



# HLS CHECKLIST



دراسة أولى

اتقان

مراجعة

## Physiology

- Introduction
- Erythrocytes (general characteristics)
- Erythrocytes (RBC parameters)
- Thrombocytes
- Hemostasis
- Regulation of Hemostasis
- Leukocytes 1
- Leukocytes 2
- Blood groups and blood transfusions
- Body fluids and lymphatic system

## Histology

- Blood cells-1 (Histology of Erythrocytes)
- Blood cells-2 (Histology of Granulocytes)
- Blood cells-3 (Histology of Agranulocytes & Thrombocytes)
- Hematopoiesis - 1 (Erythropoiesis)
- Hematopoiesis - 2 (Granulopoiesis)
- Lymphatic system-1 (Histology of Lymph nodes)
- Lymphatic system-2 (Histology of Spleen, Tonsils and MALT)
- Lymphatic system-3 (Histology of Thymus, T cells development)

## Biochemistry

- Hemoglobin overview
- Regulation of Hemoglobin function
- hemoglobinopathies
- Metabolism in erythrocytes
- Metabolism of iron
- Biochemical view of blood coagulation 1
- Biochemical view of blood coagulation 2

## Pathology

- Polycythemia
- Anemia of blood loss
- Anemia of low production
- Hemolytic anemia
- Hemoglobinopathies
- Bleeding disorders
- Neoplastic diseases of WBC 1
- Neoplastic proliferation of WBC 2
- Neoplastic proliferation of WBC 3
- Non- neoplastic WBC disorders





# HLS CHECKLIST

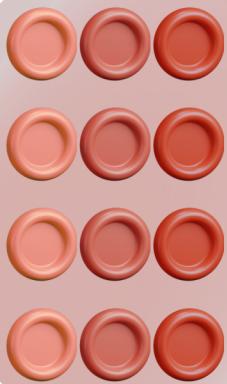


دراسة أولى

اتقان

مراجعة

## Microbiology



Blood protozoa:  
Plasmodium & Babesia



Hemoflagellates:  
Trypanosoma and Leishmania



Viral diseases in the  
hematolymphatics-1



Viral diseases in the  
hematolymphatics-2

## Physiology lab



Packed Cell Volume  
Erythrocyte Sedimentation Rate  
Osmotic Fragility Test



Differential Leukocyte Count  
Reticulocyte Count



Blood Typing-Bleeding  
Time-Clotting Time

## Pharmacology



Antiplatelets drugs



Anticoagulant drugs



Antimalarial drugs



Antiviral drugs



Cancer chemotherapy 1



Cancer chemotherapy 2



Drugs used in anemias 1



Drugs used in anemias 2

## Histology lab



Histology of Blood Cells and  
Primary Lymphoid Organs



Histology of Secondary  
Lymphoid Organs

## Clinical



Case presentation



Case discussion

