

**PATHOLOGY IMAGES  
COMPILED**

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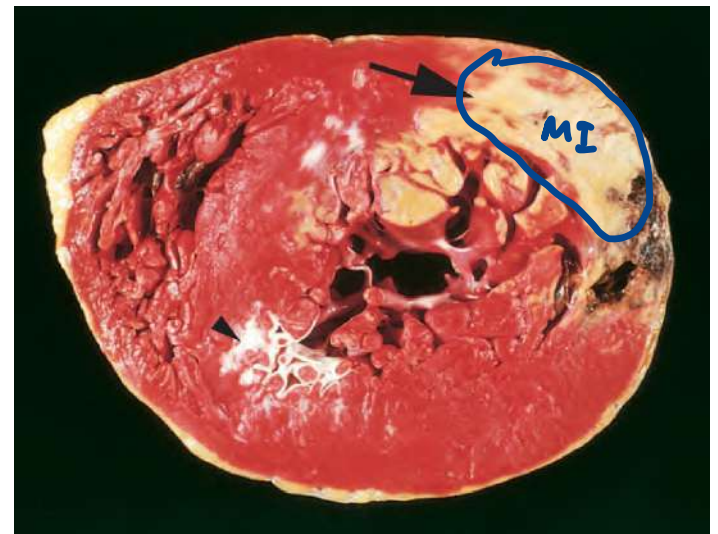
**INTEGRATED MODULE**

# CVS

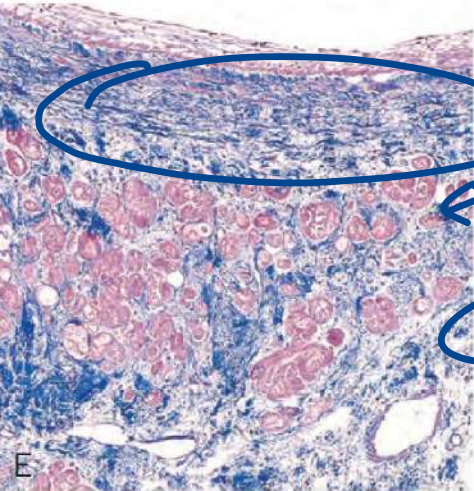
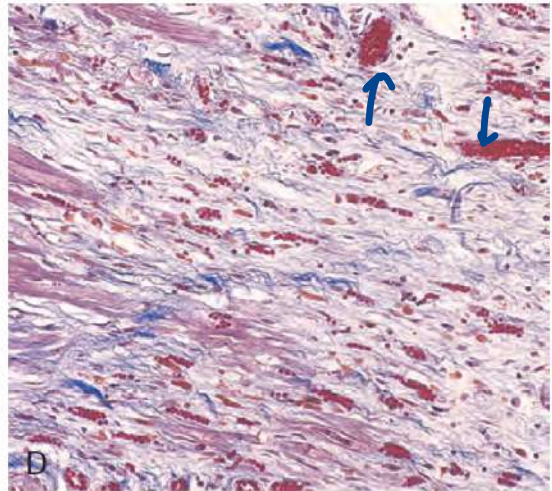
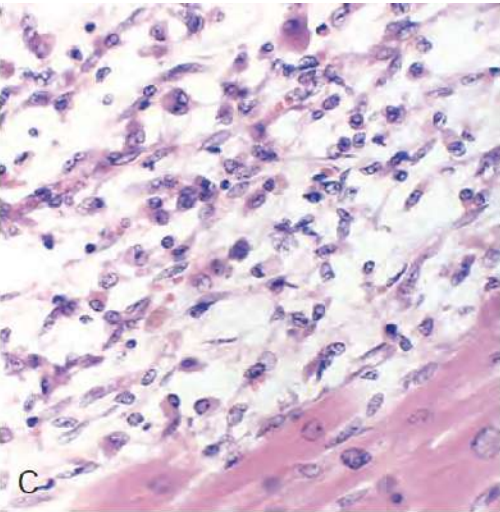
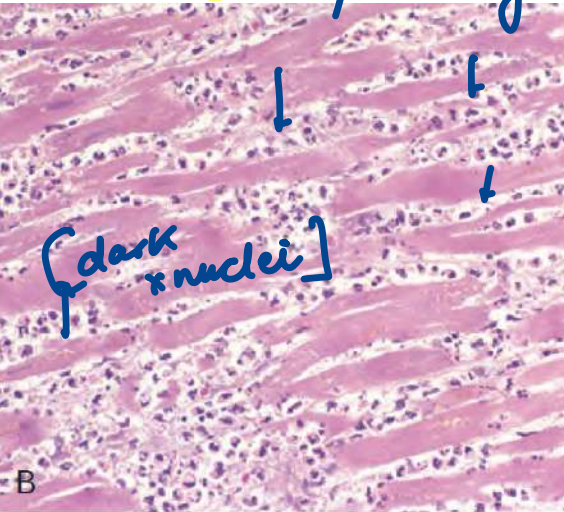
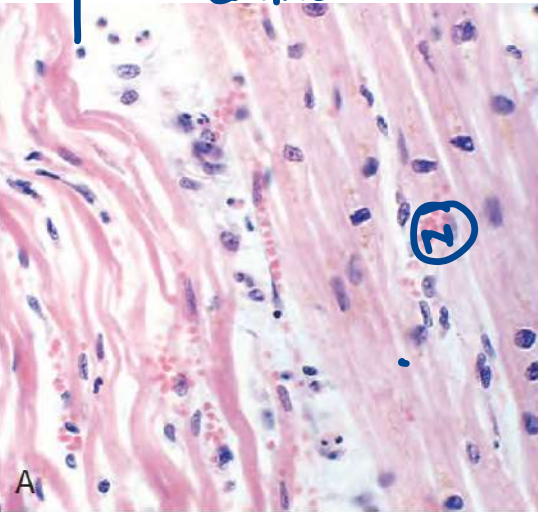
Waviness 30m - 4hr  
earliest

Mottled  
24hr - coag necrosis  
1-3d - Neutrophilic infil<sup>n</sup>

yellow border  
3-7d: Mphgs  
Hyperemic border

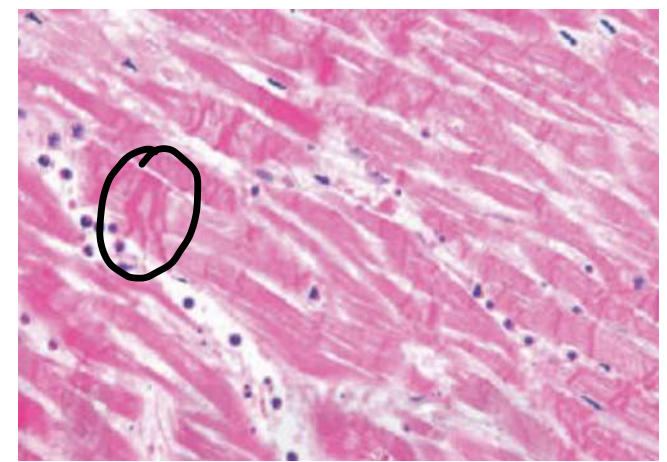


TTC - LDH Flipping:  $\curvearrowright$   
(N): LDH 2 > 1

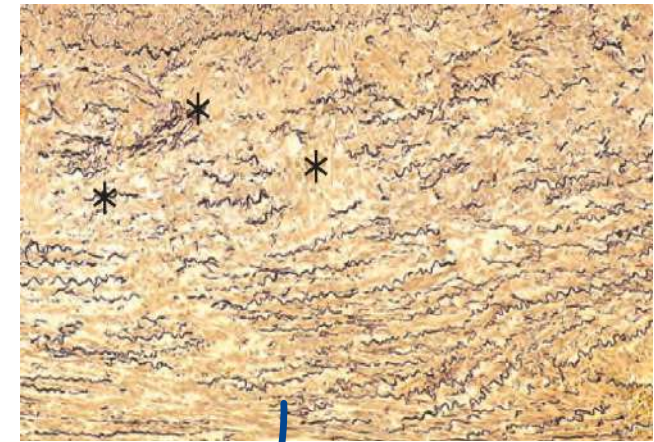
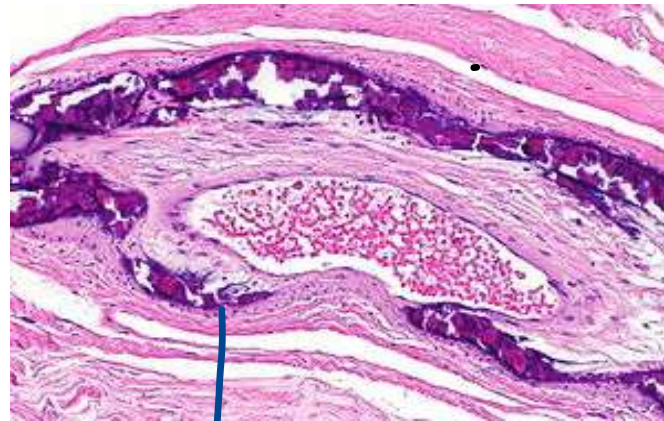
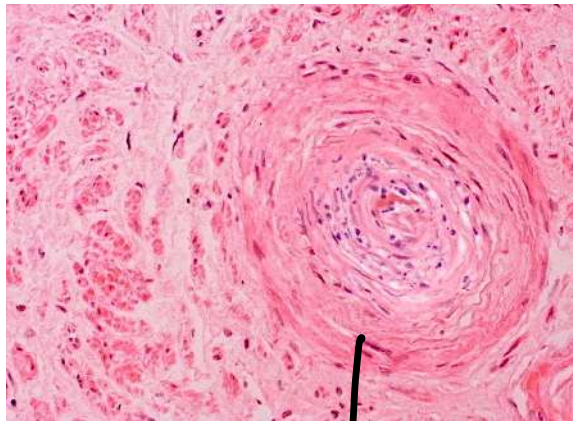
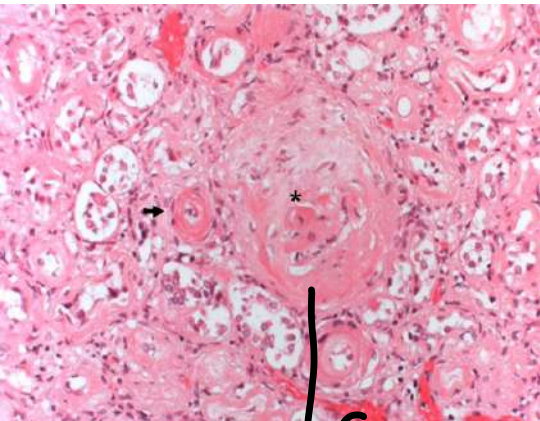


inclusion:  
Fibrous  
Scar  
collagen  
>14d  
Scar

7-10d - Granul<sup>n</sup> tissue  
tan



Reperfusion - contrac<sup>n</sup> bands  
free radical



**Hyaline**

(plasma prot subendoth)

- DM
- Hgtn

• Leather grain

**Hyperplastic**  
(malign hgtn)

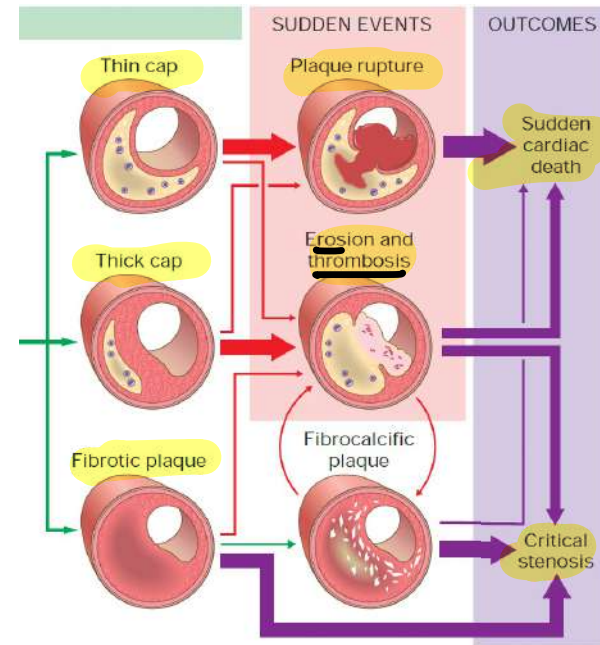
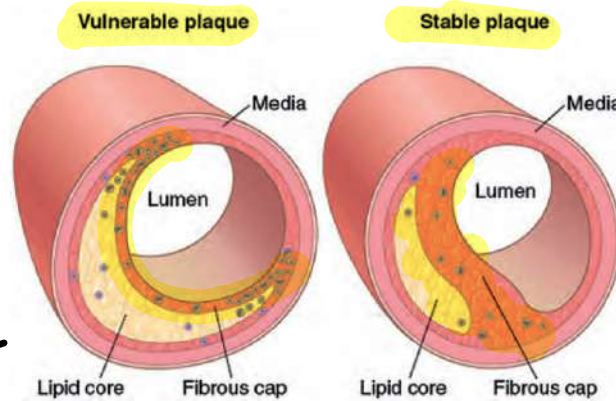
• Flea bitten

Monckeberg medial sclerosis  
• aging

cystic medial degeneration  
• Magan's



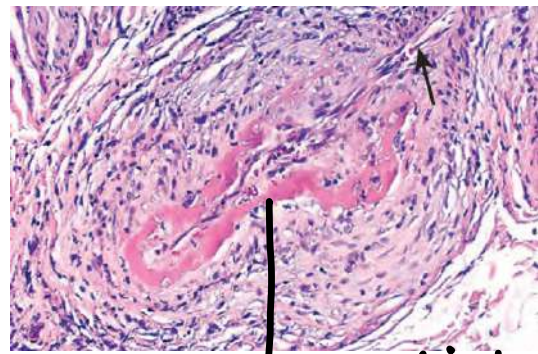
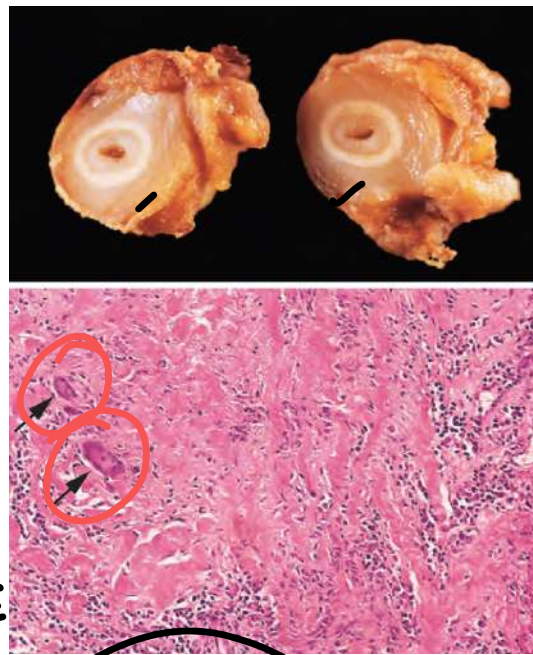
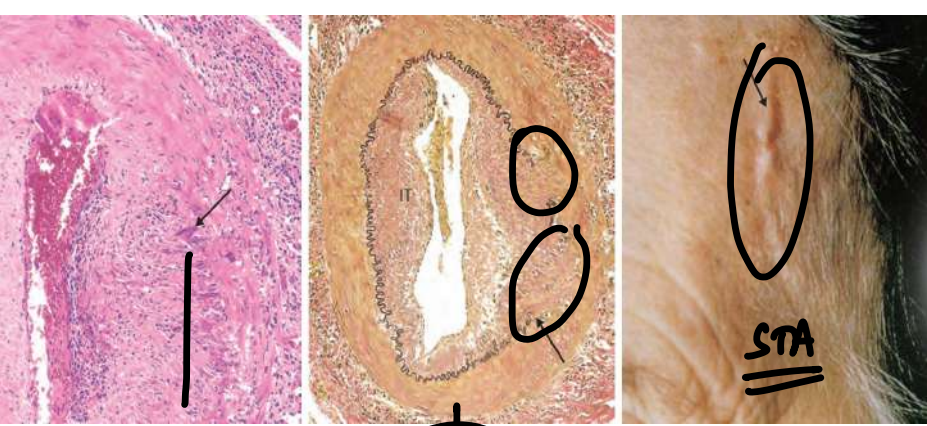
Telegram: @brainandscalpel  
t.me/brainandscalpel



+ve remodeling  
→ lumen ↑

-ve remodeling  
→ lumen ↓

lumen ↓ stenosis



Giant cell  
skip lesions

WG

>50yr  
(GCA / temporal) ICA  
L  
optimalnic  
A

1st - steroids  
Gold std → Bx

Takayasu  
LSCA

<50yr

VL - diff in BP

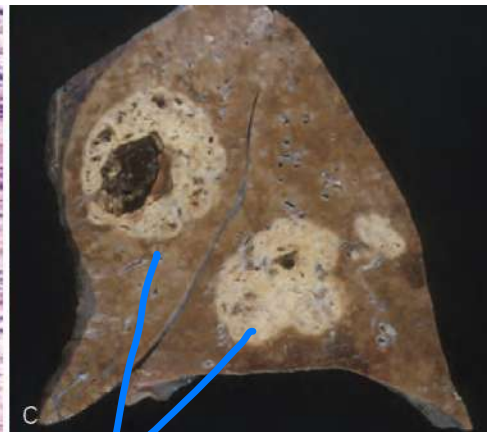
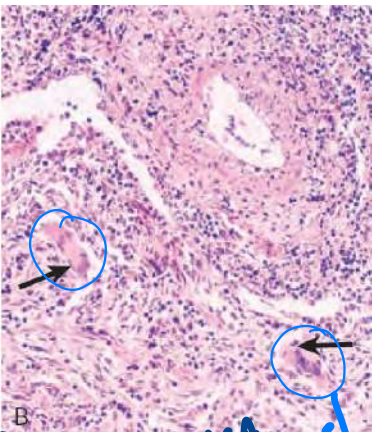
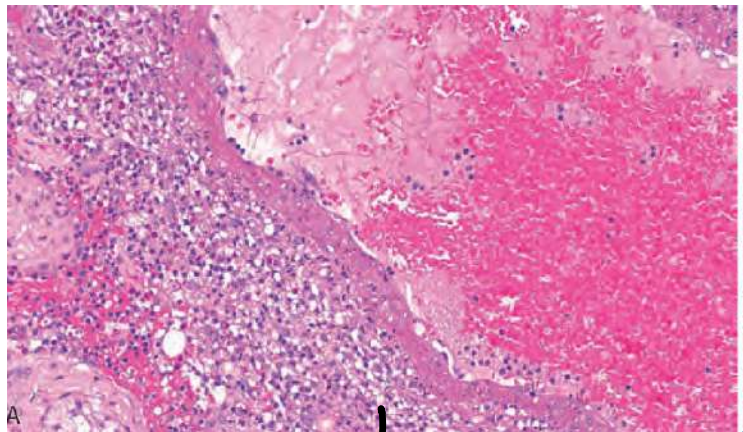
Fibrinoid necrosis  
+ skip L  
PAN - PA No H&C Ag  
GN No 1/30%

Smoker or  
TMD /  
Buerger's

orkscrew  
collaterals  
A/V/N  
x lymphatics

supraaortic AS  
Aortic dissection  
predilect

W-U-C-ANCA



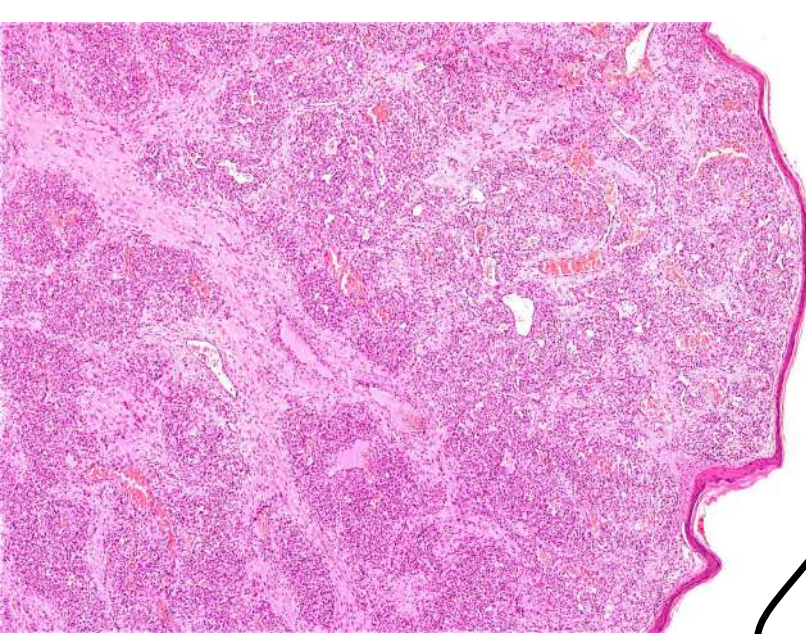
leukoclastic vasculitis

eosinophilia  
MPA / GS  
p-ANCA  
granulomas  
EGPA

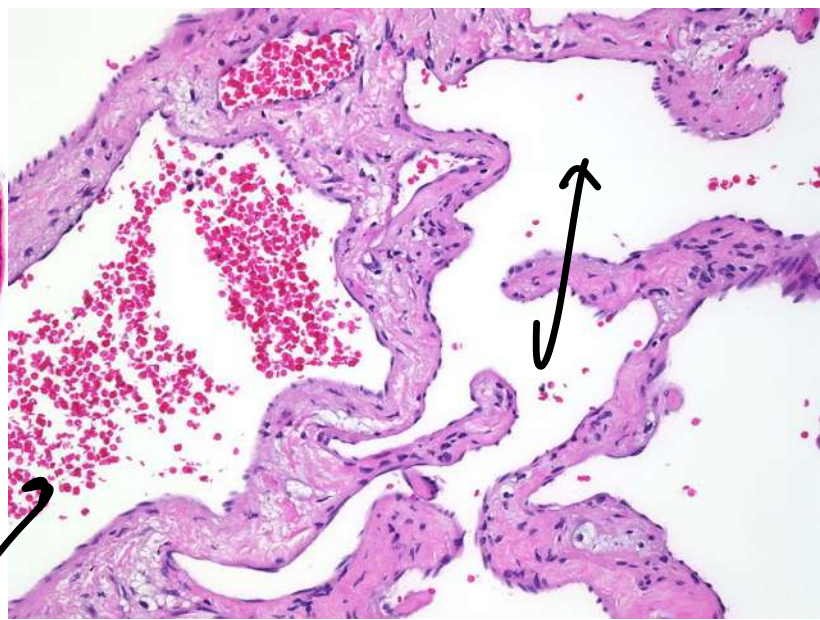
Granuloma

WG / GPA

URT / LRT / B → x granulomas



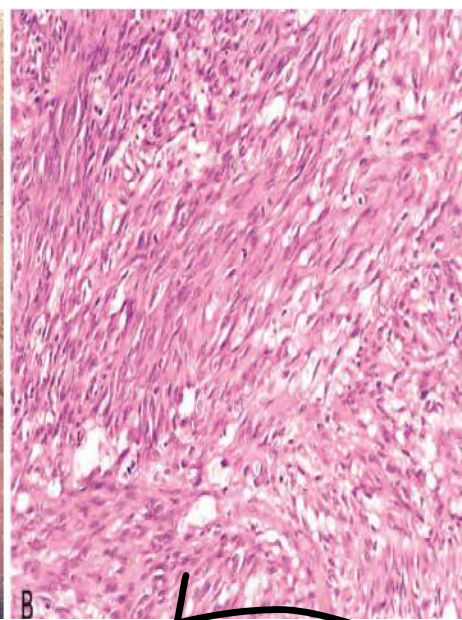
Capillary hemangioma



Cavernous hemangiomas  
• Kasabach Meitz S<sub>1</sub> - thrombocytopenia



HN (+)

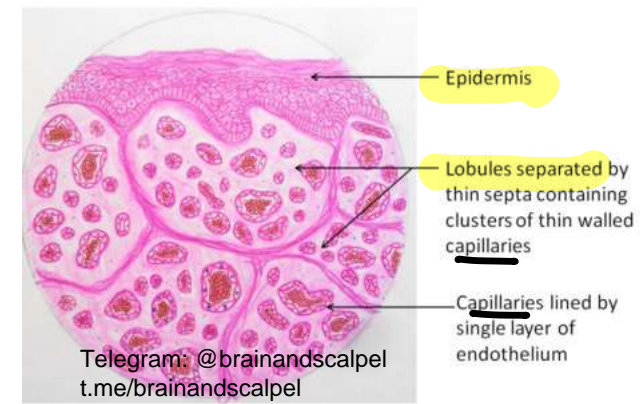


Spindle cells  
Kaposi sarcoma

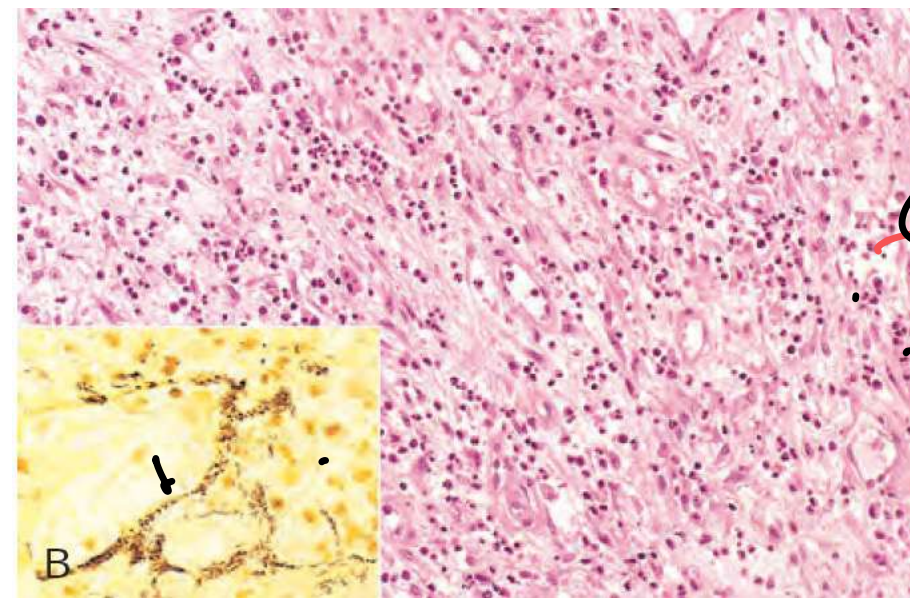
HHV8

*H. pylori*  
*T. whipplei*

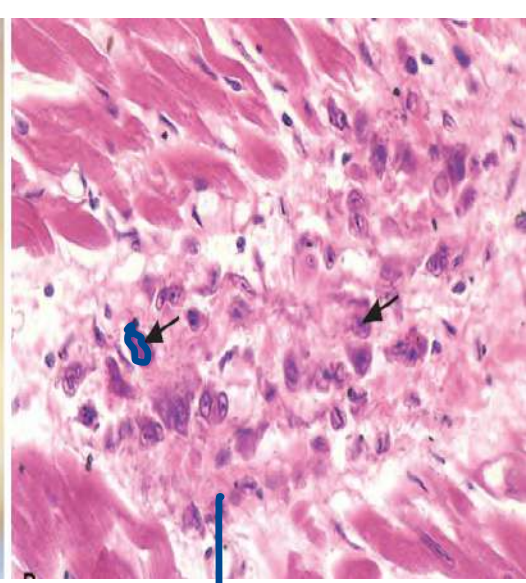
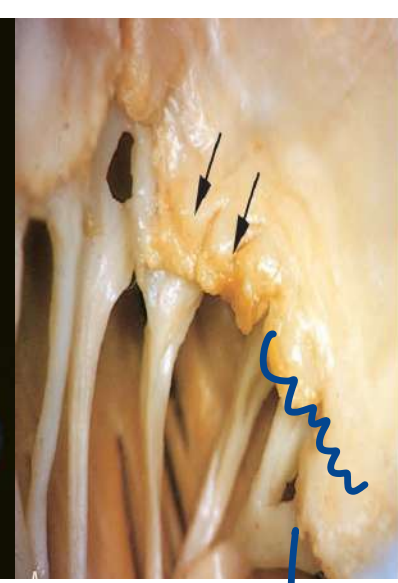
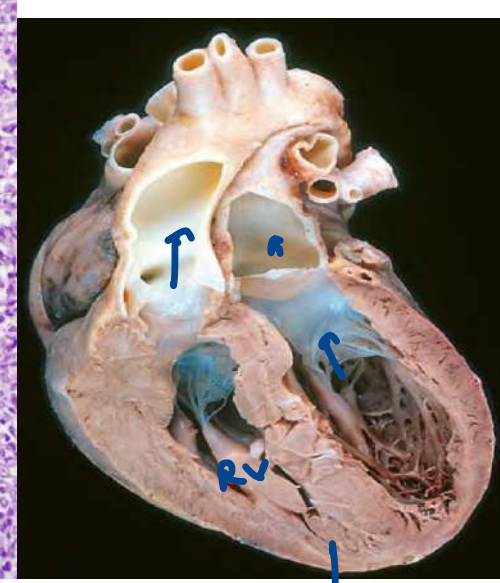
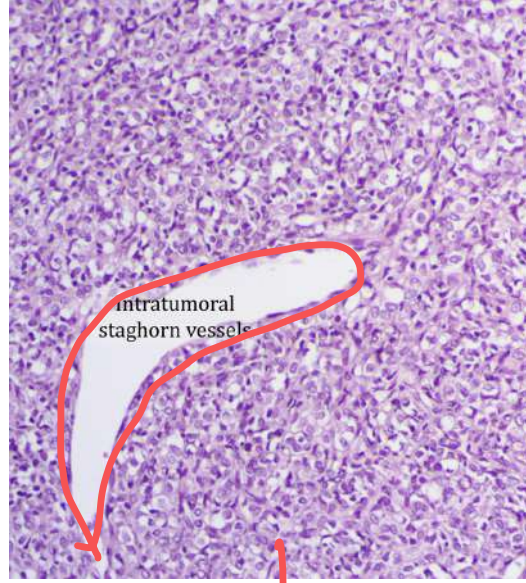
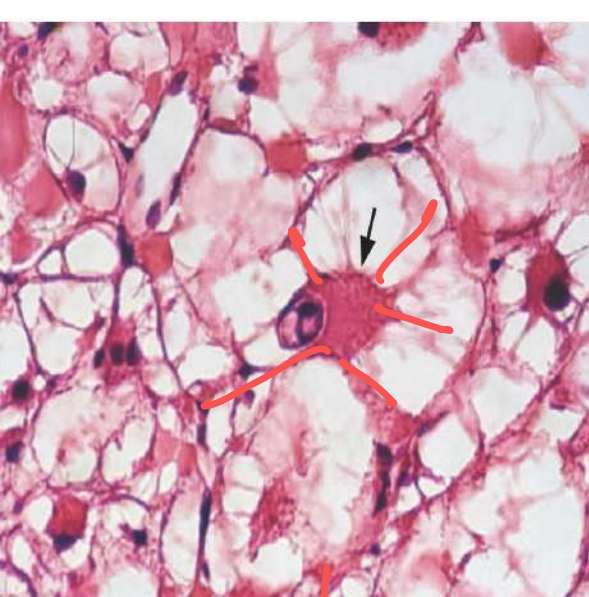
Warthin - Stoney - B. henselae  
Quarantine  
Bacillary angiomatosis



Telegram: @brainandscalpel  
t.me/brainandscalpel



B



Spider cells

Rhabdomyoma

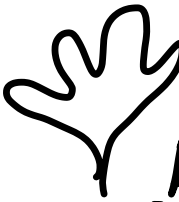
TSC mc child

mc adult: Myxoma → Lepidic cell

↑  
Corney complex - looking

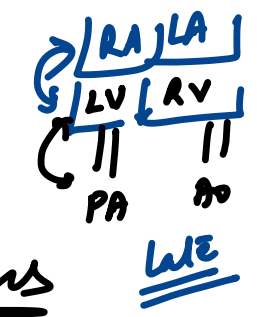
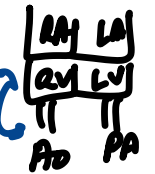
Staghorn  
bv  
Hemangiopericytoma

plt: ET  
calculi:



proteus

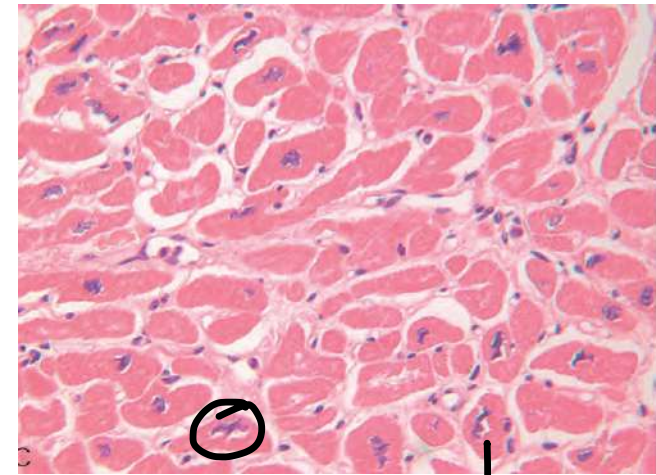
d- TGA  
(L-TGA = corrected)



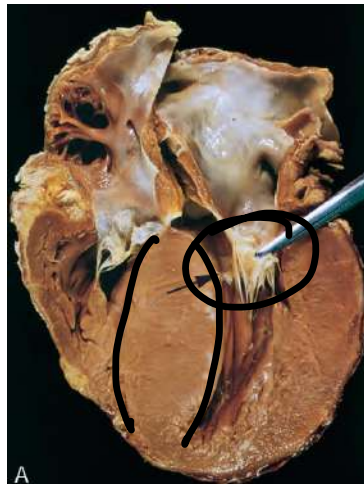
RHD

Archoff bodies  
Catepillar  
Anitzschow cells

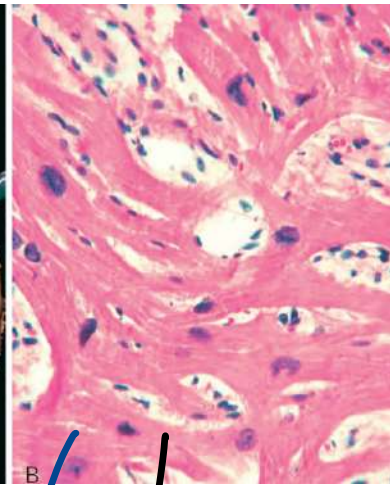
all / mc: Myocarditis



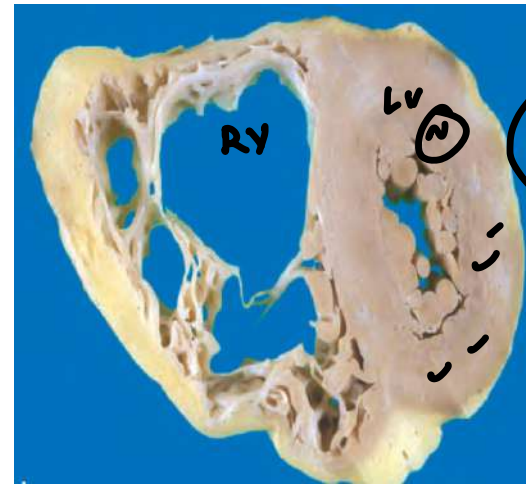
alcoholic  
 Ninja star nucleus  
 DCM me: titin



