

BODY DEFENSES

Innate Immune System

(Non-Specific Defenses)

Confers Non-specific Resistance

Adaptive Immune System

(Specific Defenses)

Confers Specific Resistance
(classical immunity)

Elements of the Innate Immune System

Physical Barriers

Epithelium

Sebaceous and Sweat Glands
gives surface of skin low pH

Lysozyme (in sweat and saliva)

Mucus (Digestive &
Respiratory Systems)

Phagocytes

Microphages (from Neutrophils)

Macrophages (primarily from
Monocytes)

Natural Killer Cells (NK Cells)

A kind of Lymphocyte

Carry out Immunological Surveillance
Attack cells with foreign chemical
signatures.

In the case of cancer cells,
they key in on

Tumor-Specific Antigens

Destroy targeted cells by releasing
Perforins

Cancer cells may avoid destruction
through **Immunological
Escape**

Interferons

A kind of cytokine (a local
chemical messenger)

Causes infected cells to produce
Antiviral Proteins

Complement System

Both a non-specific and
Specific Defense

Multiple circulating

Complement Proteins

Assemble to form a
**Membrane Attack Complex
(MAC)**

Inflammation (Inflammatory Response)

Redness, swelling (**edema**),
pain, and heat

Inflammation (continued)

Chemicals released:

Histamine (dilates local
blood vessels and
increases capillary
permeability)
(causes redness, heat,
and edema)

Heparin (retards
clotting)

Prostaglandins
(causes pain)

Fever

Hypothalamus acts as
thermostat

Pyrogens adjust body
temperature upwards

Fever raises metabolic rate

Probably creates an internal
environment inhospitable to the
temperature optimum of invaders

Adaptive Immune System

(confers specific immunity)

Involves T Cells and B Cells

T Cells (T Lymphocytes)

Cell-Mediated Immunity

B Cells (B Lymphocytes)

Antibody-Mediated Immunity

Inborn Immunity

Acquired Immunity

Active (Acquired Immunity)

Natural Active Acquired Immunity

Induced Active Acquired Immunity

(i.e., vaccine)

Passive (Acquired Immunity)

Natural Passive Acquired Immunity

Induced Passive Acquired Immunity

Characteristics of Adaptive Immune System

Specificity

Versatility

Memory

Tolerance

Two-pronged Defense

Antigen → Macrophage → Helper T Cell

Helper T Cell → Cytotoxic T Cell

Helper T Cell → B Cell → Plasma Cell → Antibodies

(continued)

Body Defenses Study Guide Answers

Bruce Wingerd, Patty Bostwick Taylor

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Table of Contents Body Defenses Study Guide Answers

1. Understanding the eBook Body Defenses Study Guide Answers
 - The Rise of Digital Reading Body Defenses Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Body Defenses Study Guide Answers
 - 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 Body Defenses Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Body Defenses Study Guide Answers
 - Personalized Recommendations
 - Body Defenses Study Guide Answers User Reviews and Ratings

- Body Defenses Study Guide Answers and Bestseller Lists
- 5. Accessing Body Defenses Study Guide Answers Free and Paid eBooks
 - Body Defenses Study Guide Answers Public Domain eBooks
 - Body Defenses Study Guide Answers eBook Subscription Services
 - Body Defenses Study Guide Answers Budget-Friendly Options
- 6. Navigating Body Defenses Study Guide Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Body Defenses Study Guide Answers Compatibility with Devices
 - Body Defenses Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Body Defenses Study Guide Answers
 - Highlighting and Note-Taking Body Defenses Study Guide Answers
 - Interactive Elements Body Defenses Study Guide Answers
- 8. Staying Engaged with Body Defenses Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Body Defenses Study Guide Answers
- 9. Balancing eBooks and Physical Books Body Defenses Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Body Defenses Study Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Body Defenses Study Guide Answers
 - Setting Reading Goals Body Defenses Study Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Body Defenses Study Guide Answers
 - Fact-Checking eBook Content of Body Defenses Study Guide Answers
 - 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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