Study Guide – Immune System

**Vocabulary**

Adaptive immunity
- Complement proteins
- Macrophage
- Antibody
- Cytokines
- Memory cell
- Antibody-mediated immunity
- Cytotoxic (“killer”) T cell
- Natural killer cells
- Antigen
- Effector cell
- Neutrophil
- Apoptosis
- Immunity
- Pathogen
- B lymphocyte (“B cell”)
- Innate immunity
- Plasma cell
- Cell-mediated immunity
- Lysozyme
- T lymphocyte (“T cell”)

**Important Concepts**

Know the differences between the adaptive and innate immune systems.

Understand the “three lines of defense” model of the immune system.

Which parts of the body are most important in the immune system?

Be able to list the major types of white blood cells that we talked about and their functions.

What do complement proteins and cytokines do?

Be familiar with the basic components of the lymph system (especially those parts most relevant to immunity).

How do surface barriers protect your body?

Understand the typical response of the innate immune system (who are the first defenders on the scene? what do they do? how do inflammation and fever relate to this?)

What are the 3 defining factors for adaptive immunity?

Understand the typical response of the adaptive immune system.

Be able to describe the different responses of B and T cells to a pathogen.

Why does rejection occur after an organ transplant? How can it be prevented?