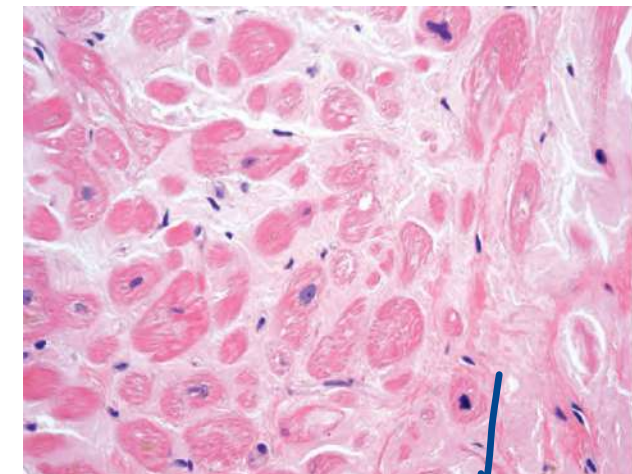
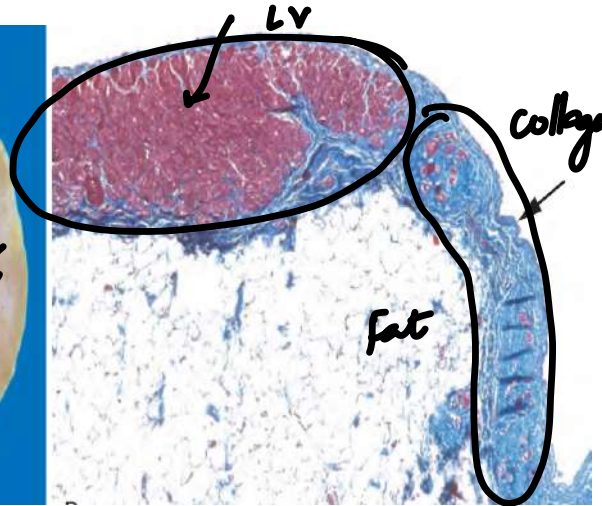
HOCM  
 me: MHC  
myosin  
 me of death: Arrhythmias



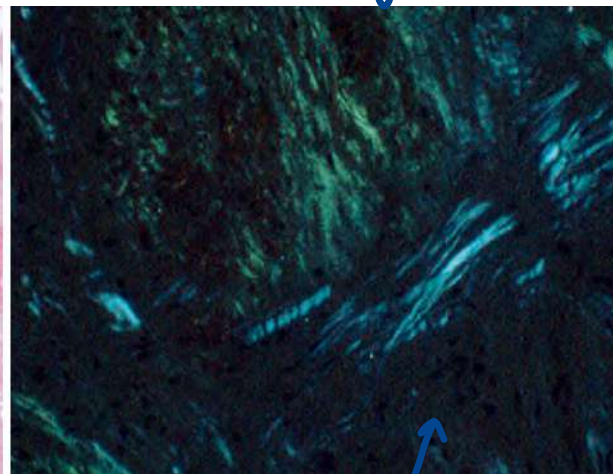
↓  
 myofibrillar  
 disarray



ARVD → ECG: Epsilon wave  
 S<sub>x</sub>: Naxos S  
 Gene: Plakoglobin  
 // woolly hair  
 keratoderma



pinkish  
amyloid

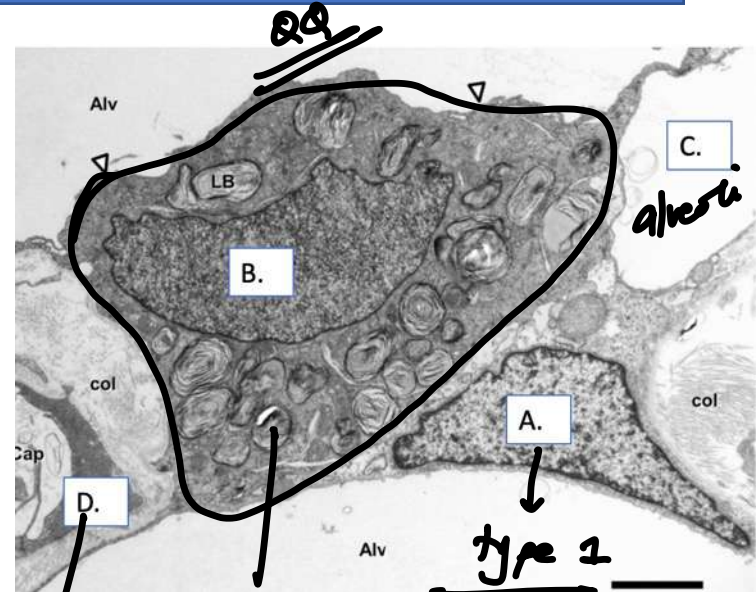
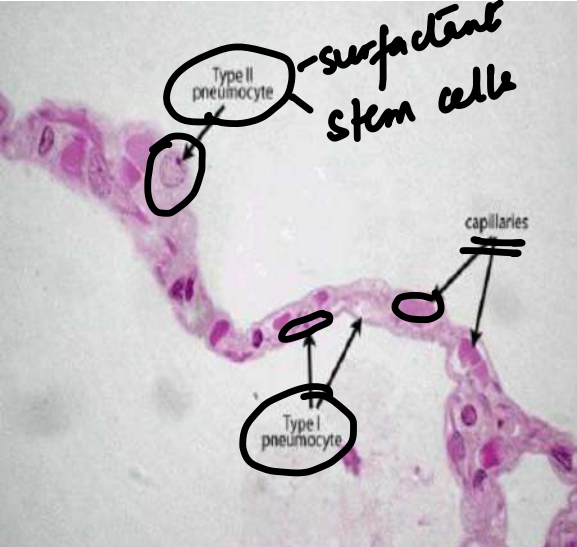


Salmon pink  
Congo red - PM : appk green

amyloidosis  
ACM

# RESPIRATORY SYSTEM

Naxos Sr / 1994



nasal-terminal bronchiole

terminal  
ciliated + columnar

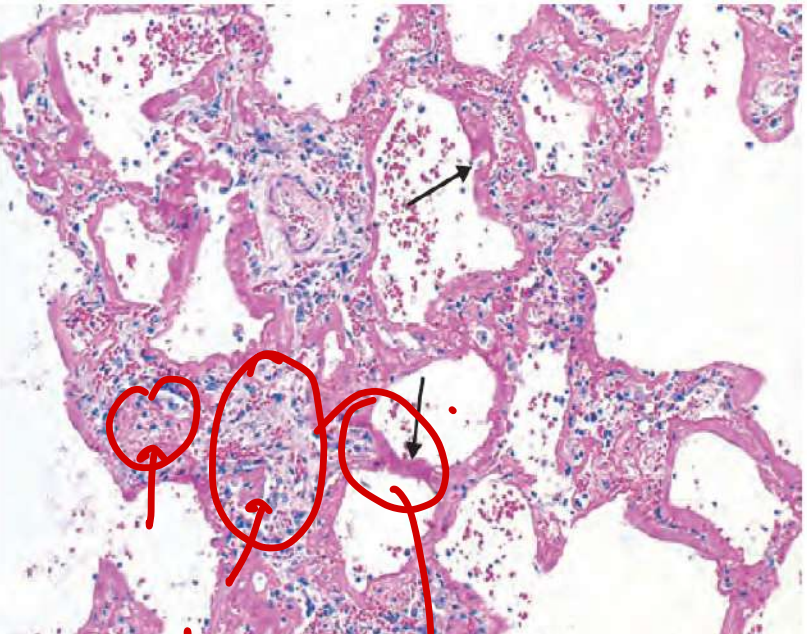
squamous alveoli

endothelium LB - type 2

ciliated  
pseudostratified  
columnar

exc - vocal cords  
epiglottis - vocal

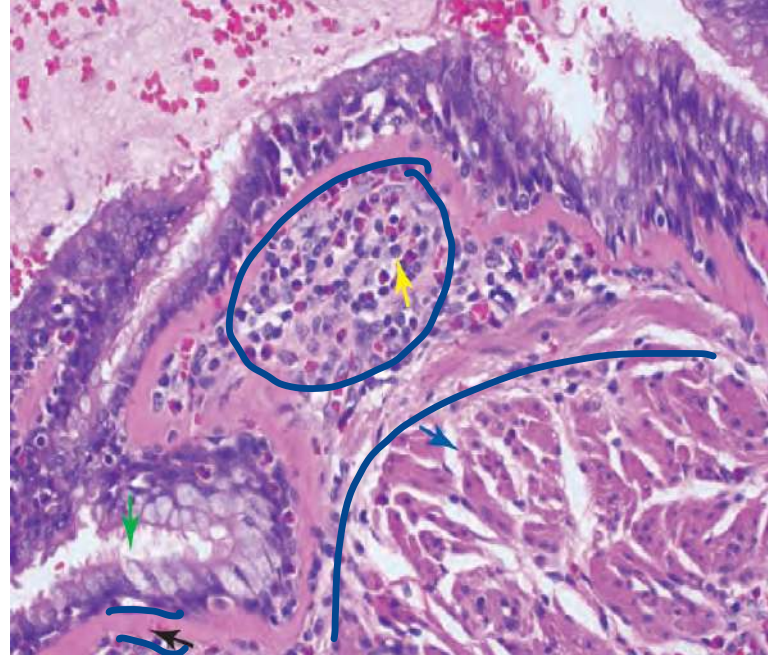
NK strat squamous



prelim  
ARDS

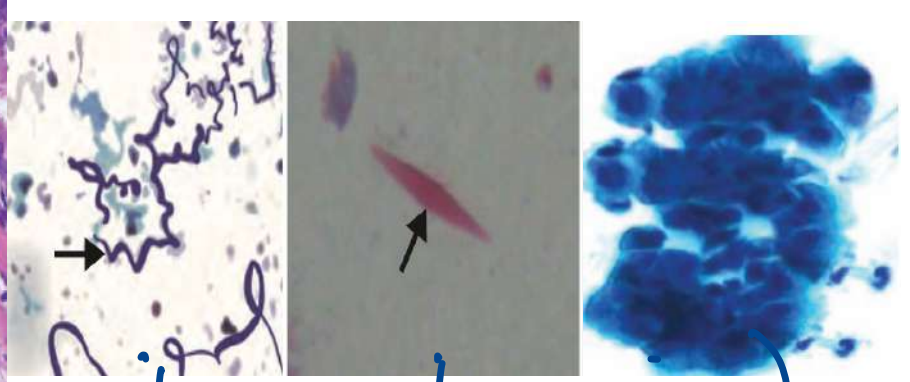
HMD  
Hyaline memb:  
fibrin + denudat  
epith + WBCs

DAD



GREEN: Goblet cell hyperplasia  
BLACK: Sub-BM fibrosis  
YELLOW: eosinophilic infiltrate  
BLUE: muscle hypertrophy

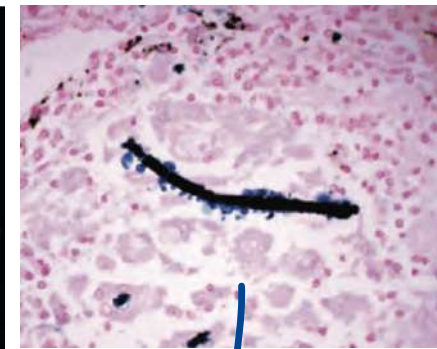
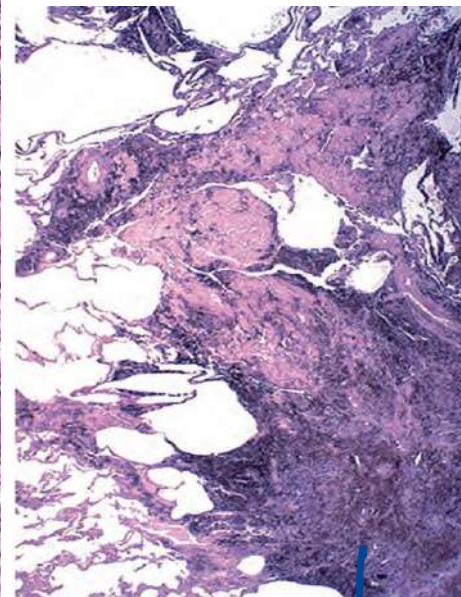
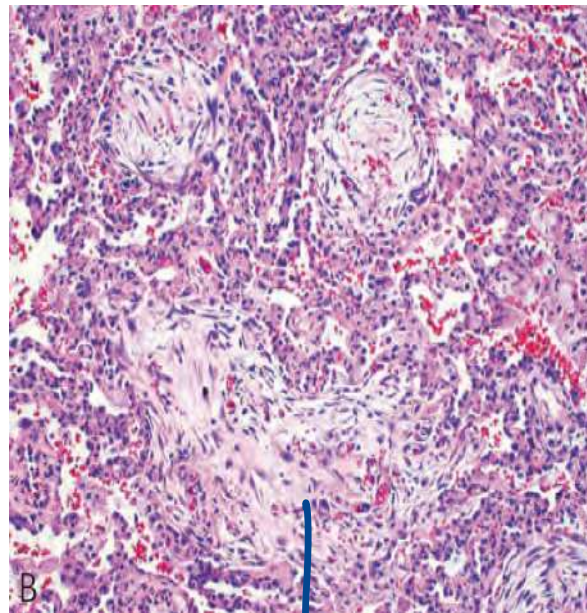
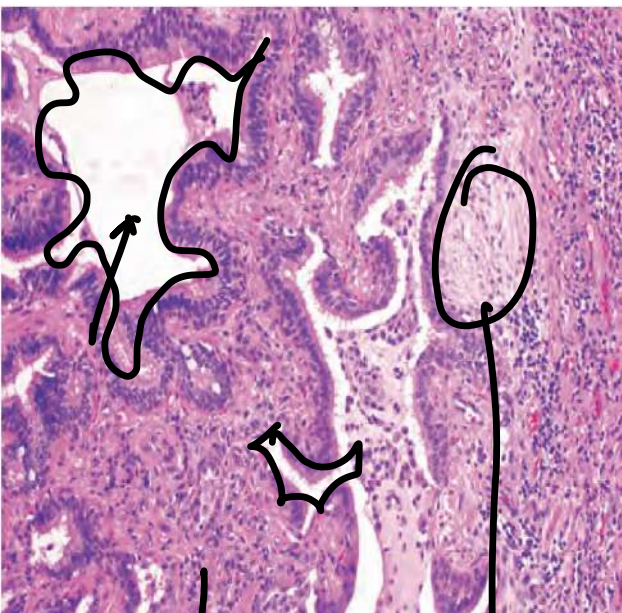
Asthma



Cruschman spirals  
|  
mucous plugs

C-L crystals  
|  
galectin -10

Creola bodies  
|  
ciliated Column epithelium



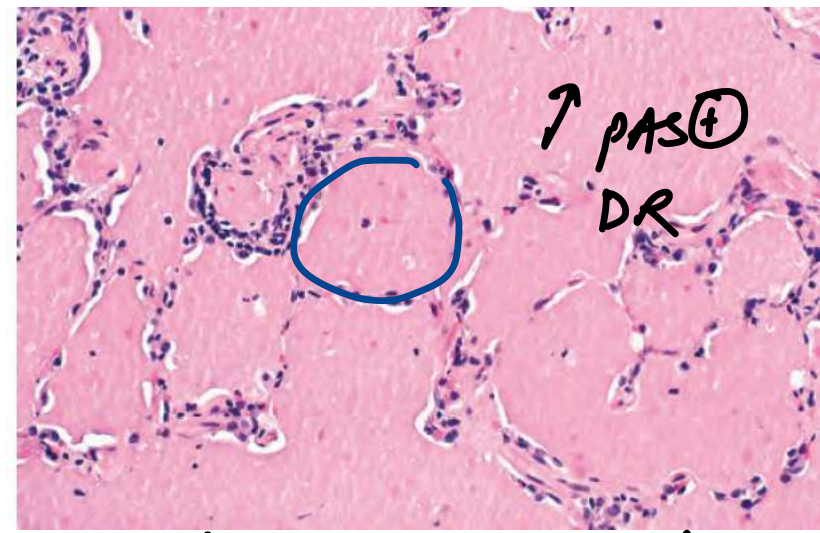
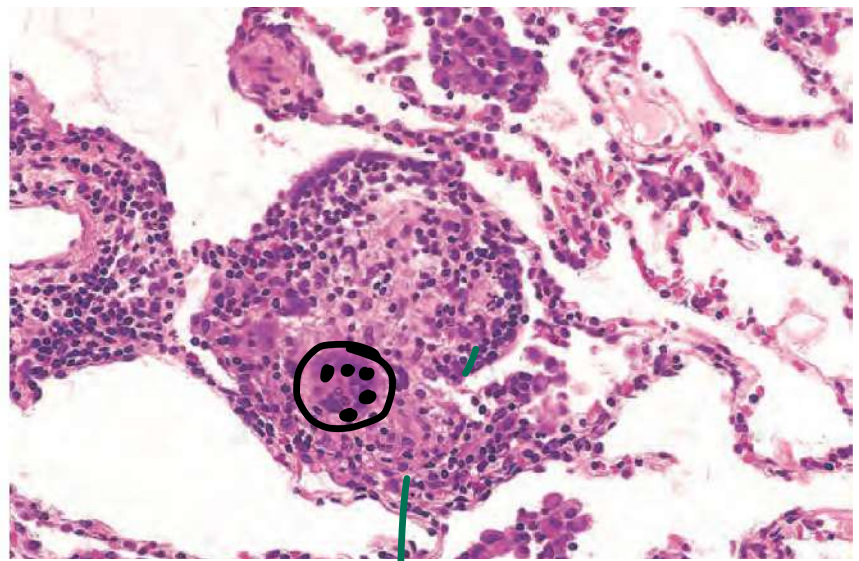
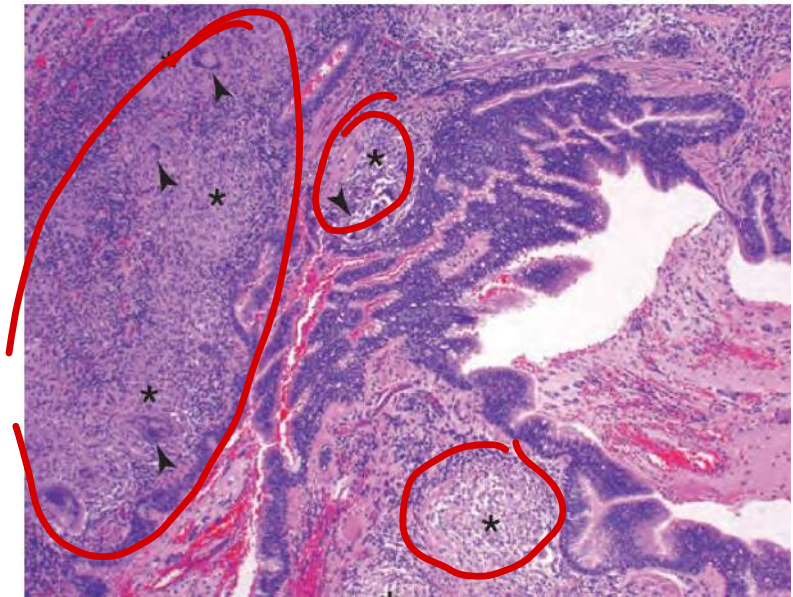
Honeycombing  
VIP / IPF  
 CTD / Drugs / RT / idiop  
 Pirfenidone - TyFB  
 Nintendanib - PDGF

Masson bodies  
COP = OP

Anthracois  
 LWP

Silicosis  
 ↓  
 progressive massive fibrosis (PMF)

Drumbell bodies  
Asbestosis  
 ↓  
Pericarditis  
.COM  
 NF



NC granulomas: sarcoidosis  
naked

farmer - cough, dyspnea

HSP

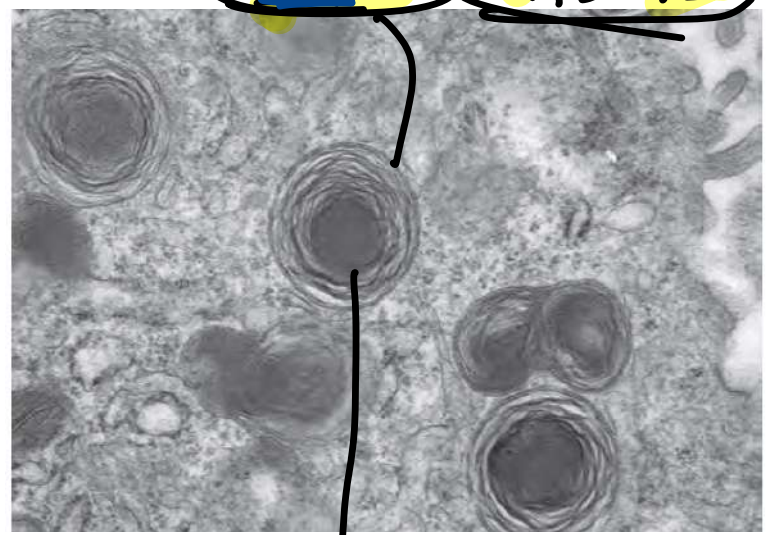
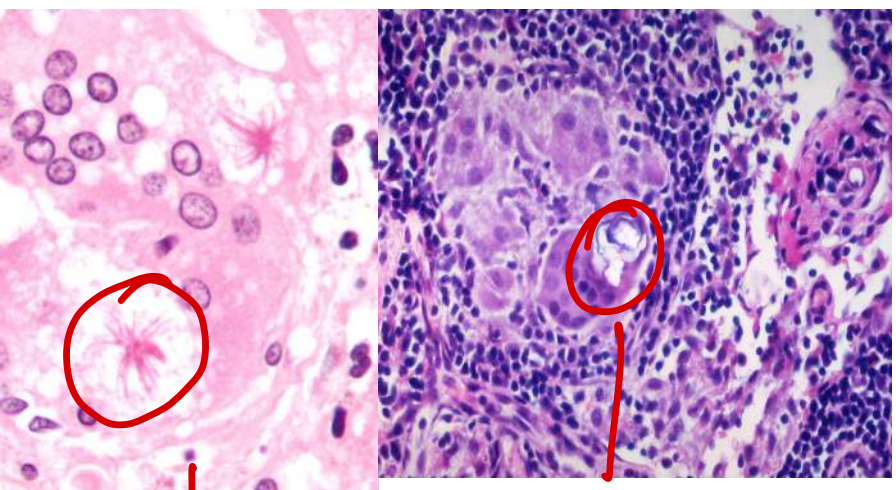
granulomas +  
WBCs

type 4/3 > 1

neonate + h/o sibling death  
 RD

PAP

ABCA3



diastase sn → glycogen

type 2: dense core

Telegram: @brainandscalpel  
 t.me/brainandscalpel

Ateloid

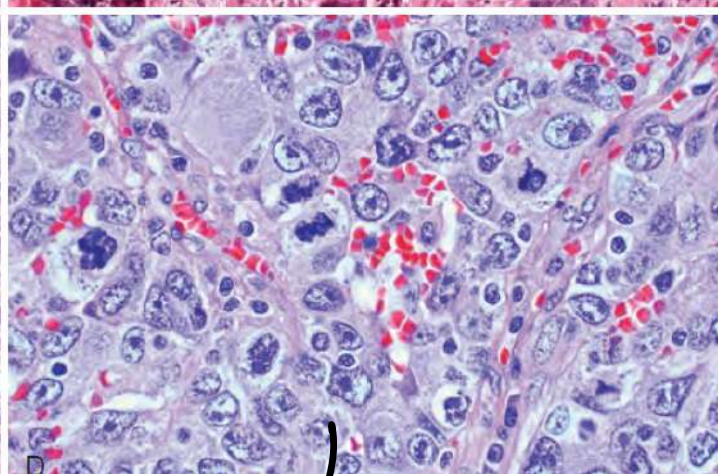
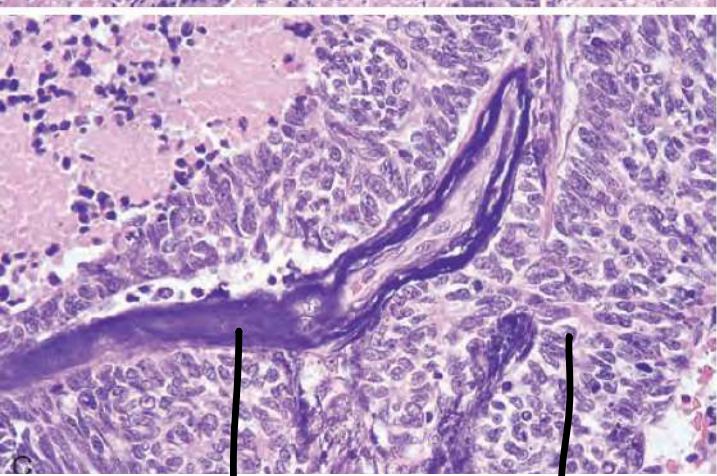
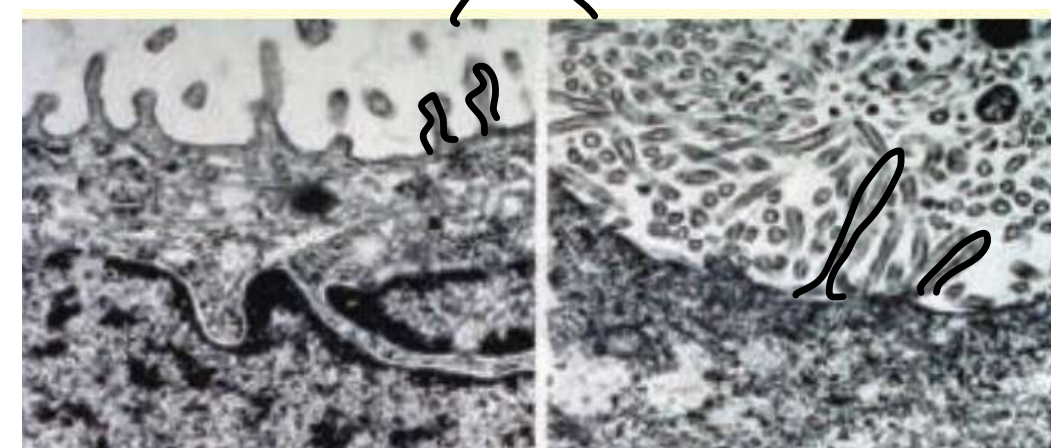
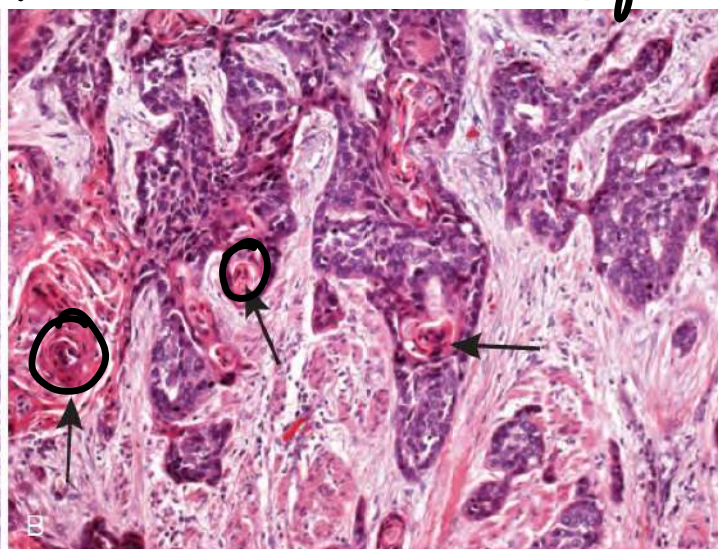
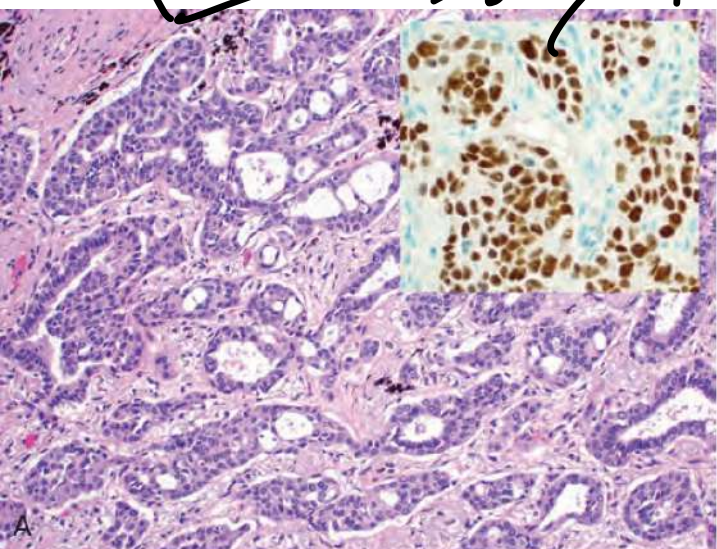
Schaumann  
 sporadic

lepidic mucinous  
adenoca

DAB → TTF1 /  
Napsin A

keratin - sq cc p40/p63

EM



short : adenoca

long slender : mesothelioma  
| 14C  
calretinin ⊕

Aztopandi

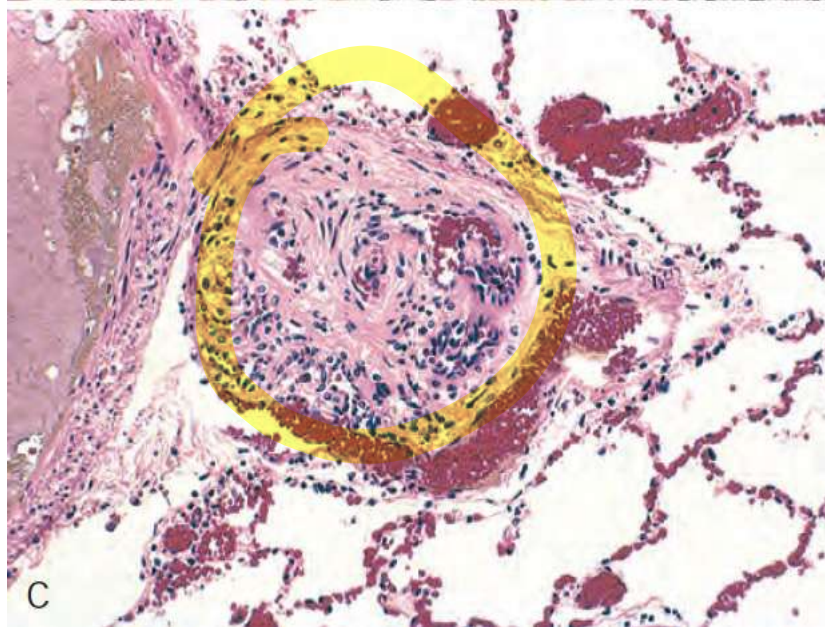
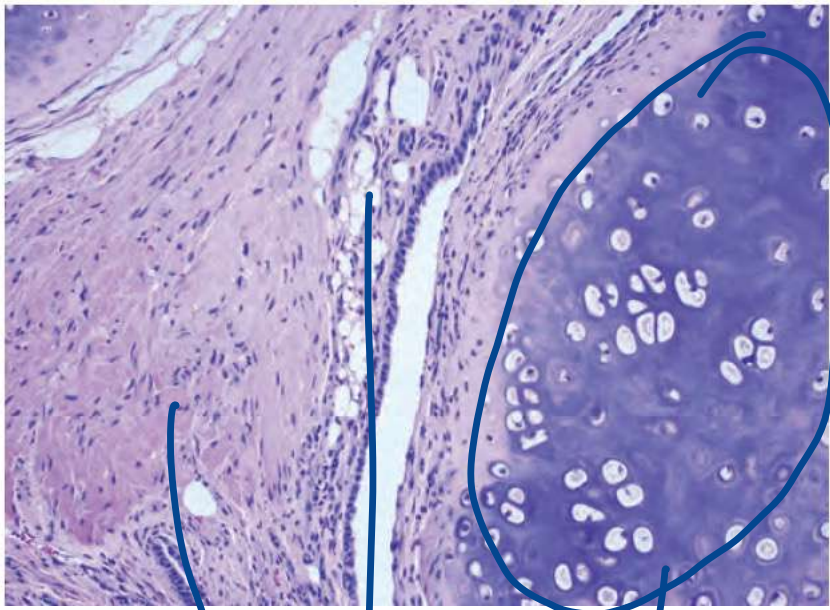
salt & pepper

large cell car

small cell

NSE / synaptophysin / chromogranin

small cell (carcinoid)  
pheo / NET



fat  
Stroma  
Cartilage

Hamartoma

PA

Plexiform  
arterioopathy

PAM

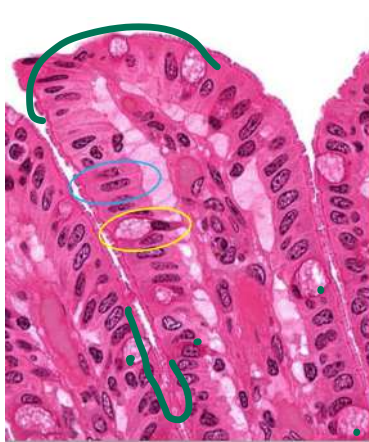
mc: BMP2  
1° PAM

# GI SYSTEM



surface mucous

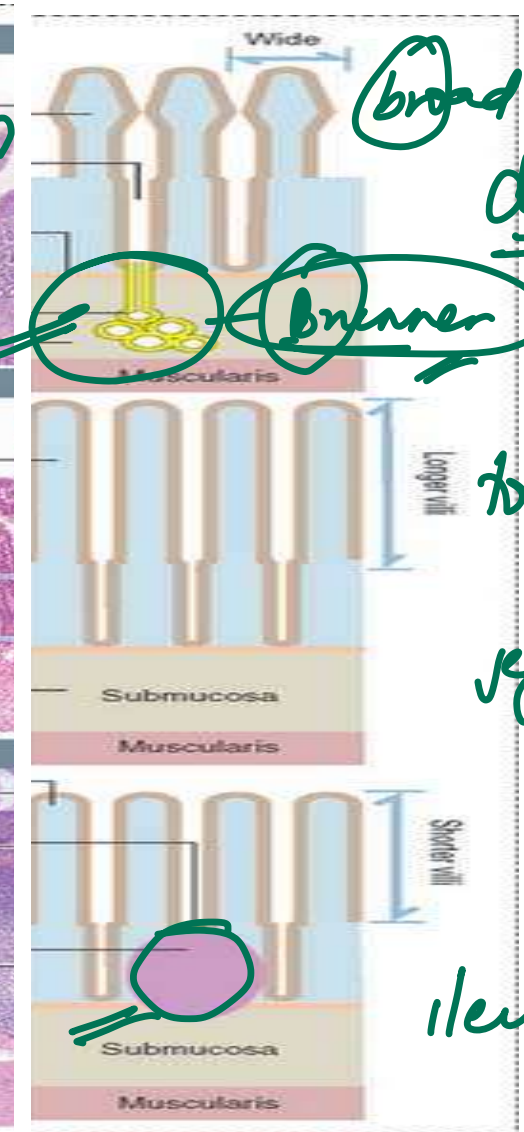
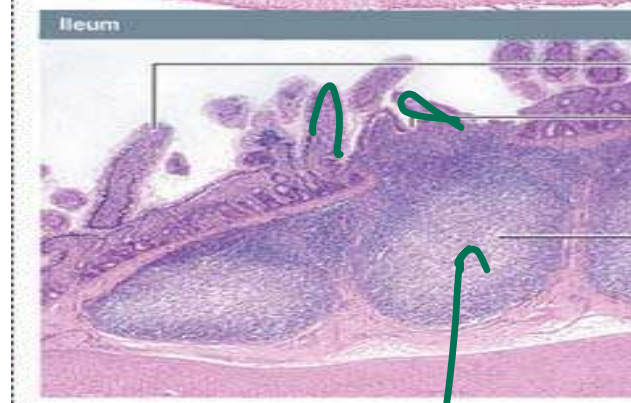
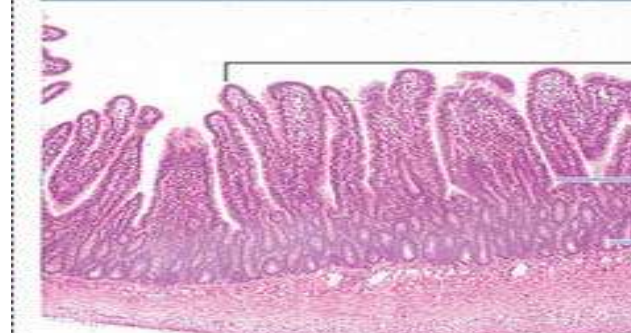
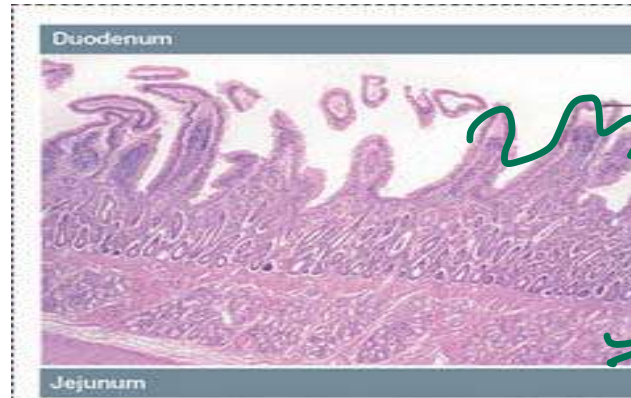
stomach



