

The Lymphatic System and Immunity (S2017)
Study Guide Chapter 22 (Part A - Lymphatic System)
Tortora & Derrickson

1. What is lymph?
2. What are the three main functions of the lymphatic system?
3. How are lymphatic capillaries different than blood capillaries?
4. How much fluid and protein is returned to the blood by the lymphatic system?
5. What structures are part of the lymphatic system?
6. What is the structure and function of a lymph node?
7. What are the primary lymphatic organs?
8. What are the secondary lymphatic organs?
9. What is a lacteal? Where are they located? Function?
10. What is the structure and function of the thymus gland?
11. What is the largest lymphatic organ?
12. What is the structure and function of the spleen? What is the red and white pulp?
13. What types of functions take place in the spleen?
14. Can you surgically repair the spleen after an accident?
15. What is the structure and function of a lymphatic nodule?
16. What is MALT? BALM?
17. Describe the anatomy of a lymphatic capillary in relationship to the systemic capillary bed and surrounding cells. a) How would you

- describe the endothelium at the beginning of a lymphatic vessel? b) What do we mean when we say that the lymphatic endothelium function as a trap door? c) Why doesn't the lymphatic capillary collapse?
18. Do lymphatic vessels have valves?
 19. Trace the route of lymph from the tissue fluid back to the blood: What type of "stuff" can enter into the lymph vessels?
 20. What is a Peyer Patch and where are they found?
 21. Study the anatomy of a lymph node (Fig 22.6). Look at the number of afferent and efferent lymphatic vessels and explain why these structures aid in the lymph nodes function.
 22. What happens in the lymph node's germinal center?
 23. How would you characterize a node that contains either a bacterial pathogen VS cancer cells?
 24. What is the structure and function of the tonsils? What is the significance of tonsillar crypts?