

CHAPTER 12:

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

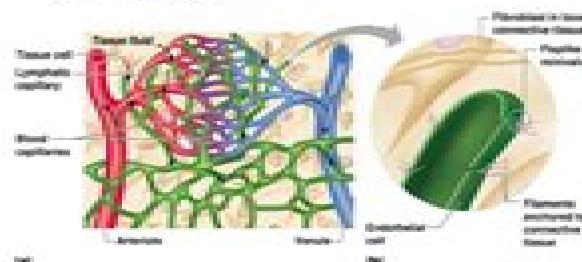
Properties of Lymphatic Vessels:

- 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:

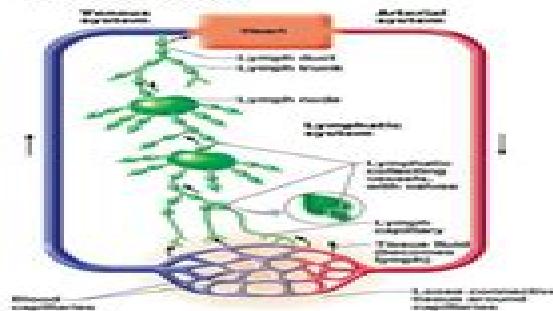
Lymph Capillaries:

- 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:

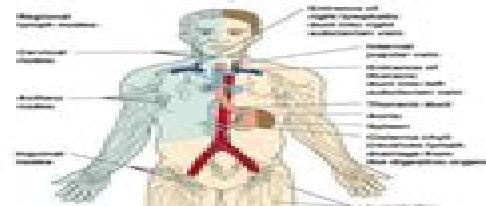
- Water
- Blood cells
- Proteins

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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Michael Rajnik

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