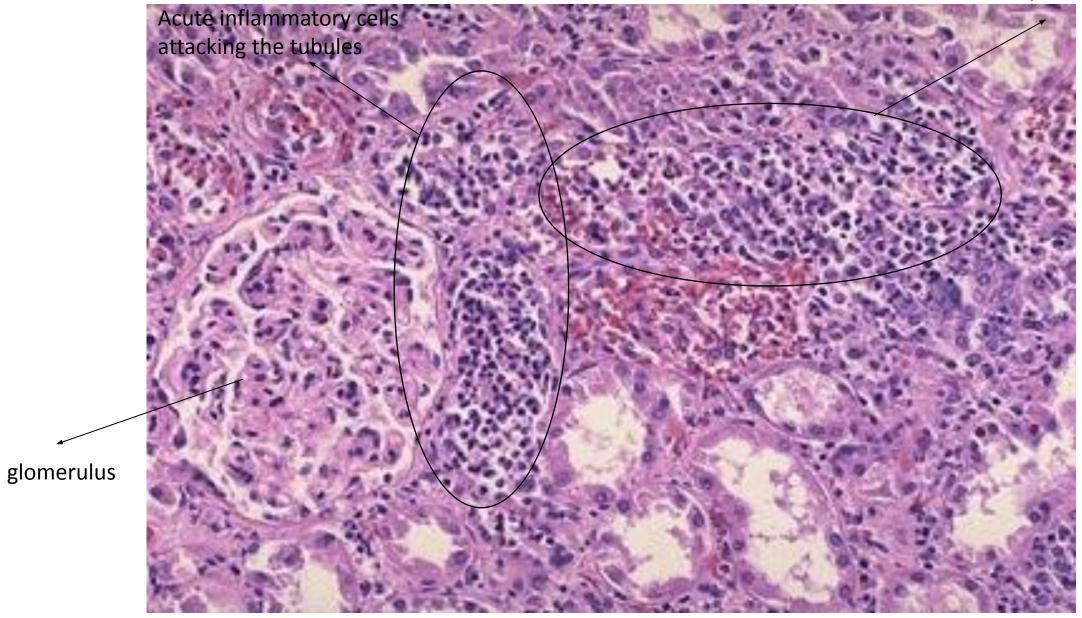
Acute inflammatory cells in interstitium