SI



↑↑ goblet  
LI



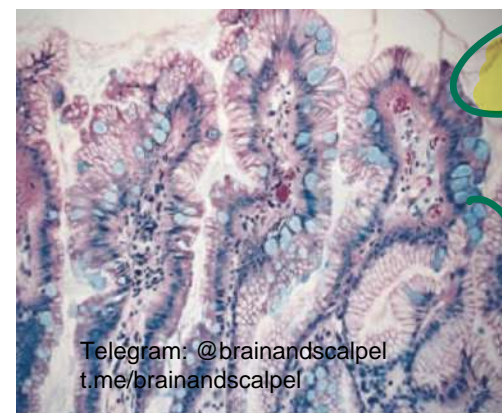
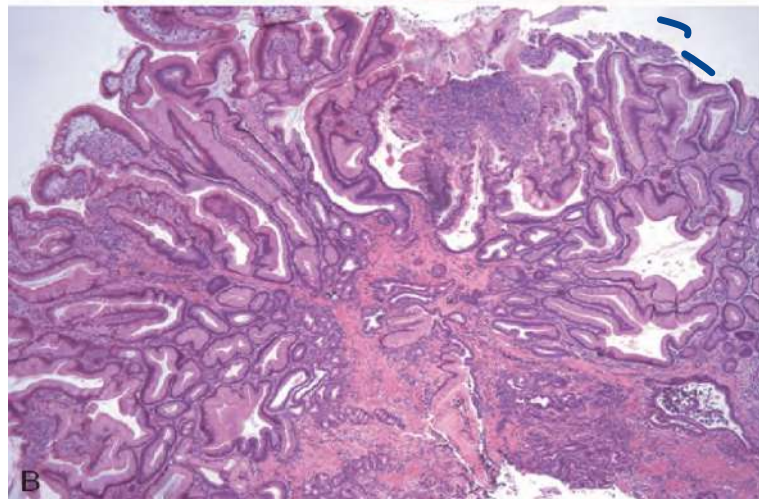
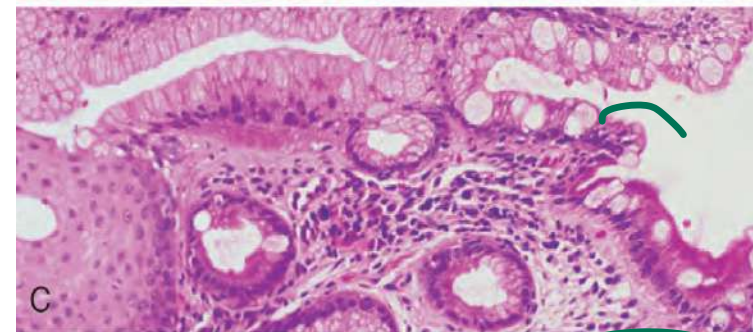
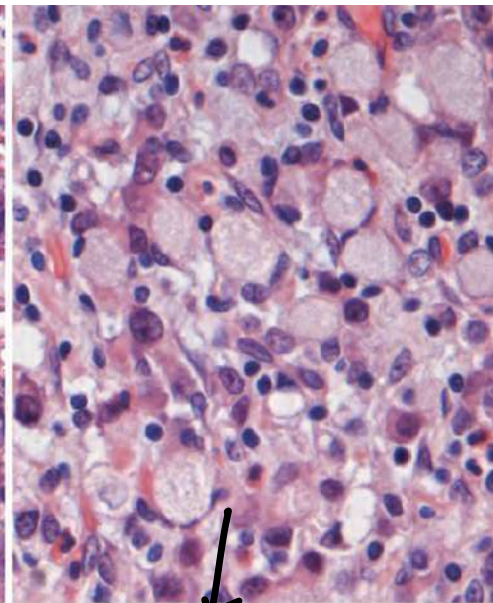
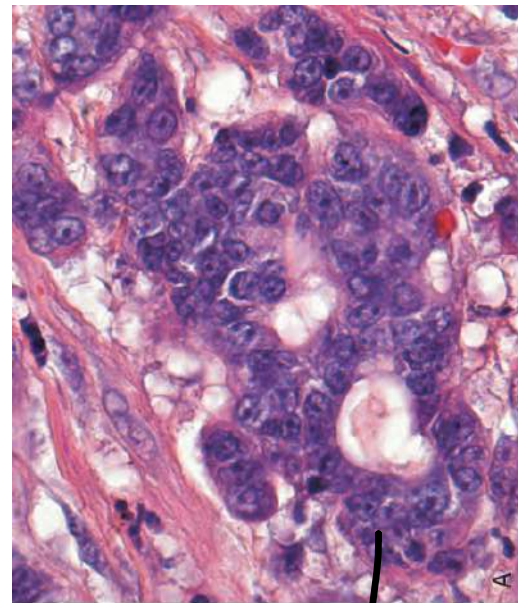
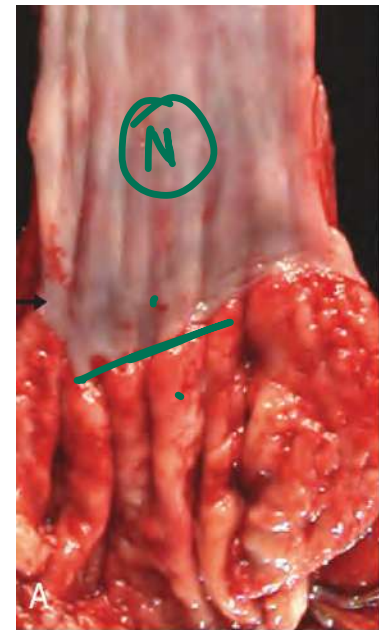
broader  
duod  
Brunner BER

longer  
jejunum

ileum

peyer's LP

	Duodenum	Jejunum	Ileum
Epithelium	Columnar Striated border Few goblet cells	Columnar Striated border goblet cells+	Columnar goblet cells++
Villi	Broad Spatula Shaped Closely packed	Tongue-shaped Different heights	Few thin finger-shaped
Lamina Propria	Crypts+ No Peyer's patches	Crypts+ Diffuse infiltration of lymphocytes No Peyer's patches	Crypts+ Peyer's patches extend into submucosa
Submucosa	Mucus secreting Brunner's glands	Only connective tissues and blood vessels	Peyer's patches

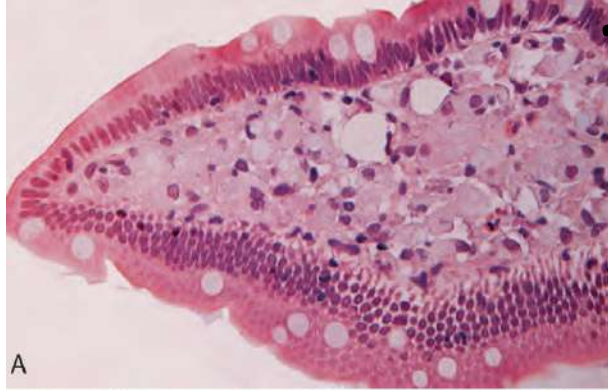
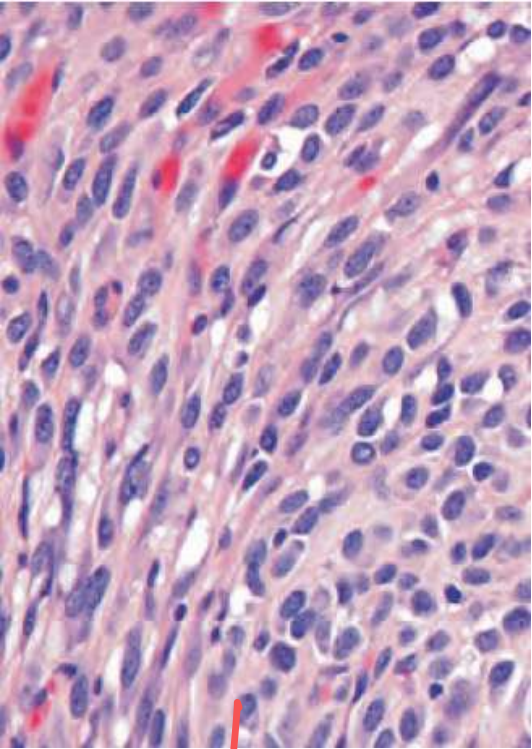


**Barrel's**  
 Intestinal  
 + Goblet cells  
 acidic mucin — Alcian blue

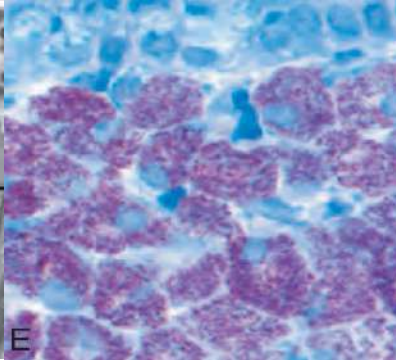
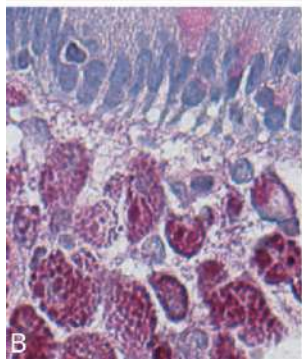
Intestinal  
**Signet-ring**  
**Lauren**  
 Diffuse  
 lympho plasma  
 CDH 1  
 E-cadherin  
 loss of  
**. LCIS**  
 Chief cells → tough

**Meningeal's**  
 T4F d  
**Cerebriform**  
**foveolar cell hyperplasia**

**Sezary Sp**  
**inv papilloma**  
 . pancreatic cell  
 ↓  
 eosinophil  
 . Chief cells → tough



foamy xanthomas



brush border

Giardia

Cryptosporidiosis  
HIV+

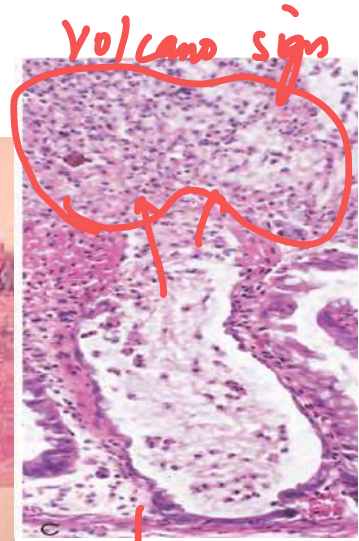
Spindle cells  
GIST  
mc: CKIT = CD117  
CD34  
most sp: DOG1

PAS + DR  
Whipple's  
CAN neurol  
♥ arthralgia

AFB (+)  
TB



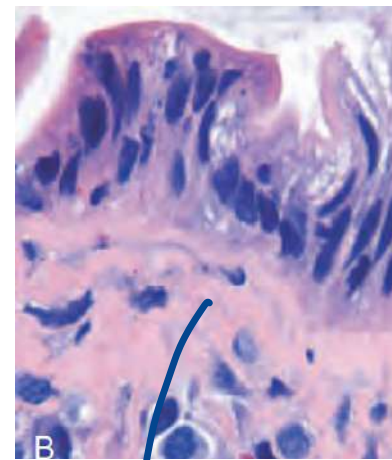
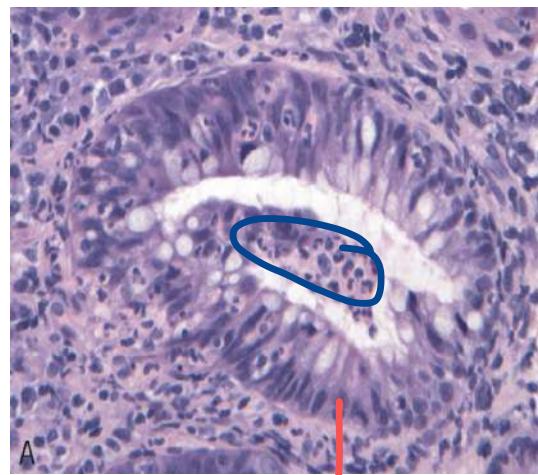
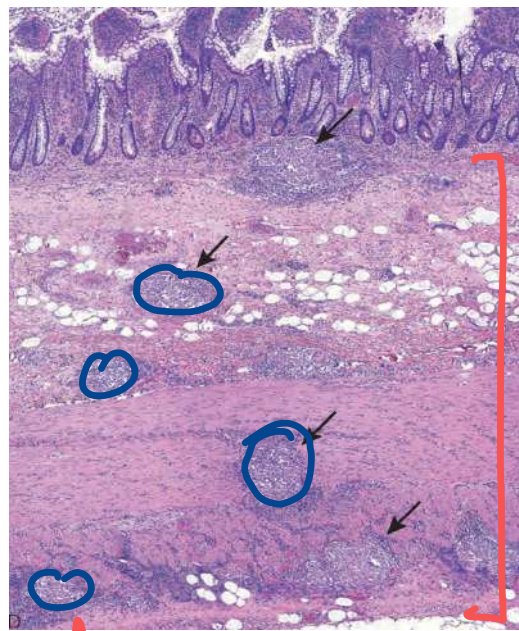
amebic dysenteric



Volcano sign  
h/o antibiotic  
PMC: C. diff

PGFR / SDH  
Paraganglioma  
Hemangioma  
Curey Δ

Telegram: @brainandscalpel  
t.me/brainandscalpel



**Celiac D**

duodenal  
bt

NC granulomas

crypt abscess

microscopic colitis

- villous atrophy
- crypt hyperplasia

DD 2/8

CD

VC

collagenous

lymphocytic

LP - IEL - lymphocyte  
intra-epithelial



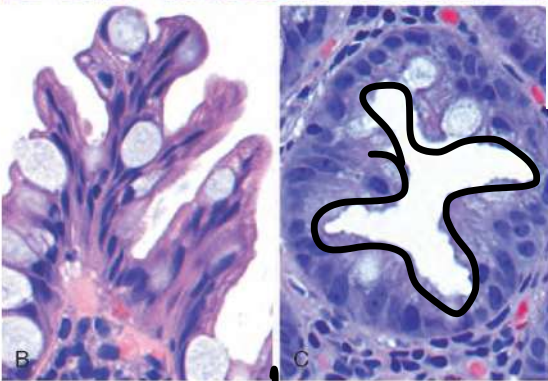
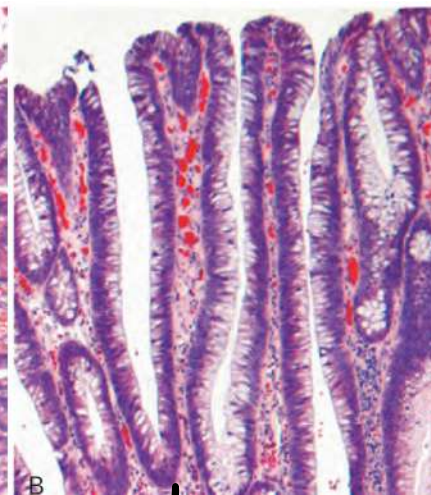
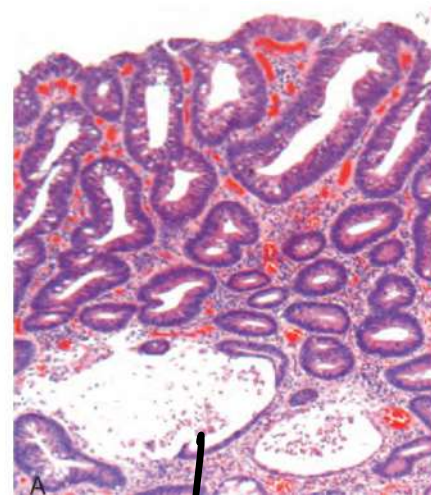
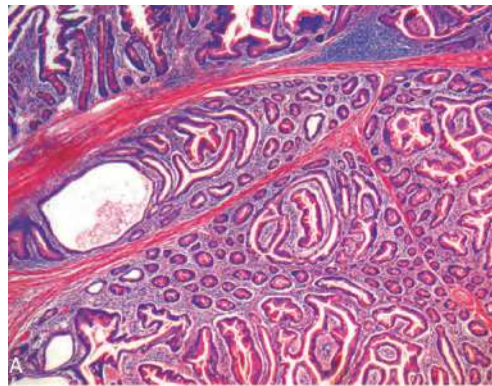
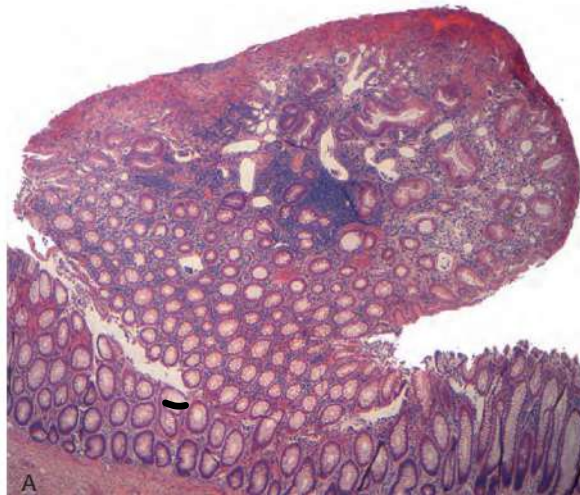
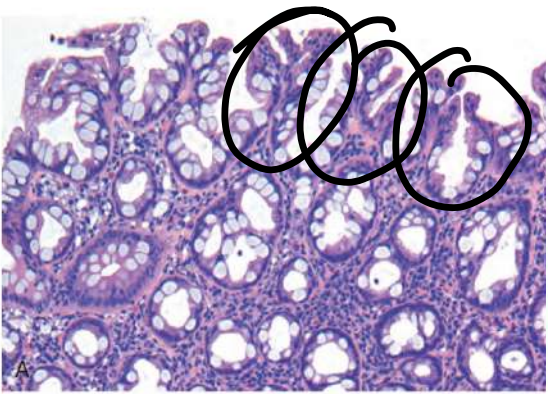
IBD

Marsh staging

BROW

wheat  
rye oat  
Barley = avoided

Anti-TTG



Cystic

↓  
juvenile  
polyps

SMAD4

arborising

↓  
Petz-Jegher's

STK 11

Hamartomas

tubular

villous

Neoplastic



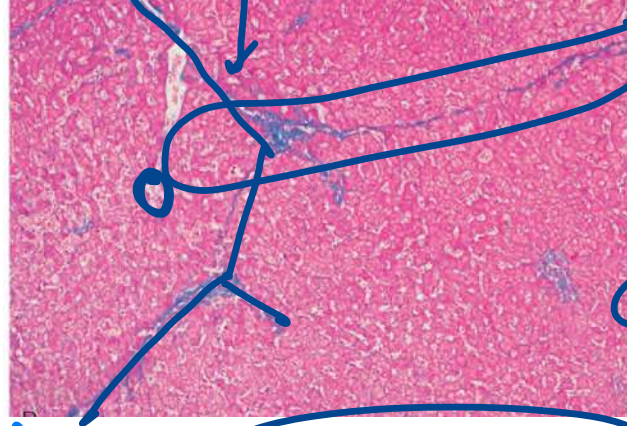
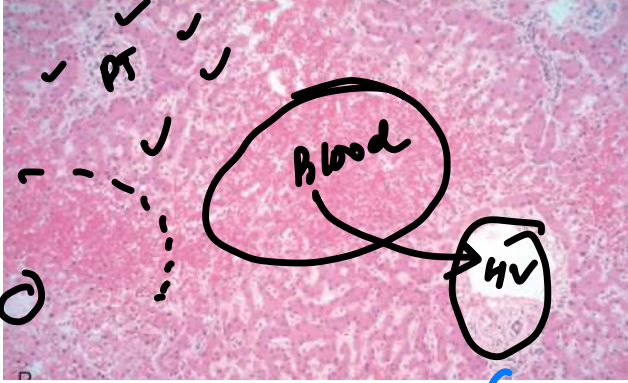
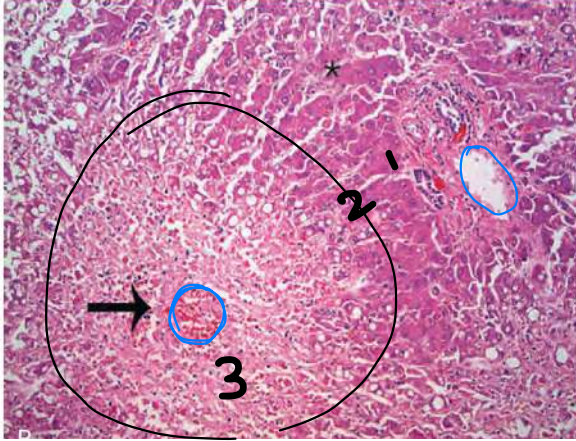
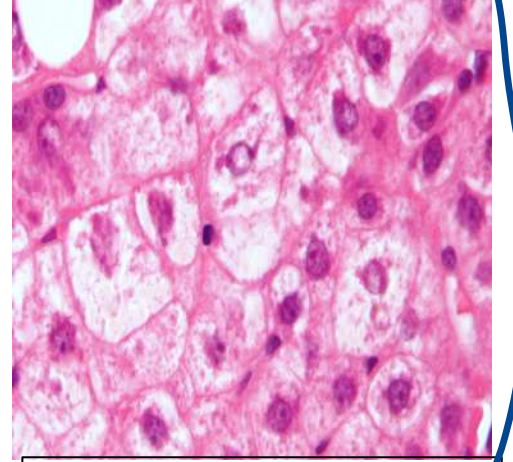
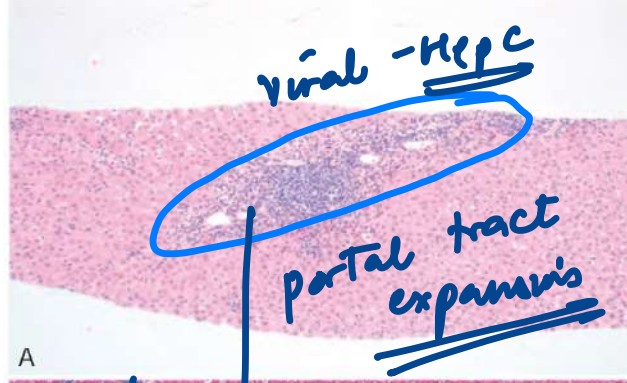
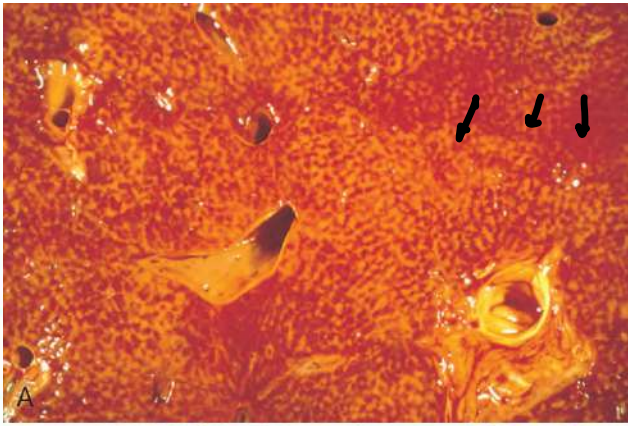
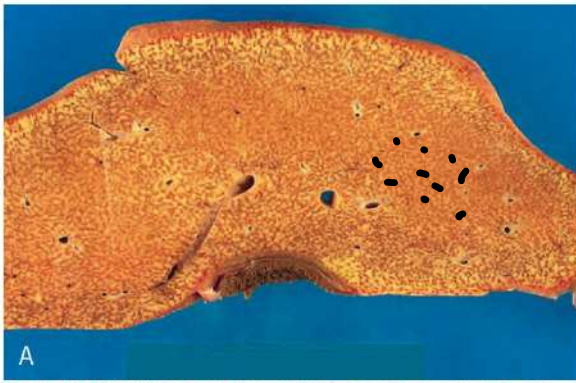
↓  
Hyperplastic  
polyps

serrated

# HBP SYSTEM

AC

LP: Civatte



HCV  
Apoptotic bodies

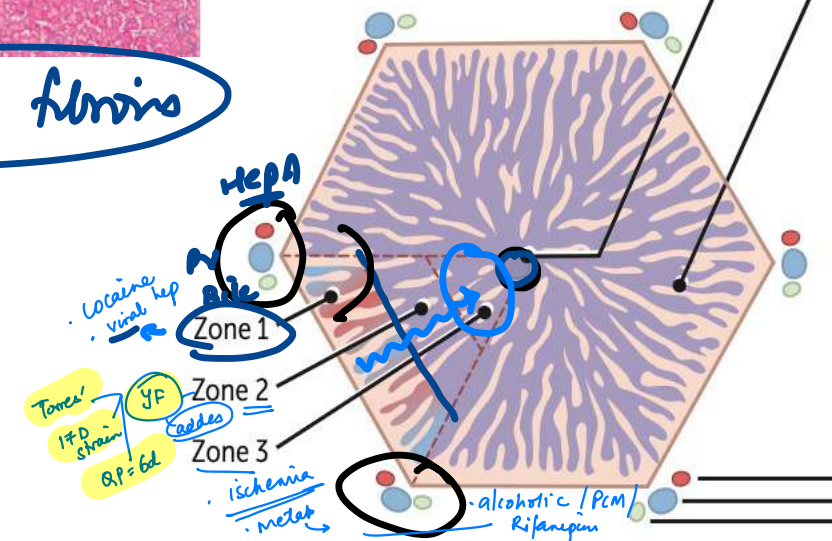
Connexin bodies

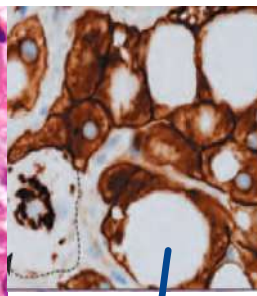
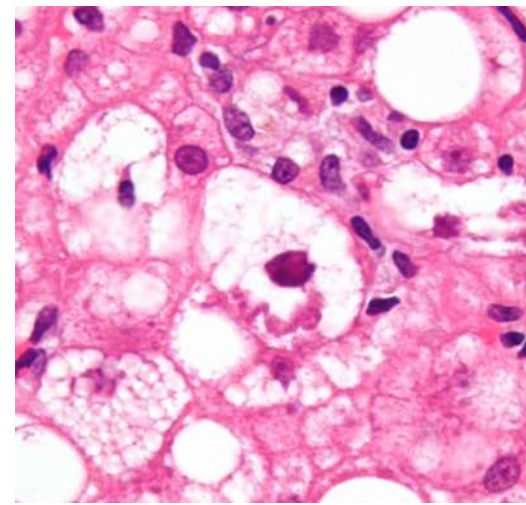
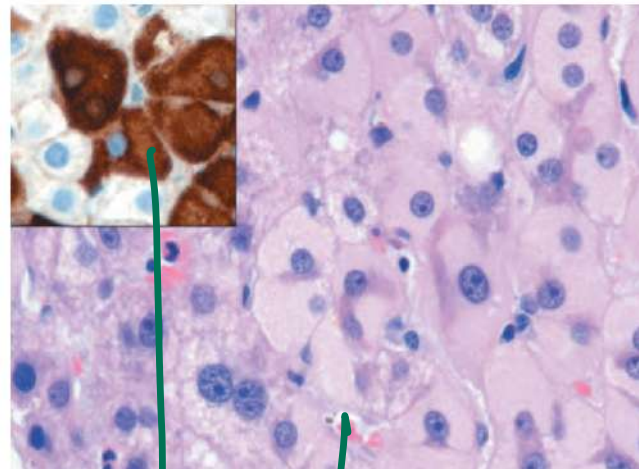
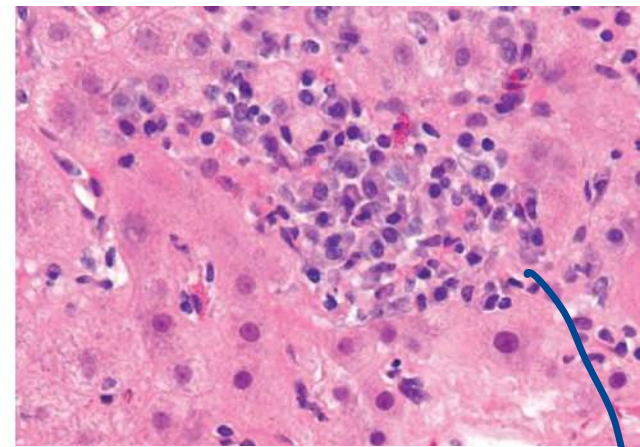
PCM toxicity

Nutmeg liver (RHF)

Centrilobular necrosis (zone 3)

perportal hepatocyte sparing





IHC: CK 8/18 (+)

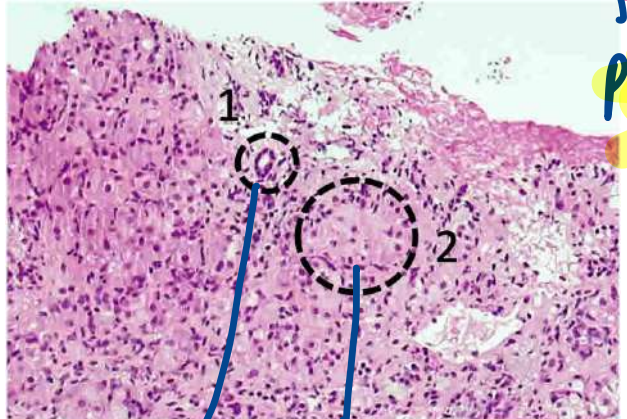
Alcoholic +  
CK 8/18  
Intermediate filaments

plasma cells

Ground glass hepatocyte

HBsAg (+)

Mallory Denko bodies



Interface hepatitis

emperipolesis

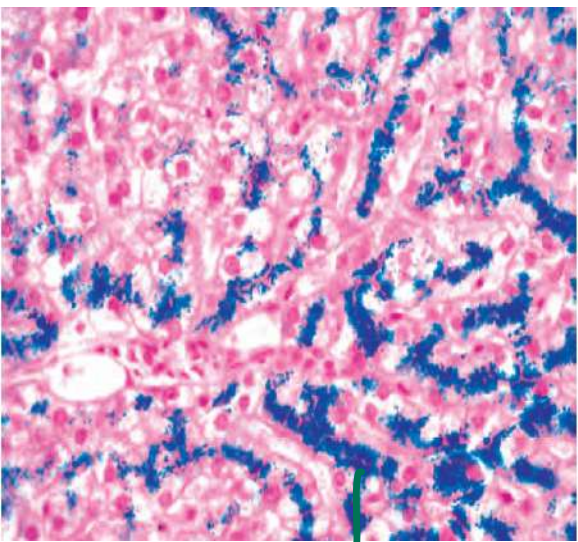
vs entosis  
killed cell

Chr Hep B

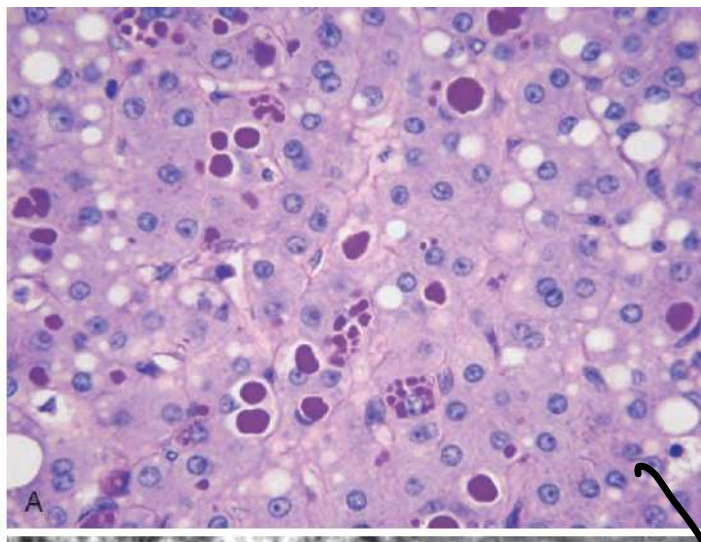
A1H

- MDS
- Rosai-Dorfman
- CLL

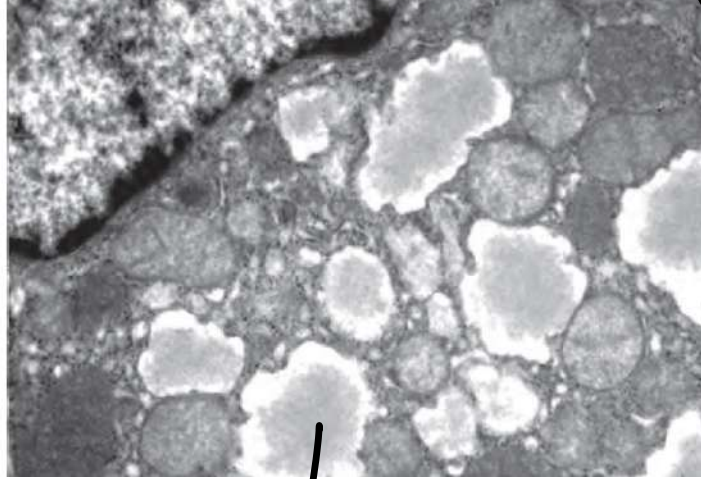
ANA, SMA, SLA: Type 1 A1H  
 LKM, ITC: Type 2 A1H



Prussian blue:  
Hemochromatosis  
HFE (6)



