Chapter 8: Anemia

Outline

1. Anemia
   a. Definition
   b. Development
   c. Causes
   d. Classifications
      i. Functional
      ii. Morphologic
      iii. Bone Marrow Description
   e. Diagnosis
   f. Primary Laboratory Tests
      i. Hemoglobin
      ii. Hematocrit

2. Parameters of the CBC
   a. Hemoglobin
   b. Hematocrit
   c. RBC Indices
      i. MCV
      ii. MCH
      iii. MCHC
   d. RDW

3. Reticulocyte

4. Adult Reference Ranges

5. RBC Size Variations
   a. Normocytic, Macrocytic, Microcytic

6. RBC Color Variations
   a. Normochromic, Hypochromic, Polychromic

7. RBC Shape Variations
   a. Targets, Spherocytes, Ovalocytes, Elliptocytes, Stomatocytes, Sickles, Acanthocytes
   b. Fragmented cells
      i. Burr, Helmet, Schistocytes, Teardrops

8. Variations in RBC Distribution
   a. Agglutination
   b. Rouleaux

9. RBC Inclusions
a. Howell-Jolly Bodies
b. Basophilic Stippling
c. Siderotic granules and Pappenheimer bodies
d. Heinz Bodies
e. Cabot Rings

10. Sideroblasts
11. Siderocytes