# Hematology

#### WHAT IS HEMATOLOGY?

The study (morphology, physiology, and pathology) of blood and blood-forming organs and the diseases thereof

- Ulwest
  - As part of a routine medical exam to assess overall health
  - Diagnosis (e.g., an infection, anemia, leukemia):
  - Monitoring of a condition and its treatment

#### HEMATOPOIESIS/HEMOPOIESIS

The formation of blood cells and platelets in a fetus, formation starts in the yolk sac, moves to the liver and spleen, and then moves to the bone marrow, in an inflant, formation occurs in bone marrow, which is present in almost all bones, in an adult, formation of blood cells field and most white) and platelets occurs in the marrow of the proximal ends of the femur, petvin, sacrum, vertebrae, ribs, secrum, and skull.

- Hemopoletic growth factors: Erythropoletin (EPO), FLTS ligand (FLTS-L), granulocyte colony-stimulating factor (G-CSF), granulocyte-macrophage-CSF (SF (SM-CSF), interteuklin-1 (L-L), IL-S, IL-
- Memopoletic stem cell: Pluripotent, rare (frequency is 1 per 20 million nucleoted cells in bone marrow) CD34 CD38 Lin phenotype. Gives rise to more than 10° mature cells after 20 cell divisions and can self-renew by asymmetric cell division.
- Memopoletic progenitor cett: Multipotent
- Erythropolesis: Formation of red blood cells (RBCs); regulated by EPO, which is secreted by the kildneys in response to hypoxila (pxygen tension, the partial pressure of exygen)
  - Stem ceti → progenitor cell → colony-forming unit (CFU) granulocyte, crythreid, monocyte, and megakaryocyte (GEMM) (CFU) → burst-forming unit (BFU) erythreid (I) (BFU) EF CFU → pronomoblast → series of normobitasts in marrow that decrease in size, increase in hemoglobin (PID) content, lose RNA protein synthesis apparatus, and increase chromatin condensation → retroulocyte (nucleus extruded; nuclear CNA lost), which contains some ribotomul RNA (RNA) and synthesizes Hb → mature erythrocyte (rIRNA lost), which is a non-mulcosted, bi-concave disc (i.e., cell-like)
  - Assess by Hb level, resiculacyte count, and bone marrow exam.
  - Total erythrepoiesis assessed by the cellularity of massew and myeloidierythroid ratio
  - Effective erythropolesis assessed by reticulacyte count.
  - Ineffective enythropolesis: -10-13% of enythroblasts die in bone mannew; increases in pome chronic anemias; associated with increased unconjugated bilinubin (derived from the breakdown of Hb) and Lactate dehydrogenase LDH (derived from breakdown of ceibt) in serum.
- Extramedullary hematopolesis (EMH): Formation and development of blood cells outside bone marrow in response to the failure of erythropolesis in bone marrow.
- Granutopolesis: Formation of granutocytes.
  - Stem cell → CFU → CFU basephil progenitor (CFU ) → basephil Stem cell → CFU → CFU granulocyte monocyte eosinophil (CFU ) →
  - CFU essinophit progenitor (CFU\_)→ essinophit (scidophit)
  - Must cell (mastocyte or tabrocyte)
- Stem cell → CFU → CFU granulocyte monocyte progenitor (CFU\_) → CFU-G → neutrophil.
- tymphopolesis: Formation of lymphocytes and natural killer (NK) cells
   Stem cell common lymphoid progenitor 8 lymphocyte (8 cell)
- Stem cell.— common lymphoid progenitor— thymus— T lymshocyte (T cell)
- Stem ceti --common tymphoid progenitor--natural killer ceti (NK cett)
- Myelopolesis: Formation of blood marrow and all blood cells in marrow
   Monocyte formation
  - Stem cell → CFU→ CFU→ CFU→ CFU-M→ monocyte
- Thrembopolesis: Formation of thrombocytes, or plateters, in about 20 days; regulated by TPO (FSNs from the liver; SONs constitutively produced and SONs produced in response to platetet destruction).
   As the platetet ages, it laces cell-surface static acid, exposing galactose residues that attach to the Ashwell-Morell receptor in the liver, signaling for TPO production.
  - Stem cell CFU CFU megakaryocyte progenitor (CFU ) platelet (fragment of cytoplasm of megakaryocyte)
  - TPO blinds to the c-MPL receptor on megakaryotes and plateters, so plasma TPO is low in potients with excess plateters and high in potients with thrombocytopenia.

#### ORGANS OF THE LYMPHATIC SYSTEM

- . Bone marrow: Modified connective tissue in bone cavities that is soft, fatty, and vascular
- Red marrow: Where blood cells are formed
   Vellow marrow: Mostly fat
- Lymph modes: Small, widespread organs of the lymphatic system connected by lymphatic vessels. They
  filter lymph; form lymphocytes; become inflamed/enlarged with infection, disease, and injury; and are
  and to stone process.
- Thymns gland: Lymphoid organ behind the sternum where T cells are produced and mature; muture T cells migrate to lymph nodes throughout the body. This gland decreases in size with the onset of puberty and is replaced with fat.
- Thymnosin: Hormone produced by the thymus gland; stimulates T cell development.
- Tonsitz: Pair of masses of lymphoid tissue located at the root of the tongue in the throat; M cells on the surface take up antigens (Agt produced by pathogens and stimulate B cells and T cells; they also produce T tells;
- Spleen: Largest organ of the lymphatic system, located in the upper left quadrant of the abdomen.
   It filters blood, including old and damaged red blood cells, and produces lymphocytes.