PAS+  
DR

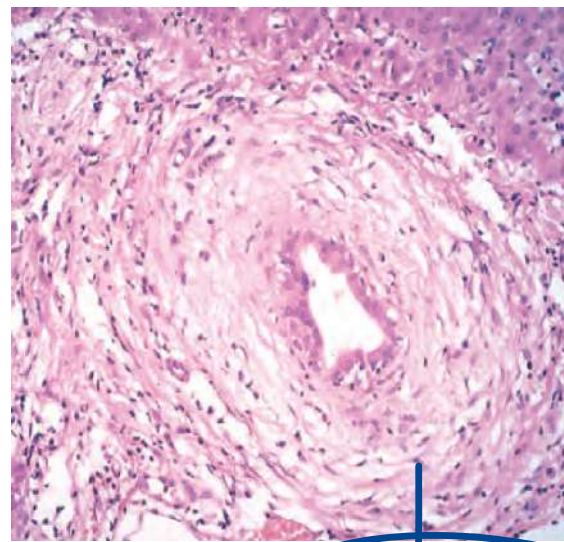


aggregates of misfolded  
protein

α<sub>1</sub>AT

panlobular Emphysema  
cirrhosis

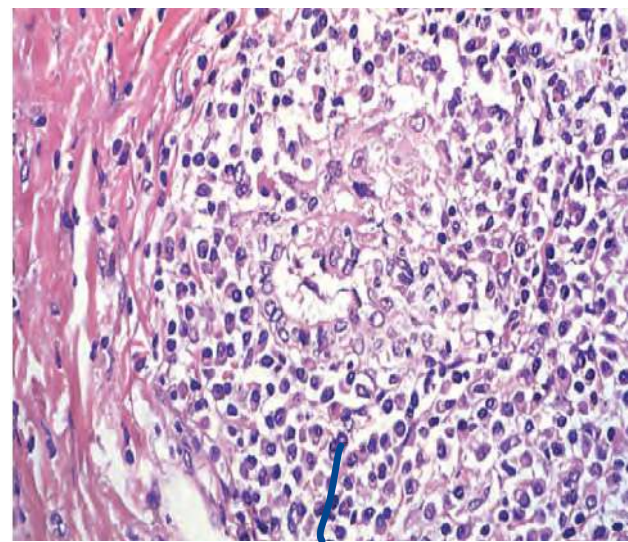
LL



onion skin

PSC

- asc UC
- p-ANCA

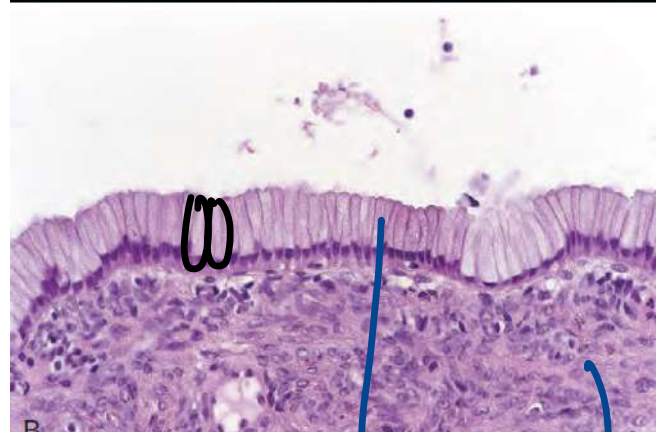
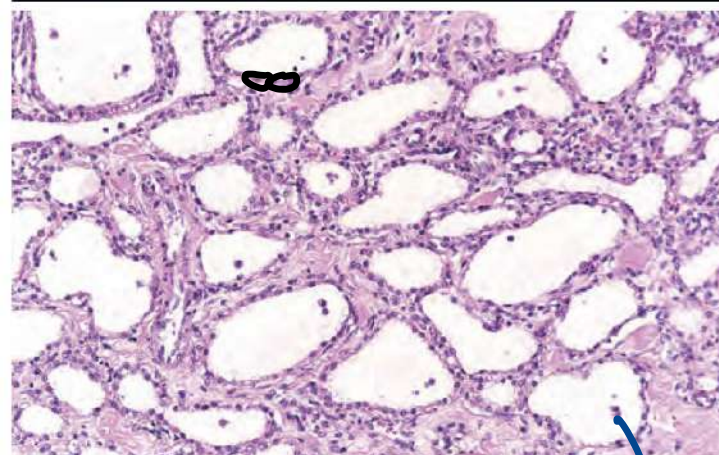
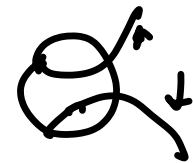
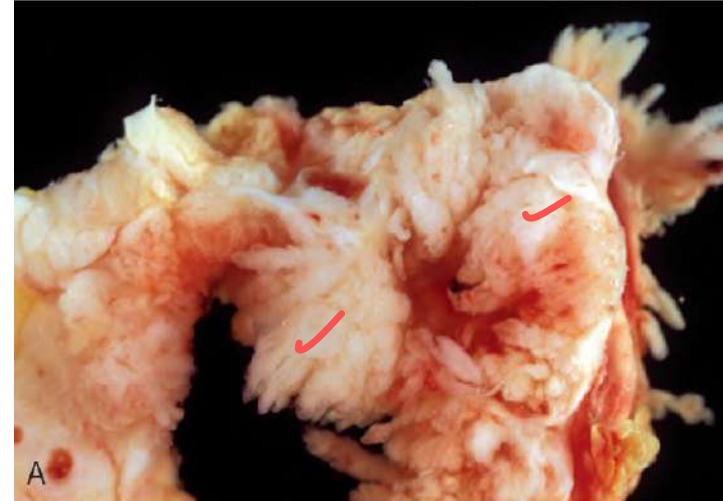
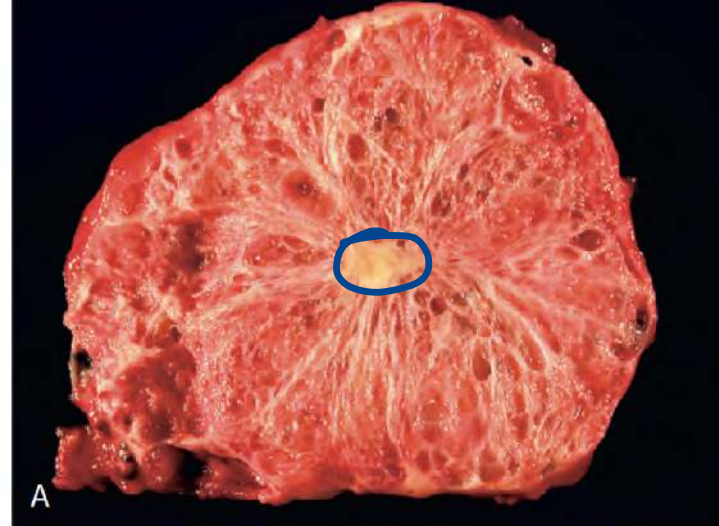


florid lesions

PBC

• anti-mitochondria

AB



grandmother  
cysts

SCA

subradial epith

Columnar

granular  
stroma

mother

MCA

CEA ↑  
amylase (N)

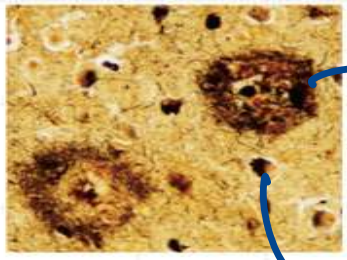
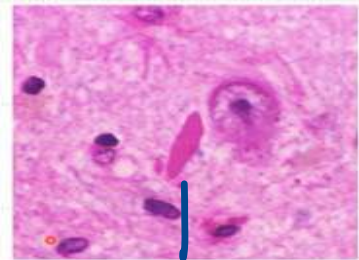
IPMN

CEA ↑  
amylase ↑

# NEUROLOGY

AD

~~NFT~~  
Flame cell  
Tau

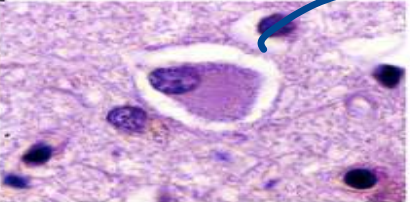


Neuritic plaques  
 $\alpha B$

Bielschowsky stain

Actin - Hirano bodies

FTD

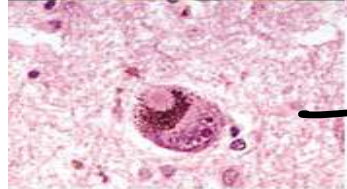


Pick bodies

tau

TDP-43

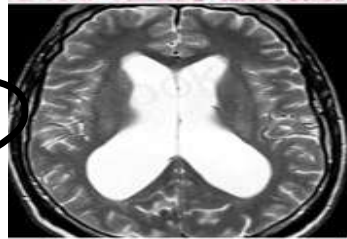
LBD



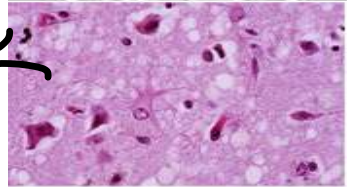
Lewy bodies

$\alpha$ -synuclein

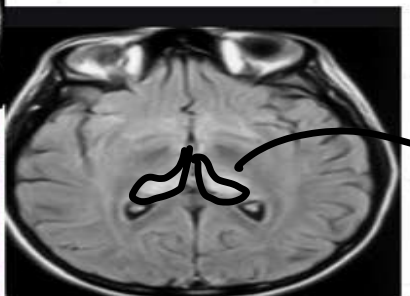
NPH



Prion  
spongiform



vCJD



Pulvinar sign

Hockey stick

ADULT

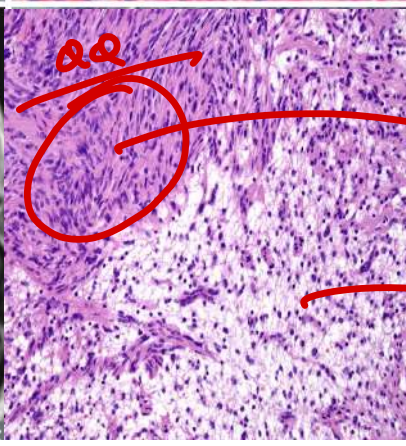
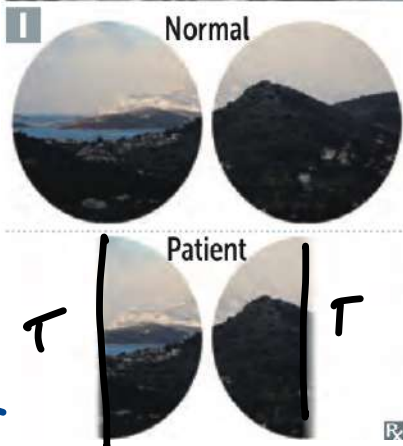
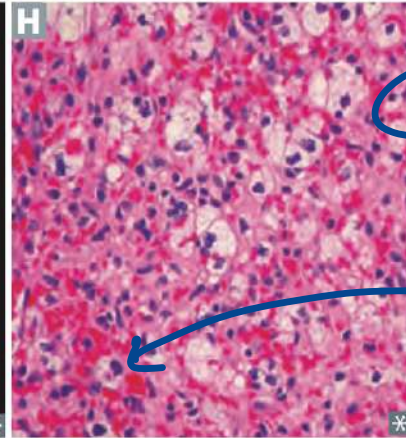
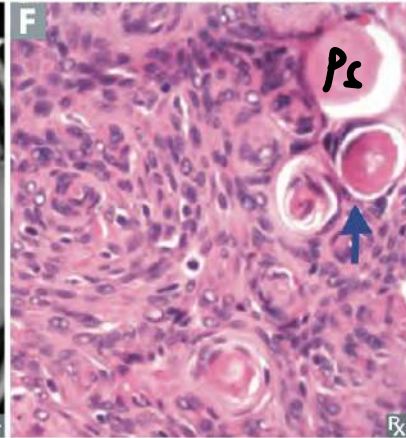
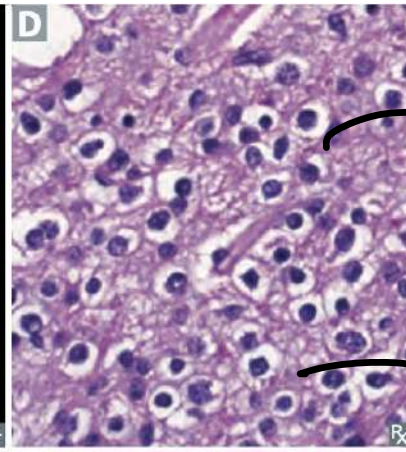
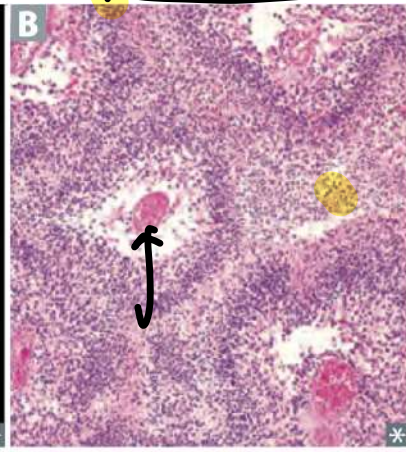
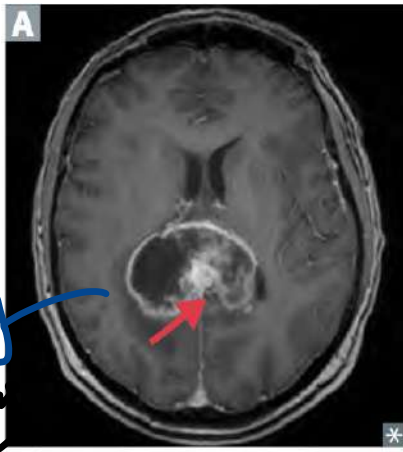
GBM

pseudopalisades  
serpentine necrosis

psammoma  
Meningeal

PR Loma  
papillary Ca  
myoid  
serous cyst  
ovary  
mesothelioma

Telegram: @brainandscalpel  
t.me/brainandscalpel



1p/19q  
fried egg  
Party

ODG  
chicken wire capillaries

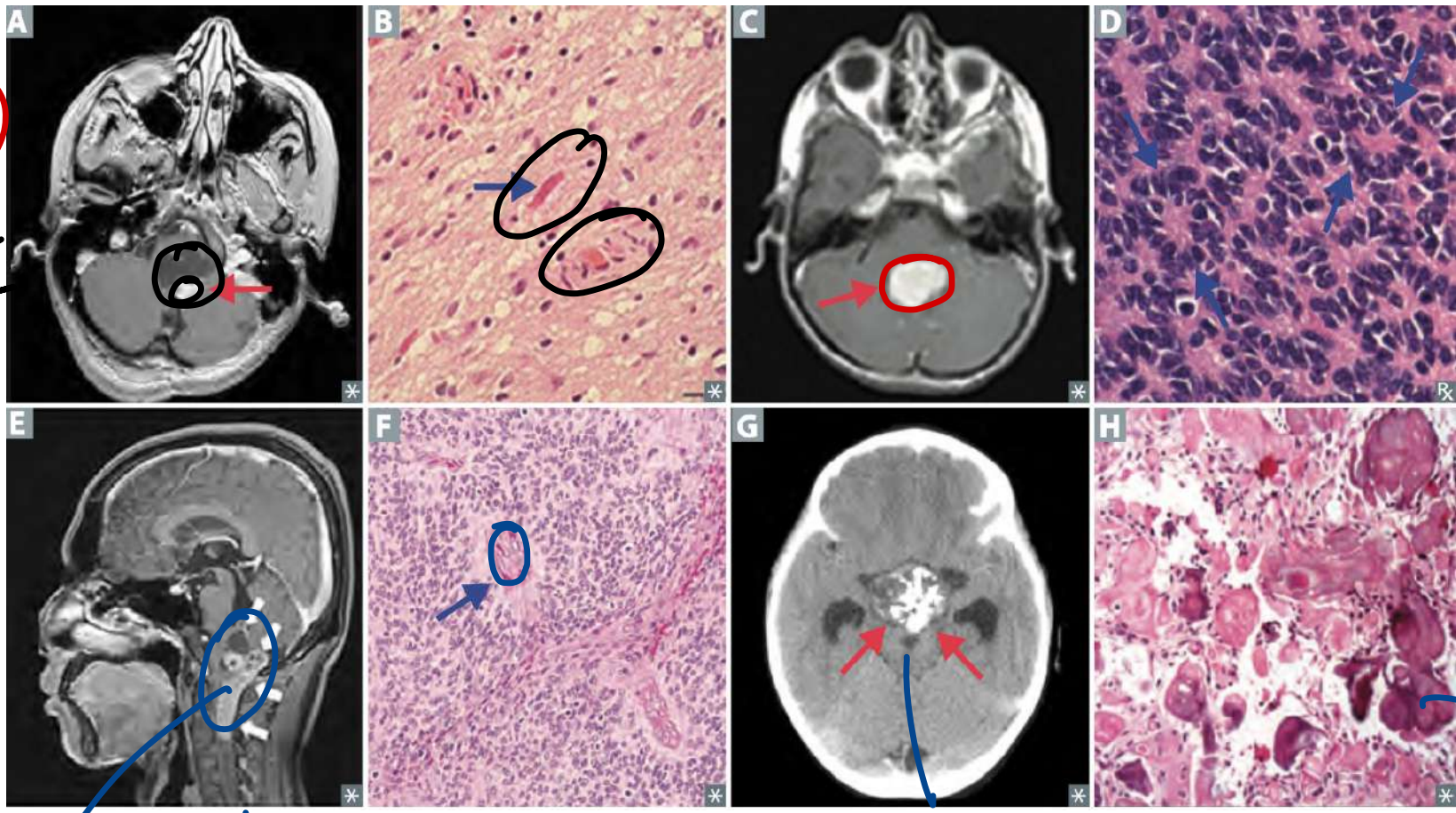
Cysts + mural H  
Hemangioblastoma

VHL - 3p

vest schwanna  
Antoni A  
VB Verocay  
Antoni B  
acellular

CHILDREN

😊  
Pilocytic astrocytoma  
 Rosenthal F



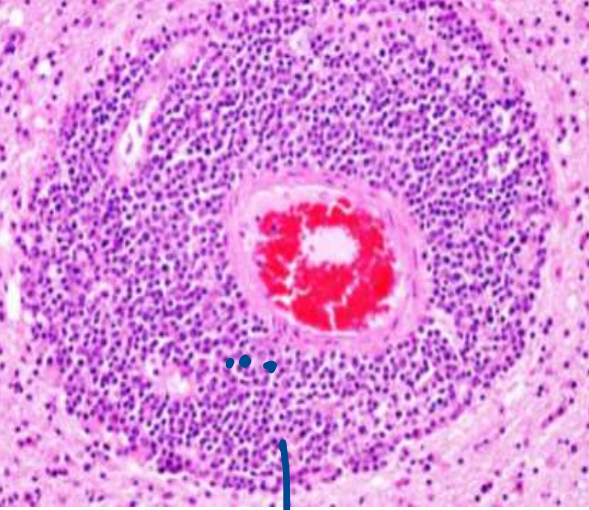
☹️  
 roof  
 ym  
MB  
HW  
 pseudo R.  
 Homer Wright



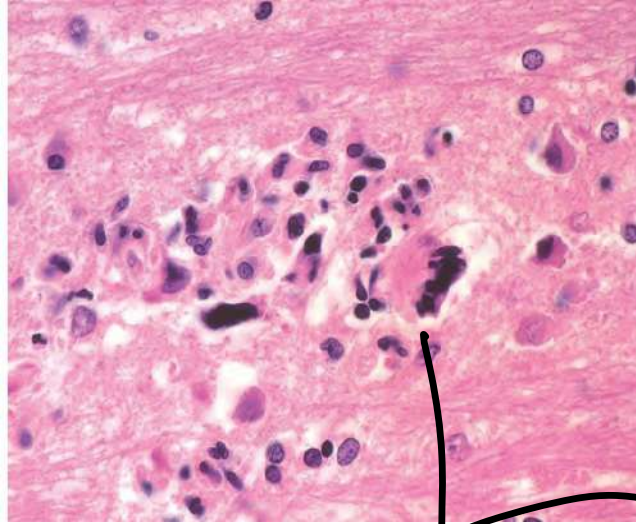
Flour g 4m v  
 perivascular PR  
 Ependym

Cystic Ca<sup>2+</sup> chains → CP

wet keratin



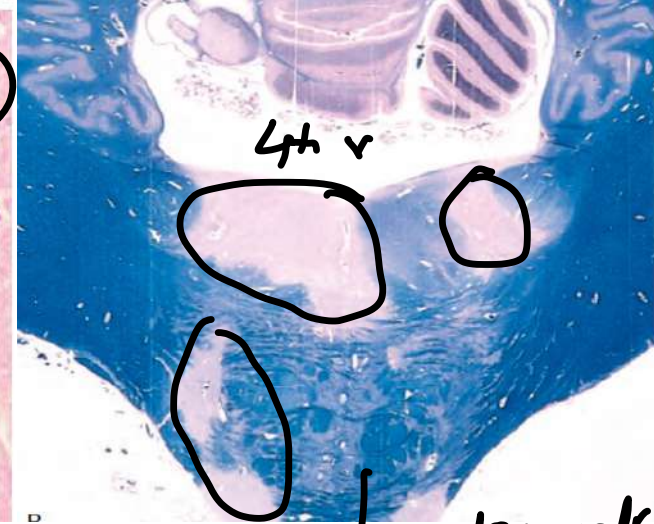
Angiocentric lymphocytis



Microglial nodules



Negri bodies  
Rabies



Luxol blue  
demyelination



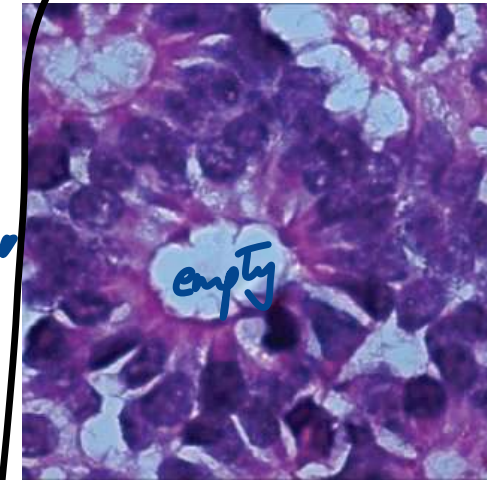
CNS Lymphoma

DLBCL  
Hooping lesions

Multinucleated GC

HIV encephalopathy

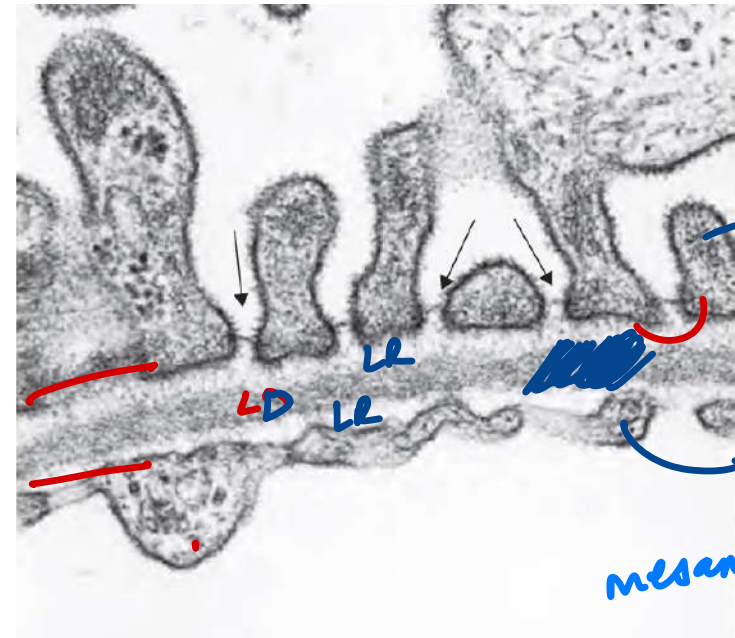
true R →  
Flexner  
Wintersteiner  
RB



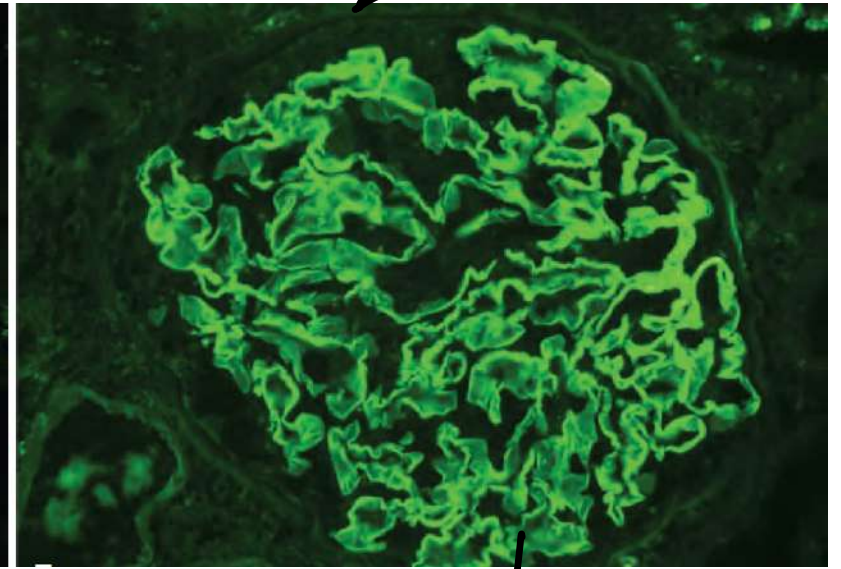
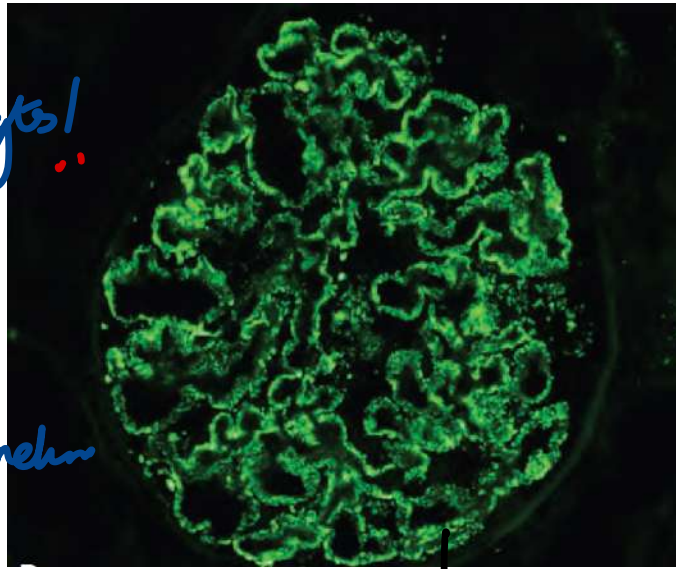
MS / NMO - Anti-Aq ↑  
Devic Δ

# Renal system

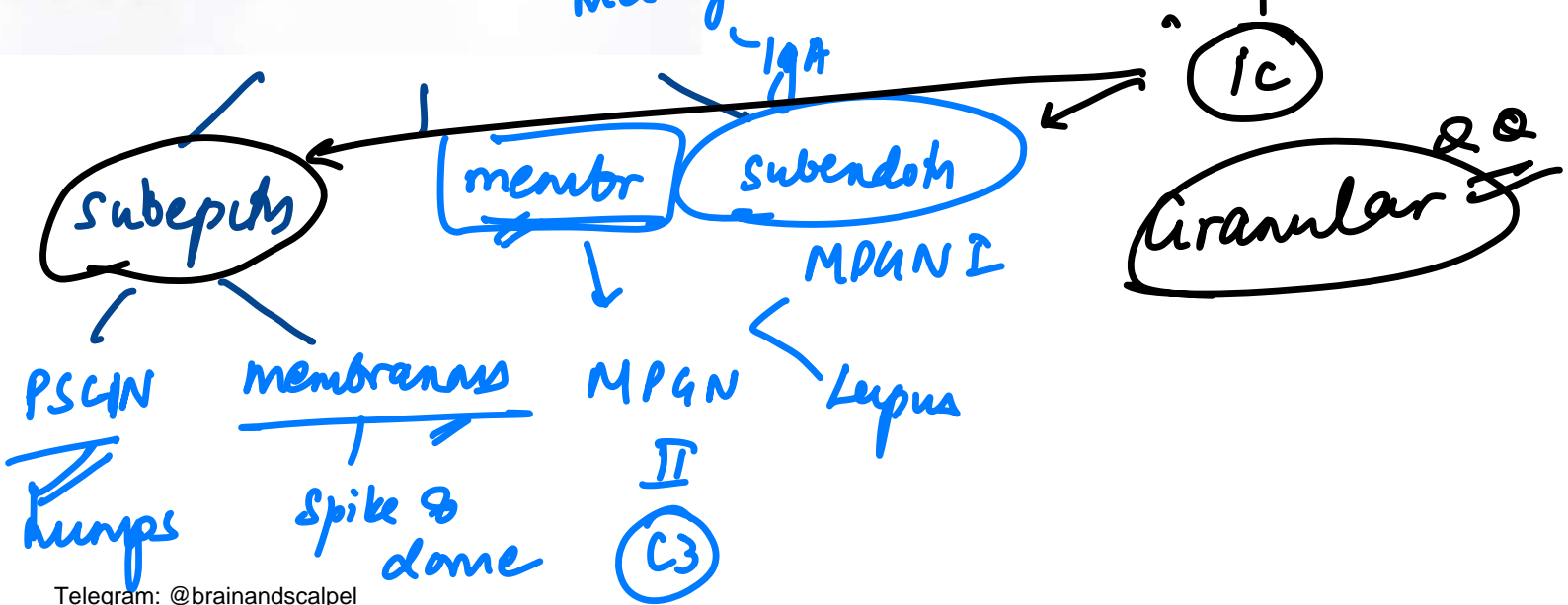
C3/IgG



Podocytes!  
Epin  
BM  
endothelium

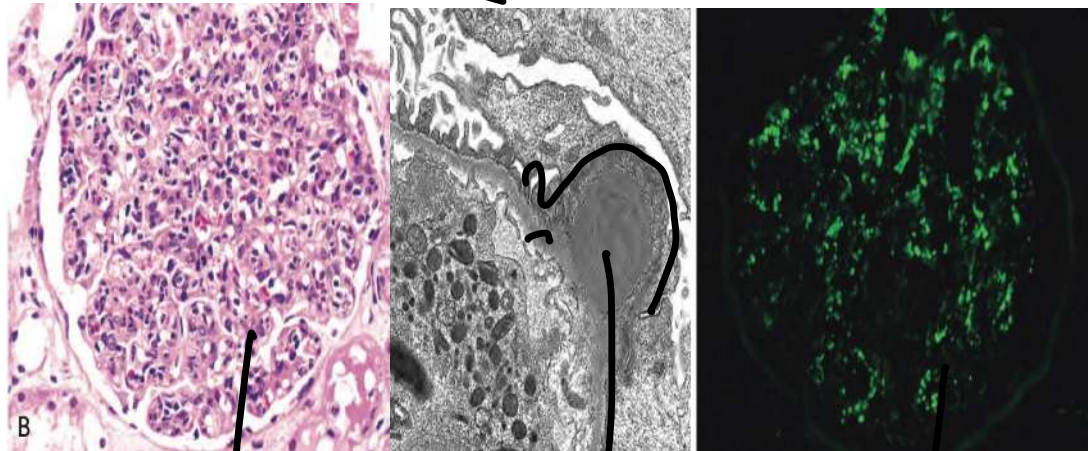


mesangial



Linear  
anti-GBM  
Good pasture

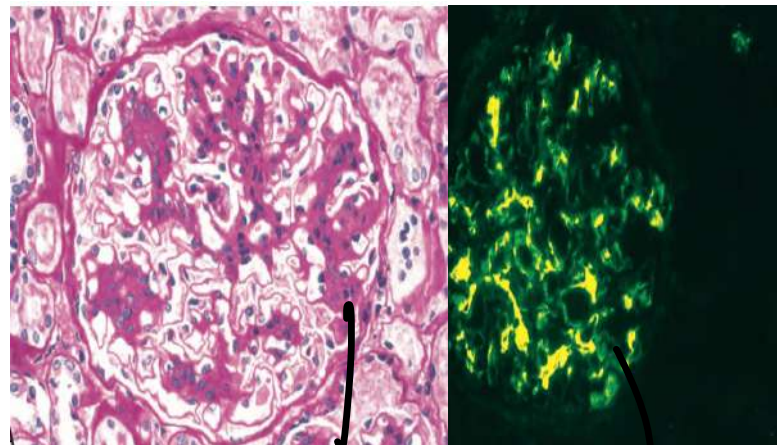
PSGN



hypercellular

Subepith

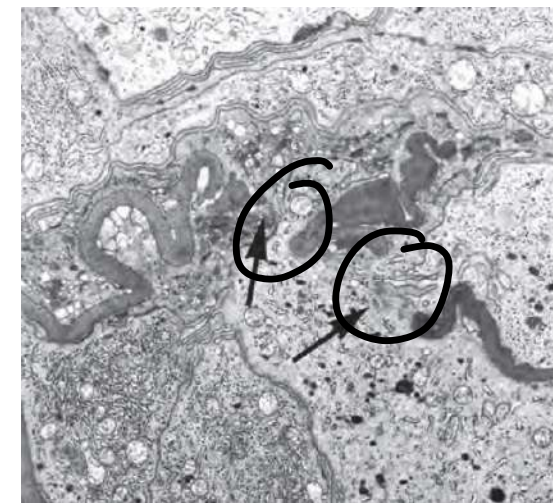
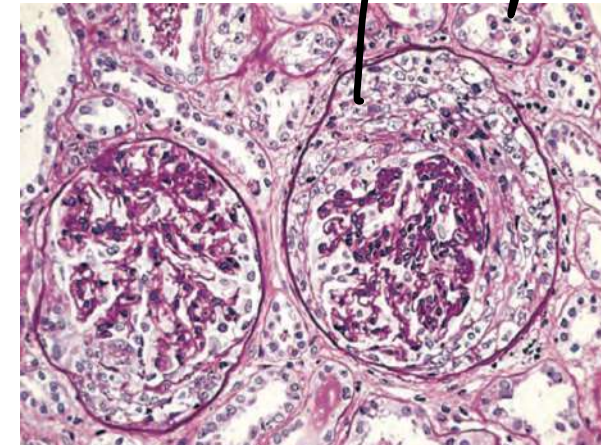
Granular



mesangial

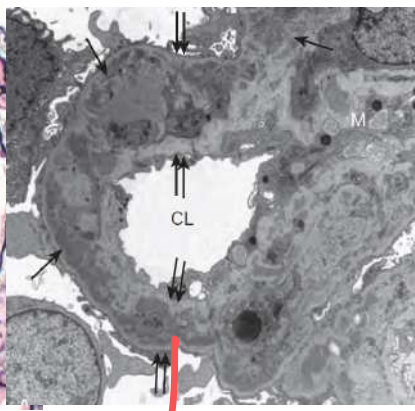
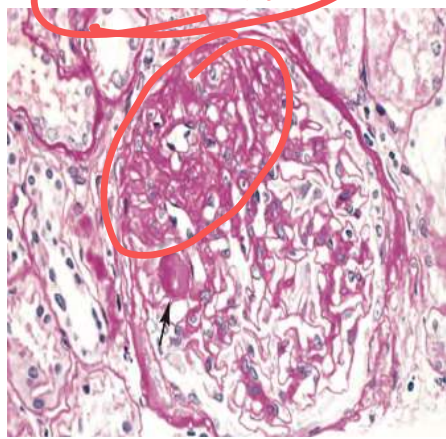
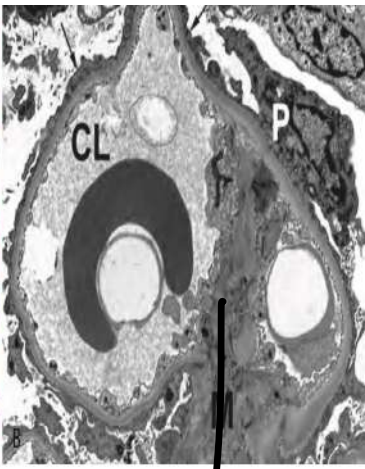
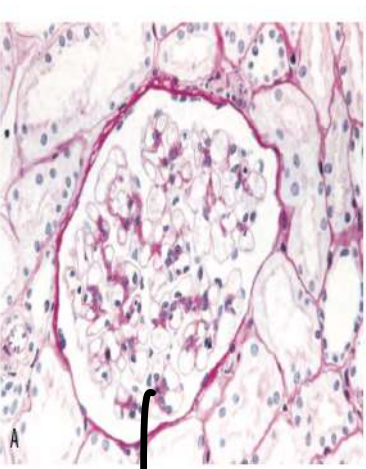
(+) IgA

Berger / IgA



GBM →  
• thickened  
• wrinkled  
• ruptured

RPGN



tram track Subendoth  
MPGN I

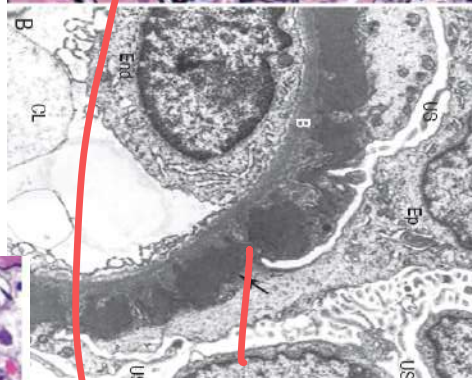
LM (N)

