

This study guide is based on Holt Biology Ch 40: **The Body's Defenses**

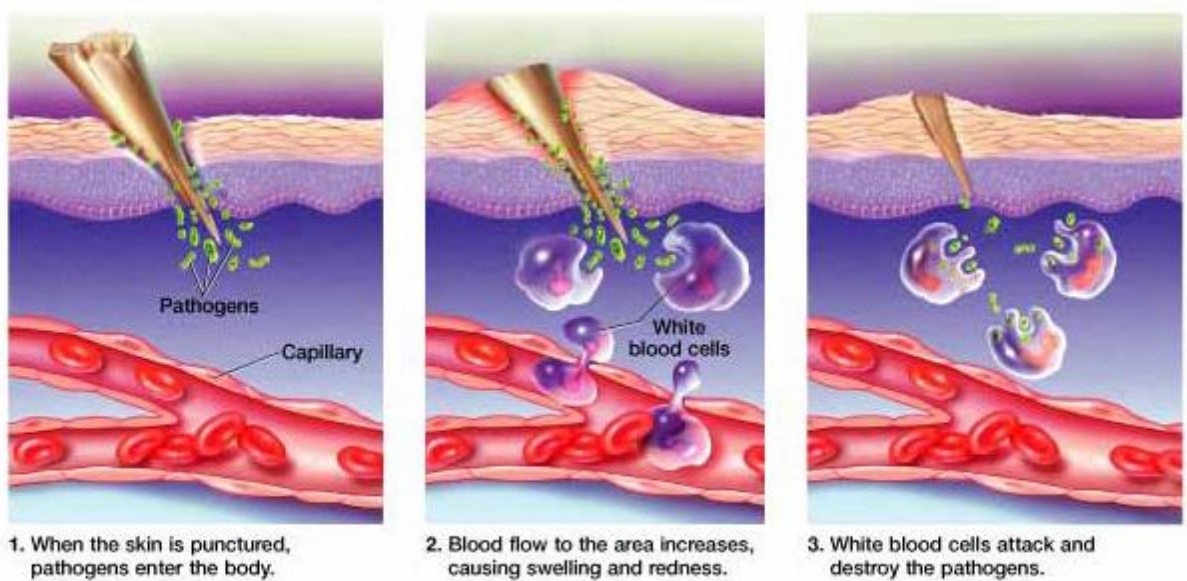
You can access the Online Holt Biology Text found at <http://my.hrw.com/index.jsp?redirect> (Link on class website) See the whiteboard in the classroom for login information or email me at sognck@osd.wednet.edu .

Section 1: Use the image on p. 925 to help explain:

- a. Describe how skin and mucous membranes defend the body.
- b. Compare the inflammatory response with the temperature response.

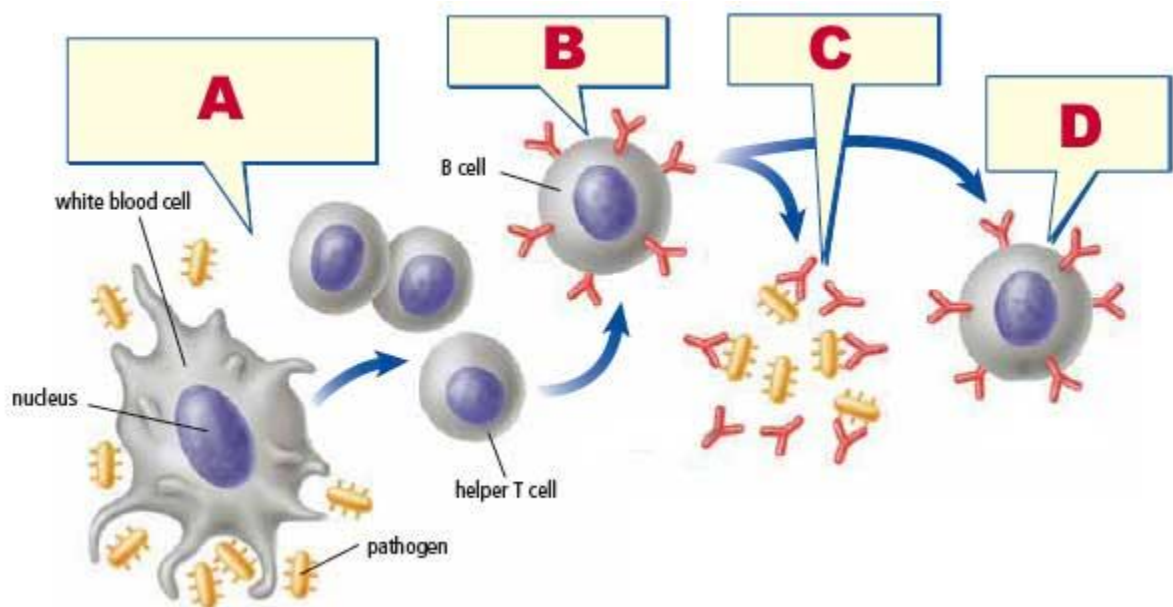
c. Identify proteins that kill or inhibit pathogens.

d. Analyze the roles of white blood cells in combating pathogens.



Section 2:

- a. List four kinds of immune-system cells, and describe their functions.
- b. Describe how white blood cells recognize pathogens.
- c. Identify the role of helper T cells in the immune response.
- d. Compare the role of T cells with that of B cells in the immune response. Use the diagram below in your explanation:



Section 3:

- e. List five ways diseases can be transmitted to humans.

- f. Summarize Koch's postulates for identifying pathogens.

- g. Analyze how the body produces immunity to pathogens.

- h. Describe how vaccines produce immunity to pathogens.