

WORLD'S OF OURCE REFERENCE GUIDE Hematology

WHAT IS HEMATOLOGY?

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

- - 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 volk sac, moves to the liver and solvers, and then moves to the bone marrow in an infant, formation occurs in bone marrow, which is present in almost all bones, in an adult, formation of blood cells ired and most whitel and platelets occurs in the marrow of the proximal ends of the femur, pelvis, socrum, vertebrae, ribs, stennum, and skull.

- Memopoletic growth factors: Erythropoletin (EPO), FLTS Egond (FLTS-L). granulocyte colony stimulating factor (G-CSF), granulocyte macrophage CSF (CM-CSF), interferable-1 (IU-1), IU-5, IU-5, IU-6, macrophage-CSF 84 CSF), stem cell factor (SCF), strombopoistin (TPO), tumor nocresis factor (TNF), viocular endothelial growth factor (VEGF). Effects are mediated by binding receptors on cell surfaces
- Memopoletic stem setti Piuripotent, rare (frequency is 1 per 20 million nucleated cells in bone marrow) CO34 CO58 Lin phenetype. Gives rise to more than 10° mature only after 20 cell divisions and can self-renew by asymmetric cell division.
- Momogoletic progenitor exil; Multipotent.
- · Engineepolesia: Formation of red blood calls (RBCs); regulated by EPO, which is secreted by the kidneys in response to hypoxia (oxygen tension, the partial pressure of paypers.
 - Seem cett -- progenitor celt -- extony-forming unit (CFU) granulacyte, erythroid, monocyte, and megakaryocyte (CEMM) (CFU___)burst-forming unit (BFU) erythraid (E) (BFU-3E CFU) -- promote blast - series of normobilests in marrow that decrease in size. increase in hemoglobin (Htb) content, lose RNA: protein synthesis apparatus, and increase chromatin condensation- reticulocyte inucleus extruded; nuclear ONA leat), which centains some ribosomut RNA (rRNA) and synthesizes Hb -- mature erythrocyte (rRNA lost), which is a non-nucleated, bi-concave disc (i.e., cell-like).
 - Assess by Hb Sevel, reticularyte count, and bone marrow exam.
 - . Total erythropolesis assessed by the cellularity of morrow and mysterial evolutional distribution
 - Effective enythrepoliesis assessed by neticularyte count.
 - teeffective erythropolesis: 50-15% of enythrobitests die in bone marrow; increases in some choosic anemias; associated with increased unconjugated bilirubin (derived from the breakdown of Hitly and testage dehydrogenase LDM (derived from breakdown of controls lies, tomorpoon,
- · Extramedulary homotopolesis (EHR): Formation and development of blood cells outside bone marrow in response to the failure of erythroprofessis in boone maintow.
- Granutepolepia: Formation of granutecytes
 Stem cell → CFU → CFU baseathit progenitor (CFU _ 1 → baseathit Stem cett - CFU - CFU granutocyte monocyte eosinophit (CFU__) -
 - CFU equinophit progenitor (CFU, 3- equinophit (scidophil)

 - Mast cell (mastocyte or latinocyte)
 - Stem cell CFU CFU CFU granulocyte monocyte progenitar HOFU I'm CPU-Greeneutrosphit
- Eamphopolesis: Formation of lymphocytes and nutural killer (NR) cells
- Stem cell: common lymphoid progenitor -- B lymphocyte (5 cell)
 Stem cell: -- common lymphoid progenitor -- thymus -- T lymprincipate (T. pesis).
- Stem pell -common lymphoid progenitor notural killer cell PM cells
- Hystopolesis: Formation of blood murrow and all blood cells in mamme Monocyte formation:
 - Stem cett -- CFU -- CFU -- CFU -- CFU-M -- monocyte
- Thrombopolissis: Formation of thrombocytes, or platetets, in about 10 stoys; regulated by TPO (95% from the liver; 50% constitutively produced and 50% produced in response to platelet destructions. As the platelet ages, it teses cell surface static acid, exposing galactope residues that attach to the Achivell-Morell receptor in the lives. signating for TPO production
- Stem cell -- CFU- CFU megakaryocyte progenitor (CFU_)-placeter thanment of cytoplasm of meguharyocytot
- . TPO binds to the c-MPL receptor on megaharanters and platefets, so places TPO is low in potients with excess planeters and high in partients with thrombocytepenia.

