**Chapter 10: Blood**

Need to Know:

**Blood**

* Formed Elements vs. Plasma
* Hematocrit and Buffy Coat
* Types of Formed Elements
  + Erythrocytes
    - Function
    - Hemoglobin
    - Characteristics
    - Anemia, Sickle Cell Anemia, Polycythemia
  + Leukocytes
    - Function
    - Diapedesis and Positive Chemotaxis
    - Types of Leukocytes
      * Granulocytes vs. Agranulocytes
        + Most to Least Abundant
        + Know functions of each and which belongs to which type
      * Leukocytosis, Leukopenia, Leukemia
  + Thrombocytes
    - Function
    - Megakaryocytes
* Plasma
  + Plasma Proteins
    - Albumin, Clotting Proteins, Antibodies
    - Acidosis vs. Alkalosis
* Physical Characteristics
  + pH and Temperature

**Hematopoiesis**

* Location
* Hemocytoblasts
* Erythropoietin, Colony Stimulating Factors and Interleukins, Thrombopoietin

**Hemostasis**

* 3 Steps/Stages of Hemostasis
  + Vascular Spasms
  + Platelet Plug Formation
  + Coagulation
    - TF, PF3, Ca, Prothrombin Activator, Thrombin, Fibrinogen, Fibrin
* Thrombus, Embolus, Thrombocytopenia, Hemophilia

**Blood Types**

* Antigens vs. Antibodies
* Agglutination
* ABO blood groups
* Rh
  + Rh + versus Rh –
    - What happens when Rh- is given Rh + / When Rh + is given Rh -
  + A, B, AB, O
    - Know Antigens, Antibodies, Types that can be received and donated - for each type
  + Universal Donor, Universal Recipient