

Section 1

Focus

Overview

Before beginning this section 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, lungs, 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** **Bio 10A**

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 "festered.") 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.) **12** **Verbal** **TAKS 2** **Bio 10A**, **Bio 11B**

TEKS/TAKS

pp. 524–525

Student Edition

- TEKS 09:2 Bio 4B **0**
- TEKS 09:2 Bio 10A **0**
- TEKS 09:2 Bio 10B **0**
- TEKS 09:3 Bio 4D **0**
- TEKS Bio 4B, 4D, 10A, 10B

Teacher Edition

- TEKS 09:2 Bio 10A, 10B
- TEKS Bio 4B, 4D, 10A, 10B, 11B, 11D

Section 1

Nonspecific Defenses

Objectives

- **Describe** how skin and mucous membranes defend the body. **0** **TEKS 10A** **TAKS 2**
- **Compare** the inflammatory response with the temperature response. **0** **TEKS 10B** **TAKS 2**
- **Identify** proteins that kill or inhibit pathogens. **0** **TEKS 10C** **TAKS 2**
- **Analyze** the roles of white blood cells in combating pathogens. **0** **TEKS 10D** **TAKS 2**

Key Terms

- pathogen
- mucous membrane
- inflammatory response
- histamine
- complement system
- interferon
- 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 protists. 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** (MYOO-kuhs) **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. **1**

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**

Chapter Resource File

- Lesson Plan **Basic**
- Directed Reading **Basic**
- Active Reading **Intermediate**

One-Stop Planner CD-ROM

- Reading Organizers **Basic**
- Reading Strategies **Intermediate**
- Occupational Application Worksheet **Intermediate**

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** **Bio 10A, 10B (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.

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Memmler's Study Guide for the Human Body in Health and Disease Barbara J. Cohen,Dena Lin Wood,1999-12

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