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

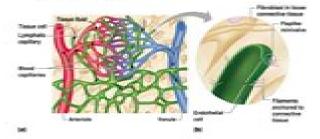
Properties of Lymphatic Vessels

- 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 Vesselss

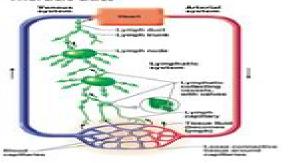
Lymph Capillaries

- 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-

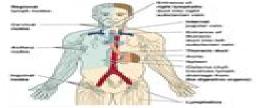
- Worter
- Blood cells
- Proteins

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



Lymphatic System Study Guide

Mike Jess

Lymphatic System Study Guide:

This book delves into Lymphatic System Study Guide. Lymphatic System Study Guide is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and indepth insights into Lymphatic System Study Guide, encompassing both the fundamentals and more intricate discussions.

- 1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Lymphatic System Study Guide
 - Chapter 2: Essential Elements of Lymphatic System Study Guide
 - Chapter 3: Lymphatic System Study Guide in Everyday Life
 - Chapter 4: Lymphatic System Study Guide in Specific Contexts
 - ∘ Chapter 5: Conclusion
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