MCD

effacement  
of  
podocytes



HIV (+) collapsing (:)  
COVID 19

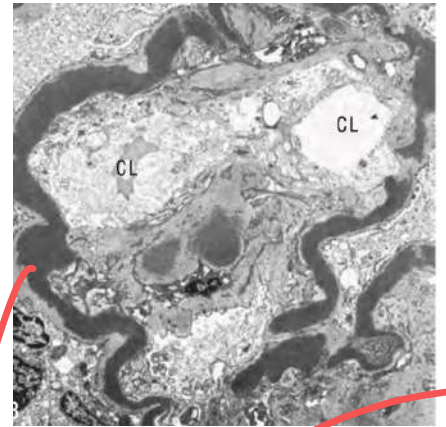


Subepith deposits

membranous

PLA2R  
CD10

Thrombospndin  
C3

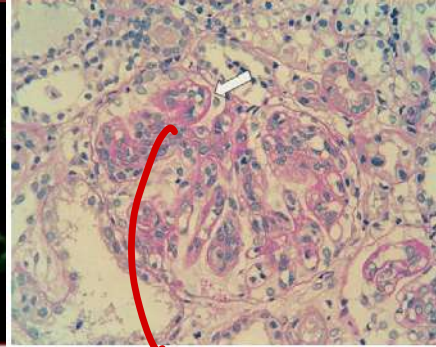
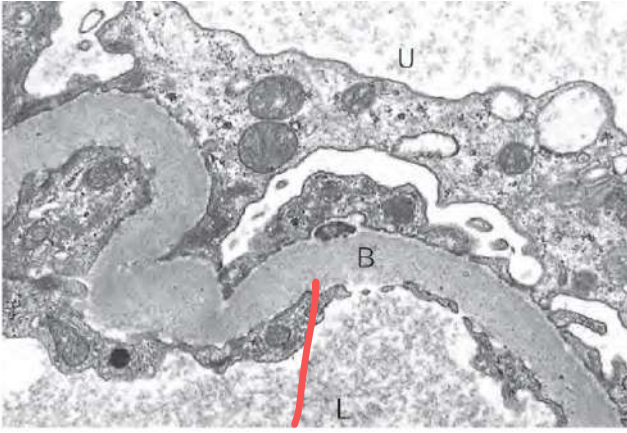
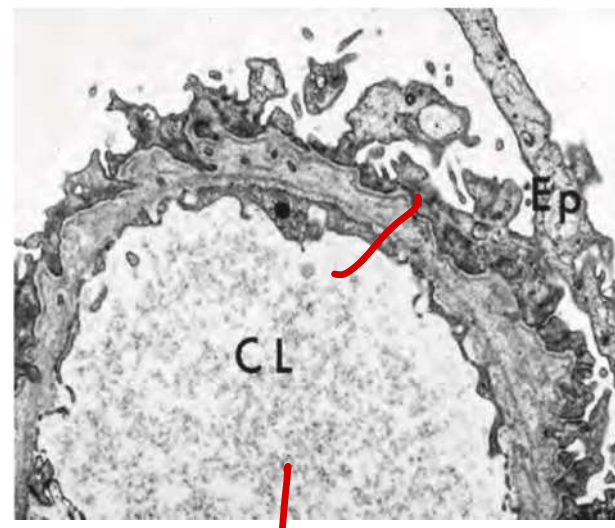
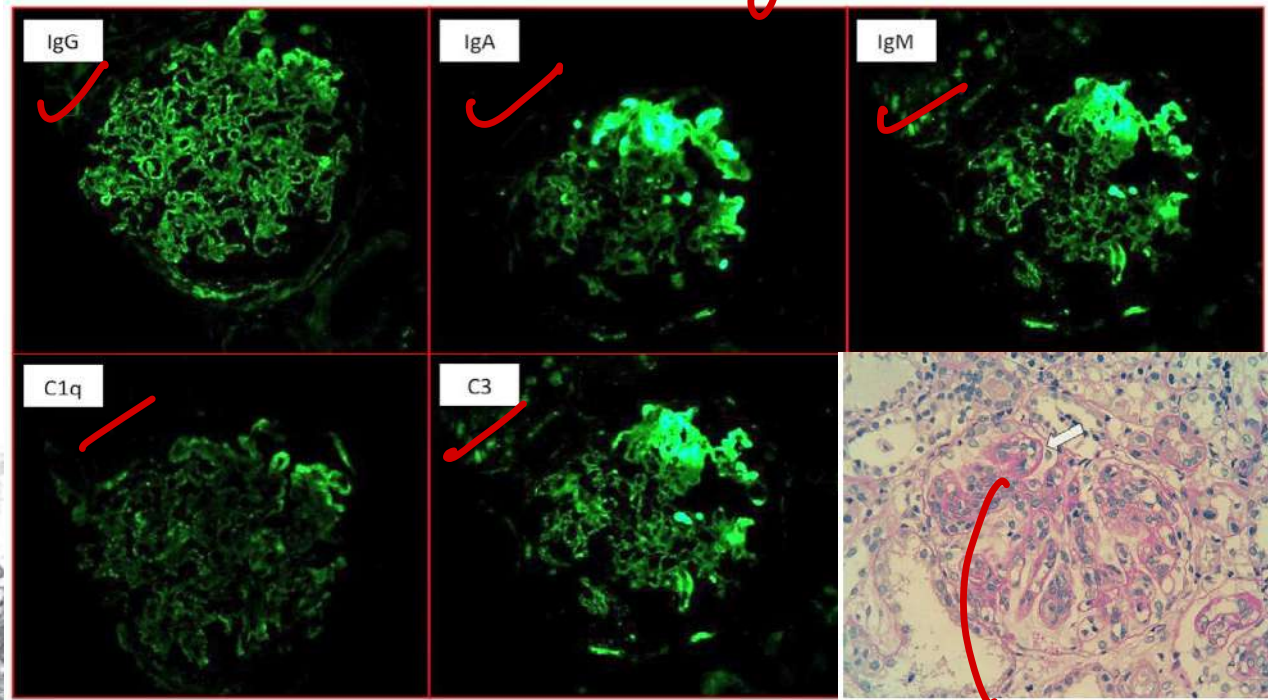
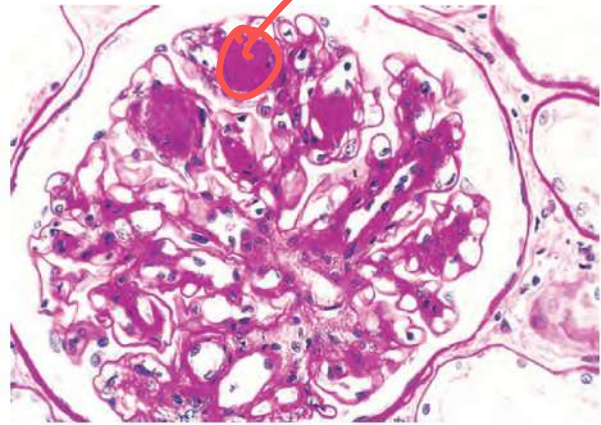


MPGN II

Membranous

Kimmelstein  
Wilson PAS (+) DR

Full-house effect



Basket weave

SLE  
Lupus

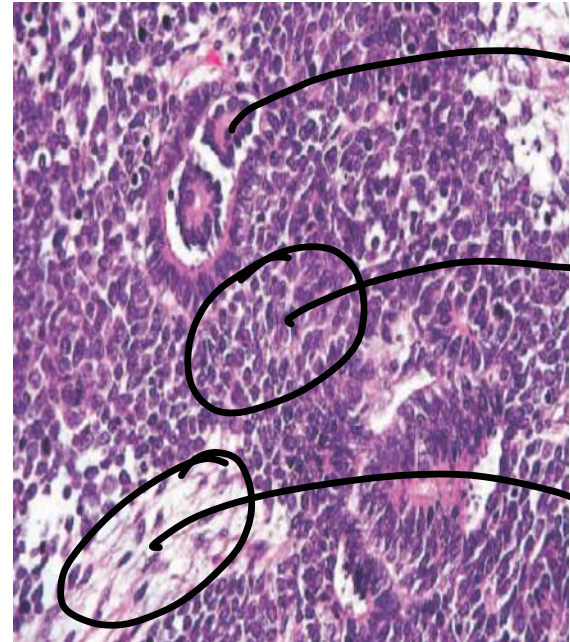
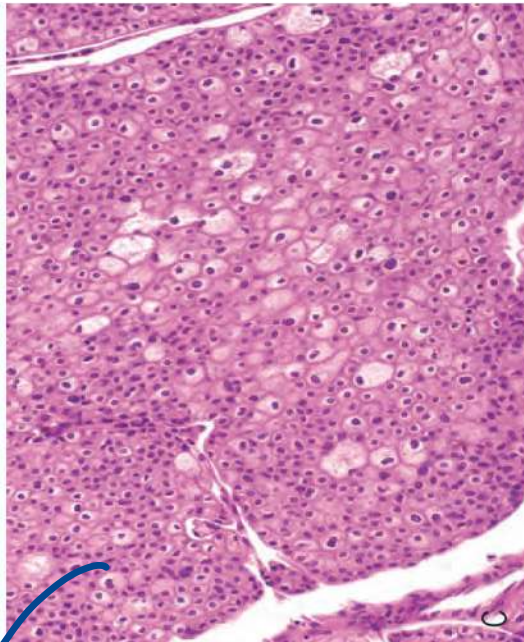
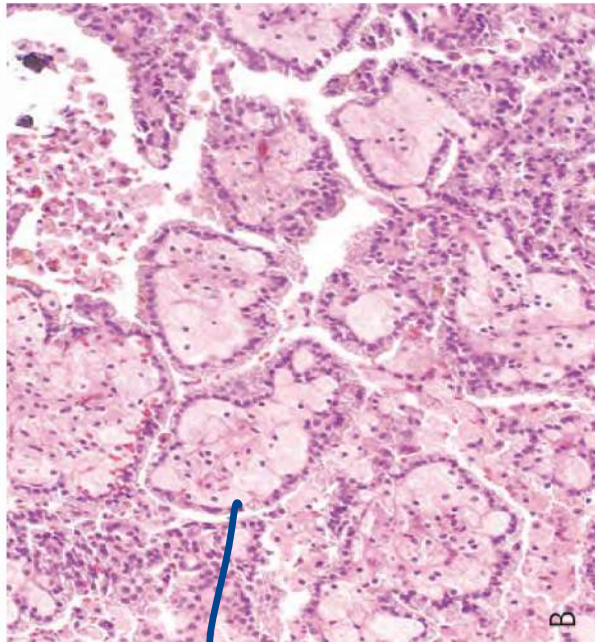
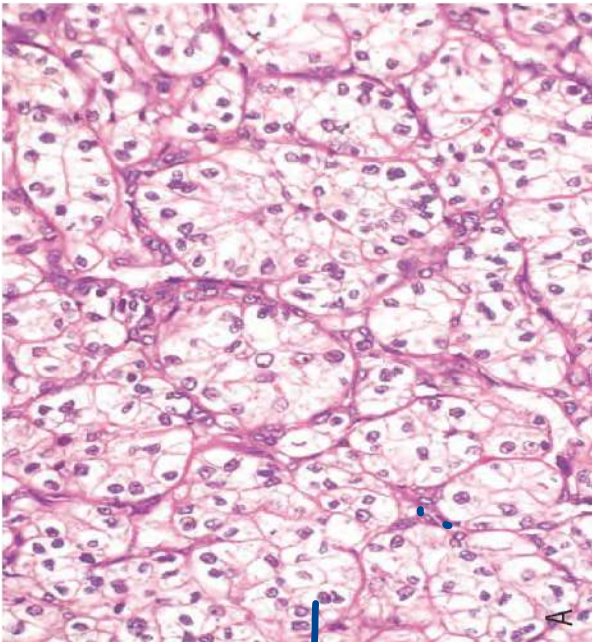
wire-loop  
type 3 (4) 5  
↓  
mc

Alport  
coll (4)  
α5

UBM  
thickening

Diabetic nephropathy

malbuminuria  
GFR ↑↑



tubule

blastema

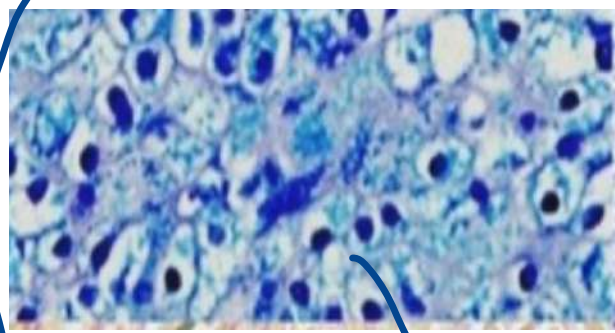
stroma

WT - triphasic

clear cell ca  
RCC

papillary ca  
RCC

h/o dialysis

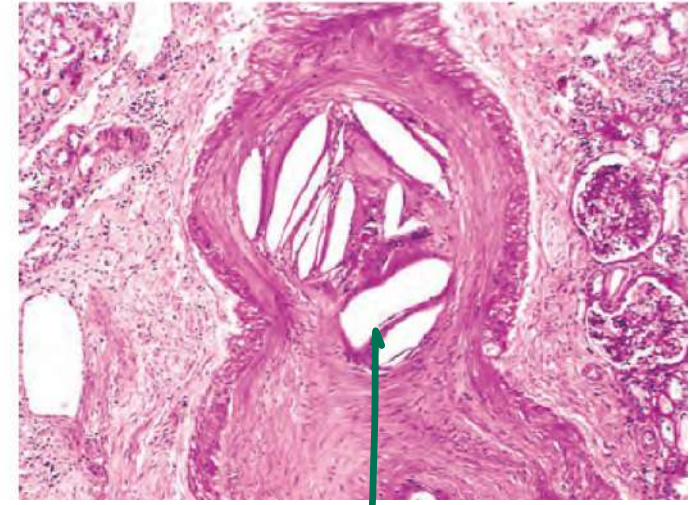
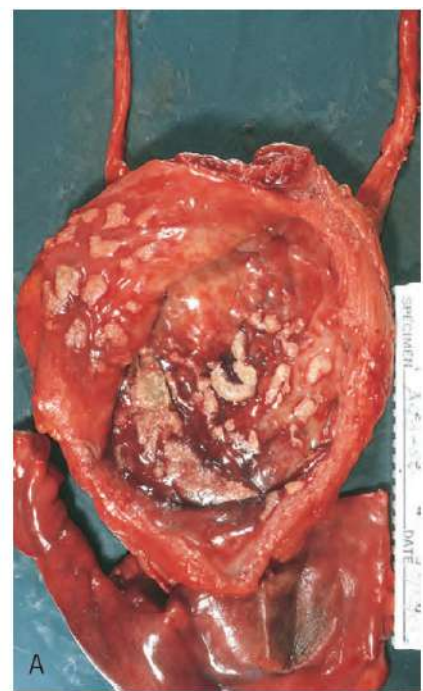
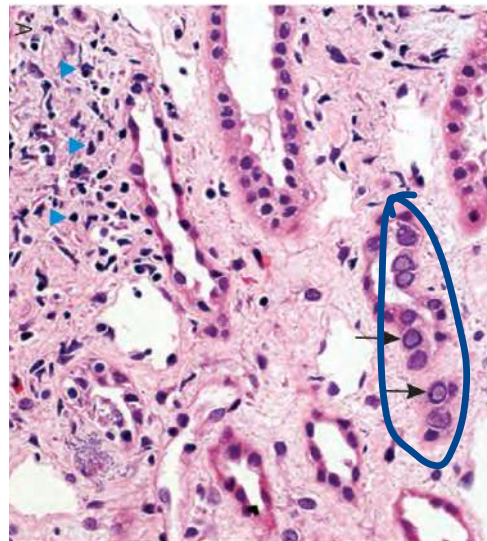
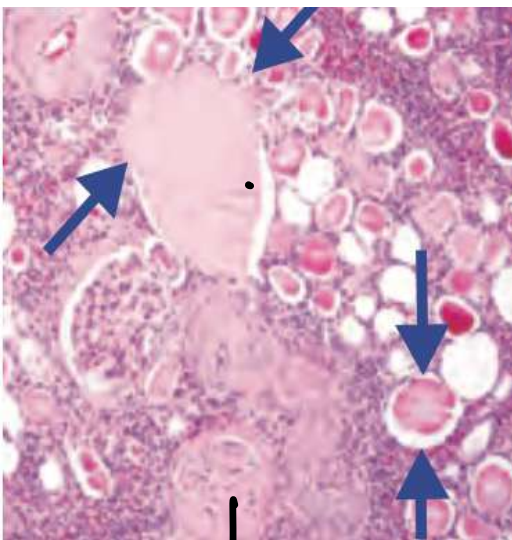


raisinoid  
plant cell

Birt-Hogg-Dube sy

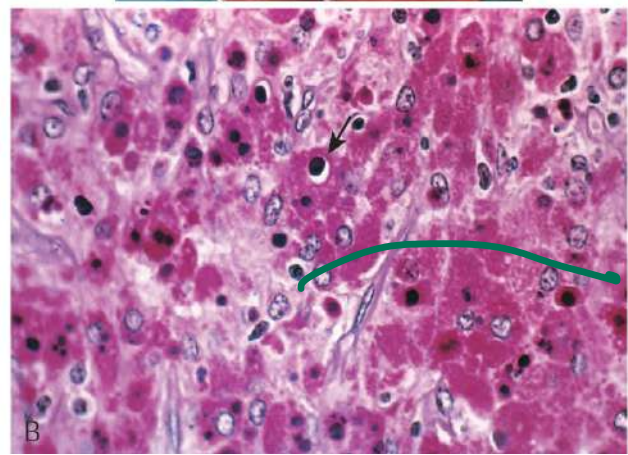
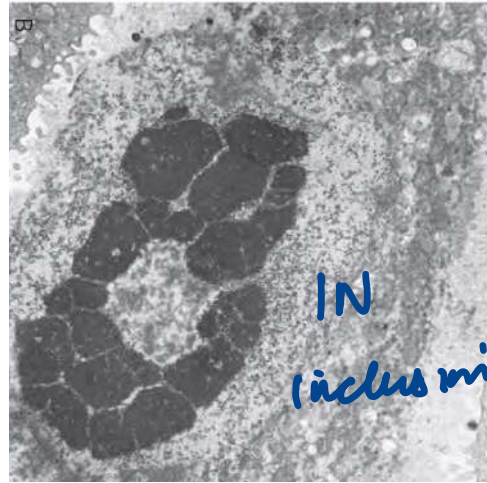
Chromophobe  
RCC

→ Hale's colladal fe



Hybridism of epithelium

↓  
Chronic  
PN



Cholesterol  
deft  
atherosclerotic  
D

Michelis -  
Cullman

Malakoplakia

lymphocytes

Von Hansman cells

Graft → BK virus

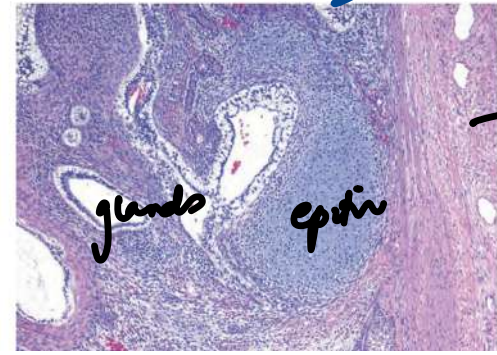
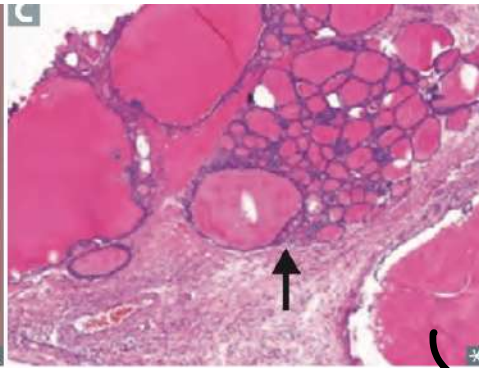
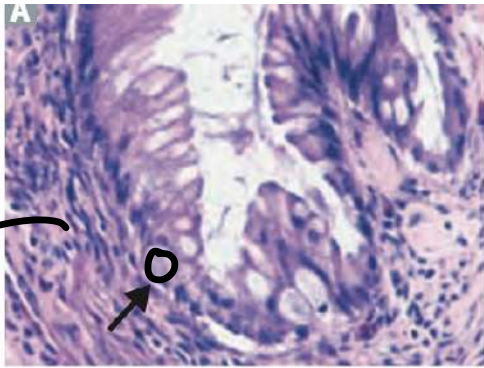
Decoy cell

most common: CMV 1-3man

# GENITAL SYSTEM, BREAST

oo

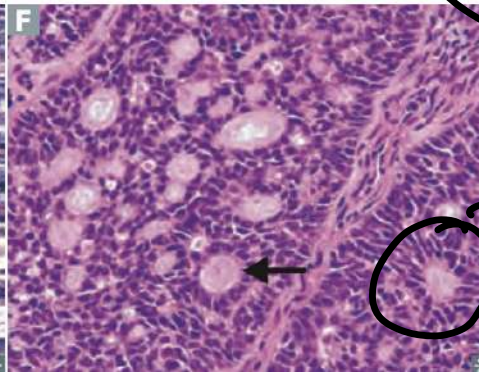
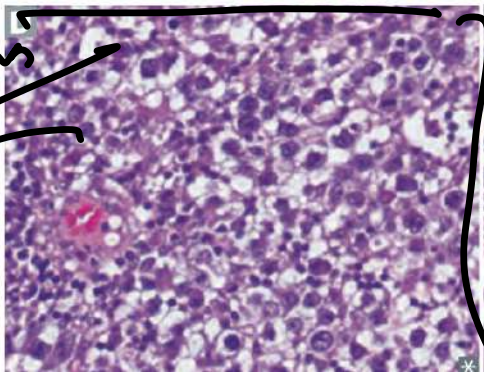
mucinous epithelium



malignant teratoma

Dysgermoma

fried egg



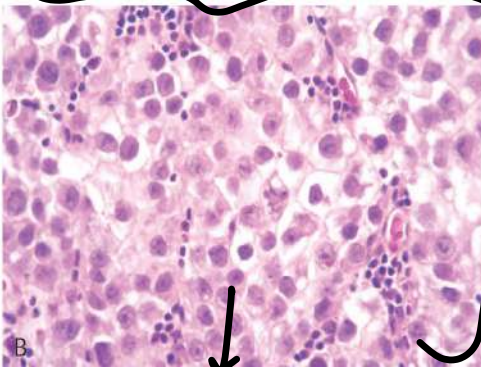
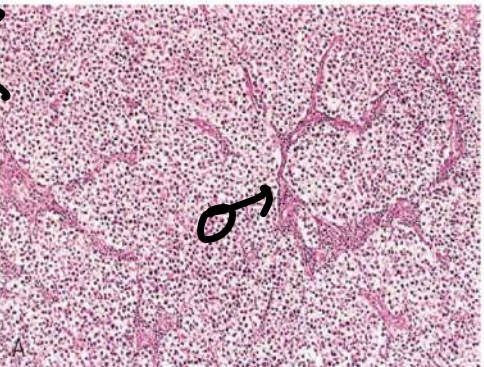
Struma ovarii

Granulosa cell tumor

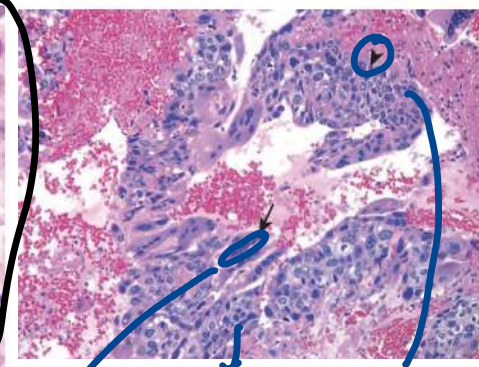
↳ Call exner bodies

IHC: Inhibin B

Seminoma



Small round blue



CCA  
syncytio  
cyto  
x villi



Leydig cell T  
Testosterone crystals

# Gleason's Pattern

1. Small, uniform glands

2. More stroma between glands

3. Distinctly infiltrative margins

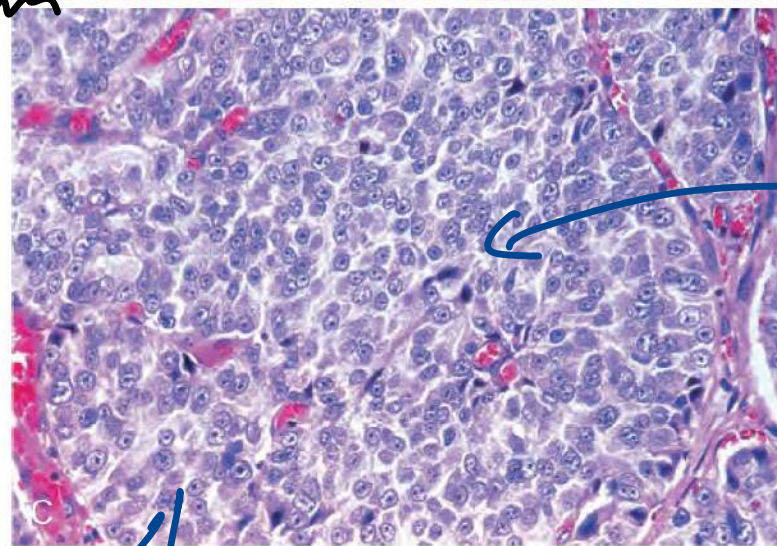
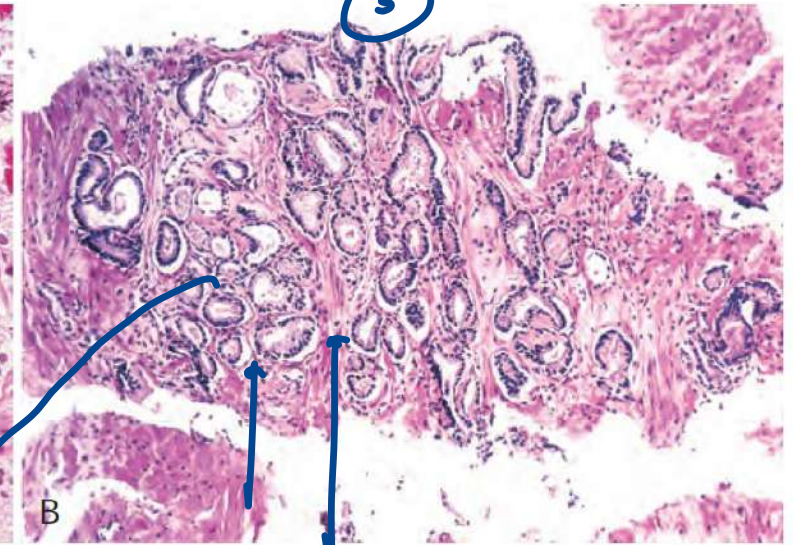
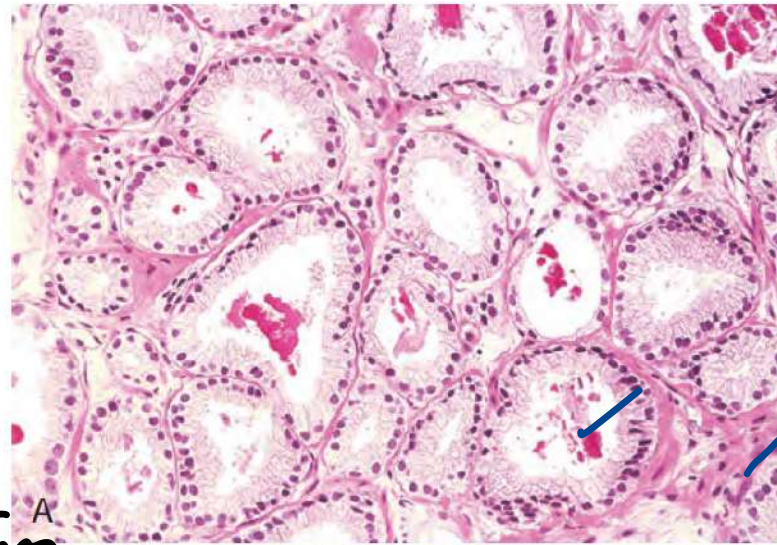
4. Irregular masses of neoplastic glands

5. Only occasional gland formation

Well differentiated

Moderately differentiated

Poorly differentiated / Anaplastic



*cribriform*  
 (4) + (5)  
 1 + 2

*1° pattern*  
 + *2° patterns*

*cells*

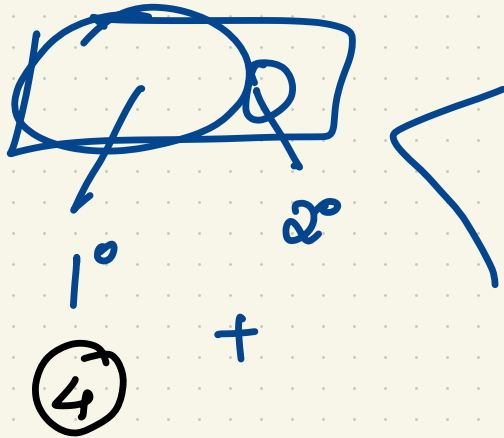
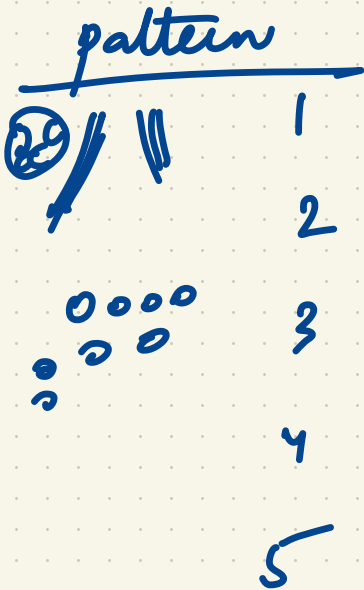
Table 21.8 Prostate Cancer Gleason Grade Groups

- Grade Group 1 (≤6) *Gr 1*  
Only individual discrete well-formed glands
- Grade Group 2 (3 + 4)  
Predominantly well-formed glands with a lesser component of poorly formed, fused or cribriform glands
- Grade Group 3 (4 + 3)  
Predominantly poorly formed/fused/cribriform glands with a lesser component of well-formed glands
- Grade Group 4 (4 + 4/3 + 5/5 + 3) *(8) cribriform (4)*  
Only poorly formed/fused/cribriform glands or predominantly mix of well-formed glands and lack of glands
- Grade Group 5 (4 + 5/5 + 4/5 + 5) *9/10*  
Lack gland formation (or with necrosis) with or without poorly formed/fused/cribriform glands

*comedonecrosis / sheets*

*pattern - score / - group / grade*  
 (1-5) (1-5)

Figure 21.35 Gleason grading of prostate cancer. (A) Low-grade prostate adenocarcinoma (Gleason score 1 + 1 = 2) consisting of back-to-back uniform-sized malignant glands lined by a single layer of epithelial cells. (B) Needle biopsy of the prostate with grade group I adenocarcinoma (Gleason score 3 + 3 = 6) composed of well-formed, variably sized individual glands. (C) Grade group 5 adenocarcinoma (Gleason score 5 + 5 = 10) composed of sheets of malignant cells with no identifiable gland formation.



$$4 + 3$$

$$3 + 4$$

$$1 - \leq 6$$

$$2 - 3 + 4$$

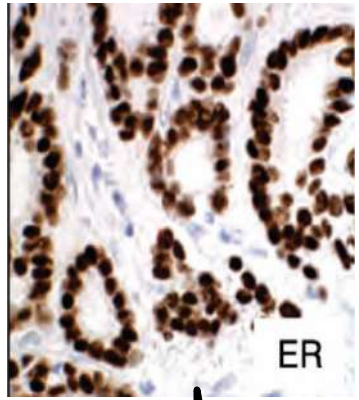
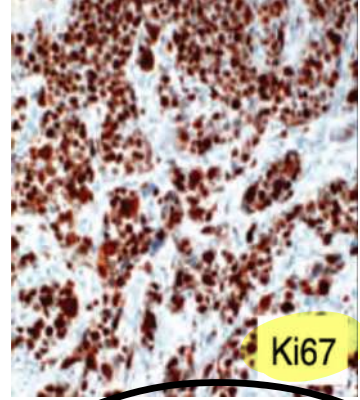
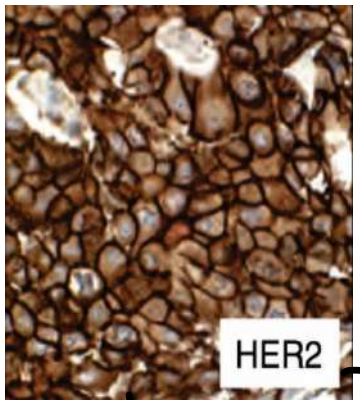
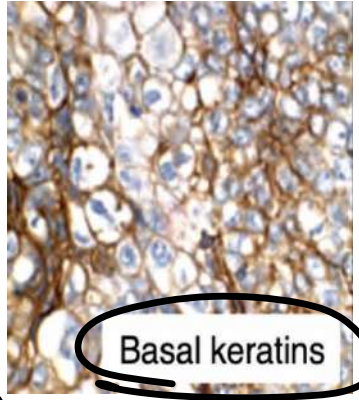
$$3 - 4 + 3$$

$$4 - 8$$

$$5 - 9/10$$

# Molecular classification

DAB

<b>Luminal</b> (ER-positive, PR-positive Her-2 negative)		<b>HER2</b> (HER2-positive)	<b>TNBC</b> (ER-negative, HER2-negative)
<b>Low proliferation</b>	<b>High proliferation</b>	High proliferation	High proliferation
 <p>ER</p>	 <p>Ki67</p>	 <p>HER2</p>	 <p>Basal keratins</p>

nuclear

Ki67 ↑

membrane

0/1+

2+

3+

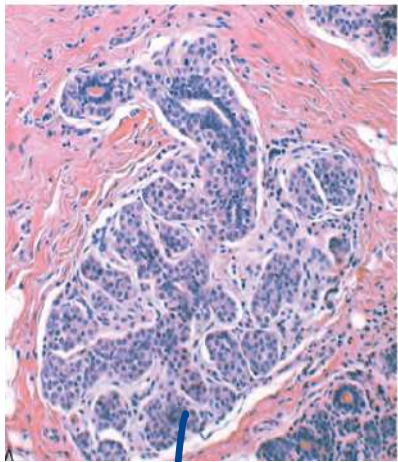
-ve

FISH

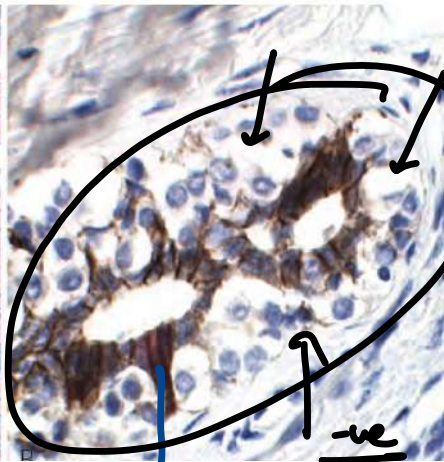
+

CK

+



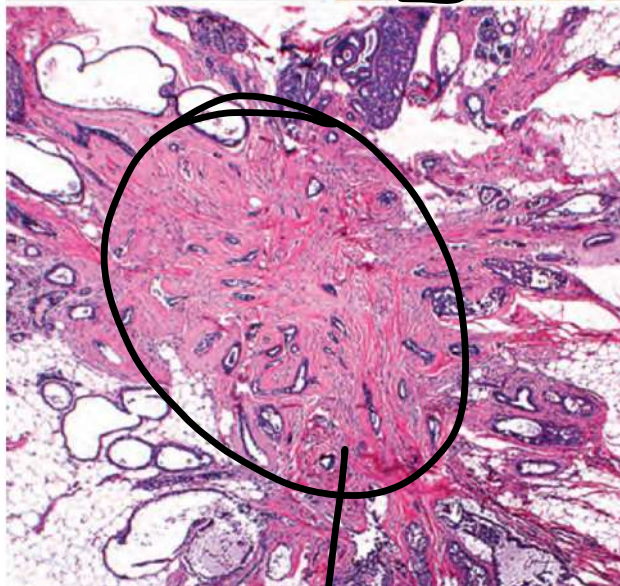
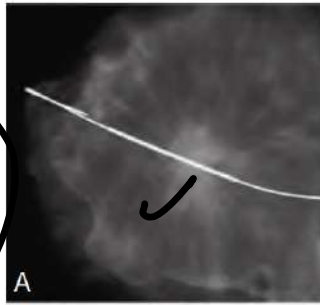
Indian file



