

Chapter 40: The Immune System and Disease

40-1 Infectious Disease

- A disease is any change, other than injury, that disrupts the normal functions of the body
- Some diseases are inherited, others are caused by materials in the environment, and others are caused by agents such as bacteria, viruses, and fungi
- Disease causing agents are called pathogens
- The work of Louis Pasteur and Robert Koch led to the germ theory of disease, which states that infectious diseases are caused by microorganisms, or germs
- Koch's postulate, a series of guidelines still used today to identify the microorganisms that cause a specific disease:
 1. pathogen identified
 2. pathogen grown in pure culture
 3. pathogen injected into healthy lab mouse
 4. healthy mouse becomes sick
 5. pathogen identified
- Bacteria break down tissues and release toxins
- toxins are poisons that produce illness by disrupting bodily functions
- Viruses reproduce inside the host cell by using materials of the host cell to make copies of itself
- parasites are pathogens that live and feed inside infected organisms
- diseases are spread either by person to person contact, contaminated water or food, or infected animals
- STD's dangerous pathogens spread by sexual contact
- antibiotics kill bacteria without harming the cells of humans or animals

40-2 The Immune System

- The body first line of defense is to keep pathogens out
- 4 components of the first line are: skin, mucus, sweat, tears
- second line of defense comes into play when pathogens enter the body
- inflammatory response
- fever

Specific defenses

- antigens trigger immune responses
- 2 types of immune responses are Humoral immunity and Cell-mediated immunity

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Chapter 35 The Immune System

Chapter 35 - Immune System and Disease. STUDY. PLAY. Infectious Disease. disease caused by microorganisms that disrupt normal body functions. Germ Theory of Disease. idea that infectious diseases are caused by microorganisms. Koch's postulates. set of guidelines developed by Koch that helps identify the microorganism that causes a specific disease. Zoonosis. disease transmitted from animal ...

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Chapter 35: Immune System & Disease

Chapter 35: Immune System & Disease. Ms. Luaces. Honors Biology. Pathogens. 35.1 Infectious Disease. Pasteur & Koch came up with the germ theory of disease: infectious diseases occur when microorganisms cause physiological changes that disrupt normal body function. Can be caused by viruses, bacteria, fungi, protists and parasites . Except for parasites, all others known as pathogens. 35.1 ...

Chapter 35: Immune System & Disease

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Biology 2010 Student Edition Chapter 35, Immune System and ...

35.4 - Immune System Disorders Allergies Autoimmune Diseases Attack on the Immune System (HIV / AIDS) ALLERGIC REACTIONS triggered by antigens known as ALLERGENS the immune system attacks a nonharmful substance, such as pollen, pet dander, peanuts. AUTOIMMUNITY / AUTOIMMUNE DISORDERS: the immune system fails to properly "self" & attacks the body's own cells. Examples of Autoimmune ...

NOTES - Ch 35 Immune System and Disease.ppt

Immune System Disorders •Immune System Disorders are strong responses to harmless antigens. •Allergies- antigens trigger histamine release which produces inflammatory response. Antihistamine drugs block this process. •Asthma- chronic and dangerous. Airways narrow due to smooth muscle contraction.

Chapter 35 35.3 Fighting Infectious Disease The Immune ...

Immune system chapter 35. STUDY. PLAY. infectious disease. disease caused by pathogens. Germ Theory of Disease. idea that infectious diseases are caused by microorganisms. Pathogen. A disease causing agent. Koch's postulates. Set of rules for proving that a microorganism causes a specific disease. Zoonosis . Disease transmitted from animal to human. vector. an animal that transmits infection ...

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Assessment of Immune Function Chapter 35 NUR206 Medical-Surgical Nursing II: Perspectives and Assessment of Care NUR224 Nursing V: Advanced Concepts of Medical-Surgical Nursing NOTICE: Proprietary and Confidential This material is proprietary to Jersey College. It contains trade secrets and confidential information which is solely the property of Jersey College.

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Immune System and Disease CHAPTER 35 35.1 Infectious disease can be caused by viruses, fungi, bacteria, protists, and parasites. Some diseases are spread through coughing or physical contact with another person. Some diseases are spread through contaminated water or food or infected animals. 35.1 Continued Infectious diseases: occur when microorganisms cause physiological changes that disrupt ...

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Specific Defenses: The Immune System For Questions 9-14, complete each statement by writing the correct word or words. 9. The response is the body's response to specific invaders. 10. A substance that triggers the immune response is known as a(n) . 11. The main role of is to tag for destruction by immune-system cells. 12.

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