce a sticky, viscous fluid called mucus. Mucous membranes line the digestive system, nasal passages, lungs, respiratory passages, and the reproductive tract. Like the skin, mucous membranes serve as a barrier to pathogens and produce chemical defenses. Cells lining the bronchi and bronchioles in the respiratory tract secrete a layer of mucus that traps pathogens before they can reach the warm, moist lungs, which are an ideal breeding ground for microorganisms. Cilia on cells of the respiratory tract continually sweep mucus toward the opening of the esophagus. Mucus then can be swallowed, sending pathogens to the stomach, where they are digested by acids and enzymes. 3

Skin and mucous membranes work to prevent any pathogens from entering the body. Occasionally these defenses are penetrated. You take pathogens into your body when you breathe, because many microbes and microbial spores are suspended in the air. Other pathogens may be present in the food you eat. Pathogens can also enter through wounds or open sores. When invaders reach deeper tissue, a second line of nonspecific defenses takes over. 3

924

## Chapter Resource File

- Lesson Plan Green
- Directed Reading Red
- Active Reading Green

## ★ One-Stop Planner CD-ROM

- Reading Organizers Red
- Reading Strategies Red
- Occupational Application Worksheet Sanitarian Green

## Attention Grabber

**SCID** To illustrate our dependence on a functional immune system, show students a picture of David, the “boy in the bubble.” David was born with severe combined immune deficiency (SCID), a disease characterized by the inability to produce B cells and T cells, which play key roles in the immune system. SCID patients must live in a protected environment because the slightest infection can lead to death. David died at the age of 12 after an unsuccessful bone marrow transplant. TAKS 2 See 15A, 15B (grade 11 only)

# Nonspecific Defenses Study Guide

**Neil A. Campbell**



## **Nonspecific Defenses Study Guide:**

**Study Guide to Accompany Introduction to Critical Care Nursing** Dawn Ellen Zimmerman, Mary Lou Sole, Marilyn L. Lamborn, Jeanette Hartshorn, 2000-11 Concept maps for each chapter in the parent text help your students sharpen their critical thinking skills and numerous multiple choice review questions challenge their knowledge of each chapter's content. Additional exercises such as crossword puzzles also facilitate learning and key point summaries bring it all together.

*Study Guide for The Human Body in Health and Illness - E-Book* Barbara Herlihy, 2021-06-26 Get the most out of your A/P textbook with this practical review. Corresponding to the chapters in *The Human Body in Health and Illness* 7th Edition, this study guide makes it easy to understand, remember, and apply basic Anatomy/Physiology. Engaging exercises, activities, and quizzes help students learn the most important A/P concepts and terminology. Each chapter includes three parts: Mastering the Basics with matching, ordering, labeling, diagram reading, similars and dissimilars, and coloring exercises; Putting It All Together including multiple choice practice quizzes and case studies; Challenge Yourself featuring critical thinking questions and puzzles. Coloring activities help you study and remember the details of anatomy. Page references from the textbook are included with the questions, helping you locate the information needed for self-remediation. Objectives at the beginning of each chapter reinforce the learning goals of the textbook and set a framework for study. NEW! Updated content throughout matches the new and revised content and new emphases of the 7th edition of Herlihy's *The Human Body in Health and Illness* textbook.

*Student Study Guide for Biology [by] Campbell/Reece* Martha R. Taylor, 2002 Marty Taylor, Cornell University Provides a concept map of each chapter, chapter summaries, a variety of interactive questions, and chapter tests.

*Student Study Guide for Biology [by] Campbell/Reece/Mitchell* Martha R. Taylor, 1999 **National Registry Paramedic**

**Prep: Study Guide + Practice + Proven Strategies** Kaplan Medical, 2022-04-05 Kaplan's National Registry Paramedic Prep provides essential content and focused review to help you master the national paramedic exam. This paramedic study guide features comprehensive content review, board-style practice questions, and test-taking tips to help you face the exam with confidence. It's the only book you'll need to be prepared for exam day. Essential Review: New EMS Operations chapter with practice questions. Concise review of the material tested on the NRP exam, including physiology, pathophysiology, pharmacology, cardiology, respiratory, and medical emergencies, shock, trauma, obstetrics, and gynecology, pediatrics, the psychomotor exam, and more. Full-color figures and tables to aid in understanding and retention. Realistic practice questions with detailed answer explanations in each chapter. Overview of the exam to help you avoid surprises on test day. Expert Guidance: We invented test prep. Kaplan, www.kaptest.com, has been helping students for 80 years, and our proven strategies have helped legions of students achieve their dreams. **Study Guide: Essential Biology with Physiology** Edward J. Zalisko, 2003-07 Students can master key concepts and earn a better grade with the thought-provoking exercises found in this study guide. Study advice, tables, quizzes, and crossword puzzles help students test their understanding of biology. The

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## **Table of Contents Nonspecific Defenses Study Guide**

1. Understanding the eBook Nonspecific Defenses Study Guide
  - The Rise of Digital Reading Nonspecific Defenses Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Nonspecific Defenses Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Nonspecific Defenses Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Nonspecific Defenses Study Guide
  - Personalized Recommendations
  - Nonspecific Defenses Study Guide User Reviews and Ratings
  - Nonspecific Defenses Study Guide and Bestseller Lists
5. Accessing Nonspecific Defenses Study Guide Free and Paid eBooks
  - Nonspecific Defenses Study Guide Public Domain eBooks
  - Nonspecific Defenses Study Guide eBook Subscription Services
  - Nonspecific Defenses Study Guide Budget-Friendly Options
6. Navigating Nonspecific Defenses Study Guide eBook Formats

- ePub, PDF, MOBI, and More
- Nonspecific Defenses Study Guide Compatibility with Devices
- Nonspecific Defenses Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Nonspecific Defenses Study Guide
  - Highlighting and Note-Taking Nonspecific Defenses Study Guide
  - Interactive Elements Nonspecific Defenses Study Guide
- 8. Staying Engaged with Nonspecific Defenses Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Nonspecific Defenses Study Guide
- 9. Balancing eBooks and Physical Books Nonspecific Defenses Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Nonspecific Defenses Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Nonspecific Defenses Study Guide
  - Setting Reading Goals Nonspecific Defenses Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nonspecific Defenses Study Guide
  - Fact-Checking eBook Content of Nonspecific Defenses Study Guide
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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