

Day 16 – 4/7/14

Student Learning Objectives

By the end of this class you will be expected to understand:

- The components of blood by volume and their functions
- The most vital materials circulated by blood
- The purpose and process of hemostasis
- The process of producing and removing red blood cells
- The nature of blood types and the risks of improper transfusions

Support videos:

- Blood and Circulatory System
 - http://www.youtube.com/watch?v=t0pyd_-uJvg
 - <http://www.youtube.com/watch?v=9fxm85Fy4sQ>
 - <http://www.youtube.com/watch?v=5MOn8X-tyFw>

Assigned reading:

- Chapter 7: p142-157

Vocabulary:

- Plasma
 - Plasma protein
 - Antibody
 - Clotting protein
- Red blood cell (RBC)
 - Erythrocyte (*synonym*)
 - Hemoglobin
 - Hematocrit
 - Anemia
 - Polycythemia
 - Hemocytoblast (*stem cell*)
 - Erythropoietin (EPO)
- White blood cell (WBC)
 - Macrophage
 - Lymphocyte
 - Granulocyte
 - Antigen
- Platelet
 - Hemostasis (*blood clotting*)
 - Coagulation
 - Thrombin
 - Fibrin
 - Hemophilia
- Blood type
 - ABO system
 - Rh System