### 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) Milking action of skeletal muscle
  - b) Rhythmic contraction of smooth muscle in vessel walls

#### Lymphatic Vesselss

#### 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
- Thorocic duct



#### Lymph

#### Materials returned to the blood-

- Worter
- Blood cells
- Proteins

## Harmful materials that enter lymph vessels:

- Bocteria
- Wirn reper
- Concer cells
- Cell debris

#### Lymph Node

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



# **Study Guide Lymphatic System And Immunity**

**ML Morrison** 

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