E-cadherin  
loss of

LCIS  
inv lobular

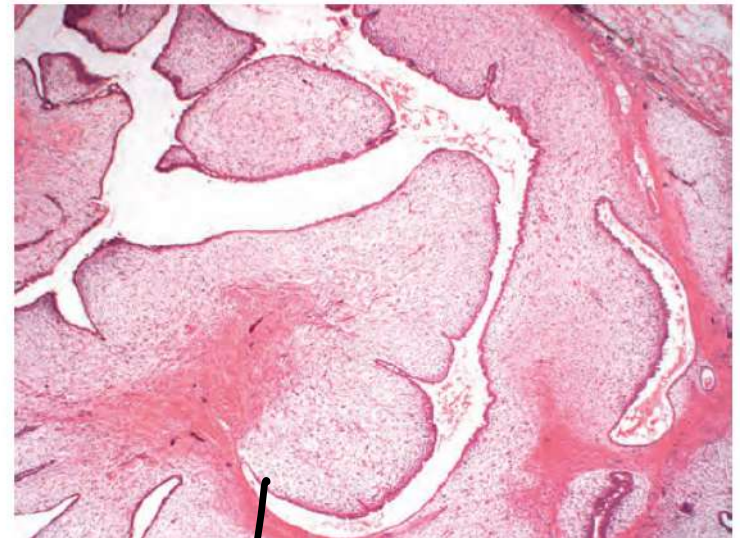
Ca  
○○○○○



radial sclerosing lesion

fat necrosis

minimice of ca



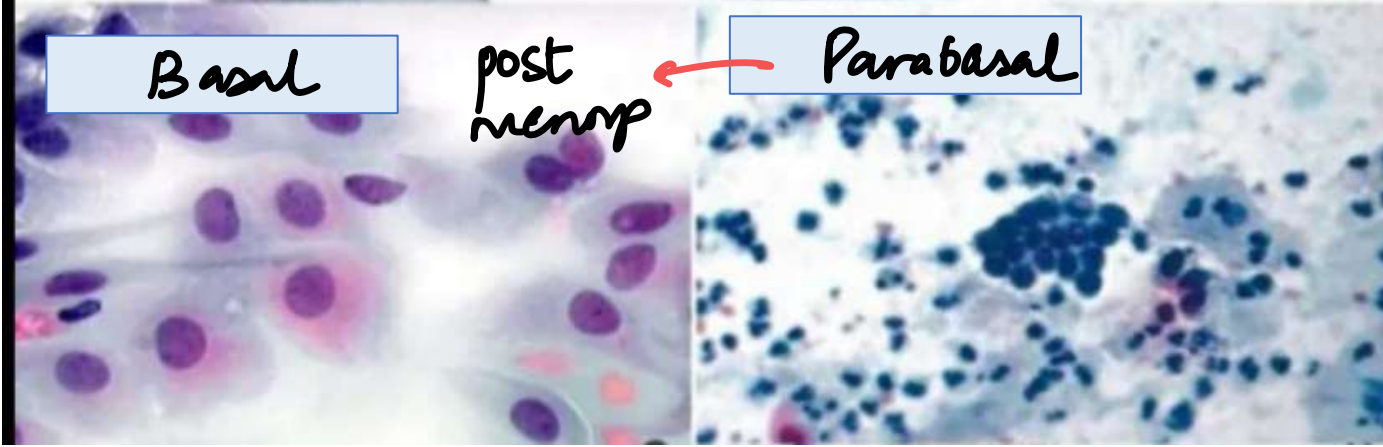
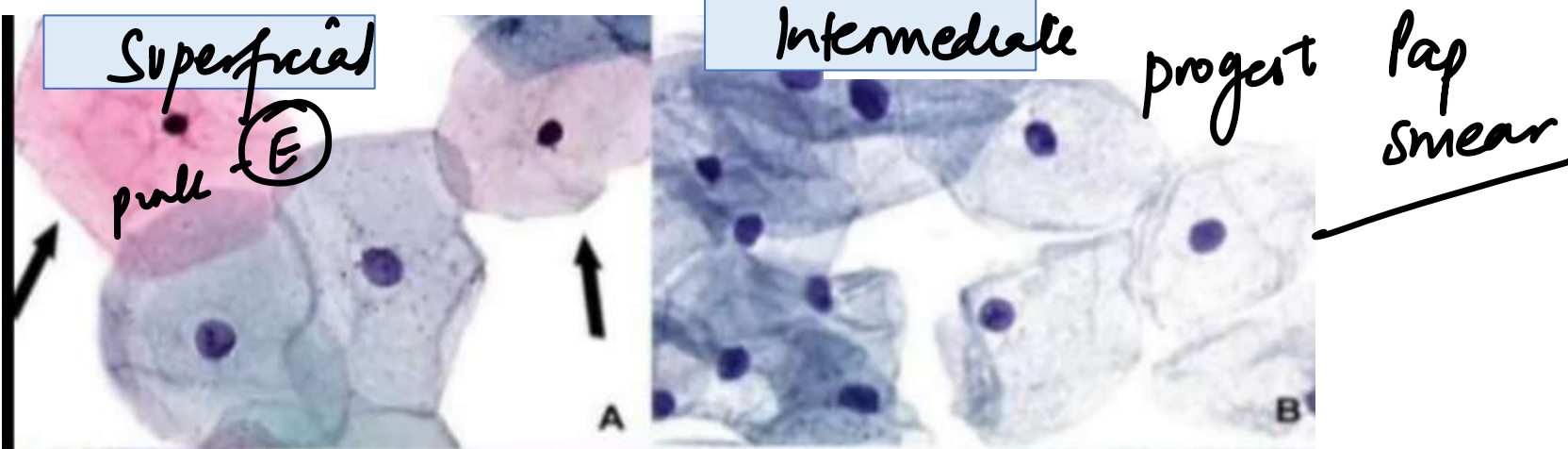
Phyllodes tumor



u/l eczema



Paget's



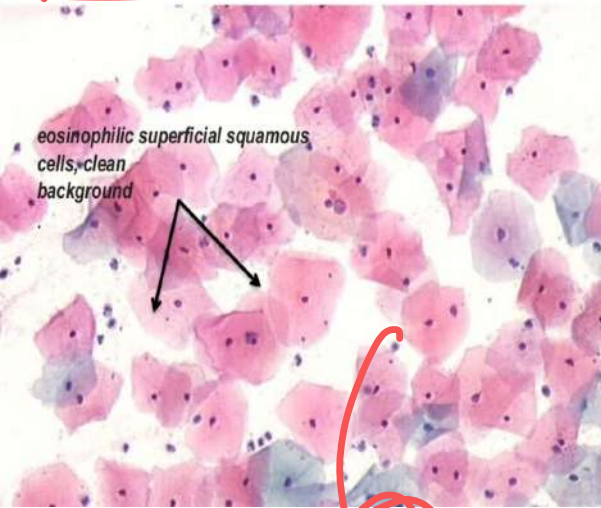
**Maturation index**

- It is count of the parabasal cells, intermediate and superficial cells.
- (P : I : S) → 0 : 35 : 65 → *estrogeni*
- In a normal menstruating woman during ovulation the menstruation index will be 0/35/65.
- In postmenopausal it will be 85/15/0.

SIP-B

tailpole cells  
 ↓  
 Sq CC

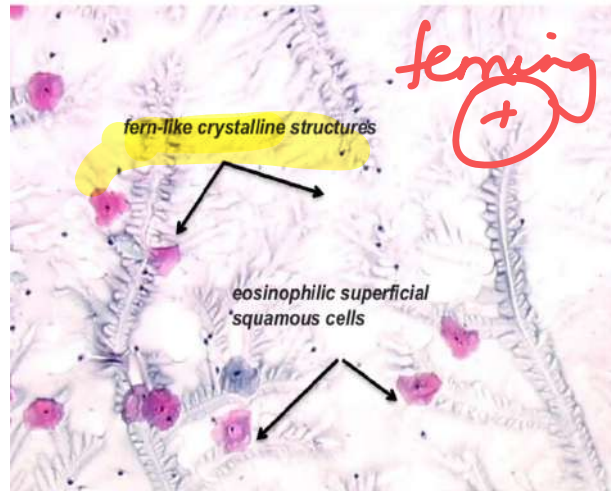
**ESTROGEN PHASE**



eosinophilic superficial squamous cells, clean background

S

**OVULATORY SMEAR**

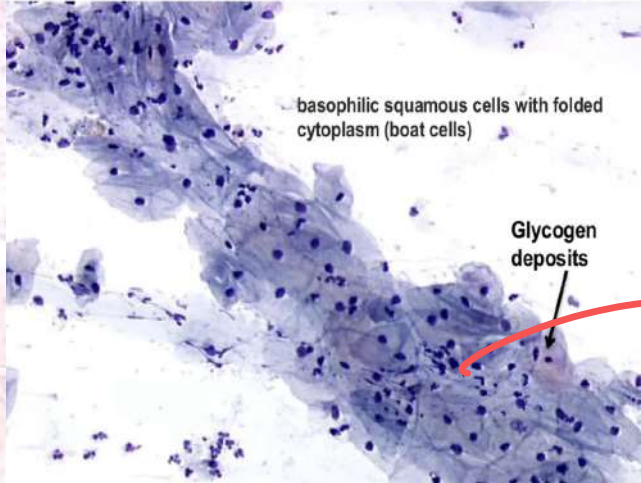


fern-like crystalline structures

eosinophilic superficial squamous cells

ferning +

**PROGESTERONE PHASE**



basophilic squamous cells with folded cytoplasm (boat cells)

Glycogen deposits

Basophilie  
I

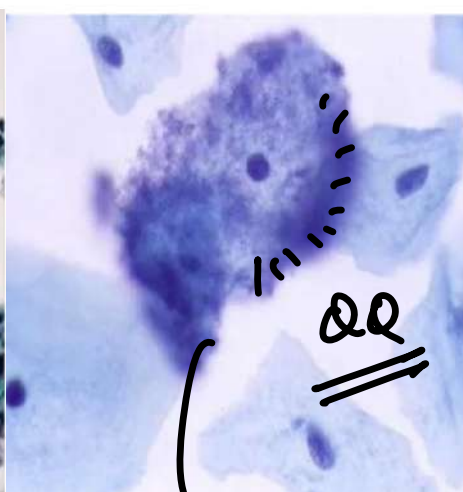
HPV: Koilocyte  
O



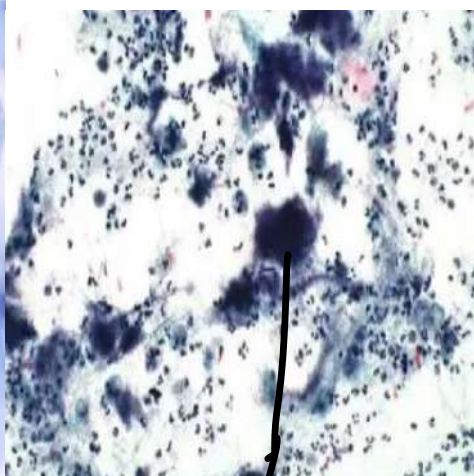
Trichomonas



Sheesh-kebab  
Candida



clue cells  
B. vaginarius



Cotton ball  
Actinomyces  
CT

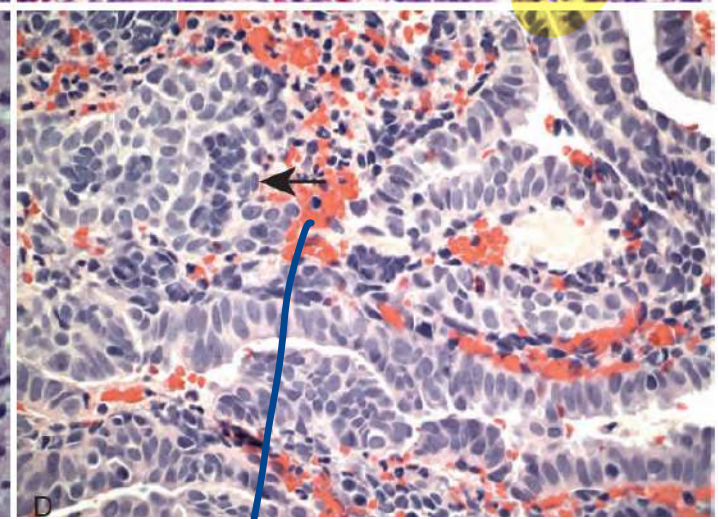
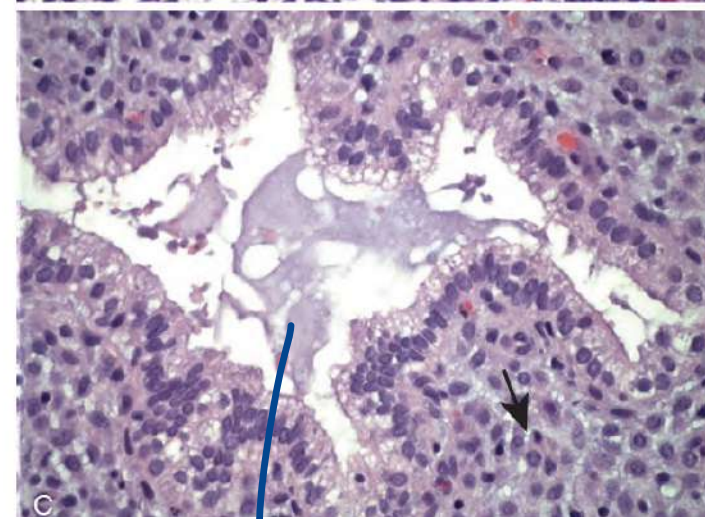
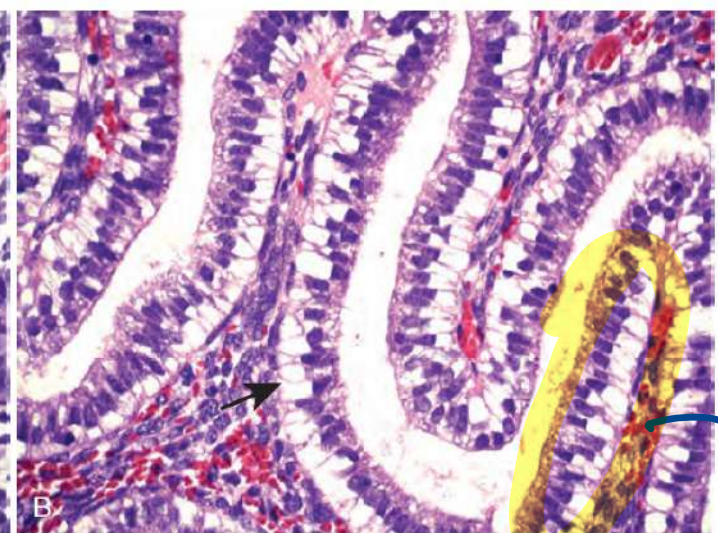
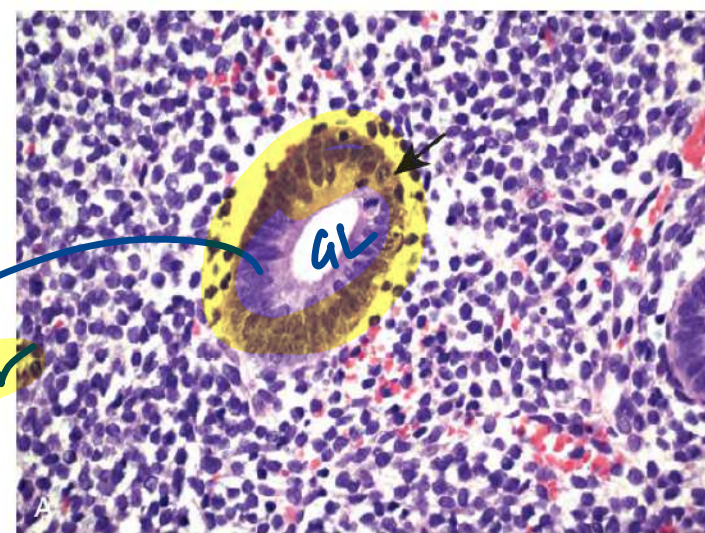


multinuclear  
HSV



HP bodies  
 MCV

early follicular

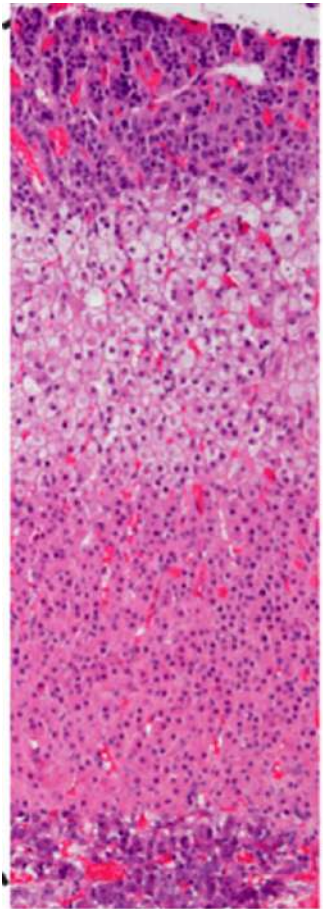


late-stromal  
 secr breakdown

menstrual

secretory  
 (subnuclear  
 vacuolization)

# Endocrine system

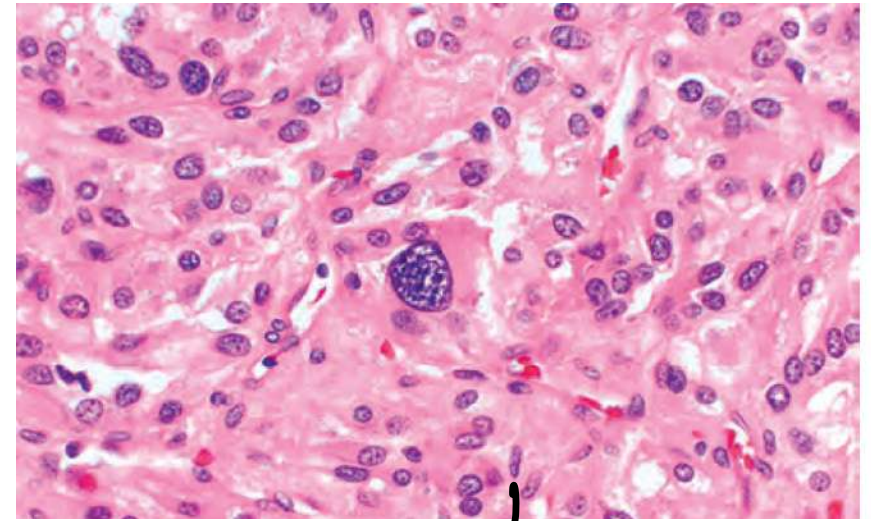


G - MC

F - GC

R - sex steroids

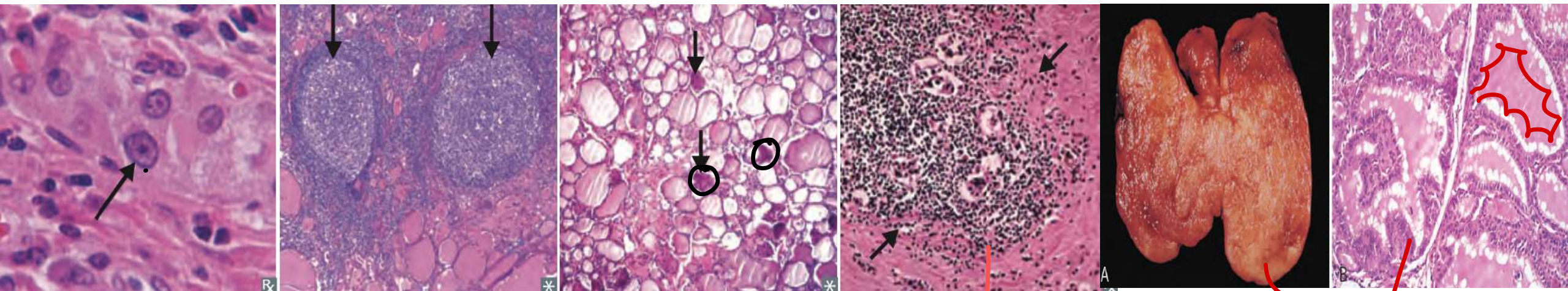
Medulla - Epi / NE



Zellballen

EM: granules

Pheo

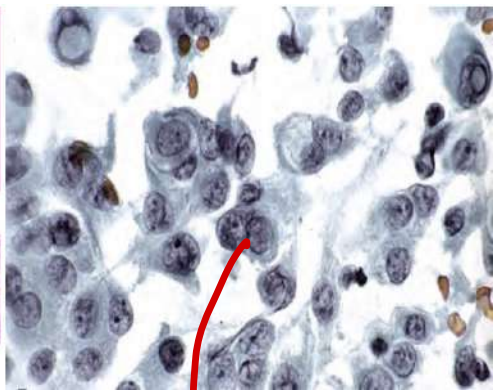
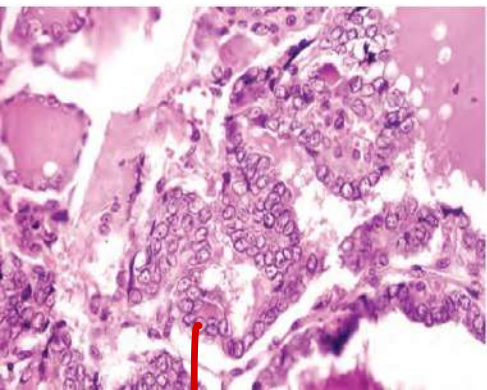


Hurthle cell  
 Germinal centres  
 Hashimoto anti-TPO

de Quervain's  
 thyroiditis  
 pain

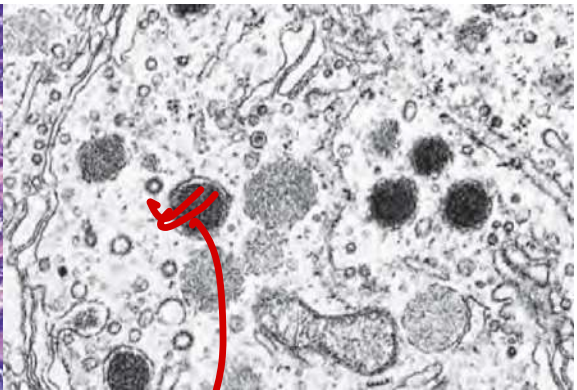
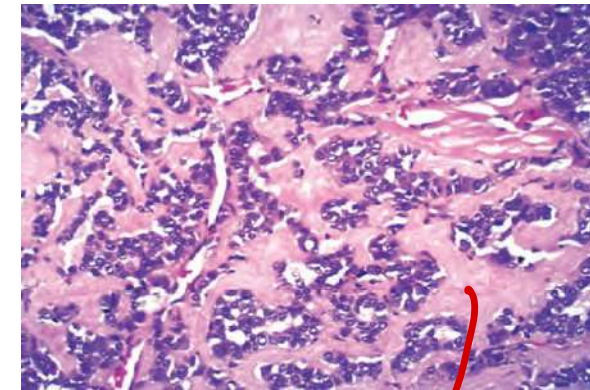
lymphoplasmatic  
 fibrosis +  
 Riedel's

Graves' scalloping  
 of colloid



Orphan Annie eye  
 pap ca

coffee bean grooved  
 inclusions

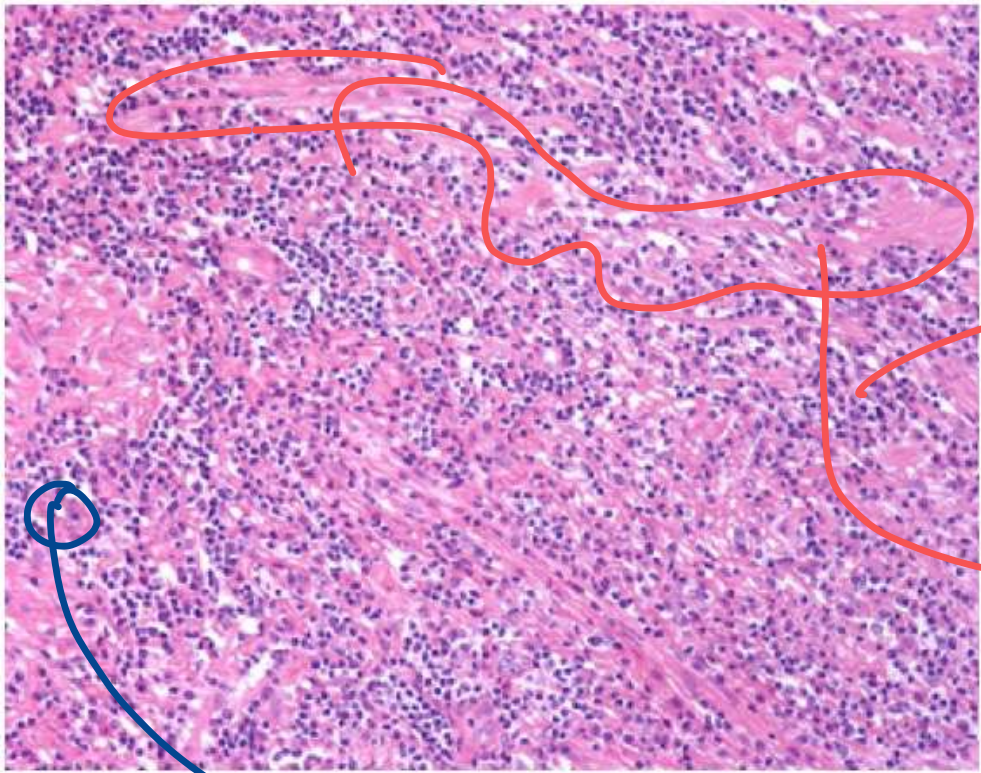


MEN 2a/2b

amyloid

MTC

secretory granules



IgG+

Lymphoplasmacytic infiltration

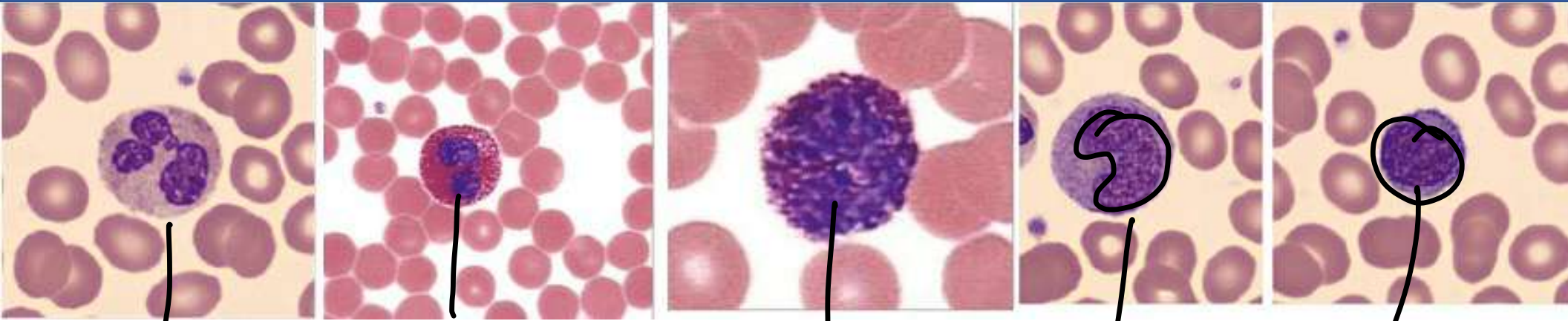
(+)

Storiform fibrosis

(+)

obliterative phlebitis

# HEMATOLOGY



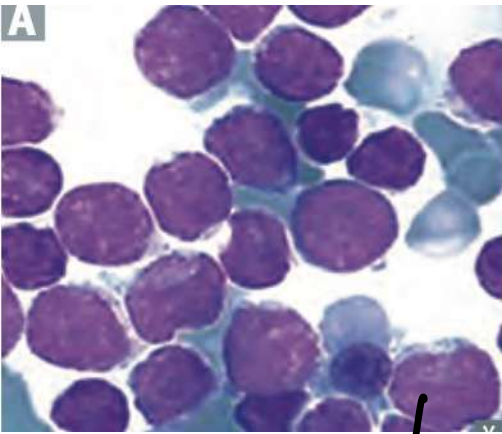
N

E

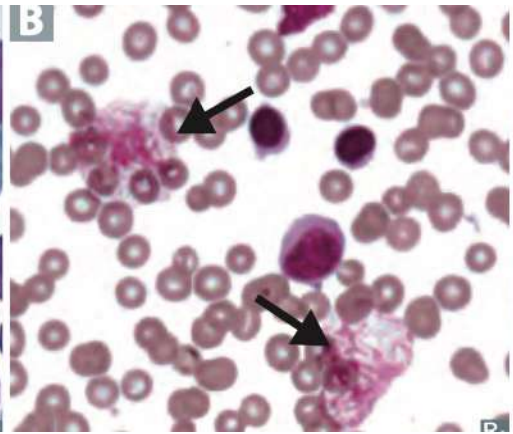
B

Monocyte

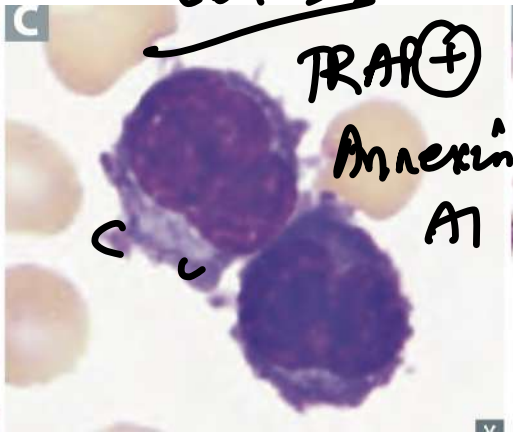
Most radiosensitive lymphocyte



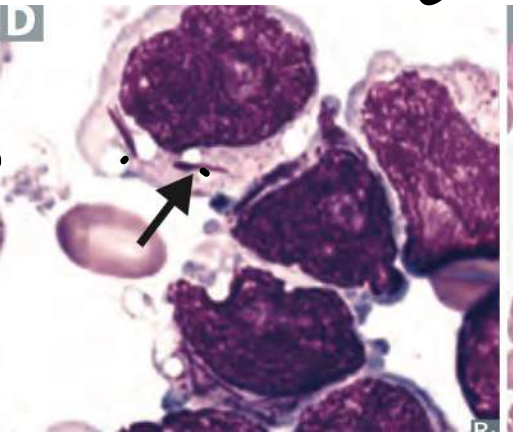
ALL



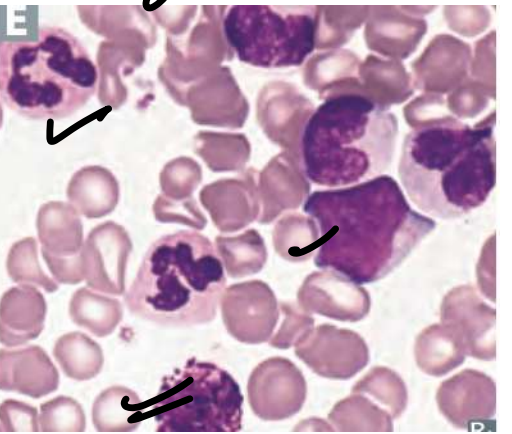
Smudge cells  
CLL



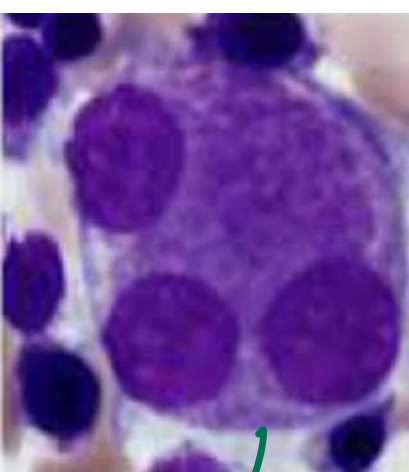
CD103  
TRAP(+)  
Annexin A1  
hairy cell leukemia



