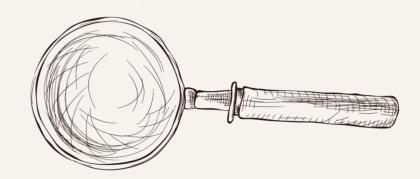


LUKENIA

Name: Esraa Fuaad Omar Elzohiry

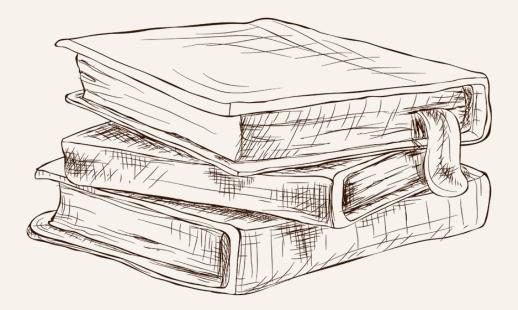
supervisor : Dr Lotfy Zakaria Habbak





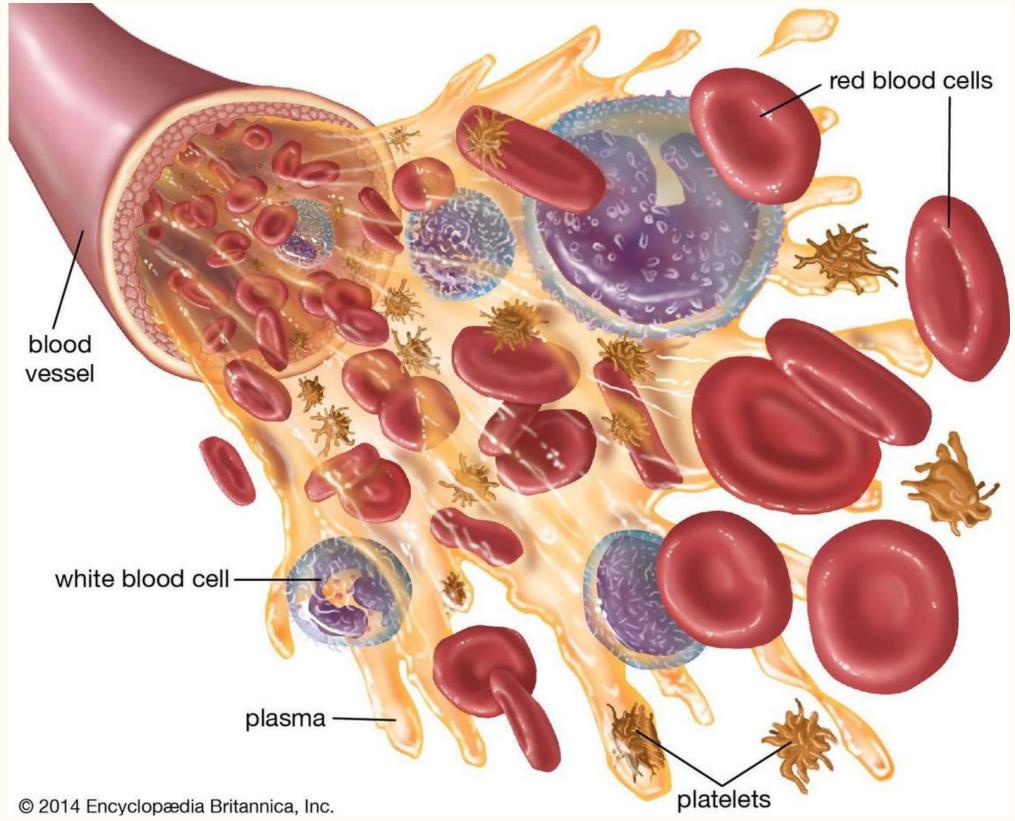






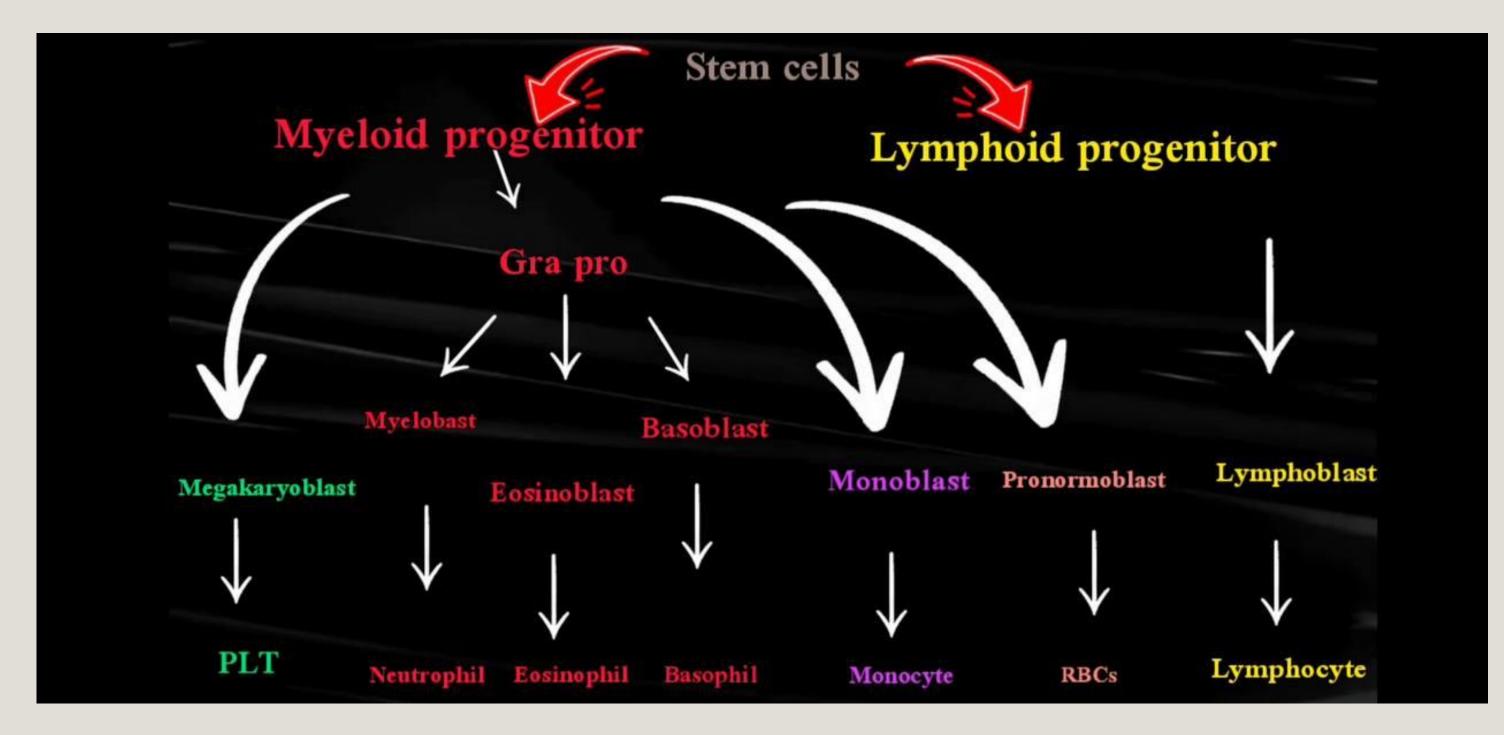
INTRODUCTION

Blood is a specialized body fluid. It has four main components: plasma, red blood cells, white