

CH 22 Lymphatic System and Immunity Study Guide

1. What are the three major functions of the lymphatic system?
2. What are the roles of the spleen, lymph nodes and tonsils protecting the body against infections / diseases?
3. Describe the structure of a lymphatic vessel and relate it the cardiovascular system vessels. How are they similar? How are they different?
4. Make a flow chart showing the path of lymph flow from the capillaries to the heart.
5. What is the function of a lymph node? What could be the consequence of blockage in the lymphatic pathway in the right or the left ducts? What could probably cause the blockage?
6. If the thymus failed to produce thymic hormones, what would happen?
7. How does blood pressure relate to the amount of lymph that is formed?
8. What is the largest lymphoid organ?
9. What are the 3 lines of defense used by the Immune System? Be able to describe each in detail.
10. What are the characteristics and roles of the following innate or “non-specific” defenses? What parts of the body do they protect?

Keratinized epithelia, sweat, sebum, gastric juices, mucus, cilia, vomiting, diarrhea, phagocytes, complement system, NK cells, interferons, inflammation, fever
11. What are antimicrobial chemicals? Give examples.
12. What is the function of interferon? A rise in the level of interferon in the body suggests what kind of infection?
13. What triggers fever? What happens in the body during a fever?
14. In what ways is the inflammatory response an important part of the body's defense?
15. List the events of the inflammatory response in their correct order.
16. What are the 4 cardinal signs of the inflammatory response? What is the cause of each?
17. What do you understand by the abbreviation MALT?
18. Name the kind of cell that is part of the nonspecific line of defense *and* lyses *and* kills cancerous and virus infected cells by the secreting perforin, a protein that punches holes in other cells.
19. Define antigen and Epitope
20. What is a secondary humoral response and why is it much faster?
21. List the steps of a cellular immune response / cell mediated immunity.