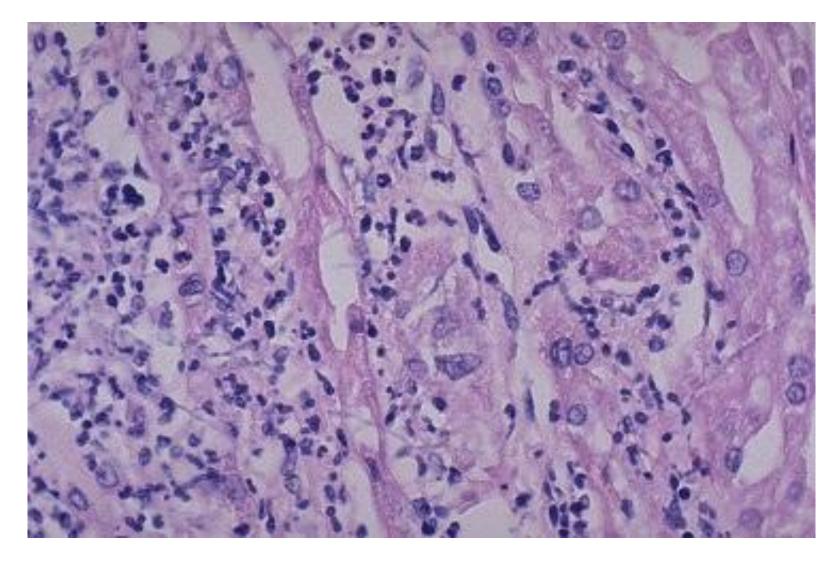
Acute pyelonephritis

Acute inflammatory cells attacking the tubule

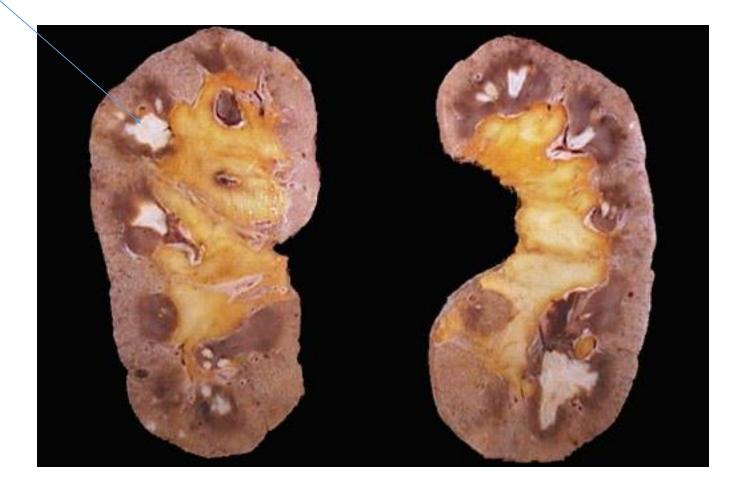


Acute pyelonephritis

Acute inflammatory cells in interstitium

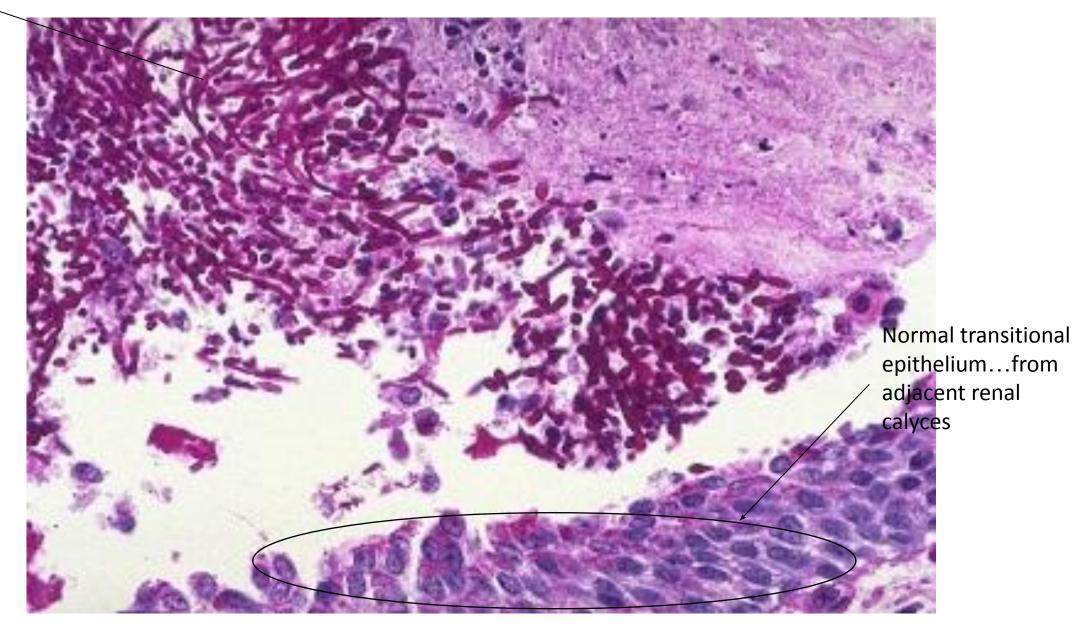


Necrotizing papillitis (papillary necrosis)...a special pattern of acute pyelonephritis especially in diabetics

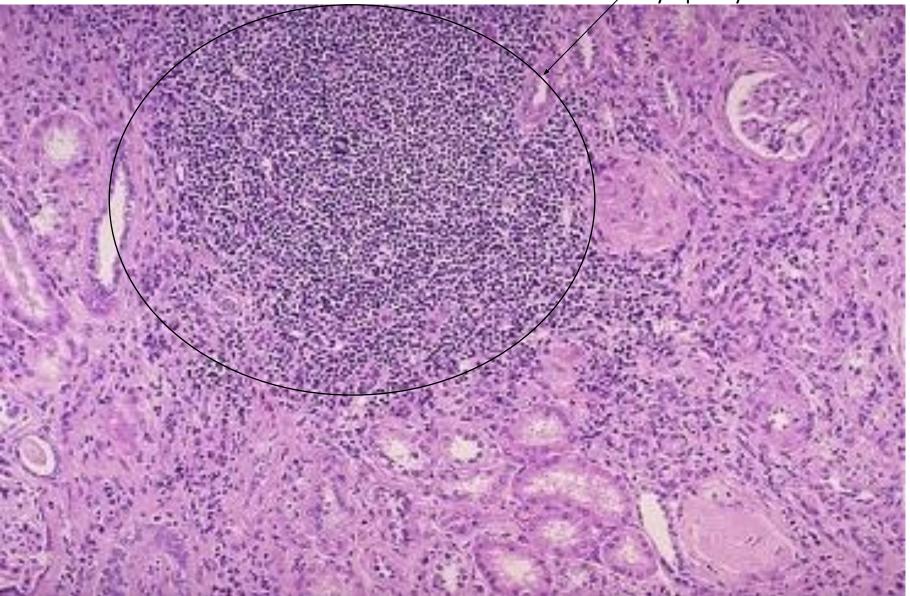


Candida as highlighted by PAS stain

Pyelonephritis due to candida

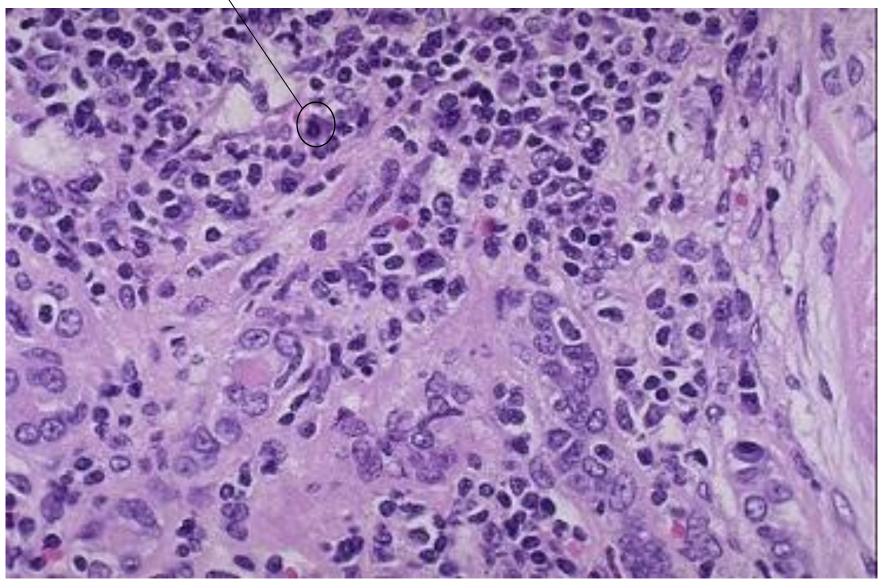


Chronic pyelonephritis (as you see lymphocytes in interstitium)



