

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

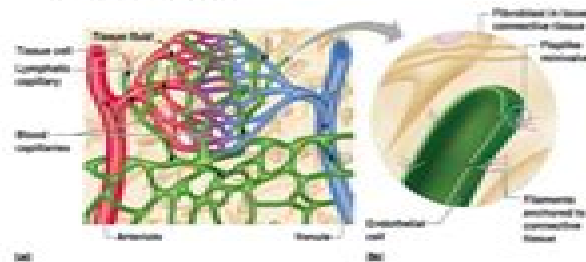
Properties of Lymphatic Vessels

- 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:

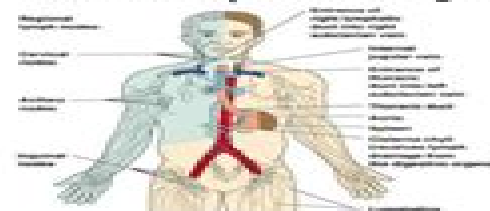
- Water
- Blood cells
- Proteins

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 Anatomy

Charles Seiger



Lymphatic System Study Guide Anatomy:

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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Human Anatomy and Physiology John W. Hole, Jr., 1992-11 **Study Guide [to] Fundamentals of Anatomy & Physiology, 6th Ed. [by] Frederic H. Martini** Charles M. Seiger, 2004 by Charles Seiger. This very popular Study Guide is an excellent way to review basic facts and concepts as well as to develop problem-solving skills. A variety of questions, including labeling and concept mapping, are keyed to every learning objective in the textbook and are organized around the same 3-level learning system.

Study Guide and Laboratory Manual for Physical Examination and Health Assessment, Canadian Edition- E-Book Carolyn Jarvis, Ann L. Eckhardt, 2023-02-23 NEW Preface includes an overview of the NCSBN Clinical Judgement Measurement Model. PN competencies and the REx PN NEW Clinical judgement exercises equip students for success on the Next Generation NCLEX NGN, including questions with an increased focus on clinical judgement. Updated content throughout corresponds to the 4th Canadian edition of the textbook and incorporates the latest research and evidence-informed practice.

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Lymphatic System (Advanced) (Speedy Study Guides) Speedy Publishing LLC, 2014-07-17 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 *Lymphatic System* Speedy Publishing, 2014-09-02 Whether you are a nursing student or pre med there are many things that you will need to know All the information you are required to learn can seem utterly overwhelming Anatomy and physiology of the body systems pharmacology and biochemistry are just some of the classes you will be required to take These courses and managing time will all but consume you In most cases there is no getting around the need for memorization When studying the lymphatic system and all its vessels and cellular functions it would be essential to have a study guide for quick and easy reminders

Reviewing **Lymphatic System Study Guide Anatomy**: Unlocking the Spellbinding Force of Linguistics

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