

CHAPTER 12: The Lymphatic System

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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

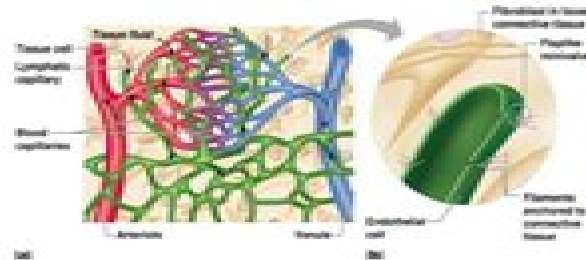
Properties of Lymphatic Vessels

- 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:

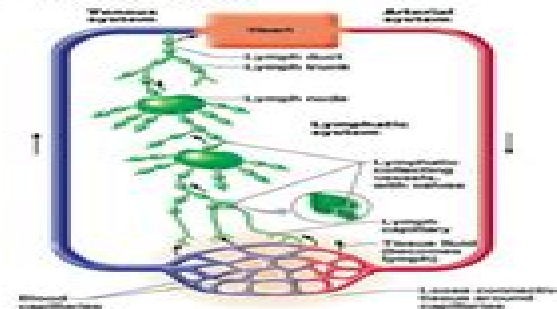
Lymph Capillaries

- 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



Anatomy Lymphatic System Study Guide

Lauren Gardner



Anatomy Lymphatic System Study Guide:

Anatomy Lymphatic System Study Guide Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Anatomy Lymphatic System Study Guide**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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