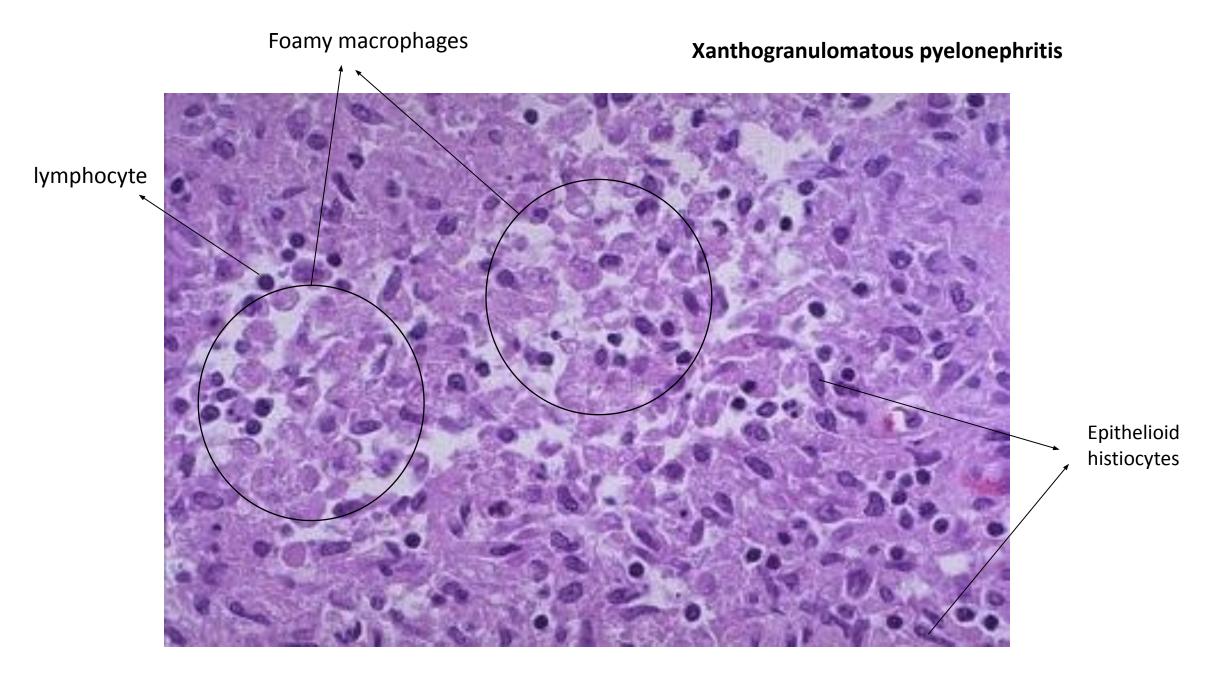
Plasma cell

Chronic pyelonephritis (as you see lymphocytes, plasma cells & few eosinophils in interstitium)

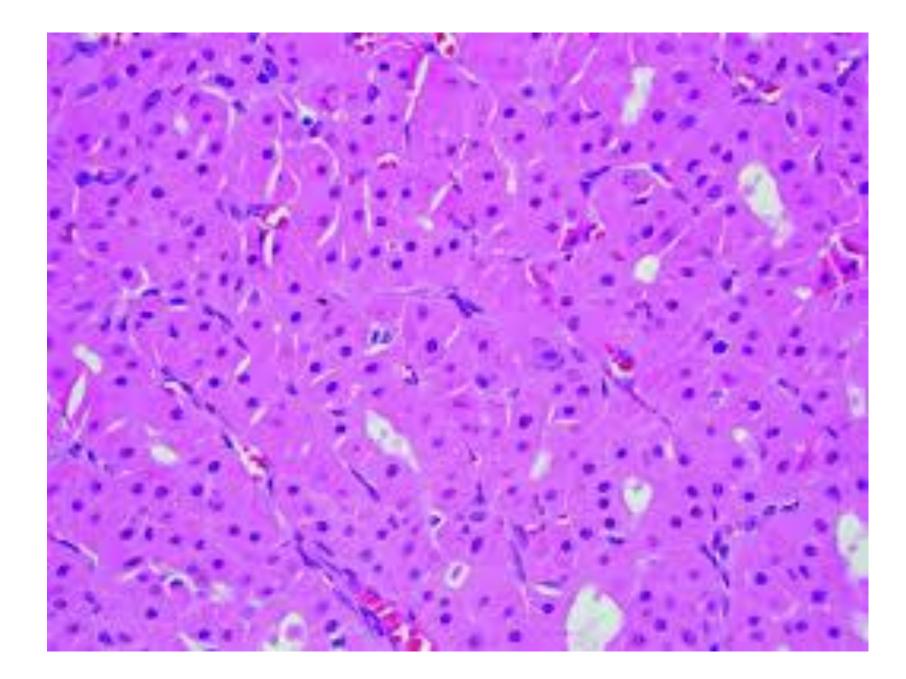


Xanthogranulomatous pyelonephritis (a complication of long standing chronic pyelonephritis)...as you see it may appear as a suspicious mass



