

## Unit 5: The Immune System

### OBJECTIVE ONE: function of the immune system

- Protects us from most bacteria, viruses, transplanted organs or grafts, also our own cells that have become cancerous

### OBJECTIVE TWO: innate v. adaptive immune system

Nonspecific defense mechanisms		Specific defense mechanisms (immune system)
First line of defense	Second line of defense	Third line of defense
<ul style="list-style-type: none"><li>• Skin</li><li>• Mucous membranes</li><li>• Secretions of skin and mucous membranes</li></ul>	<ul style="list-style-type: none"><li>• Phagocytes</li><li>• Antimicrobial proteins</li><li>• The inflammatory response</li></ul>	<ul style="list-style-type: none"><li>• Lymphocytes</li><li>• Antibodies</li><li>• Macrophages</li></ul>

Figure 43.4

- Innate immune system (first and second lines of defence) is non-specific, quick responding system:
  - o Body surface coverings (intact skin, mucous membranes)
  - o Specialized human cells
  - o Chemical produced by the body
- Adaptive immune system (third line of defence)
  1. Antigen specific: recognizes and acts against specific pathogens
  2. Systemic: action not restricted to initial infection site

3. Memory: recognizes and mounts stronger attack on previously encountered pathogens

### OBJECTIVE THREE AND FOUR: innate body defences and their workings

- First line of defence
  - o Acidic skin pH
  - o Saliva and lacrimal fluid
  - o Stomach mucosa secretions
  - o Mucus in digestive and respiratory pathways
- Second line of defence
  - o Natural Killer (NK) cells
    - Aggressive lymphocytes
    - Can lyse (dissolve) and kill cancer cells or virus-infected cells
    - Release chemicals called perforins to target the foreign cell's membrane and form pores, leading to apoptosis
  - o Inflammatory responses
  - o Phagocytes
  - o Antimicrobial proteins

### OBJECTIVE FIVE: inflammatory response

- Triggered when body tissues are injured
- Functions:
  - o Preventing spread of damaging agents
  - o Disposes of cell debris and pathogens through phagocytosis and sets up for repair
- Cardinal signs
  - o Redness (rubor)
  - o Heat (calor)
  - o Swelling (tumor)
  - o Pain (dolor)
  - o Loss of function (function laesa)
- Three stages inflammation
  1. Inflammatory response

# Immune System Power Notes Answers

**M Carnoy**



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