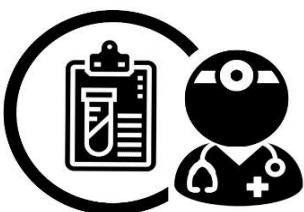


Anatomy of a CBC



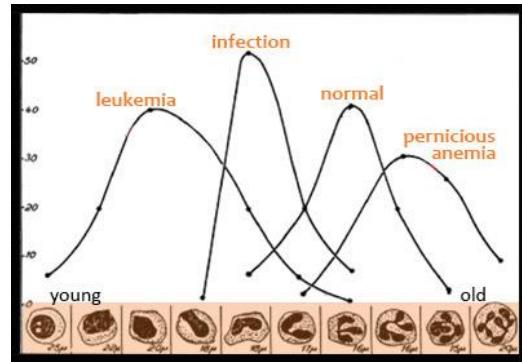
CBC

<u>HI-Polycythemia >16</u>
<ul style="list-style-type: none"> • Dehydration • Hypoxemia (ex. COPD, OSA, CHD, high altitude) • Polycythemia vera
<u>LO- Anemia</u> transfuse @ hg=7
MCV<80 - Iron deficiency
MCV>100 - Folate or B12 deficiency
MCV=normal - Hemorrhage

CBC
WBC
RBC
Hg
Hct
MCH
MCV
RDW
Plt
MPV



Platelets pieces of megakaryocytes responsible for clotting. No surgery <50 transfusion <20 Spontaneous Bleed <10
<u>LO – Thrombocytopenia<50</u>
<ul style="list-style-type: none"> • Liver Dz (ETOH) • HELLP or DIC or HIT • TTP or ITP <p>No transfusion if TTP- will make worse!</p>



Left shift = Bandemia

WBC represent 5 different cell types found in the differential.

HI- Leukocytosis >12

- Demargination
- Infection
- Steroids
- Leukemia

LO – Leukopenia <3

- Chemo/radiation
- Nutrient def
- Sulfas
- Aplastic anemia

Differential	
	Neutrophils Bacteria & fungi & acute phase inflam
	Lymphocytes Virus & autoimmune & tumor cells
	Monocytes Chronic inflam & long term
	Eosinophils Parasites & allergies
	Basophils Allergies & macroparasite & t cell regulation