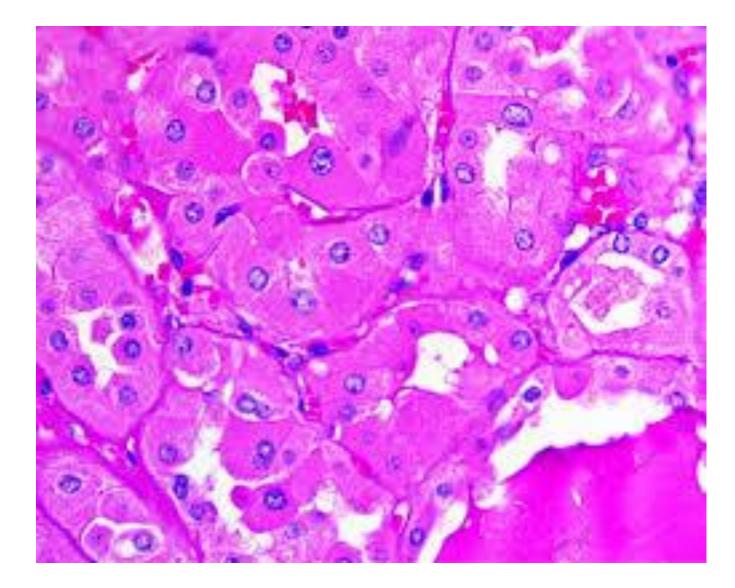


Renal oncocytoma.. Bland nuclei and bulky fine granular eosinophilic cytoplasm

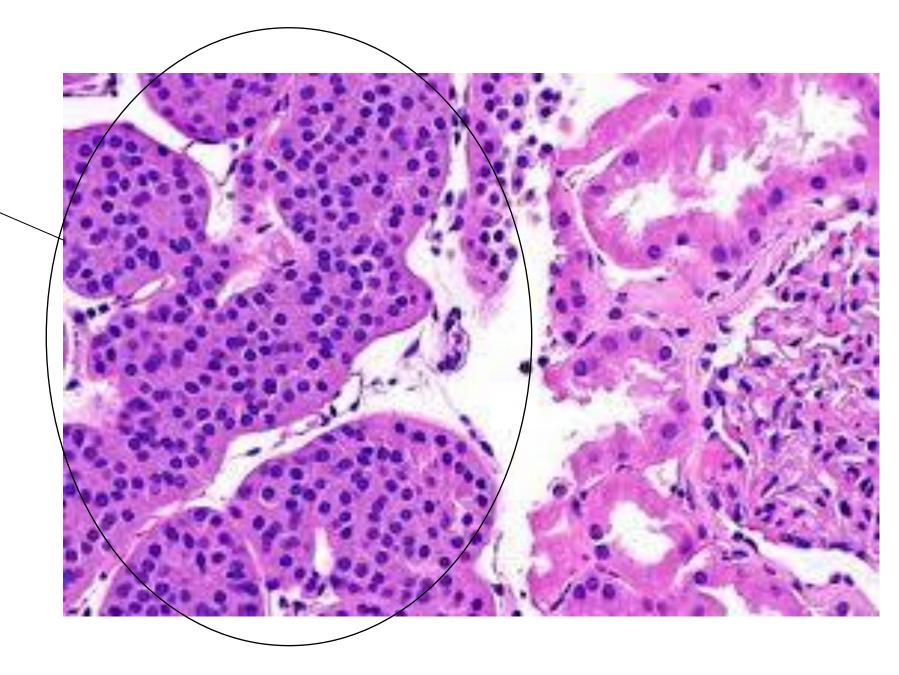


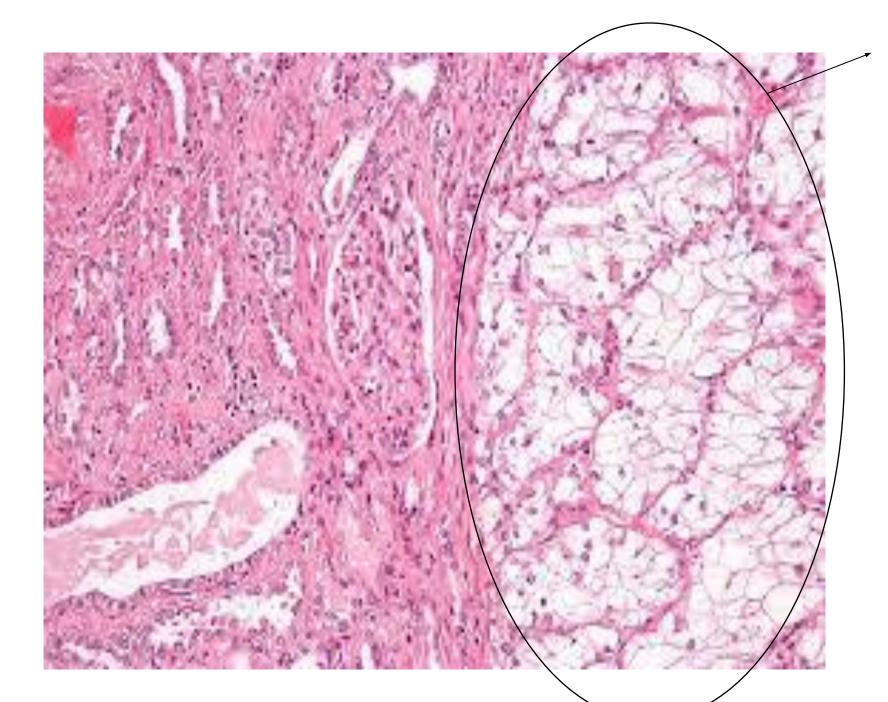
Renal oncocytoma..

