Immune System

- What are the examples of barrier defenses
- What are the Nonspecific defenses and the Specific defenses, what are the differences.
- What are the functions of all the white blood cells discussed in this lecture and in the blood lecture.
- What are the three types of lymphocytes, which are part of the specific and which are part of the nonspecific defense system.
- How does the body mount an inflammatory response and what is the effect on the body.
- What are the functions of complement proteins and interferons.
- What is the function of major histocompatibility complex (MHC) markers
- T cells and B cells – where are they produced, where do they mature, where are they found once they have matured, are they part of the cell mediated or antibody mediated defenses?
- What are the types of T cells, what is the function of T cells?
- What are antibodies, how are they produced, What effect do they have. What are memory cells, plasma cells, and how does clonal selection work?
- What are “antigen-presenting cells” (APCs).
- What is the target of HIV
- How does HIV replicate itself (seven steps, including the enzymes needed)
- What are the targets of HIV drugs
- What are examples of autoimmune and immune system disease, what is the target of the autoimmune disease, what is the effect of allergies on the body.

Definitions: Antigen, antibodies, immunity, pathogen, lysozymes, histamines, permeable, transcription, translation, acquired immunity