blood cells, and platelets. All thiscells are synthesized in **Bone Marrow and then transport** to the blood. If bone marrow made a certain type and more of it would still be produced this is "LEUKEMIA"



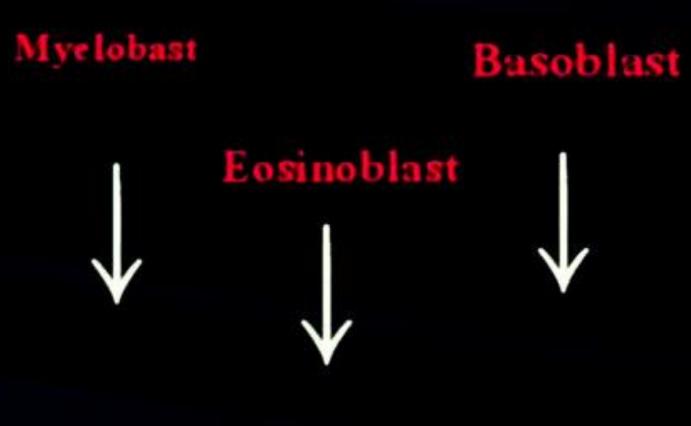
Bone Marrow (Myelo)

It has stem cells inside it and they are very active baseline. They give Two production line.





