HGMATOPOIGTIC E LЧMPHATIC SपडTGM -HAツAT BATCH-
$S U=E T=H L S$ - Anatomy Lab $\mathrm{L}=\mathrm{NQ}=1$ DONE BY = Ibn AL-Qassam

Lymph Node

M- Medulla
Cx-Cortex
C- Capsule
S- Subcapsular sinus
F- Lymphatic follicle or nodule
MC- Medullary cords
S- Trabecular sinus
P- Paracortical area or zone
H- Hilum :(Artery /Nerve,vin.) برضلd
Q What is the structure in this slide?
Ans: Ky mph nodules


Light Because Antigen $\rightarrow$ plasmacell $\leftarrow$ اوريs




1) Germinal center Cords, has light color Becauseof plasma cells
2) Para cortical area/zone or inner cortex, has T-cells

Lymph note
3) marginal zone/ has a dark color, be cause of $B$-cells

## Spleen

## C \& cap- Capsule

Rp- Red Pulp
WP- White pulp
T \& *- Trabecula


اللهم انصر أهـل غزة


Spleen

- Between brackets- Lymphatic Nodule
- Yellow arrow- Central artery
- Red Arrow - Periarterial sheath
- Black Arrow - Marginal Zone




## Thymus

- Part of the thymus between brackets is called (Incomplete Lobule)

- M- Medulla
- Yellow arrow- Trabecula



## Thymus Cont.,

- This image shows part of the medulla
- Round structure in the middle is (Hassale corpuscle)
- Blue Arrow- High Endothelial Capillary
- T- T lymphocytes
- Black arrows- Epithelial Dendritic Cells



## S.S.E

## Palatine Tonsil

- It is surrounded by incomplete connective tissue capsule (Yellow arrows)
- It has many crypts (Black arrows)
- Notice the distribution of lymphatic nodules (Red Arrows)



## Lingual Tonsil

S.S.E

1. Notice the covering of stratified squamous epithelium
2. Notice the presence of one crypt for each tonsil
3. Notice the presence of lymph nodules
4. Sometimes you can see the mucus glands and the skeletal muscle fibers of the tongue


## Pharyngeal Tonsil (1 and 2)

1. Notice the pseudostratified columnar epithelium covering the tonsil
2. Notice the presence of lymph nodules
(The round structures)
3. Notice that there is no crypts


$R B C_{s}$ has (7.5 )Diameter
Blood Smear showing granulocytes


## A yanatoses

## Blood Smear

1. Monocyte with kidneyshaped or indented nucleus. Light area represent the location of Golgi Apparatus
2. Lymphocyte with round nucleus almost filling the cytoplasm
Compare the size of the above cells compared to RBC to realize their sizes




Electron micrographs of

1. Eosinophil
2. Specific granules of eosinophil
3. Basophil 4
4. Neutrophil
5. Compare the number and the size of the granules


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www. Histoloy. U mich.edu
(2) Lucida virtual microseopy

لا تّسوا الدعاء لأهلانا في غزة

