

CONCEPT: OVERVIEW OF HOST DEFENSES

- The human body contains three “lines” of _____ against infectious agents (pathogens)
 1. Mechanical and chemical boundaries (part of the *innate immune system*)
 - Includes _____, chemicals on body surface or inside the body which target infectious agents
 2. **Innate immune system** components including:
 - *Phagocytic cells* (white blood cells, macrophages) which take up _____
 - *Complement system* that includes proteins that bind directly to pathogens for destruction
 - Inflammation of infected tissues
 3. **Adaptive immune system** components including:
 - *B cells* which produce *antibodies* (antibody response)
 - *T cells* which can act to kill other infected cells, or the pathogen itself (T cell response)
- The innate immune response is more _____ than the adaptive immune response
 - Typically, the innate immune response activates the adaptive immune response

PRACTICE:

1. True or False: The adaptive immune response is the first immune response a host initiates against a pathogen.
 - a. True
 - b. False
2. Which of the following immune system components are not a part of the innate immune system?
 - a. B cells
 - b. Phagocytic Cells
 - c. Complement system
 - d. Inflammatory cytokines