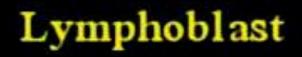




Neutrophil Eosinophil Basophil

Lymphoblastic leukemia







Lymphocyte



Myeloblastic



Myeloblastic

Leukemia

Myeloblastic

Chronic

Leukemia

- - Leukemia

AML

CML

Lymphoblastic



Acute

Chronic

Lymphoblastic

Lymphoblastic

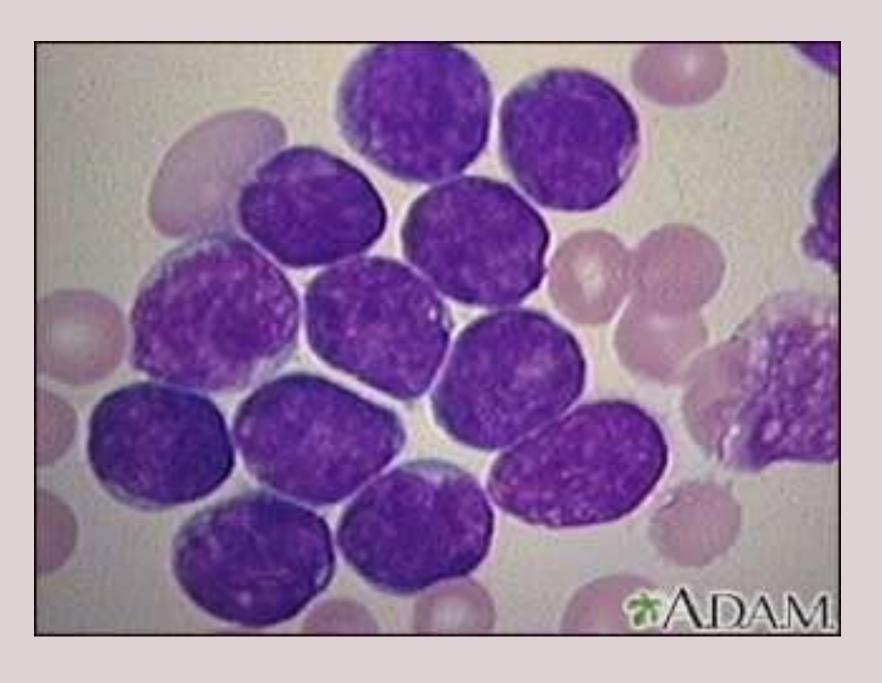
Leukemia





What is Acute Lymphoblastic Leukemia (ALL)?

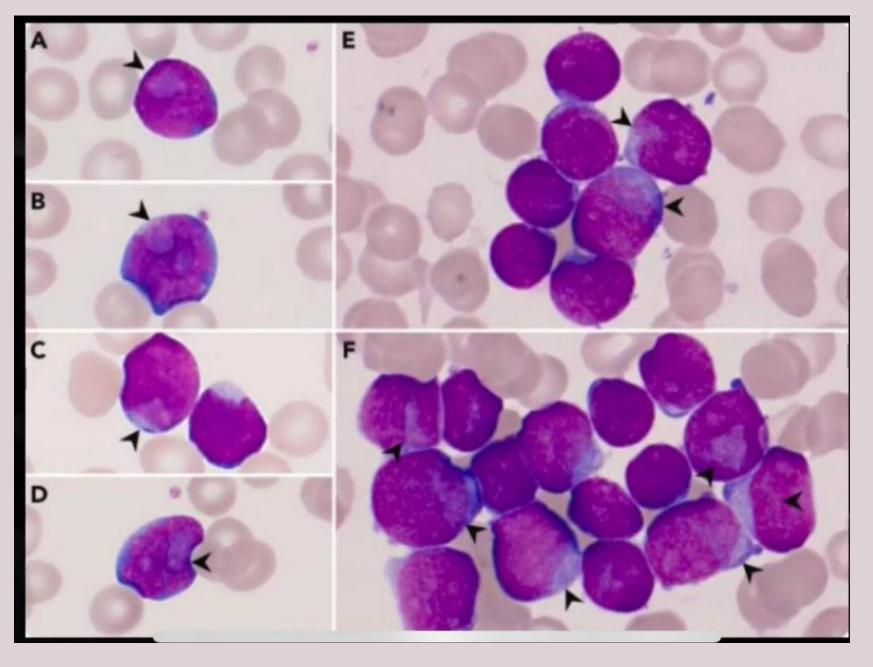
An acute and aggressive cancer that affects the bone marrow, specifically the lymphocyte production line, specifically the lymphoblast cell



SYMPTOMS ??

