

## WEEK 2

# ADAPTIVE IMMUNITY, LEUKEMIA, AND OTHER BLOOD CELL PATHOLOGIES

### Objectives:

1. Explain Adaptive Immunity and how it works to protect the body
2. Describe Leukemia (common types and common causes)
3. Describe Neutropenia. Explain some common causes
4. Explain Infectious Mononucleosis
5. Describe Lymphoma (common types and common causes)
6. Describe the characteristics of Multiple Myeloma

### Vocabulary:

- Active Artificial Immunity
- Active Natural Immunity
- Adaptive Immunity
- ALL, AML, CLL, CML
- Antibody-dependent cell-mediated cytotoxicity (ADCC)
- Antigen
- Antigen presenting cell (APC)
- Autoimmunity
- B-cell
- Bence-Jones proteins
- Benign Ethnic Neutropenia
- Cytotoxic T cells (CD8+)
- Cords of Billroth
- Delayed type hypersensitivity (DTH)
- Epitope
- Erythropoietin (EPO)
- Fab region
- Fc region
- Felty syndrome
- Hapten
- Helper T cells (CD4+)
- Hematopoiesis
- Heterophile antibodies
- Human leukocyte antigens (HLA)
- Humoral Immunity
- Hypersensitivities (4 types)
- IgA, D, E, G, M
- Immunogen
- Kostman's syndrome
- Leukemia
- Leukostasis
- Lymphoma
- MALT
- MHC I
- MHC II
- Mononucleosis
- M-spike
- Multiple Myeloma
- Neutropenia
- Opsonization
- Passive Artificial Immunity
- Passive Natural Immunity
- Philadelphia Chromosome
- Plasma Cell
- Plasmacytosis
- T-cell
- Thrombopoietin (TPO)
- Thymic Selection (positive and negative)

Adaptive Immunity
Lymphoid Tissue
Thymic Selection
Antigens and Antigen Processing
Humoral Immunity
Cell-Mediated Immunity
Type I Hypersensitivity
Type II Hypersensitivity
Type III Hypersensitivity
Type IV Hypersensitivity
Neutropenia, Mononucleosis, Leukemia and Lymphoma
Hematopoiesis and Colony-Stimulating Factors
Neutropenia
Infectious Mononucleosis
Leukemia
Lymphoma
Multiple Myeloma



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