

Chapter 21 – The Immune System

1. Define pathogens:

2. Define innate immunity: **general protection mechanisms; nonspecific (Table 21.2)**

First line of defense: (barrier defenses)

- The first thing that the pathogen is up against
- Non-specific immunity
- Innate means that we are born with it.

All of the following have acidic qualities acid kill bacteria.

ALL NON-SPECIFIC

A. skin: contains keratin barrier, which blocks pathogens, and acidic sweat, which inhibits bacterial growth.

B. stomach: HCl and anti-microbial enzymes kill pathogens.
- Gastric juice

C. saliva: contains lysozyme (inhibits bacteria) and antibodies.

D. mucus:

Second line of defense: (cellular defenses)

E. phagocytes: found in every tissue; surround and engulf microbes.

F. natural killer cells: are defensive cells that can kill cancer and virus-infected cells before adaptive immunity is activated.

G. mast cells: granulocytes in the connective tissue.

H. interferons are small proteins secreted by virus-infected cells that tell other uninfected cells to produce proteins that prevent infection and alert NK cells.

I. complement: a family of 20 plasma proteins that circulate in the blood; these proteins activate each other in the presence of a pathogen and tag it to be destroyed or lyse the pathogen themselves; also amplifies the inflammation response.

J. fever: an increase in body temperature; induced by pyrogens secreted by WBCs and macrophages in response to infection signal hypothalamus to increase body temp, which speeds up repair of damaged tissues and increases metabolism.

3. Define inflammation: **MOST PREVALENT IMMUNITY RESPONSE TO TRAUMA OR INFECTION. IT IS NOT INNATE. THEREFORE, IT WILL INFLAME WHEN THERE ARE NO TROUBLING PATHOGENS. IT IS POORLY REGULATED.**

- Antihistamine reduces inflammation (Benadryl, Claritin, etc.).
 - o Only markets for allergies; inflammation to things that aren't pathogens.
- Does not stimulate pain receptors won't take away pain.

The Immune System Chapter 12 Packet

O García



The Immune System Chapter 12 Packet:

Embracing the Beat of Expression: An Psychological Symphony within **The Immune System Chapter 12 Packet**

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