

CHAPTER 12: The Lymphatic System

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Consists of two semi-independent parts:

- ✓ V Lymphatic vessels
- ✓ V Lymphoid tissues and organs

Lymphatic System functions:

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

Lymphatic Characteristics:

Lymph – excess tissue fluid carried by lymphatic vessels

Properties of Lymphatic Vessels:

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

Lymphatic Vessels:

Lymph Capillaries

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



Lymphatic Collecting Vessels

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



Lymph

Materials returned to the blood:

- ✓ V Water
- ✓ V Blood cells
- ✓ V Proteins

Harmful materials that enter lymph vessels:

- ✓ V Bacteria
- ✓ V Viruses
- ✓ V Cancer cells
- ✓ V Cell debris

Lymph Node

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



Lymphatic System Study Guide Answers

Jane B. Taylor, John D. Jackson



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