

## Blood Study Guide

1. Describe a red blood cell. Biconcave, carries oxygen, hemoglobin is responsible for carrying oxygen.
2. Describe a blood sample (what does it consist of and what are the percentages). Cells (rbc, wbc, platelets) - 45%  
2. Plasma (water, amino acids, proteins, carbohydrates, lipids, vitamins, hormones, electrolytes, cellular waste) - 55%
3. List and describe (functions) types of white blood cells.

General function - defend the body against disease-causing agents (microorganisms)

Granulocytes (granular cytoplasm)	1. Neutrophils	very active in phagocytizing bacteria and are present in large amount in the pus of wounds, most common, 60% WBC	
	2. Eosinophils	attack parasites, control allergic reaction; 2% WBC	
	3. Basophils	produces Heparin (prevents blood clots) and Histamines (causes inflammatory reaction); less than 1% WBC  <i>Inflammatory Reaction = blood vessels dilate, fluid accumulation and swelling, attraction of WBCs. At the site of an infection, dead and damaged leukocytes, bacteria and body cells accumulate = pus</i>	
Agranulocytes (lacking granular cytoplasm)	4. Monocytes	precursors of macrophages, phagocytes; 6%	
	5. Lymphocytes	main constituents of the immune system which is a defense against the attack of pathogenic micro-organisms such as viruses, bacteria, fungi and protista. Lymphocytes yield antibodies and arrange them on their membrane; 34%	

4. Describe the events in blood clot formation.

# Blood Study Guide

**Elizabeth J. Shisler**

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