1. Bone Marrow Failure

Lethargy- Pallor - Dyspnea - Weight loss - Loss appetite - Fatigue - Low RBCs (Anemia) Low Neutrophils (Neutropenia) Infection, tired Low platelets (Thrombocytopenia) infiltrate to Organs pain in bone and Enlargement Lymph nodes, Liver, spleen, edema in lower limbs and abdomen and Headache, vomiting.

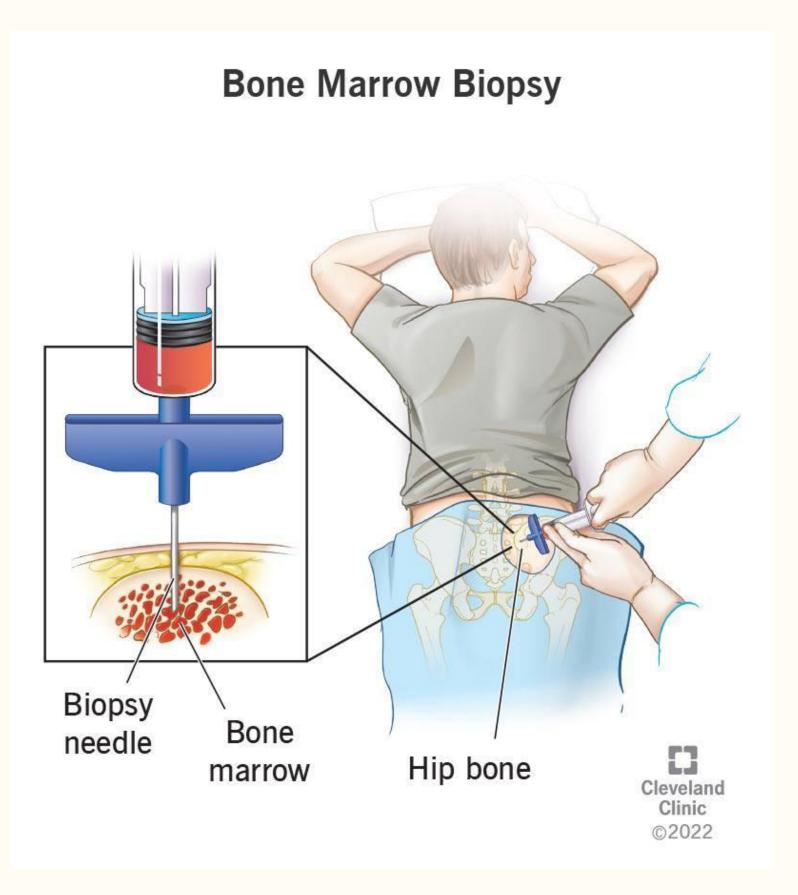


What is the Risk Factor ??

- 1. Genetic abnormality
- Numerical abnormality Change of the chromosome number Hyperploidy, Hyperploidy
 - Structural abnormality
 - Down syndrome, Fanconi anemia, Bloom syndrome,
 - X-linked agammaglobulinemia, severe combined
 - immunodeficiency, Shwachman-Diamond
 - syndrome, Kostmann syndrome, neurofibromatosis
 - type 1, ataxia-telangiectasia, paroxysmal nocturnal hemoglobinuria, and Li-Fraumeni syndrome

How We Diagnosis Acute Leukemia ?

1. Clinical Examination **2. Radiology Tests 3. Lab Tests (CBC, Blood** film, Bone Marrow Examination 4. General Check Up (Liver function)



5. Immunophenotying

What's Treatment ??

1. Chemotherapy (remission) induction, intensification, maintenance therapy) 2. Radio Therapy 3. Biological Therapy 4. Immunotherapy 5. Supportive Therapy 6. Gene Therapy 7. Bone marrow transplant



