

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

Lymphatic Vessels:

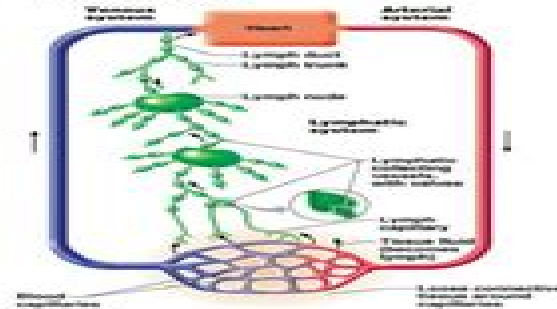
Lymph Capillaries

- Y Walls overlap to form flap-like minivalves
- Y Fluid leaks into lymph capillaries
- Y Capillaries are anchored to connective tissue by filaments
- Y 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:

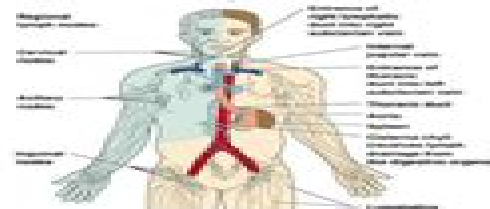
- ✓ Water
- ✓ Blood cells
- ✓ Proteins

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 Key

Jin-Ying Zhang



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