Bland nuclei and bulky fine granular eosinophilic cytoplasm



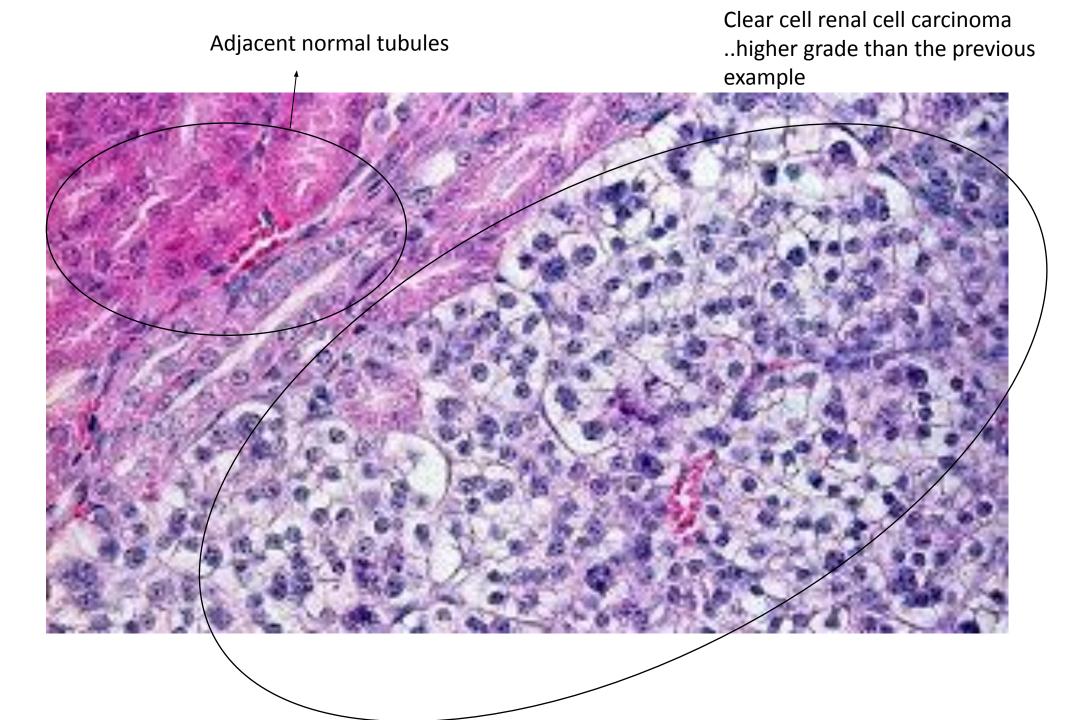
Renal oncocytoma.. Bland nuclei and bulky fine granular eosinophilic cytoplasm

