

# 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

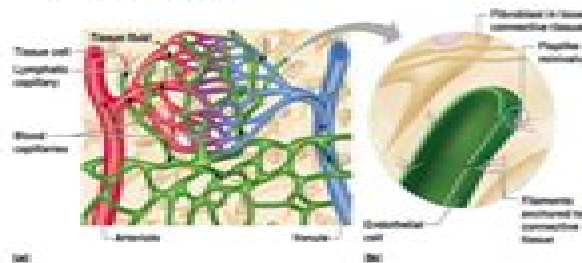
## Properties of Lymphatic Vessels:

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

## Lymphatic Vessels:

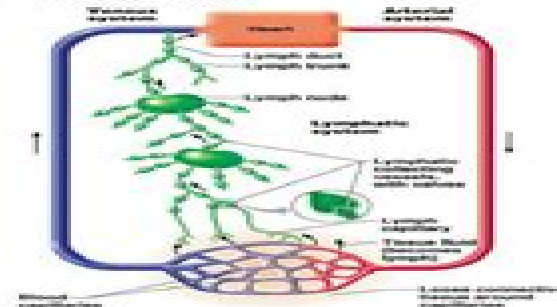
### Lymph Capillaries

- ✓ ✓ 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:

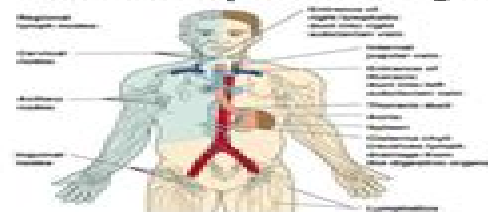
- ✓ ✓ Water
- ✓ ✓ Blood cells
- ✓ ✓ Proteins

### 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



# Anatomy Lymphatic System Study Guide

**Brigitte Niedzwiecki, Julie Pepper**



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