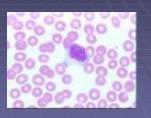
# NONMALIGNANT LYMPHOCYTE DISORDERS

#### LYMPHOCYTOSIS

- Infectious Mononucleosis
- Toxoplasmosis
- Cytomegalovirus
- Infectious Lymphocytosis
- Bordetella Pertussis
- Persistence Lymphocytosis
- Other Disorders Associated with Lymphocytosis
- Plasmacytosis

#### **INFECTIOUS MONONUCLEOSIS**

- Epstein Barr-Virus
- Clinical lethargy, headache, fever, chills, sore throat, nausea, lymphadenopathy
- Absolute lymphocytosis, reactive lymphs
- Heterophile Antibodies



#### **TOXOPLASMOSIS**

- Toxoplasma gondii
- Relative Lymphocytosis, Reactive Lymphs (Lymphoblast or Lymphoma like)
- Heterophile Antibody Negative
- Toxoplasma Antibodies



#### **CYTOMEGALOVIRUS**

- Herpes-group Virus
- Leukocytosis with absolute Lymphocytosis
- Virus found in the Urine or Blood
- Decrease in T helper cells, Increase in T suppressor/cytotoxic cells

#### **INFECTIOUS LYMPHOCYTOSIS**

■ Leukocytosis 40-50 x 10<sup>9</sup>/L, 60-70% small lymphocytes

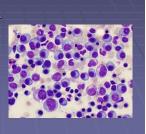
# BORDETELLA PERTUSSIS Whooping Cough Lymphocytosis WHOOPING COUGH. The battle of Parted in Domities with Law Forey and produce with the and the compliance with Law Forey and produce you the shall satisfully four down, or more or defined any poster posted in compliance with Law, shall be fined and more than seven dollance."-Gressware Structure or Grosserver, Brevenso or 1864, "Sevens Virgo." Town Health Officer.

## LYMPHOCYTIC LEUKEMOID REACTION

- Relative Lymphocytosis, large reactive cells with deep blue cytoplasm, fine chromatin, cytoplasmic vacuoles
- BM shows minimal or no increase in lymphocytes

#### **PLASMACYTOSIS**

- Rubeola infections
- Skin Diseases
- Cirrhosis of the liver



#### LYMPHOCYTOPENIA

- Absolute count <1X109/L
- Immune Deficiency Disorders
- Severe Combined Immunodeficiency Syndrome
- Wiskott-Aldrich Syndrome
- DiGeorge Syndrome
- Sex-linked Agammaglobulinemia
- Hereditary Ataxia-Telangiectasia

#### **AIDS**

- Rotovirus HIV-1
- 3 stages

  - Asymptomatic CarrierAids-Related Complex (ARC)
- Definition
  - Opportunistic Infection or other clinical condition associated with cell-mediated immune defects
- Monitor CD4 Counts and Viral Load
- Therapy AZT and protease inhibitors

#### WISKOTT-ALDRICH SYNDROME

- Sex-linked Recessive
- Eczema, thrombocytopenia, immunodeficiency
- ↓ T lymphocytes
- Low or absent blood group antibodies
- Abnormal Bleeding



RESEARCH. -

# 

#### **DIGEORGE SYNDROME**

- Absence or Hypoplasia of Thymus
- Hypoparathyroidism, heart defects, dysmorphic facies
- Hypocalcemia
- ↓ T lymphocytes



## SEX-LINKED AGAMMAGLOBULINEMIA

- Bruton's
- Sex-linked
- Respiratory and skin infections
- ↓ B Lymphocytes



HEREDITARY ATAXIA- TELANGIECTASIA
Autosomal-recessive
■ Neurological disease, immune
dysfunction, predisposition for malignancy
Telangiectasia
Dilation of small vessels and capillaries cause flat red marks to appear
marks to appear on the skin
#ADAM