

CHAPTER 12: The Lymphatic System

prepared by: A. A. B.

Consists of two semi-independent parts:

- Lymphatic vessels
- Lymphoid tissues and organs

Lymphatic System functions

- Transport fluids back to the blood
- Play essential roles in body defense and resistance to disease

Lymphatic Characteristics

Lymph – excess tissue fluid carried by lymphatic vessels

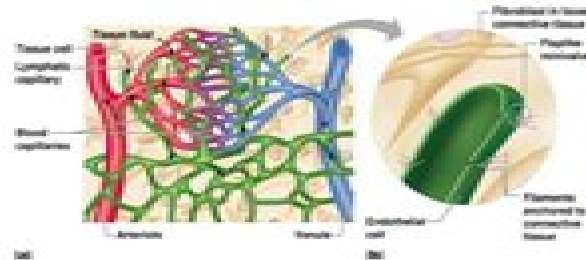
Properties of Lymphatic Vessels

- One way system toward the heart
- No pump
- Lymph moves toward the heart
 - a) Milling action of skeletal muscle
 - b) Rhythmic contraction of smooth muscle in vessel walls

Lymphatic Vessels:

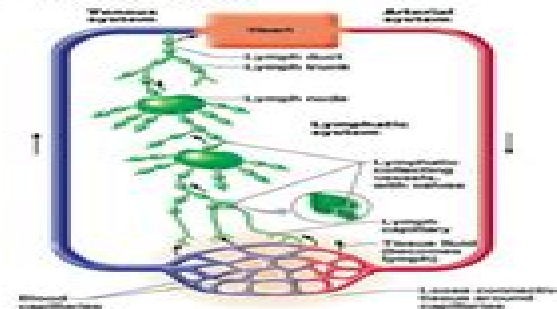
Lymph Capillaries

- Walls overlap to form flap-like minivalves
- Fluid leaks into lymph capillaries
- Capillaries are anchored to connective tissue by filaments
- Higher pressure on the inside closes minivalves



Lymphatic Collecting Vessels

- Collects lymph from lymph capillaries
- Carries lymph to and away from lymph nodes
- Returns fluid to circulatory veins near the heart
- Right lymphatic duct
- Thoracic duct



Lymph

Materials returned to the blood:

- Water
- Blood cells
- Proteins

Harmful materials that enter lymph vessels:

- Bacteria
- Viruses
- Cancer cells
- Cell debris

Lymph Node

- Filter lymph before it is returned to the blood
- Defense cells within lymph nodes
 - a) **Macrophages** – engulf and destroy foreign substances
 - b) **Lymphocytes** – provide immune response to antigens



Lymphatic System Study Guide

Barbara Herlihy



Lymphatic System Study Guide:

Lymphatic System (Speedy Study Guides) Speedy Publishing,2014-06-21 The lymphatic system is one of the more complex systems of the body It is responsible for keeping a person s fluids balanced and putting fluids into the blood It is also responsible for making leukocytes and antibodies to help fight infection and disease A chart of how the lymphatic system works would show you all the capillaries vessels and nodes that make up the system Some charts will even show you in detail how things flow in and out of each node and filter out through the body

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Lymphatic System (Advanced) Speedy Study Guides Speedy Publishing,2014-07-15 The Human Lymphatic System is essentially the body s drainage system A network of small structures and vessels called lymph nodes collects fluid from around the human body and gets it back into the blood circulation Any biology student would benefit greatly from a pamphlet that explains the basic functions of the human lymphatic system

Study Guide for The Anatomy and Physiology Learning System Edith Applegate,2010-03-30 Designed to accompany The Anatomy and Physiology Learning System 4th Edition by Edith Applegate this study guide helps you learn and review basic A P concepts Each chapter emphasizes medical terminology with a set of key terms word parts clinical terms and abbreviations and then adds a variety of fun filled learning exercises review questions a quiz and a word puzzle The study guide corresponds to the textbook chapter for chapter Chapter learning objectives help you focus on the most important material Key concepts are defined on the first page of each chapter in the workbook Learning exercises for each chapter include short answer matching and diagrams to label and color Self quizzes allow you to measure your progress and understanding Fun and Games features end each chapter with a variety of engaging puzzles covering words and concepts A chapter summary provides a brief review of each chapter A chapter

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