#### BLOOD

Delivers oxygen, nutrients, and hormones to tissues; delivers carbon dioxide to lungs and other waste products to kidneys for nemoval; blood that leaves the heart returns in 20–30 seconds; there are 5–6 quarts of blood in the human body.

#### COMPONENTS

#### Red Blood Cells (RBCs)

Also called **erythrocytes**, they are non-nucleated, bi-concave discs when mature. They contain Hb, have a 120-day lifespan, and are 6-8 µm diameter (dm)

- Hemoglobin (Hb): 4 polypeptide (globin) chains; 96–98% Hb A (¬, ¬, 1.5–3.2% Hb A, (¬, ¬), and 0.5–0.8% Hb F (¬, ¬) wherein each polypeptide chain (¬, ¬, ¬, and ¬) contains an iron atom bound to protoporphyrin to form a heme; it transports oxygen from lungs to body tissues and carbon dioxide from body tissues to lungs.
- White Blood Cells (WBCs)

Also called leukocytes, they defend the body against infection. There is -1 WBC for every 600-700 RBCs. GRANULOCYTES

Also called myelecytes, they are immune cells containing granules that release enzymes.

- Basophit: Celt's granules retease enzymes during an altergic reaction, anthma, and an infection it can be stained by basic dye, is phagocytic, and has a lifespan of a few hours to a few days.
- Ecolnophit (acidophit): Cell's granules release enzymes during an allergic reaction, asthma, and an infection with parasites. It can be stained by acidic dye, is phagocytic, and has a lifespan of 6 to 12 days.
- Neutrophil (polymorph): Most numerous WBC, characterized by a dense, multi-tobed nucleus (2 5 tobes) and a pair cytoplasm with an irregular outline and fine assrophilic granules, which are prodomi
  - nantly secondary (specific) granules (ser myelocyte below). Has a 6-10 hour lifespan

     These precursors, located in bone marrow, rarety occur in normal peripheral blood other than the band, stab, and layerite forms:
  - Myeloblast: Also called myelomonoblast, it is the earliest recognisable precursor, characterized by a large nucleus with fine chromatin and 2–5 mucheol, and a cycloplasm with no granules. It varies in size, is capable of cell division, and it gives rice to promyelocyte, been marrow comprises less than 5% myeloblasts and it is difficult to distinguish from monoblasts, premonocytes, and monocytes (one monocyte below).
  - Pnamyelocyte: Slightly Larger than myeloblasts; can distinguish commitment to basophilic ensinophilic, and neutrophilic lineages using electron microscopy (EM). Cytoptism contains primary granules (of lysosomal origin) containing myeloperoxidase (MPO) and other acid hydrolases. It is capable of cell division, and gives rice to myelopetes.
  - Myelocyte: Can distinguish morphological commitment to basophilic, ecoinophilic, and neutrophilic lineages. The nuclear chromatin is more condensed nucleoti are not visible, and the cytoplasm contains secondary (specific) granules of tytosomal origin containing tactoferrin, tytosyme, and other enzymes. It is capable of sell division and gives rise to metamyelocyte.
  - Metamyelocyte: Non-dividing crit. The nucleus is indented or horseshoe-shaped and the cytoglasm contains primary and secondary granules
  - Band, stab, or javenile: Forms of neutrophil between metamyelocyte and moture neutrophil. They are distinguishable from mature neutrophili by the absence of clear, fine filaments between nuclear lobes.
  - . Functions:
  - Chemotaxile: Cell is mobilized and migrates to a foreign material (e.g., bacterium, fungus, debris) or a site of inflammation by chemotaxile substances released by damaged tissue, cytokines, and by the inflammation of leukecyte adhesion materials with ligands on damaged tissue.
  - Phagocytosis: Ingestion of bacteria, fungi, foreign debris, and dead or damaged host cells
  - Killing and digestion:
  - Oxygen-dependent: Superoxide, hydrogen peroxide, and other activated oxygen species are generated from oxygen and reduced miostinamide adenine dinucleoside phosphise (NADPH). Bacteria are killed when hydrogen peroxide reacts with halide and myeloperoxidase; process may also involve activated oxygen species.
  - Oxygen-independent: Proteins, such as cathepoin G, lyssayme (with hydrogen peroxide), or etastase (with hydrogen peroxide) kill bacteria; may also act with a decrease in pH inside a phagocytic vacuate containing lysosomal enzymes. Lactoferin blods iron, thereby depriving bacteria of iron and generating free radicals (bacteriostatic)

## **Paramedic Hematology Study Guide**

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