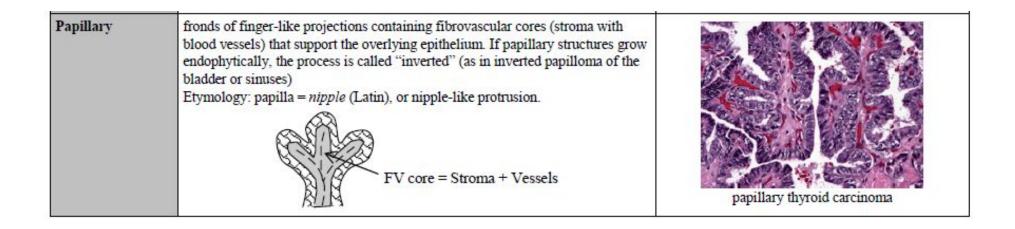


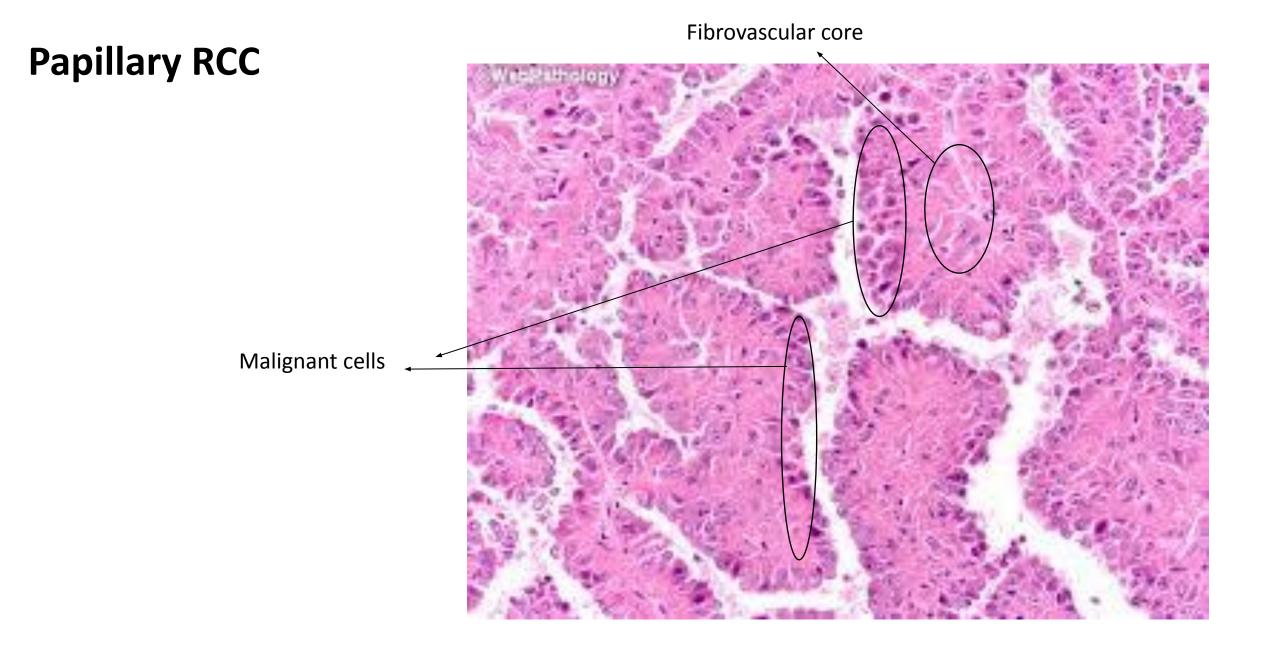


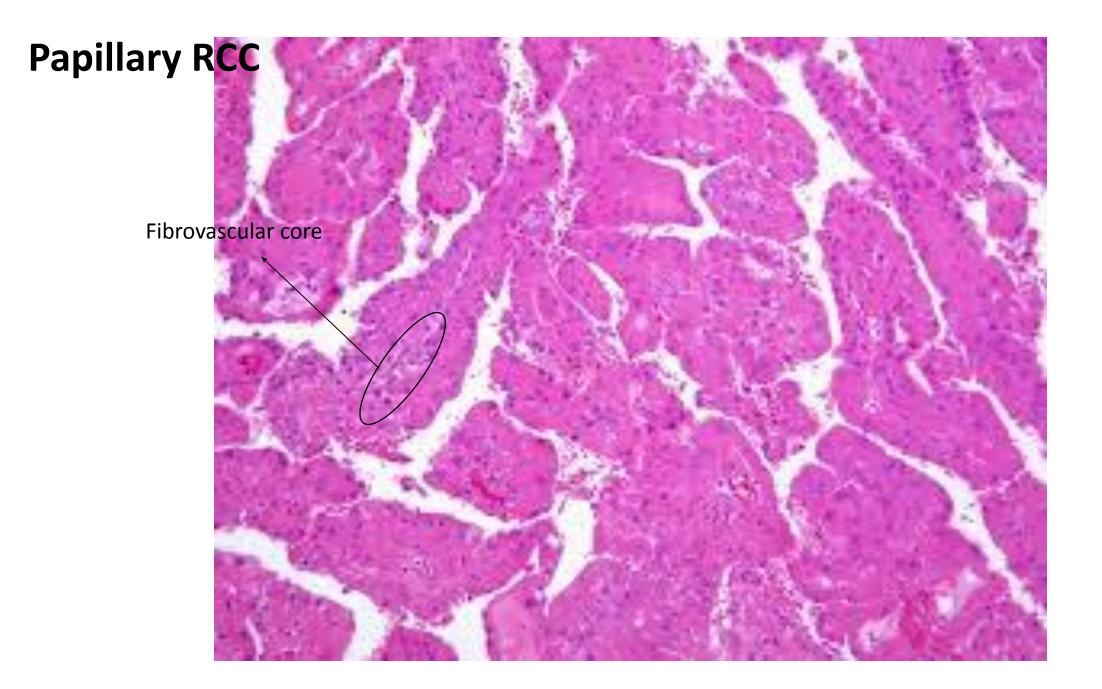
Clear cell renal cell carcinoma ...clear cytoplasm due to fat & glycogen

...the nuclei in this example are low grade (we have Fuhrman grading for renal cell carcinoma especially used for clear cell and papillary types)