AML



CML



Pavon ball

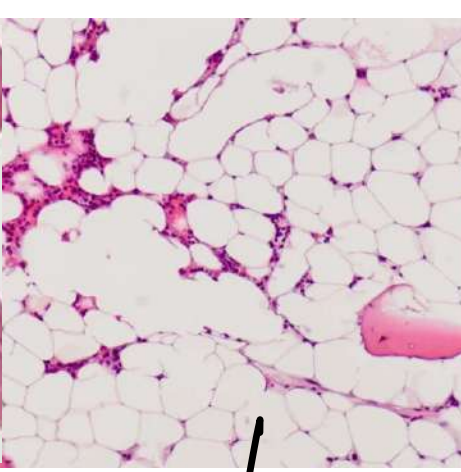
megakaryocyte

MDS

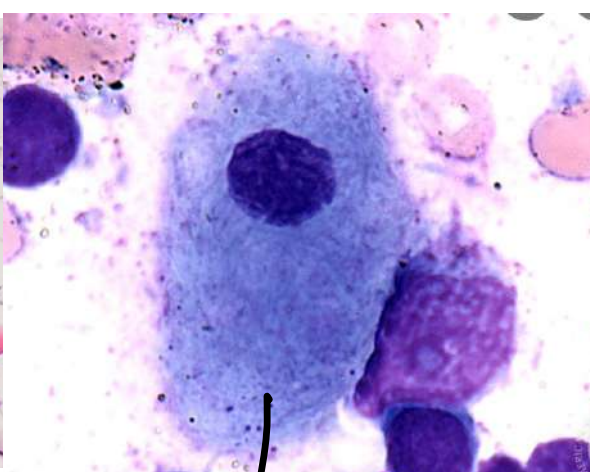


Pelger Huet

pseudo



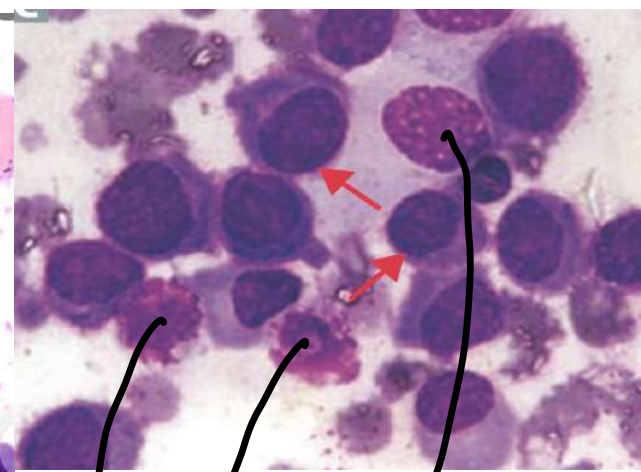
Aplastic anemia



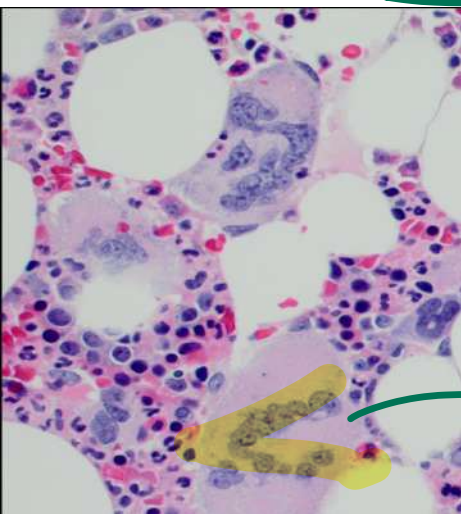
Pseudo-Gaucher

CML

FISH

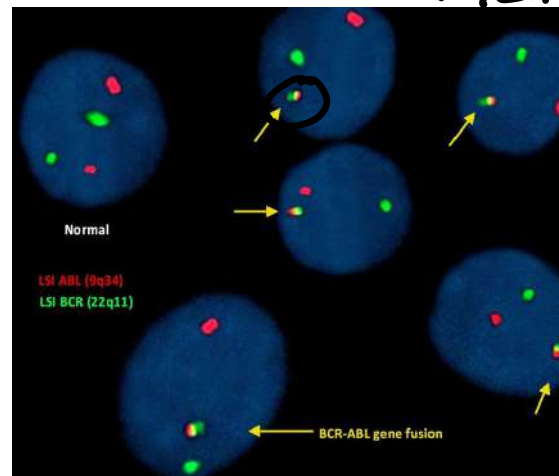


in  
Mulberry  
Dutcher  
ic  
Russel

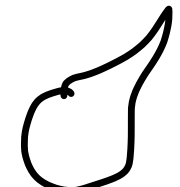


staghorn megakaryocyte

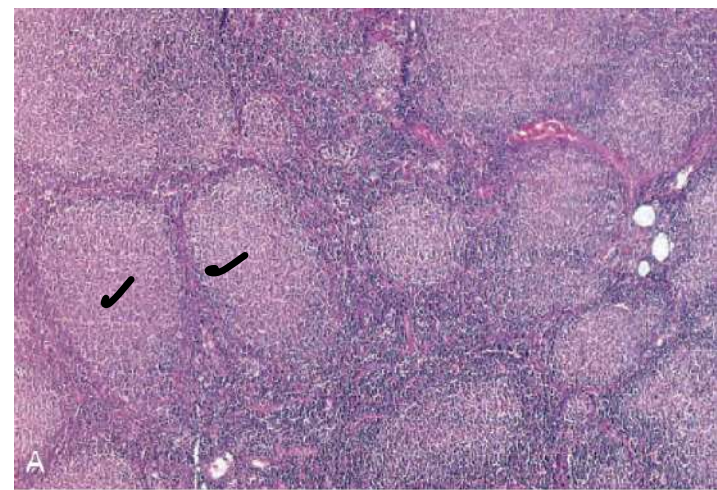
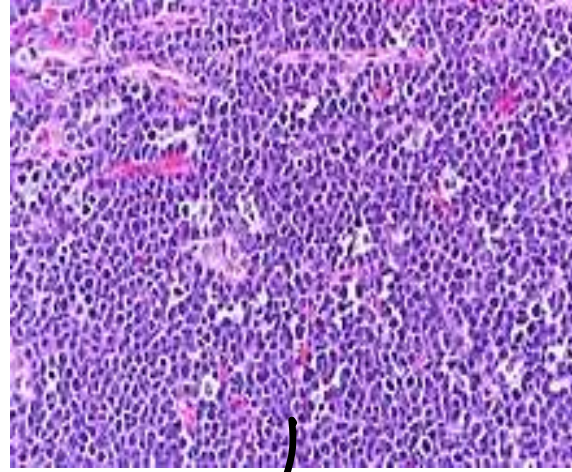
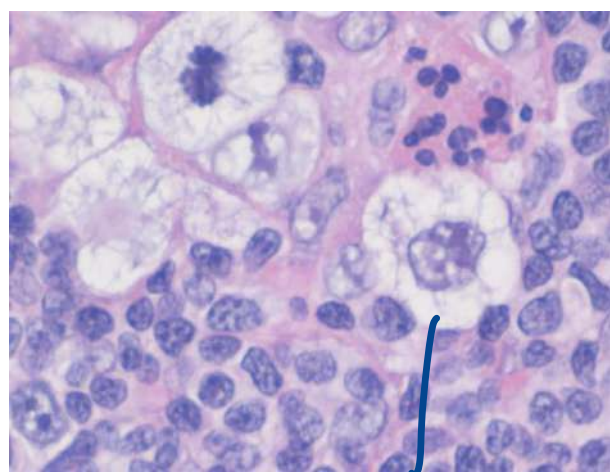
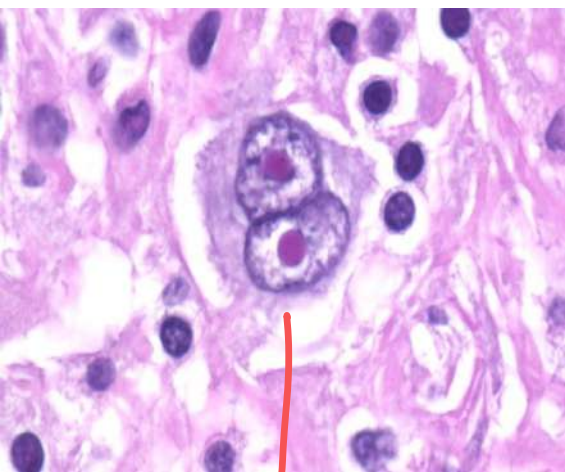
ET



t(9;22)



Flame cell  
MM



R-cells

CD15/30  
most sp - PAX5  
EBV+

owl eye - blue  
CMV

Lacunar cells:

MIS

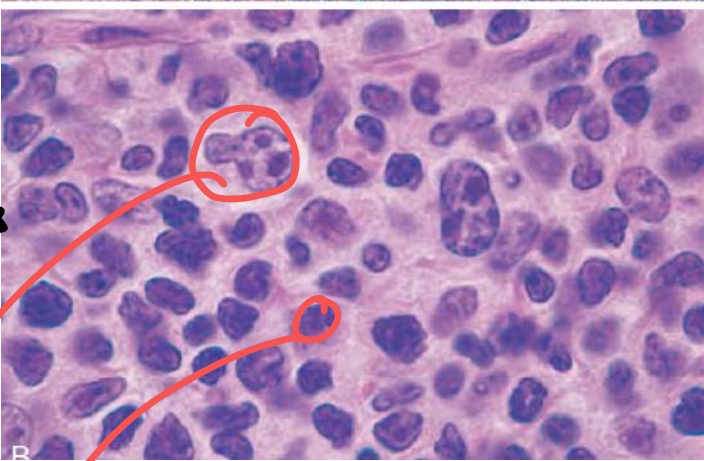
Starry sky:  
Burkitt lymphoma

2;8  
8;14  
8;22

8;4  
ANLM2

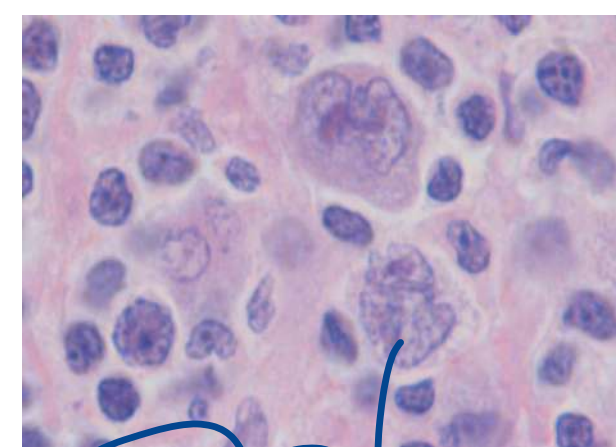
LP  
EBV-

CD20+  
CD45+  
BCL6+

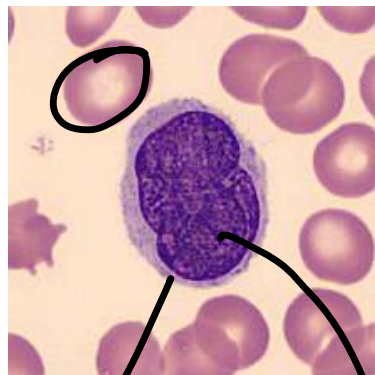
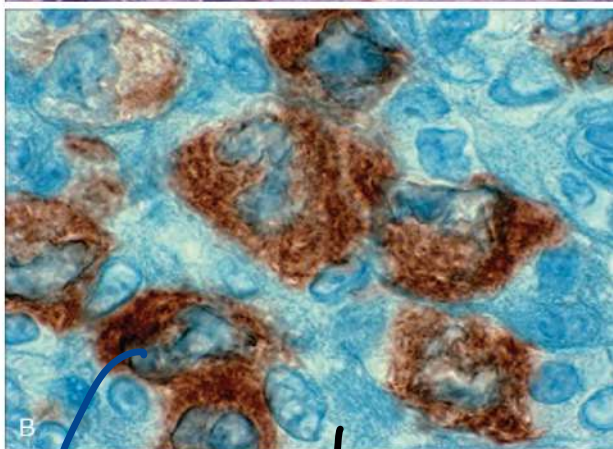
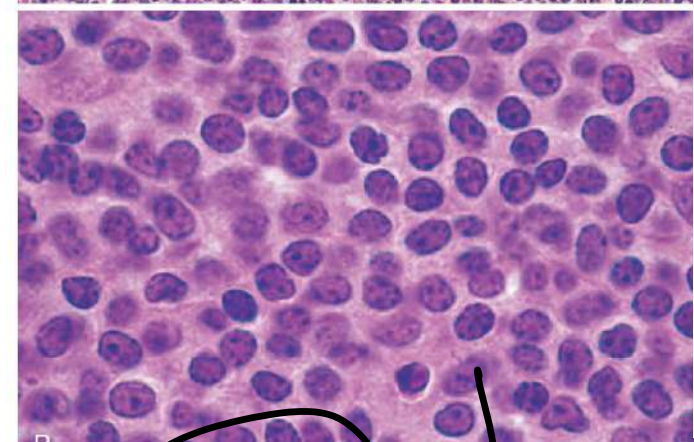
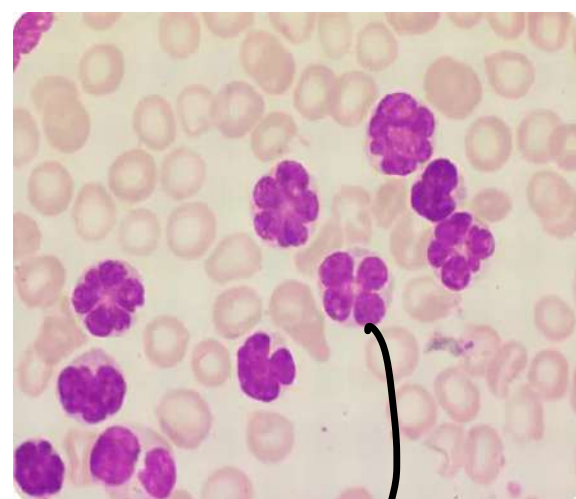
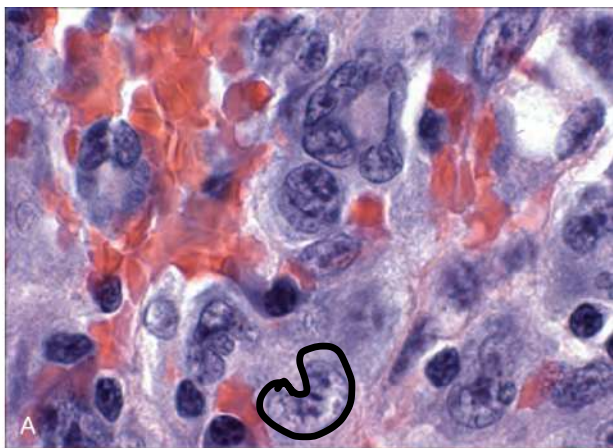
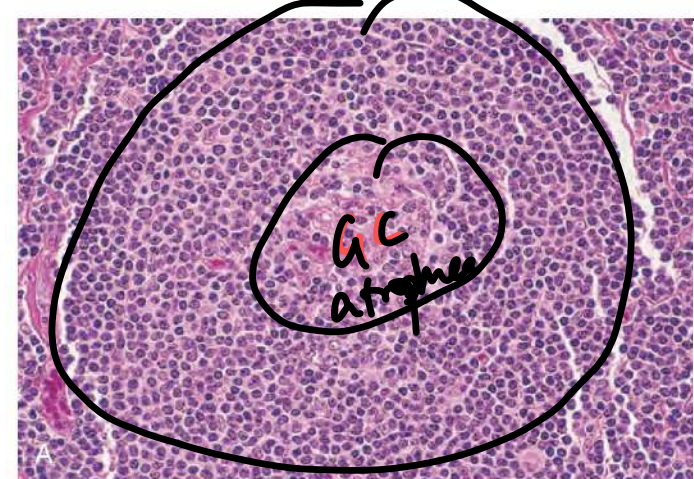


Follicular L  
centrocyte + centroblast <sup>OR</sup>

Party t(14;18)  
BCL-2



Best progn  
poplmm



Mantle cell

one cells

t(11;14)

② Hallmark cell

③ Donut cell

IHC: ALK ⊕

Sezary ⚡

Cerebriform

Cut T cell lymph

mycoses fungoides

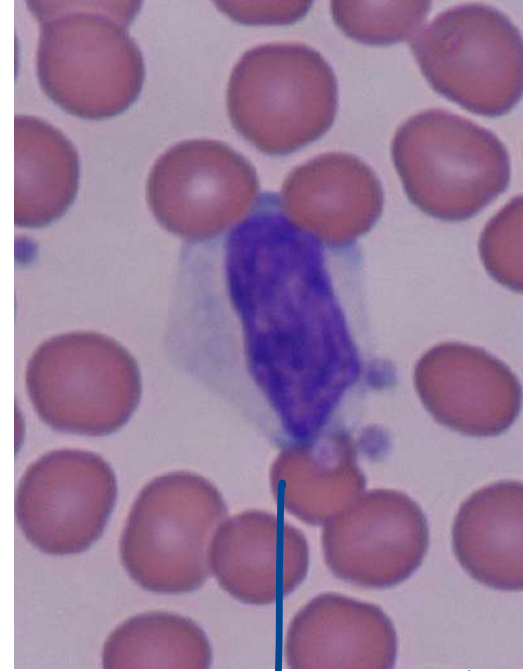
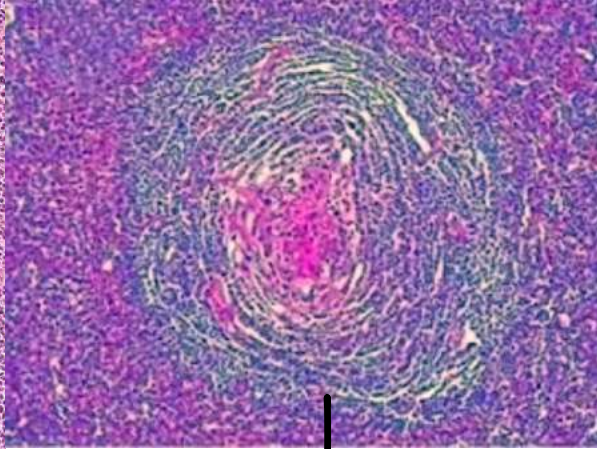
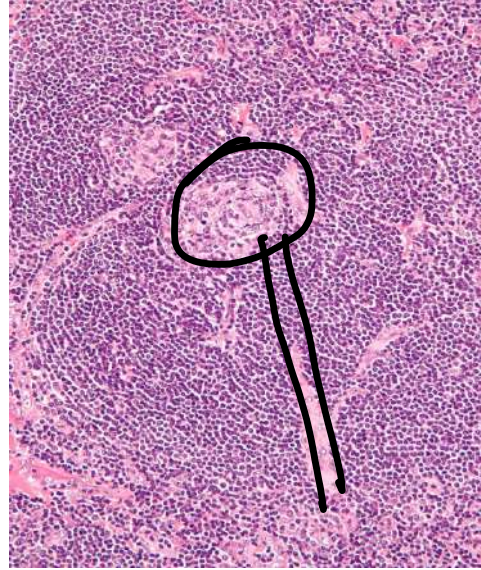
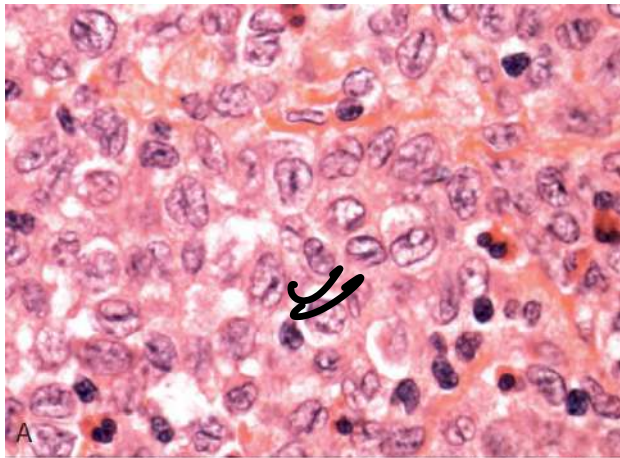
Anaplastic large cell

Party

epidermo-tropism

Pautner's

clover leaf  
HTLV ⊕



QQ

Lollipop

onion skin

Castleman's

- HHV 8 - KS

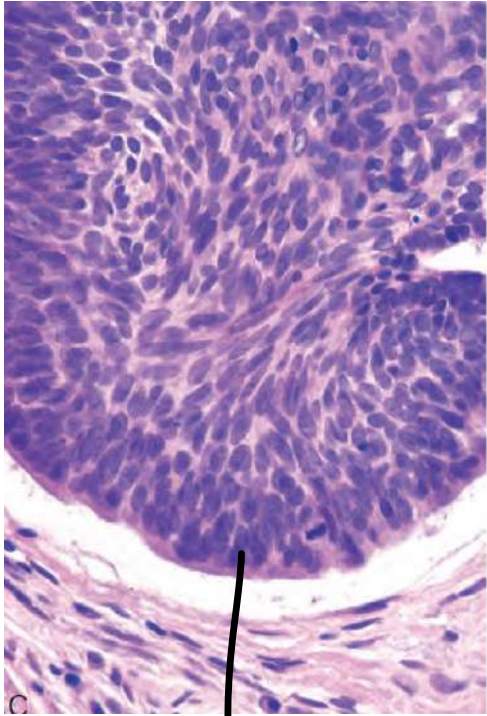
1° effusion lymphoma

Downey T cell CD8  
cells -  
Ballerina skirt  
EBV (CD22) B cells

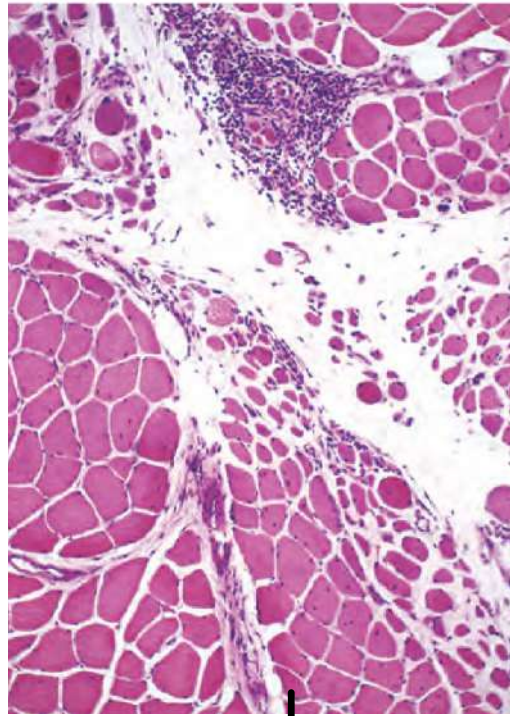
grooved nucleus  
Birbeck granules  
LCM

# MSK/ RHEUMAT/ SKIN

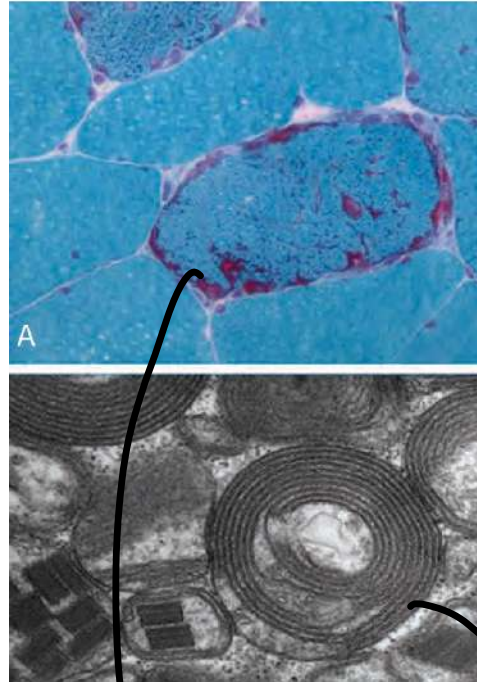
IHC: desmin<sup>sk M</sup> / vimentin



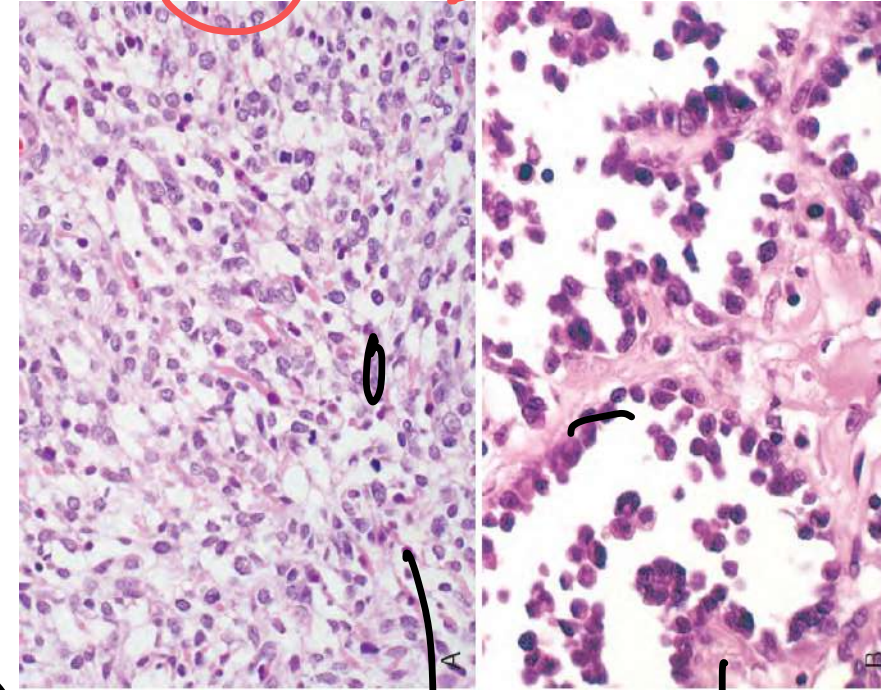
true palisading  
BCC



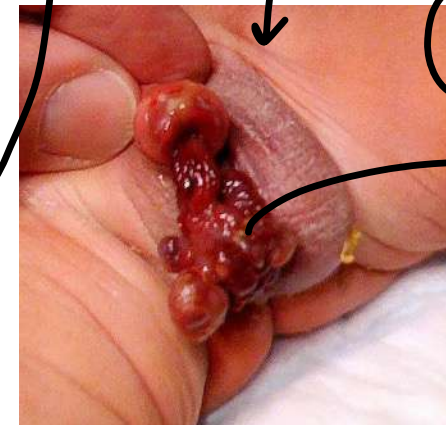
perifascicular atrophy  
DM

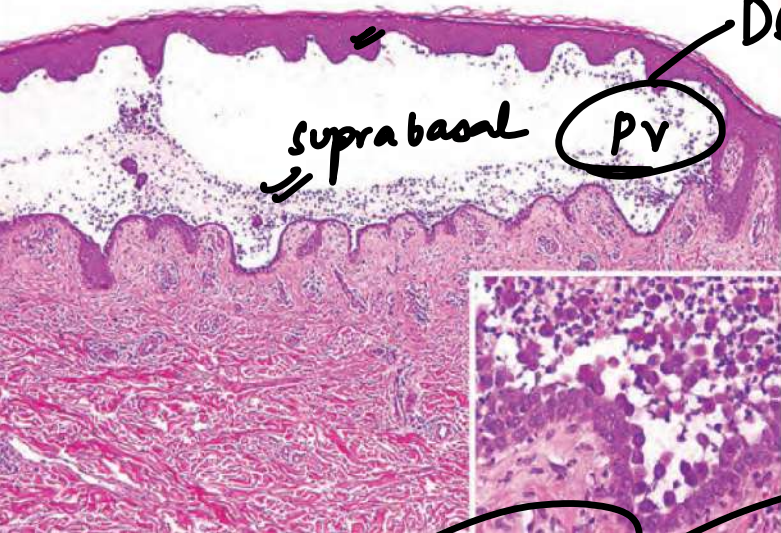


Ragged red  
mitochondrial  
MERFS / MERF  
phonographic record



Embryonal  
sarcoma  
Alveolar RMS  
tennis racket  
Sarcoma botryoides  
RMS

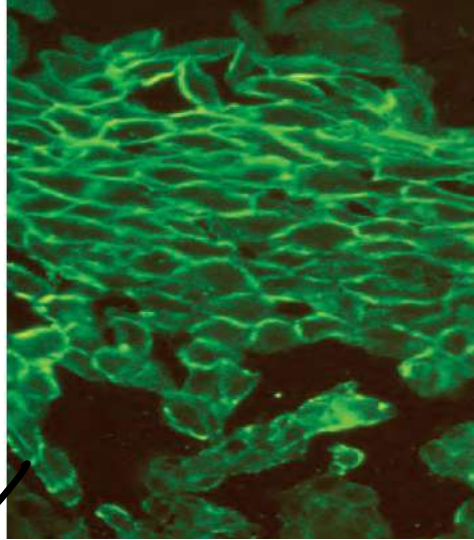




suprabasal  
PV  
Dsg-3



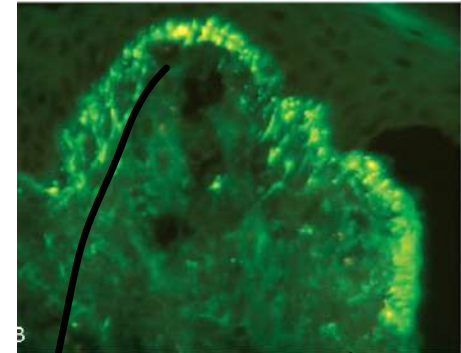
Dsg-3



Fish net



DH



granular  
picket fence

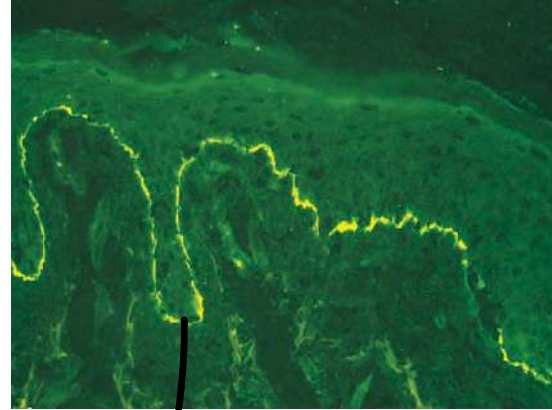
papillary tip  
matrices



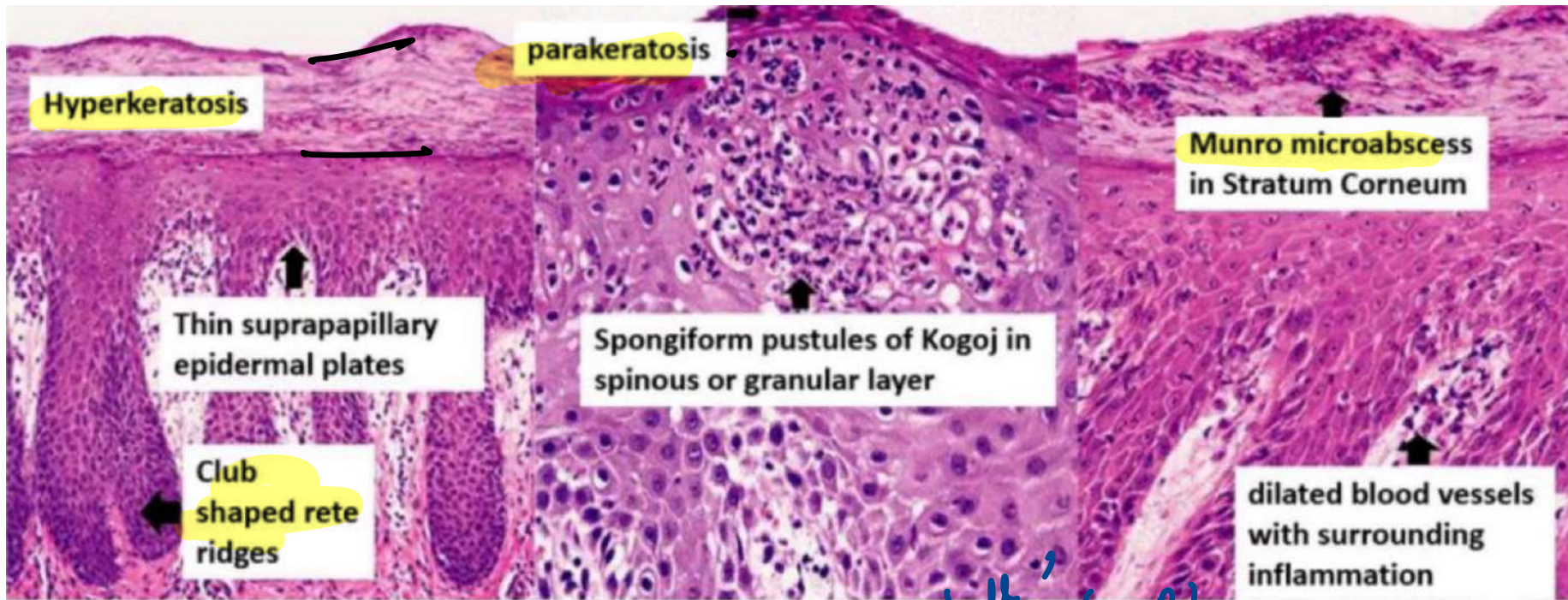
p. foliaceous  
Dsg-1

subcorneal split

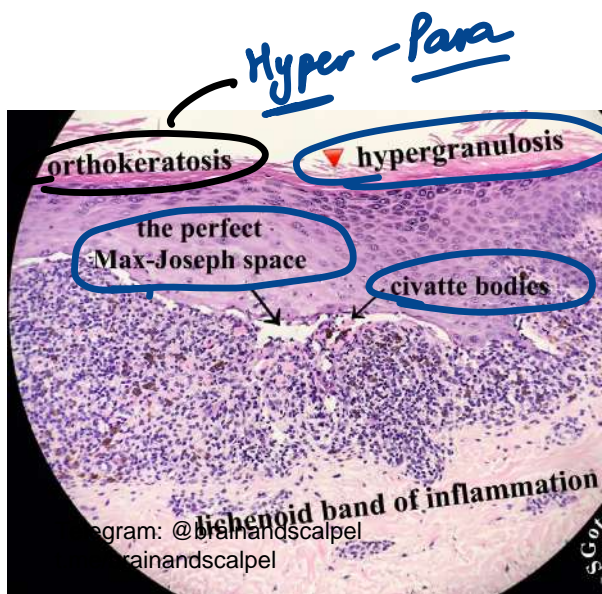
oral



BP

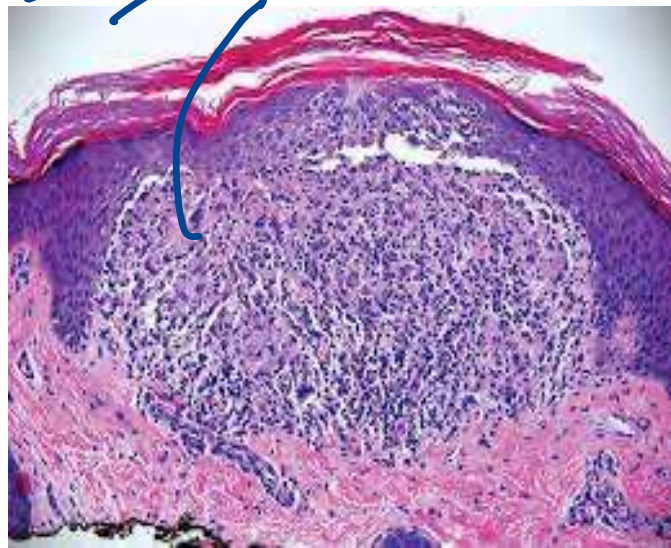


← Psoriasis

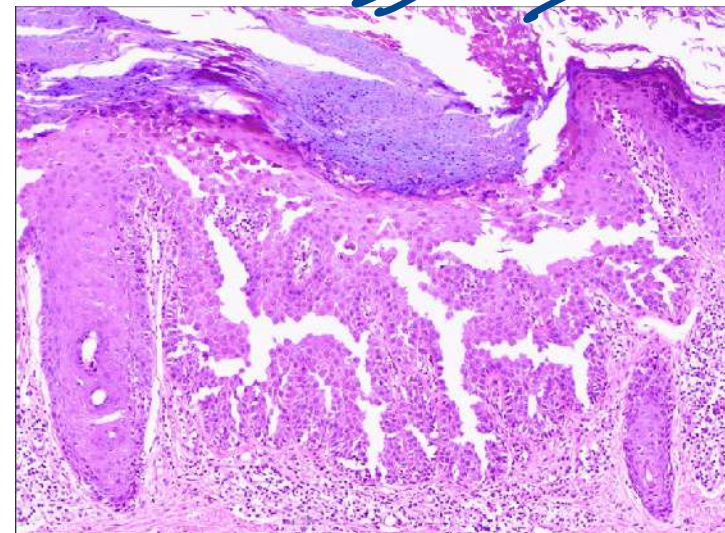


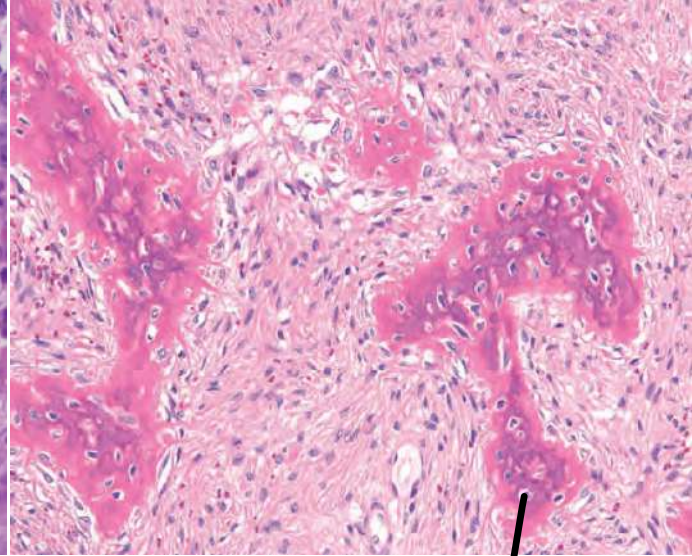
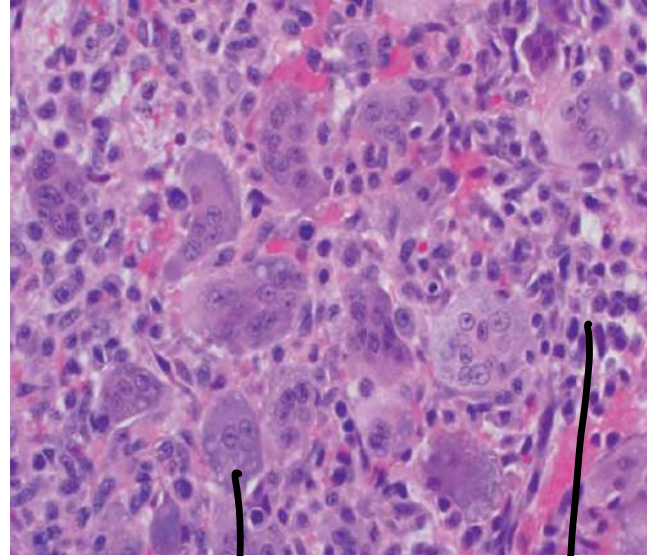
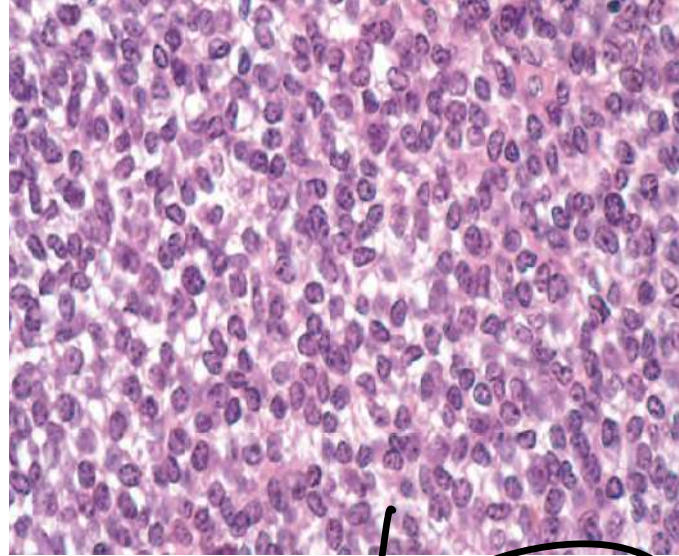
LP

claw clutching balls  
Lichen nitidus



Hailey Hailey  
dilated back wall  
ATP 1





↓  
Osteosarcoma

Brachy gene

HW  
Pseudo R

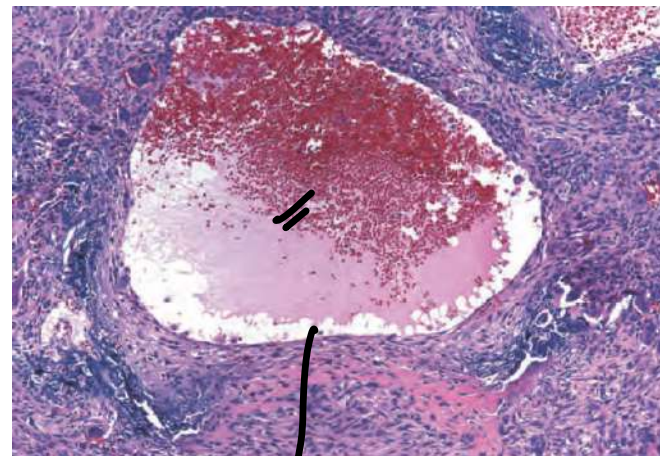
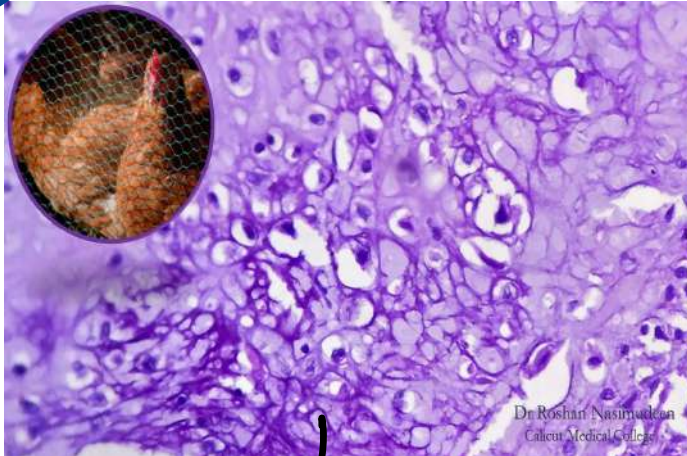
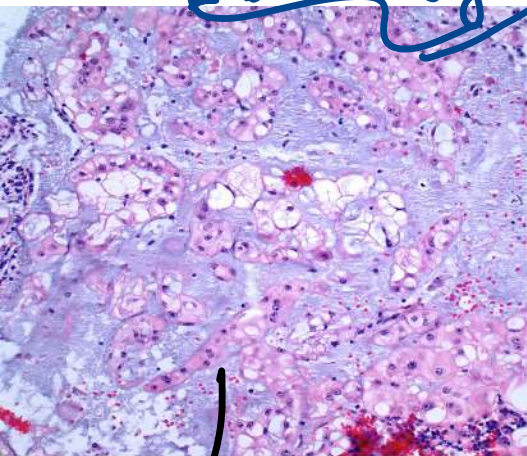
ES

