

Problem Solving Questions
Immunology IV / Immunopathology

1. If the innate immune system (i.e., macrophages and neutrophils) serves as the first line of defense against microbial infections, can an individual that lacks T cells survive a microbial infection without treatment?
2. Autoimmunity results from a breakdown in tolerance to self antigens. Describe the three basic types of autoimmune diseases and give examples of each. Then, pick one of the types and consider a potential (or hypothetical) means by which tolerance might be re-instated.
3. What are the four key events of the inflammatory response? How do each of the events facilitate successful host defense?
4. What is septic shock? How do the otherwise normal (i.e. non-pathologic) events involved in the inflammatory process contribute to septic shock? What are potential immunotherapies that might be used to treat septic shock?