

INTRODUCTION TO HEMATOLOGY

HEMATOLOGY / HAEMATOLOGY

- greek words "Haima" Blood; "Logos" Study
- study of the quality & quantity of the cellular elements of the peripheral blood and the bone marrow which includes **Erythrocytes (RBC)**, **Leukocytes (WBC)**, & **Thrombocytes (PLT)**
- study of the disorders & abnormalities related or associated with the quality & quantity of the cellular elements of the blood
- study of the laboratory procedures & techniques being used to examine the quality & quantity of the cellular elements of the blood

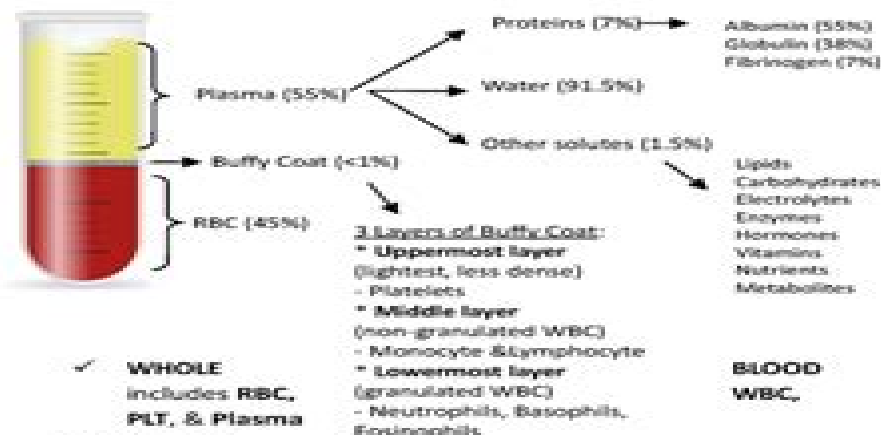
GENERAL CHARACTERISTICS OF THE BLOOD:

- ✓ **In vivo:** Fluid; **In vitro:** Solid (coagulates 5-10mins)
- ✓ **Thick & Viscous** (3-5x thicker than water)
- ✓ makes up 7-8% of the total body component or 75-85mL of blood per kg body weight
- ✓ approximately 20g solid per 100mL blood
- ✓ **Total Volume:**
 - **Adult male:** 5-6 L
 - **Adult female:** 4-5 L
 - **Newborns:** 250-350 mL
- ✓ **pH:** 7.35-7.45 / Average: 7.40
 - **Venous blood:** 7.35
 - **Arterial blood:** 7.45
- ✓ **Specific Gravity:** # of solutes dissolved in the blood
 - **Whole blood:** 1.045-1.066
 - **Plasma:** 1.025-1.029
 - **Serum:** 1.024-1.028
- ✓ **Color:**
 - **Arterial blood:** Bright red (Hgb is saturated with Oxygen; saturated HbO₂)
 - **Venous blood:** Dark purplish red (Hgb is not saturated with Oxygen; 0% HbO₂)
 - **In pulmonary arteries & veins:**
 - ◆ Hgb with O₂: Purple
 - ◆ Hgb without O₂: Blue
- ✓ **Osmolality:**
 - concentration of solutes dissolved in the blood
 - uses **Osmometer** for measurement
 - **Reference range:** 281-297 mOsm/kg

FUNCTIONS OF THE BLOOD:

- ✓ Aids in Respiration
- ✓ Transports Nutrients & Hormones
- ✓ Eliminates Wastes
- ✓ Maintains Body temperature
- ✓ Responsible in Body defense mechanism

COMPOSITION OF THE BLOOD:



- ✓ **WHOLE** includes RBC, PLT, & Plasma
- ✓ When a specimen is centrifuged, **WBC & PLT** make up the **BUFFY COAT** (Small white layer of cells lying between RBC & Plasma)
- ✓ **Plasma** is the liquid portion of unclotted blood
- ✓ **Serum** is the fluid that remains after coagulation has occurred & clot has formed

SERUM	PLASMA
Liquid portion of CLOTTED BLOOD	Liquid portion of UNCLOTTED or ANTICOAGULATED BLOOD
clear & transparent	Straw colored & slightly hazy
Has no FII	Has FII—has complete set of unconsumed PCF
Has FII, FIV, FVIII:C, FXIII—completely consumed in the coagulation; forms as a part of the clot	
FII—not completely consumed > 80% is consumed < 20% remains in serum & is called "Residual Prothrombin"	

Hematology Lab Manual

Karin Nielsen-Saines



Hematology Lab Manual:

The Enigmatic Realm of **Hematology Lab Manual**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Hematology Lab Manual** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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