

THE LYMPHATIC SYSTEM AND THE IMMUNE RESPONSE

NON-SPECIFIC IMMUNITY

Can you define each of these terms? Can you give an example and context of when you would see these attributes/cells/proteins/etc.?

- Physical barriers
- Phagocytes
- Natural Killer Cells – perforins
- Interferons
- Complement proteins
- Inflammation chemicals
- Pyrogens

SPECIFIC IMMUNITY

Can you define each of these terms? Describe the different types of specific immunity including what happens when the different cascades are enacted? Which are the key cells, what is their role/function? How do they carry it out? What types of “invaders” trigger what type of defense in which cells? When are antibodies engaged in defense – what is their role? What is the role of “memory” cells – what types of memory cells are made and what do they do?

- T-cell lymphocytes
 - Cytotoxic (killer) T cells
 - Helper T cells
 - Memory T cells
 - Suppressor T cells

- B-cell lymphocytes
 - Memory B cells

- Major histocompatibility complexes I and II
- Antigen presenting cells
- Antibodies

I gave detailed lectures on Specific immunity, but you need to read a bit about nonspecific immunity in your book – below are some helpful hints.

Read about Non-Specific Immunity in your textbook.

To help you direct your reading, please answer the following questions. You are responsible for this information. We will discuss this in class on Monday.

1) Can you list the types of barriers to invasion? They may be physical or chemical to block the entry of pathogens into the body.

2) What non-specific cellular defenses are present?

3) What are the major types of phagocytic cells?