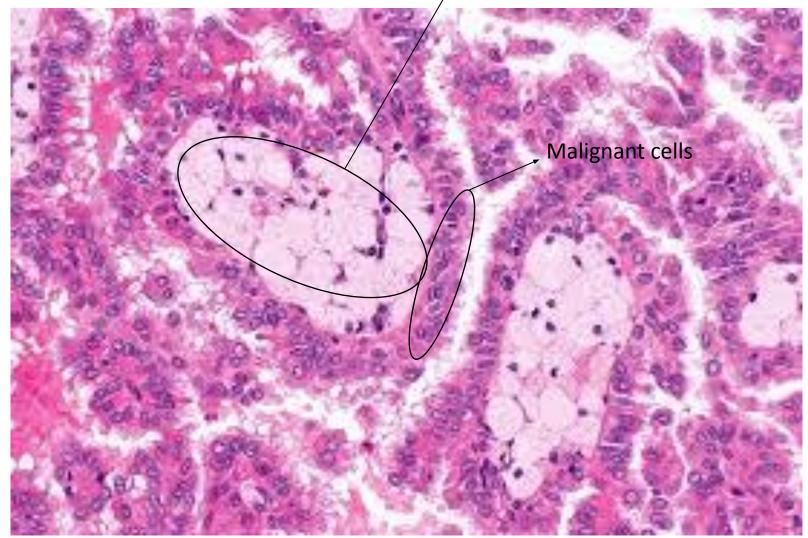




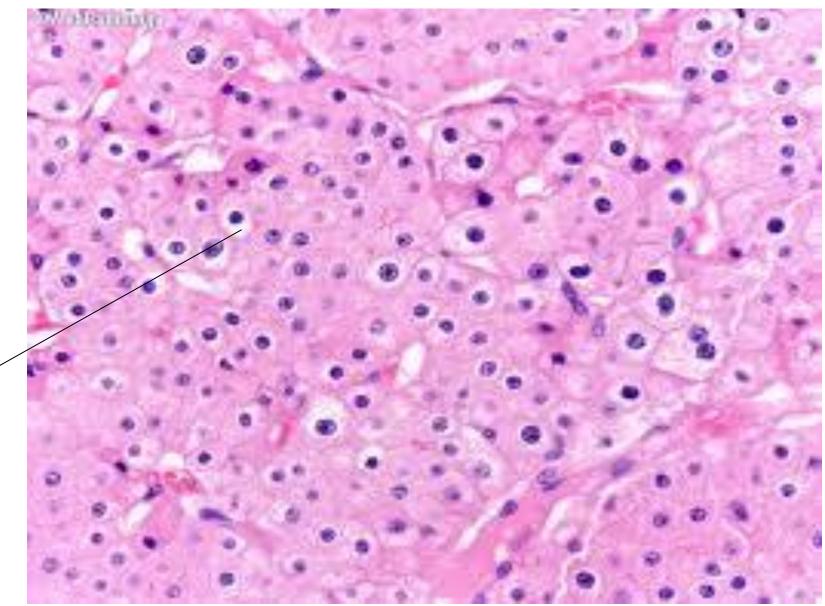


Papillary RCC

The core here is filled with foamy macrophages and this is common to occur in papillary RCC

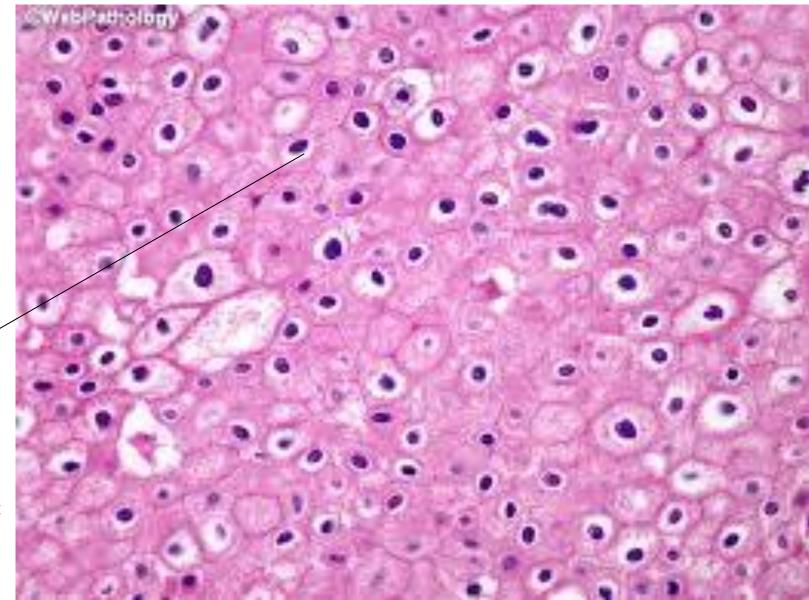


Chromophobe RCC



Perinuclear halo is characteristicthe nuclei are atypical (hyperchromatic with irregular nuclear contours)

