

LYMPHATIC SYSTEM AND BODY DEFENSES

Grade 12 – Health Allied (2nd Term – 1st Quarter)

LYMPHATIC SYSTEM

- It consists of two semi-independent parts:
 - **Lymphatic vessels**
 - **Lymphoid tissue and organs**
- Transports escaped fluids that have escaped from the blood back to the cardiovascular system
- The lymphoid tissues and organs **house phagocytic cells and lymphocytes**, which plays an essential roles in body defense and resistance to disease

LYMPHATIC VESSELS

- **Lymph** consists of excess tissue fluid and plasma proteins carried by lymphatic vessels
- If the excess tissue fluids are not carried back to the blood and accumulates in the tissues, it will produce **edema** or swelling.
 - Excessive edema impairs the ability of cells to make exchanges with the interstitial fluid, now called **lymph** and returns it to the blood (lymph = clear water)

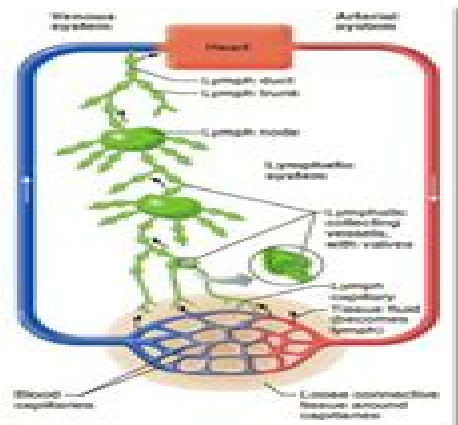


Figure 1. Relationship of lymphatic vessels to blood vessels

- Lymphatic vessels are also called **lymphatics**
 - Forms a one-way system
 - Lymph flows **only** toward the heart

LYMPH CAPILLARIES

- Weave between tissue cells and blood capillaries in the loose connective tissues of the body and absorb the leaked fluid
- The edges of the endothelial cells forming their walls loosely overlap one another, forming flaplike **minivalves**

- The flaps are anchored by fine collagen fibers to surrounding structures and gaps open when the **fluid pressure is higher in the interstitial space**, allowing fluid to enter the lymphatic capillary
 - Capillaries are anchored to connective tissue by filaments
 - High pressure on the inside closes minivalves
 - Fluid is forced along the vessel
- When the **pressure is higher inside the lymphatic vessels**, the endothelial cell flaps are forced together, preventing the lymph from leaking back out and force it along the vessel

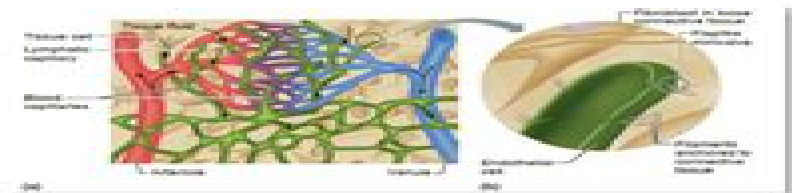


Figure 2.

- Figure 2.a shows how the lymphatic capillaries (green vessels in the photo above) weaves itself to the blood capillaries.
- Figure 2.b shows the flaplike minivalve of the lymphatic capillary as well as the filaments that it uses to anchor to connective tissues

- Proteins and large particles (cell debris, bacteria, viruses) can easily enter lymphatic capillaries, particularly in inflamed areas
 - Bacteria, viruses, and cancer cells that enter the lymphatics can then use them to travel throughout the body
 - Resolved by WBCs travelling in lymph

LYMPHATIC COLLECTING VESSELS

- **Lymph** is transported from the lymph capillaries through successively larger lymphatic vessels called **lymphatic collecting vessels**
 - Collects lymph from lymph capillaries
 - Carry lymph to and away from lymph nodes
 - Return fluid to circulatory veins near the heart

RIGHT LYMPHATIC DUCTS

- Drains the lymph from the right arm and the right side of the head and thorax

THORACIC DUCT

- Drains lymph from rest of the body

Both ducts empty the lymph into the subclavian vein on their own side of the body

Lymphatic System And Body Defenses Anatomy And Physiology

Xiaolong Qi



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Table of Contents Lymphatic System And Body Defenses Anatomy And Physiology

1. Understanding the eBook Lymphatic System And Body Defenses Anatomy And Physiology
 - The Rise of Digital Reading Lymphatic System And Body Defenses Anatomy And Physiology
 - Advantages of eBooks Over Traditional Books
2. Identifying Lymphatic System And Body Defenses Anatomy And Physiology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Lymphatic System And Body Defenses Anatomy And Physiology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lymphatic System And Body Defenses Anatomy And Physiology
 - Personalized Recommendations
 - Lymphatic System And Body Defenses Anatomy And Physiology User Reviews and Ratings
 - Lymphatic System And Body Defenses Anatomy And Physiology and Bestseller Lists
5. Accessing Lymphatic System And Body Defenses Anatomy And Physiology Free and Paid eBooks
 - Lymphatic System And Body Defenses Anatomy And Physiology Public Domain eBooks
 - Lymphatic System And Body Defenses Anatomy And Physiology eBook Subscription Services
 - Lymphatic System And Body Defenses Anatomy And Physiology Budget-Friendly Options
6. Navigating Lymphatic System And Body Defenses Anatomy And Physiology eBook Formats

- ePub, PDF, MOBI, and More
 - Lymphatic System And Body Defenses Anatomy And Physiology Compatibility with Devices
 - Lymphatic System And Body Defenses Anatomy And Physiology Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lymphatic System And Body Defenses Anatomy And Physiology
 - Highlighting and Note-Taking Lymphatic System And Body Defenses Anatomy And Physiology
 - Interactive Elements Lymphatic System And Body Defenses Anatomy And Physiology
 8. Staying Engaged with Lymphatic System And Body Defenses Anatomy And Physiology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lymphatic System And Body Defenses Anatomy And Physiology
 9. Balancing eBooks and Physical Books Lymphatic System And Body Defenses Anatomy And Physiology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lymphatic System And Body Defenses Anatomy And Physiology
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Lymphatic System And Body Defenses Anatomy And Physiology
 - Setting Reading Goals Lymphatic System And Body Defenses Anatomy And Physiology
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Lymphatic System And Body Defenses Anatomy And Physiology
 - Fact-Checking eBook Content of Lymphatic System And Body Defenses Anatomy And Physiology
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
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