

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

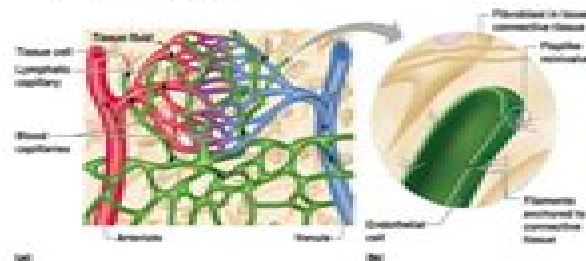
Properties of Lymphatic Vessels

- 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:

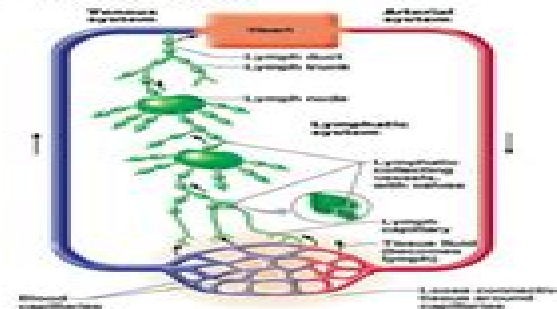
Lymph Capillaries

- 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



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Huangqi Zhang



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