

NURSING HEMATOLOGY

DIGITAL STUDY GUIDE

HEMATOLOGY

The hematology or hematopoietic system includes the **blood, blood vessels, and blood-forming organs** (bone marrow, spleen, liver, lymph nodes, and thymus gland).

Major function of blood is to **carry** necessary materials (oxygen, nutrients) to cells and to **remove** CO₂ system and metabolic waste products. It also plays a role in hormone transport, inflammatory and immune responses, temperature regulation, fluid-electrolyte balance, and acid-base balance.



THREE BROAD FUNCTIONS OF BLOOD :

1

TRANSPORTATION

- Respiratory – transport of gases by the RBC
- Nutritive – transport of digested nutrients from the GI to the different cells of the body
- Excretory – transport of metabolic wastes to the kidneys and excreted as urine

2

REGULATION

- Hormones and other molecules that help regulate metabolism are also carried in the blood
- Thermoregulation

3

PROTECTION

- Blood clotting
- Leukocytes

COMPONENTS OF THE BLOOD :

1. Plasma

2. Formed Elements

- Erythrocytes or RBC
- Leukocytes or WBC
- Thrombocytes or Platelets

BLOOD

Blood is a connective tissue that transports oxygen and nutrients, fights disease-causing organisms, and maintains body temperature.

1. PLASMA – Liquid Component

- Composed of 90% water
- Contains dissolved nutrients, hormones, and waste products
- Makes up 55% of blood volume

2. ERYTHROCYTES

- Red blood cells
- Carry oxygen

3. LEUKOCYTES

- White blood cells
- Fight infection

PLASMA

The liquid component of blood that carries the formed elements and dissolved substances.

- Composed of 90% water
- Contains dissolved nutrients, hormones, and waste products
- Makes up 55% of blood volume

Formed Elements

The solid components of blood that are suspended in plasma.

- Erythrocytes
- Leukocytes
- Platelets



ANEMIA

Anemia is a condition in which the body does not have enough red blood cells or hemoglobin to carry enough oxygen to the body's tissues.

SYMPTOMS

- Fatigue and weakness
- Pale skin
- Shortness of breath
- Headaches

CAUSES

- Iron deficiency
- Vitamin B12 deficiency
- Chronic kidney disease



APLASTIC CRISIS

Aplastic crisis is a condition in which the bone marrow stops producing new blood cells.

SYMPTOMS

- Anemia (pale skin, weakness)
- Thrombocytopenia (bleeding)
- Leukopenia (infection)

CAUSES

- Bone marrow failure
- Bone marrow suppression
- Bone marrow infiltration

DIAGNOSIS AND TREATMENT

- Complete blood count (CBC)
- Bone marrow biopsy
- Transfusion of blood products



CLINICAL APPLICATIONS

- Assessment of blood count and hemoglobin levels
- Monitoring of blood clotting
- Management of anemia
- Management of thrombocytopenia
- Management of leukopenia
- Management of bone marrow failure
- Management of bone marrow infiltration
- Management of bone marrow suppression

IRON DEFICIENCY ANEMIA

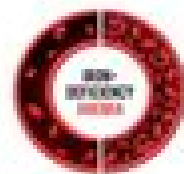
Iron deficiency anemia is a condition in which the body does not have enough iron to produce hemoglobin, the protein in red blood cells that carries oxygen.

SYMPTOMS

- Fatigue and weakness
- Pale skin
- Shortness of breath
- Headaches

CAUSES AND RISK FACTORS

- Iron deficiency
- Iron malabsorption
- Iron loss



DIAGNOSIS

- Complete blood count (CBC)
- Iron studies
- Bone marrow biopsy

CLINICAL APPLICATIONS

- Assessment of blood count and hemoglobin levels
- Monitoring of iron levels
- Management of iron deficiency
- Management of iron malabsorption
- Management of iron loss
- Management of bone marrow failure
- Management of bone marrow infiltration
- Management of bone marrow suppression

09 PAGES PDF GUIDE

Hematology Cls Study Guide

Camilla Rothe

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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