ORGANS OF THE LYMPHATIC SYSTEM

- Bone marrows Modified connective tissue in bone cavities that is soft, fetty, and vascular
 - Red marries: Where blood cells are formed
- Welliper management Misselly feet. Lymph nodes: Small, widespread organs of the lymphatic system connected by lymphatic vessels. They filter lymph; form lymphocytes; become inflamed/intarged with infection, disease, and injury; and are
- . Tramus plant: Lymphoid organ behind the sternum where T cells are produced and mature, mature T cells imigrate to symph nodes throughout the body. This gland decreases in size with the oncet of
- pulserty and is reptaced with fat. Thympsin: Mormone produced by the thymus gland; stimulates T cell development.
- Tensity: Pair of musters of lymphoid tissue located at the root of the tongue in the throat; Micetis on the surface take up antigens (Agi produced by pathogens and stimulate B cetts and T cetts; they also
- 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 orlin, and produces lymphocytes.

BLOOD

Delivers propen, nutrients, and hormones to tissues; delivers carbon dioxide to lungs and other waste products to kidneys for removal; 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 ergthrecytes, they are non-nucleated, bi-concave discs when mature. They contain Hb, have a 130-day bilespon, and are 6-8 pm diameter birds

- Hemographia (Risk) 4 polypopolist spacing chains, 96–98% Ho A (-, -) 1, 1,5–3,2% Ho A (-), -) 1, and 0.5 - 0.8% Hb F (--, -- 1, wherein each polypeptide chain (--, --, and --) contains an iron atom bound to protoporphyrin to form a herne; it transports oxygen from lungs to body tissues and carbon dioxide from body tissues to lungs.
- White Blood Cells (WBCs)

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

Also called mystorates, they are immune cells containing granules that release ensymes.

- . Basephil: Crit's granules retrease enzymes during an attengic reaction, authors, and an infection. It can be stained by basic dyn, is phopocytic, and has a lifespan of a few hours to a few days.
- Essingulit (acidophit): Crit's granules release engines during an allergic reaction, asshma, and an flection with parasites. It can be stained by acidic dye, is phagocytic, and has a lifespon of 8 to 12 days
- Newtrophil (polymorph): Most numerous WSC, characterized by a dense, must habed nucleus (2-5 latter) and a pole synoplasm with an irregular outline and fine assrophitis granules, which are predominantly secondary (specific) granules (see myelacyte beland. Has a 6 - 20 hour lifespon
 - These precursors, located in bone marrow, sarely occur in normal peripheral blood other than the bond, state, and loverelite florens;
 - Myelektast: Also called myelemonoblast, it is the earliest recognizable precurser; characterized by a sarge nucleus with fine chromatin and 2-5 nucleoti, and a cytoptusm with no granules. It varies in size, is capable of cell division, and it gives rise to promyelocyte. Sone marrow comprises less than 5% impeloblasts and it is difficult to distinguish from monoblasts, promonocytes, and monocytes (not enprecyte below):
 - Premyelecyte: Stightly larger than mustablasts, can distinguish commitment to basephilic eccinophilic, and neutraphilic lineages using electron microscopy (EM). Cytoplasm contains primary granules (of bysocomol origin) containing mystoperoxidase (MPC) and other acid hydrolanes, it is: capable of cell division, and gives rice to myelocytes.
 - Myelocyte: Can distinguish morphological commitment to basephilic ecologibilis, and neutrophilis lineages. The nuclear chromatin is more condenced, nucleoti are not visible, and the cytoplasm contains becondary (specific) granules of lysosomol origin containing lactofersin lysosyme, and other enzymes, it is capable of cell division and gives rise to metamoriscyte
 - Metampelocyte: Non-dividing cell. The nucleus is indented or horseshoe-shaped and the cytopiasm contains primary and secondary granules
 - Band, stab, or juvenile: Forms of neutrophili between metamyelocyte and mature neutrophili. They are distinguishable from moture neutrophil by the absence of clear, fine filaments between mortister ligities.
 - Francisco Michigan
 - Chemotrade: Cell is mobilized and migrates to a foreign material (e.g., bacterium, fungus, debris). or a site of inflammation by chemotactic substances released by damaged tissue, cytokines, and by the interaction of lousocyte adhesion molecules with ligands on damaged tissue
 - Phagocytesis: Ingestion of bacteria, fungi, foreign debris, and dead or damaged host cells
 - Killing and disestion:
 - Oxygen dependent: Superioride, hydrogen peroxide, and other activated oxygen species are generated from dwygen and reduced nigotinamide admine dinucleotide phosphate DANDFVI. Bucteria are killed when hydrogen peroxide reacts with holide and myeloperanidese; process may also involve activated oxygen species.
 - Oxygen-independent: Proteins, such as cathopsin G, lysoxyme (with hydrogen peroxide), or elactase (with Psydrogen peroxide) till bacteria; may also act with a decrease in pH inside a phogacytic vacuals containing bycosomal enzymes. Lactoferrin binds iron, thereby depriving bacteria of iron and generating free radicals (bacteriestatic)

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N Colangelo

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