GCT

mononuclear  
matrix

chinese  
letter

FD



Physaliferous:

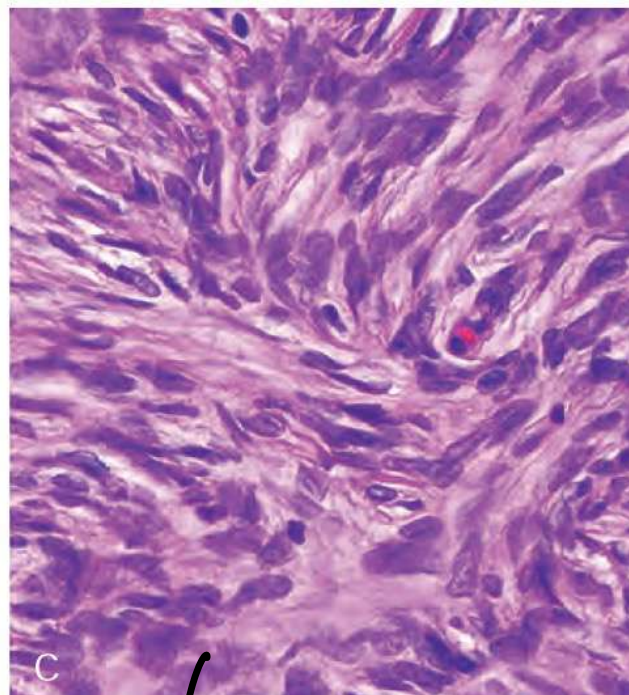
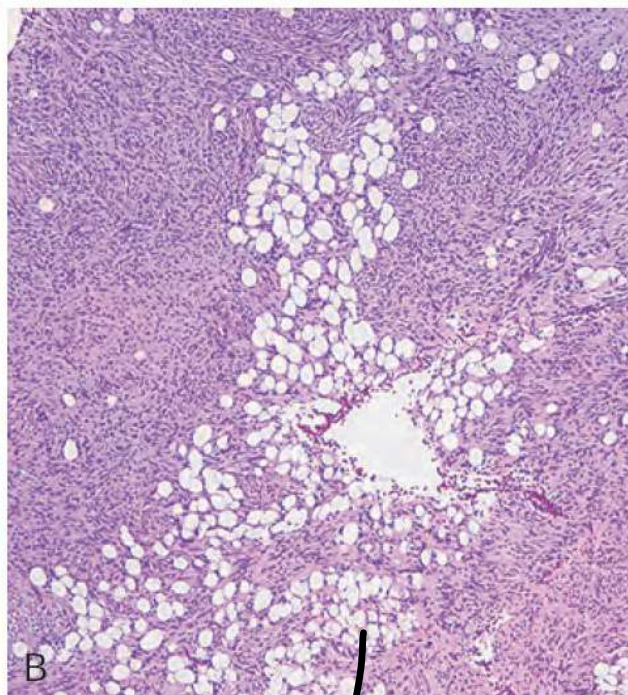
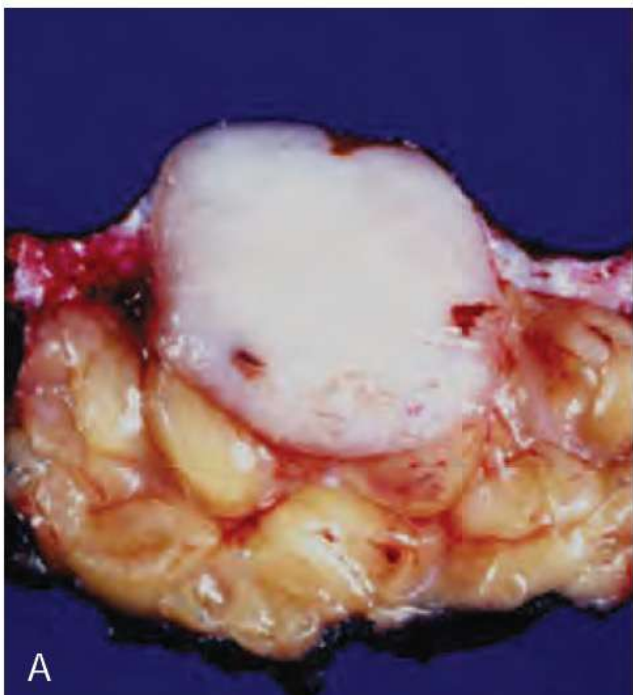
telegram: @brainandscalpel  
t.me/brainandscalpel

Chordoma

Chicken wire  $Ca^{2+}$   
Chondroblastoma

ABC

GCT  
ABC



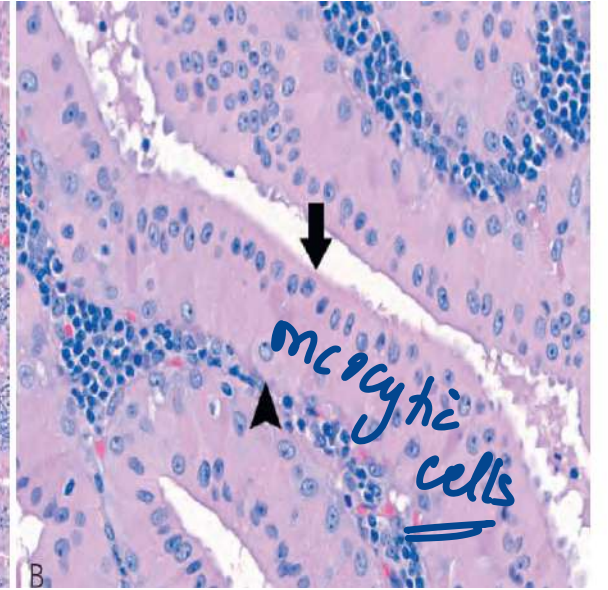
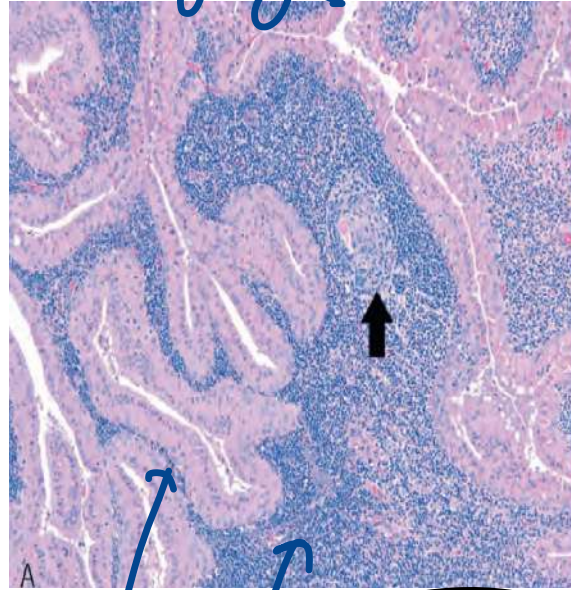
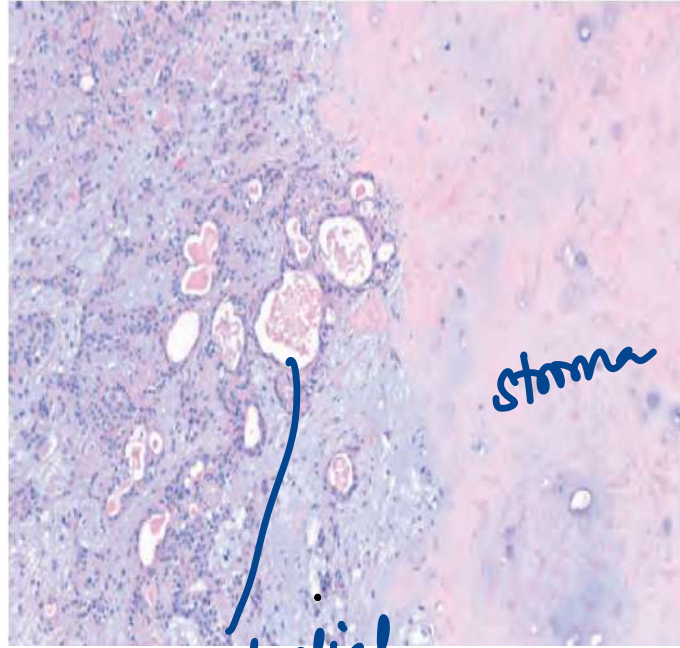
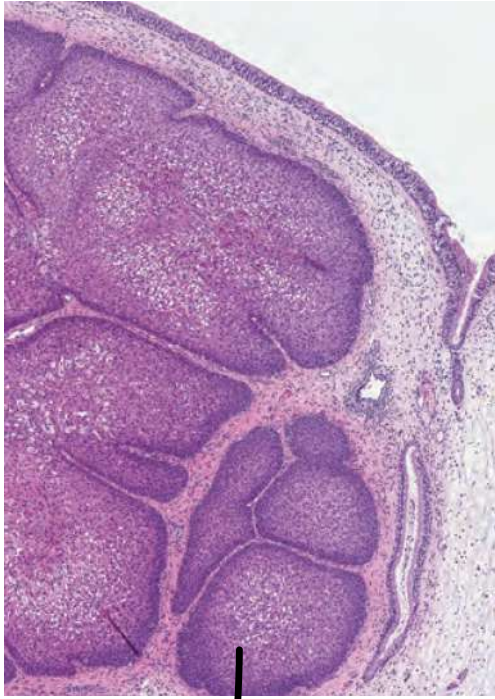
DFSP

Swiss cheese

Storiform spindle  
cell



# HEAD AND NECK



Salivary gland

stroma

epithelial

oncocytic cells

Cerebriform

pleomorphic adenoma

Warthin T =

Papillary

Sinker →

cystadenolymphoma

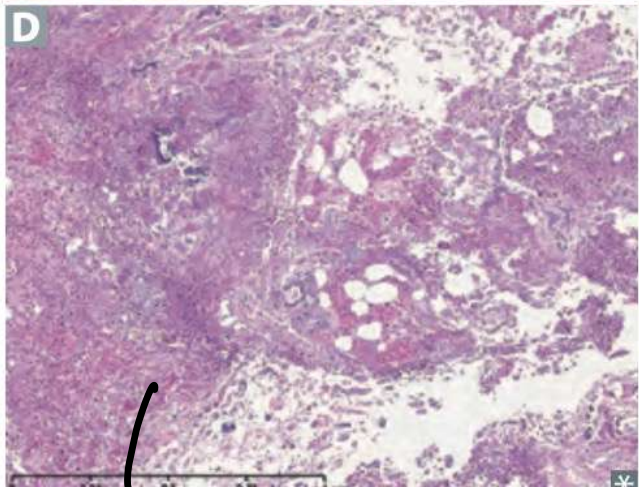
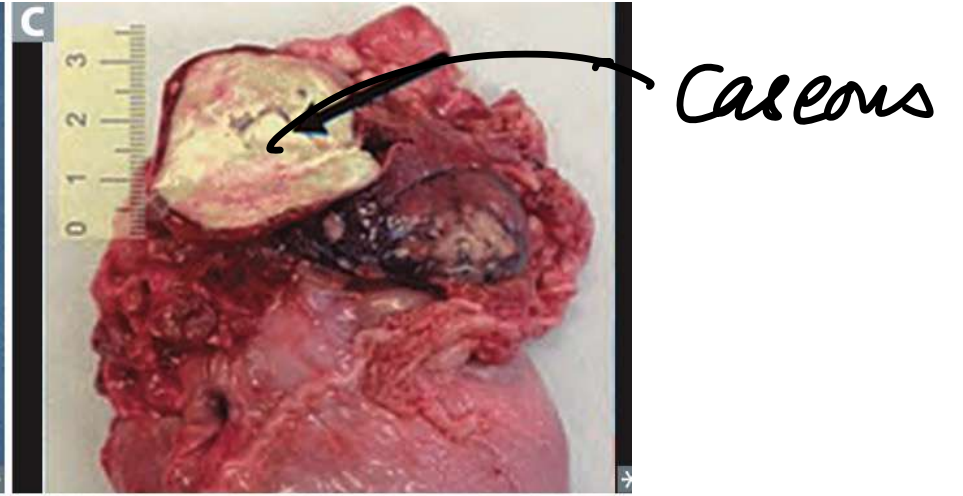
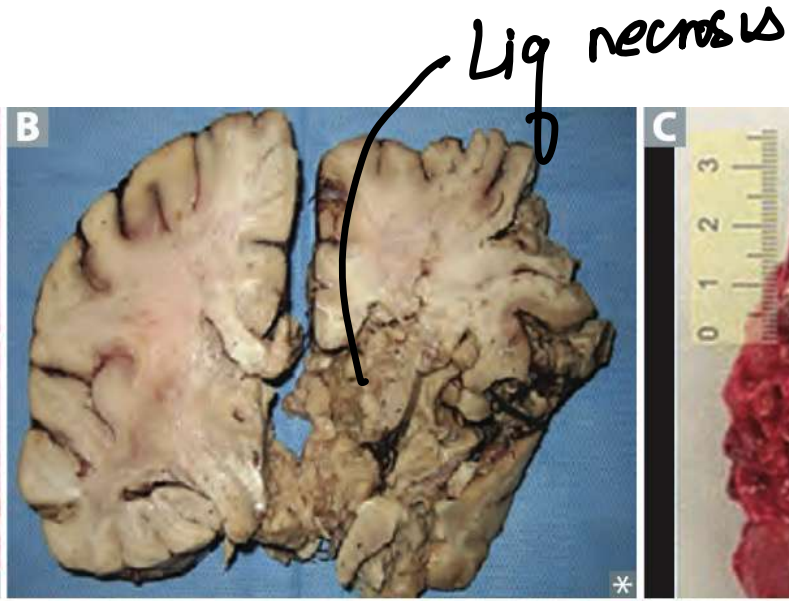
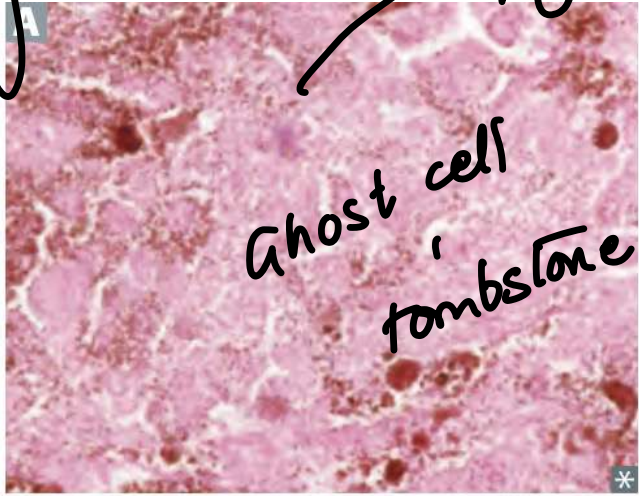
inv papilloma

perineural

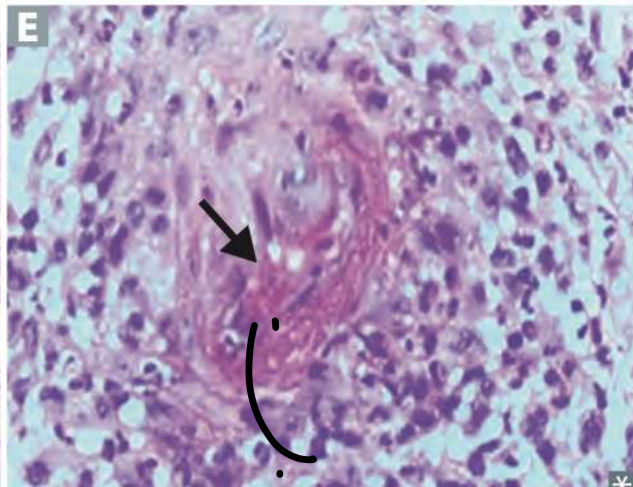
adenoid cystic ca

# GENERAL PATHOLOGY

Coag necrosis  
empty



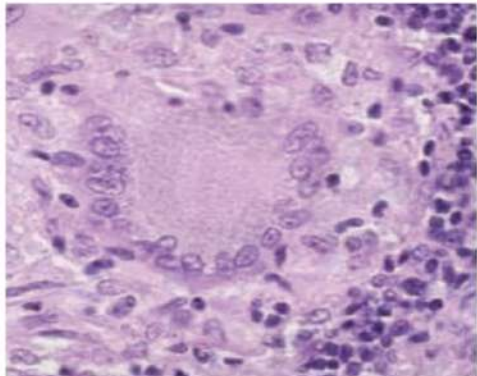
fat necrosis



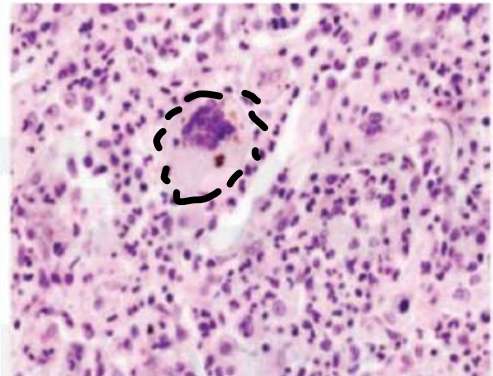
fibrinoid necrosis



Gangrene



Langerhans

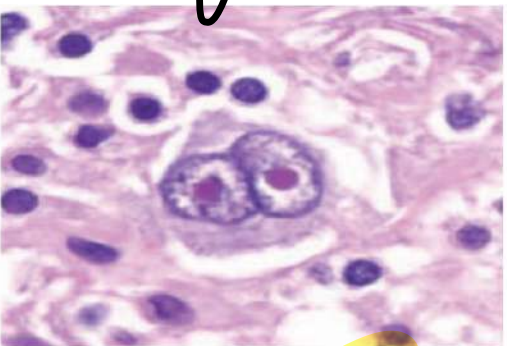
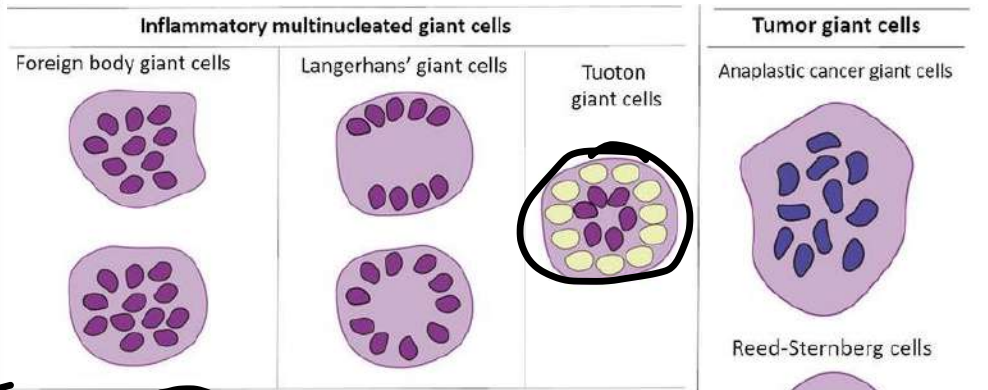


FB GC

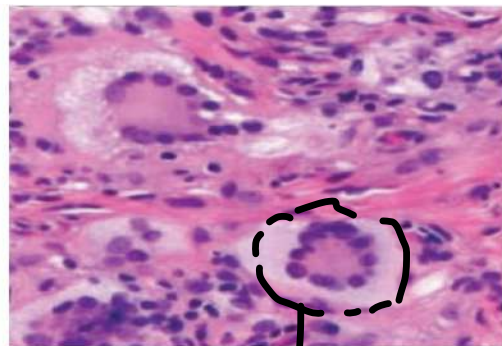


IN + IC

Warthin  
Finkeldey

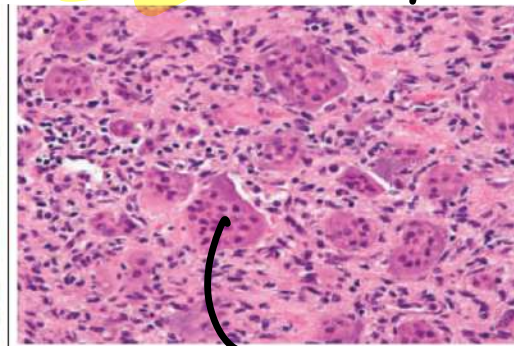


R-S



Touton GC

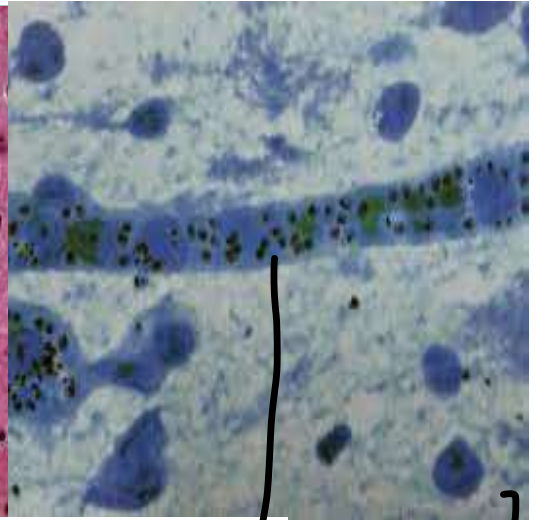
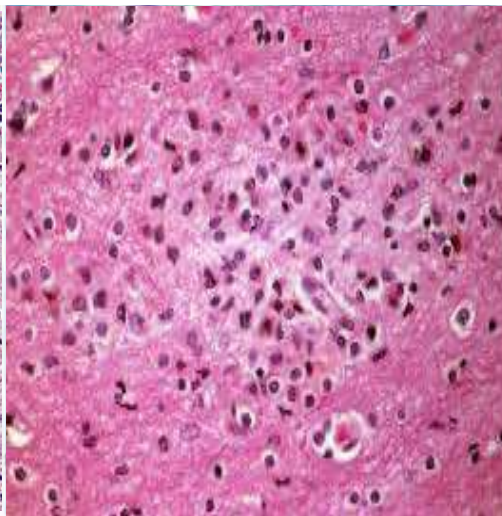
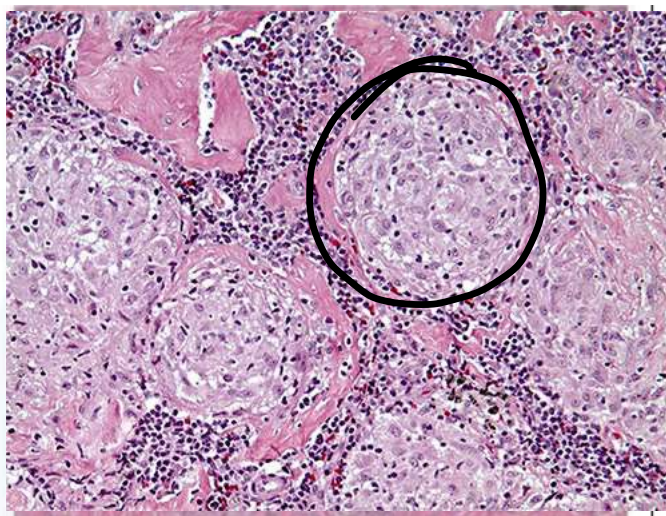
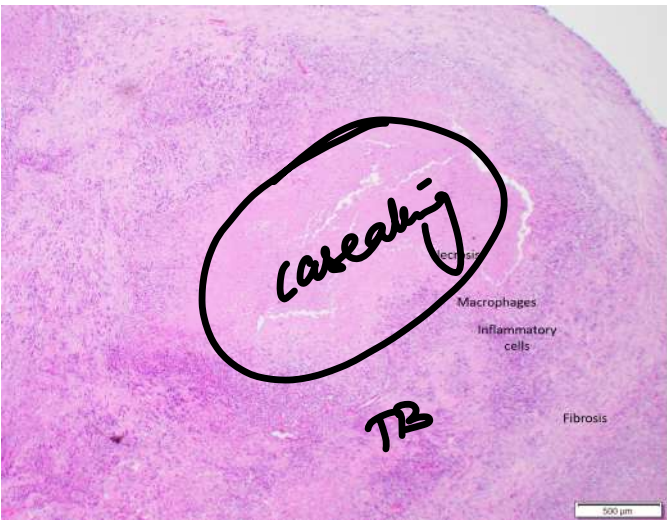
xanthoma



GCT

Measles





NC - sarcoid / CD

naked  
lymphocytic  
collar  
absent

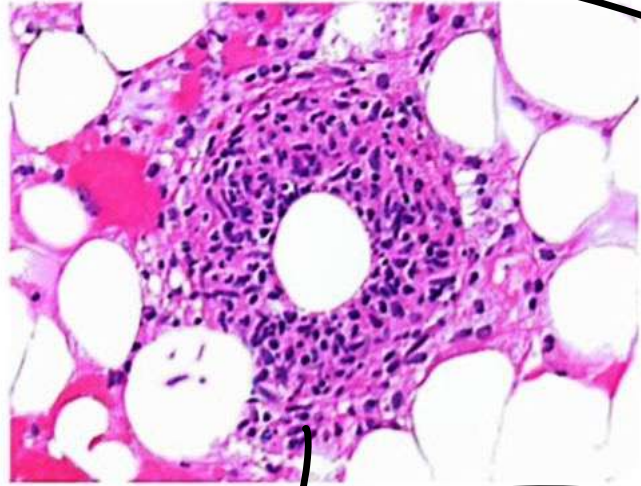
Field stain

malaria

Dark  
granuloma



Stellate

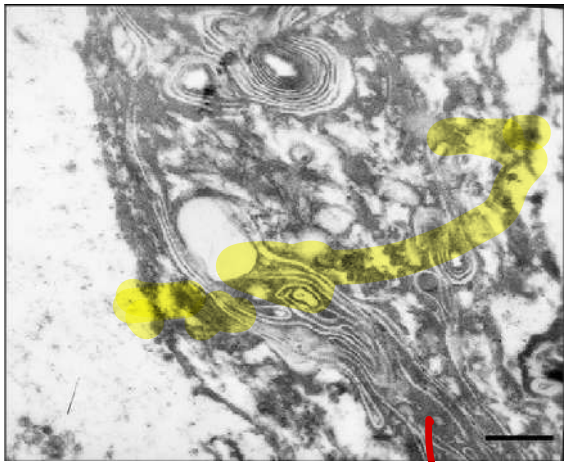


Donut granuloma

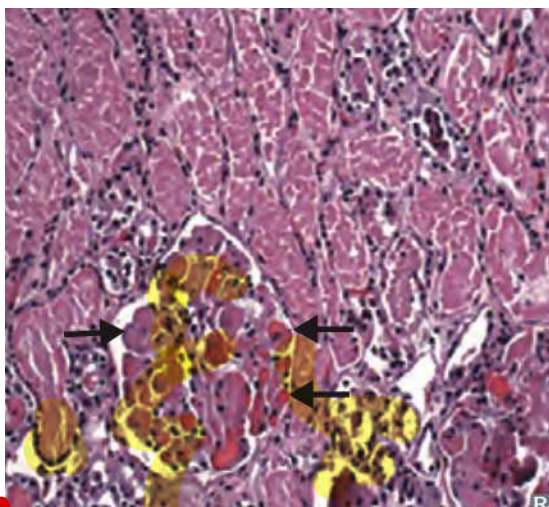
& fever  
Coxiella

Allopuricil

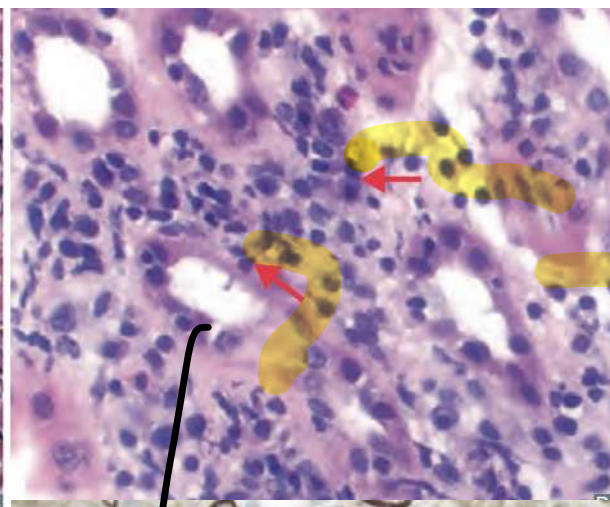
Cat Scratch



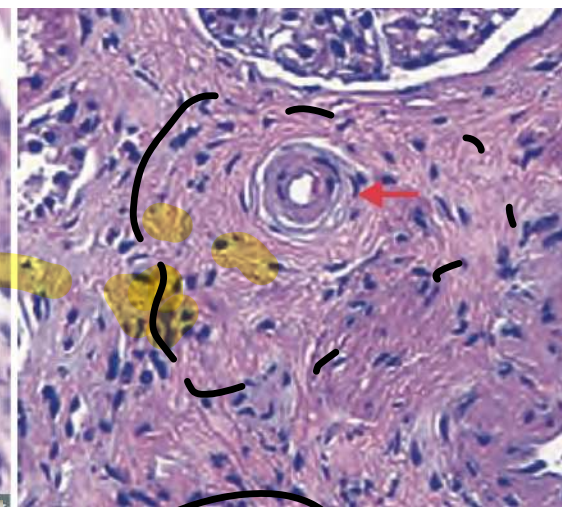
myelin figures  
R/IR



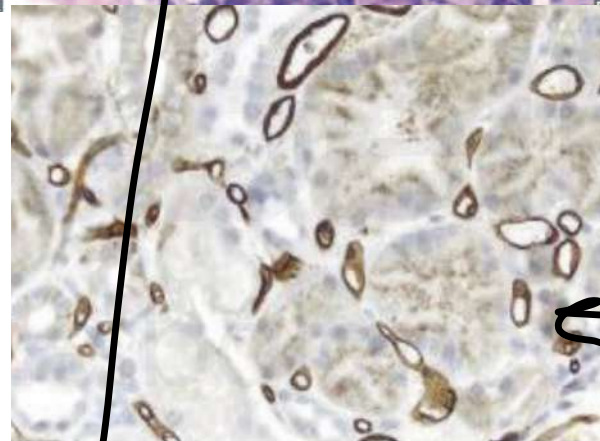
Hyperacute  
fibrinoid  
necrosis



tubulitis

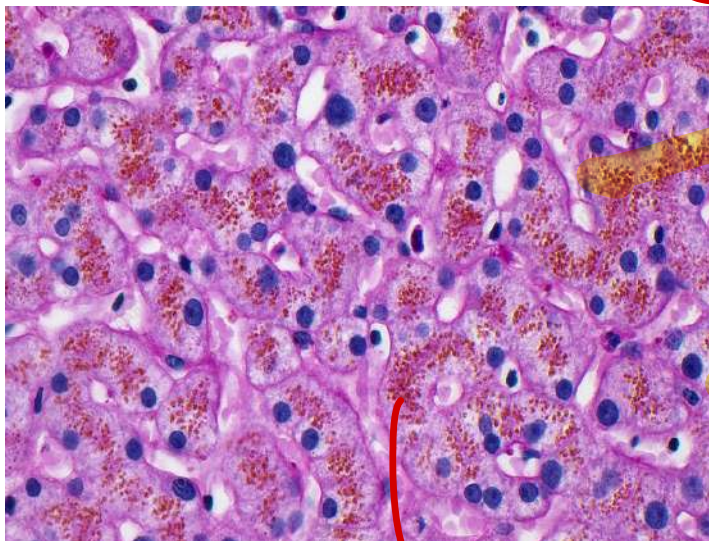


Chr  
- interst fibrosis  
- tubular atrophy  
- GBM  
duplication



Acute - Humoral

QR  
C4d



hyaline casts

