

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 - non living fluid matrix

90% water

60% albumin

• nutrients

• hormones

• wastes

• gases

• proteins

(Buffy coat)

- WBCs + platelets

- RBCs

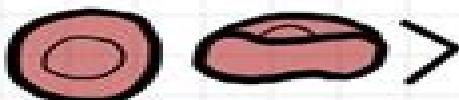
Sticky, opaque, metallic taste pH = 7.35 - 7.45

high O₂-content, low O₂-content V = 5-6 L men, 4-5 L women

Blood function:

1. **Distribution** - delivering O₂ 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 balance
3. **protection** - preventing blood loss - plasma proteins and platelets \rightarrow clot formation; preventing infection

RBCs



Spectrin - provides flexibility to change shape • 97% hemoglobin

no nucleus

form fib function

biconcave discs, anucleate, no organelles

RBC function: respiratory gas transport, hemoglobin binds with O₂

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 - O₂ loading in lungs

deoxyhemoglobin - dark red - O₂ unloading in tissues

Carbaminohemoglobin - 20% CO₂ in blood binds to Hb

- heme iron (Fe) binds to 1 O₂

• RBC - 250 mil Hb molecules

• Each Hb can produce 4 O₂

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)

Anatomy And Physiology Chapter Blood Notes

EW Minium

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A

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