

# Chapter 17 Blood

## Blood Content:

**plasma + formed elements**

**formed elements** - living blood

"cells" suspended in plasma

- **Erythrocytes** - (RBCs) red blood cells
- **leukocytes** - (WBCs) white blood cells
- **platelets** - cell fragments



- plasma

(Buffy coat)  
- WBCs + platelets

- RBCs

**plasma** - non living fluid matrix

90% water

60% albumin

36% Globulins

4% fibrinogen

- nutrients

- hormones

- wastes

- gases

- proteins

Sticky, opaque, metallic taste pH = 7.35 - 7.45

high  $O_2$  - scarlet, low  $O_2$  - dark red V = 5-6L men, 4-5L women

## Blood function:

1. **Distribution** - delivering  $O_2$  and nutrients to body cells; transporting metabolic wastes to lungs and kidneys for elimination; transporting hormones from endocrine organs to target organs
2. **Regulation** - maintaining body temp by absorbing and distributing heat; maintaining normal pH buffer; maintaining adequate fluid volume in circulatory system
3. **protection** - preventing blood loss - plasma proteins and platelets  $\rightarrow$  clot formation; preventing infection

## RBCs



**Spectrin** - provides flexibility to change shape

no nucleus

biconcave disks, **anucleate**, no organelles

**RBC function**: respiratory gas transport, hemoglobin binds with  $O_2$

• 97% hemoglobin

form fib function

**Hemoglobin** - protein in RBC that carries oxygen

Hb

**Globin**:

**Heme**:

- 4 polypeptide chains
- pigment bonded to globin
- 2 alpha + 2 beta chains
- chain - gives blood red color

**Oxyhemoglobin** - ruby red -  $O_2$  loading in lungs

**deoxyhemoglobin** - dark red -  $O_2$  unloading in tissues

**Carbaminothemsoglobin** - 20%  $CO_2$  in blood binds to Hb

- heme iron (Fe) binds to 1  $O_2$
- RBC - 250mil Hb molecules
- Each Hb can produce 4  $O_2$

## Hematopoiesis

- formation of blood cells in red bone marrow

hemocytoblasts - hematopoietic  
Stem Cells

hematocrit - % of blood volume that  
is in RBCs

47%  $\pm$  5% (males), 42%  $\pm$  5% (females)

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