**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