Human Body in Health and Disease Student Outline – Lymphatic System and Immunity

Lymphatic System and Immunity

Chapter 13

- 1. Lymphatic System Essential Function #1 Fluid Return
 - A. Fluid Movement Issues (Pages 291 292)
 - i. Hydrostatic vs. Interstitial Pressures

B. Body Fluids

- i. Plasma
- ii. Interstitial Fluid
- iii. Plasma
- 2. Lymphatic Vessels and Capillaries (Page 292 ff)
 - A. Vessel Types
 - i. Lymphatic Capillaries
 - ii. Lymphatic Vessels
 - iii. Trunks
 - a. Right Lymphatic Duct
 - b. Thoracic Duct
 - iv. Subclavian Veins

- B. Fluid Movements
 - i. Pressure Issues
 - ii. Valves and Muscular Movements
- 3. Lymphatic System Essential Function #2 Immunity (Page 292 ff)
 - A. Portals of Entry
 - B. Lymph Nodes
 - C. Immune Cells

- 4. Lymph Nodes (Page 293 294)
 - A. Location
 - B. Structure
 - i. Afferent and Efferent Vessels
 - ii. Fiber Network
 - iii. Immune Cells

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- 5. Spleen (Page 294)
 - A. Vascular Supply
 - B. Functions

- 6. Tonsils (Pages 295)
 - A. Function

- B. Locations / Names
 - i. Palatine Tonsils
 - ii. Pharyngeal Tonsil
 - iii. Lingual Tonsils
- 7. Thymus (Pages 293)
 - A. Location
 - B. Function
 - i. Immunocompotence
 - ii. T Lymphocytes (T Cells)

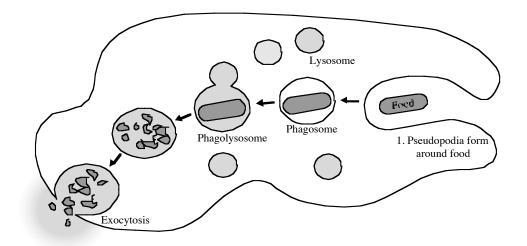
- 8. Nonspecific Defense Mechanisms (Pages 297 298)
 - A. Mechanical Barriers First Line of Defense
 - i. Skin

ii. Mucous Membrane

- iii. Acid
- B. Chemical Barriers
 - i. Lysozyme

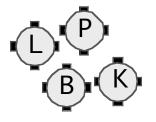
- ii. Acid / Digestive Enzymes
- iii. Interferon

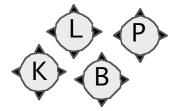
- C. Nonspecific Phagocytosis
 - i. Macrophages
 - ii. Phagocytic Process



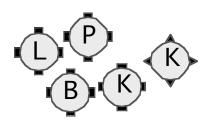
- D. Inflammation (Pages 298)
 - i. Vasodilation and Histamine
 - ii. Heat
 - iii. White Blood Cell migration and action
 - iv. Clotting Functions
 - v. Healing

- 9. Specific Host Immunity (Page 299 ff)
 - A. Chemical Agents Defined
 - i. Antigen
 - ii. Antibody
 - a. Major Histocompatability Complex





b. Antigen



c. Immunocompetence

- B. Cellular Immunity and T Cells (Pages 299 300)
 - i. Antigen Presenting Cell (APC)

- ii. T Cell Types
 - a. Cytotoxic T Cells

b. Helper T Cells

c. Suppressor (Regulatory) T Cells

d. Memory T Cells

iii. Process

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- C. Humeral Immunity and B Cells (Pages 301 302)
 - i. B Cell Types
 - a. Plasma Cells
 - Antibodies
 - b. Memory B Cells
 - ii. Process
- 10. Immune Responses (Page 302 303)
 - A. Board Categories
 - i. Active
 - ii. Passive Immunity
 - B. Specific Categories
 - i. Naturally Acquired Active Immunity
 - ii. Artificially Acquired Active Immunity
 - iii. Naturally Acquired Passive Immunity
 - iv. Artificially Acquired Passive Immunity