

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

PLATELETS

- Small, disc-shaped cells
- Help with blood clotting

PLASMA MEMBRANE

Acts as a barrier and controls the entry and exit of substances.

- Selective
- Permeable



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 (low RBC)
- Thrombocytopenia (low platelets)
- Leukopenia (low white blood cells)

CAUSES

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

DIAGNOSIS AND TREATMENT

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



CLINICAL INTERVENTIONS

- Assessment of vital signs and oxygen saturation
- Monitor for signs of infection
- Monitor for signs of bleeding
- Monitor for signs of fluid overload
- Monitor for signs of electrolyte imbalance
- Monitor for signs of nutritional status
- Monitor for signs of psychological status
- Monitor for signs of social support

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
- Dizziness

CAUSES AND RISK FACTORS

- Iron deficiency
- Iron malabsorption
- Iron loss

DIAGNOSIS

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



CLINICAL INTERVENTIONS

- Assessment of vital signs and oxygen saturation
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