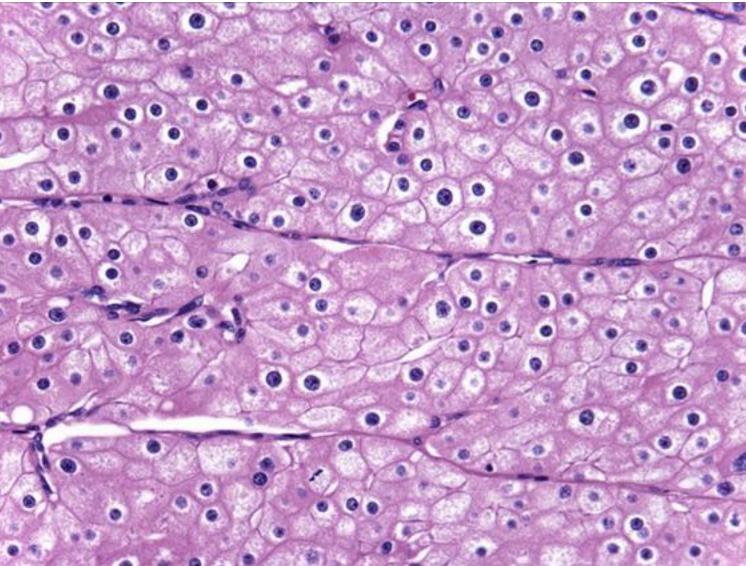
Chromophobe RCC



Perinuclear halo is characteristic

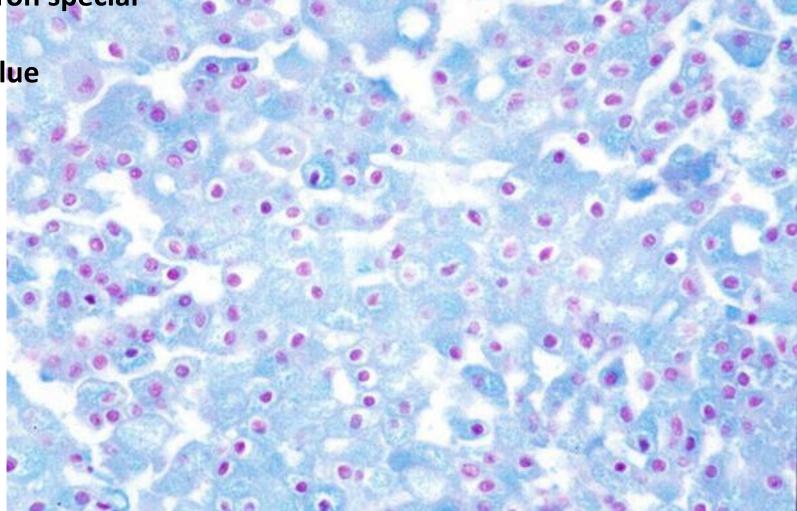
...the nuclei are atypical (hyperchromatic with irregular nuclear contours) Same notes as The previous 2 examples

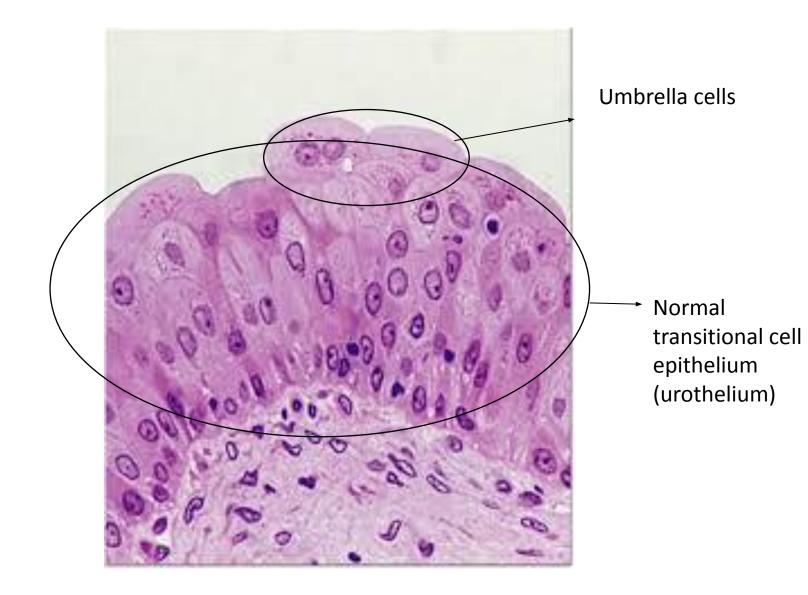
Chromophobe RCC



Chromophobe RCC

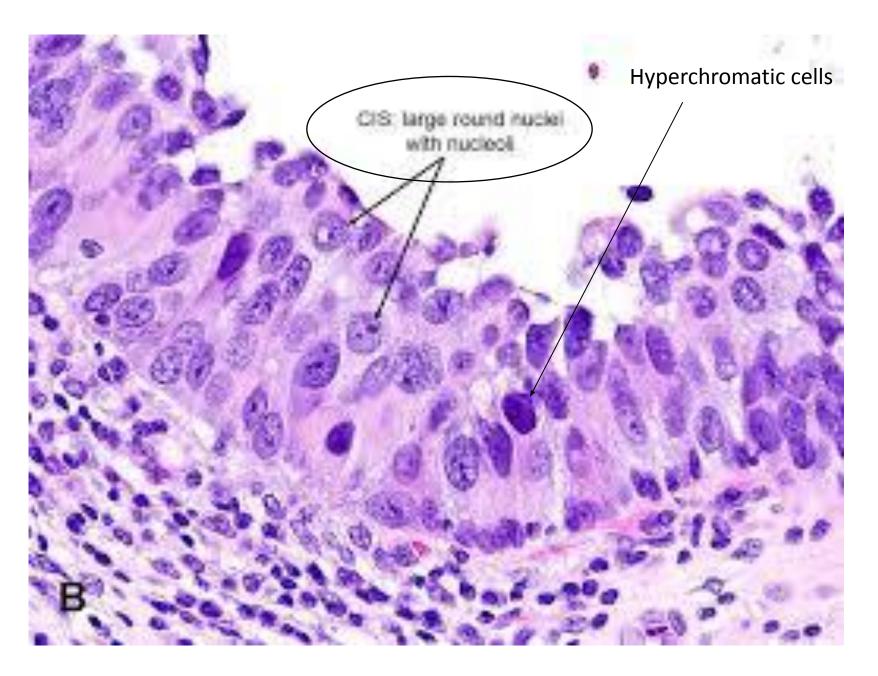
Hale's colloidal iron special stain.. It stains mucin blue





Urothelial carcinoma in situ: enlarged nuclei, pleomorphism, hyperchromasia, prominent nucleoli & mitoses...

Cells with these features are seen in the urothelium without BM disruption



Urothelial carcinoma

in situ: enlarged
nuclei,
pleomorphism,
hyperchromasia,
prominent nucleoli &
mitoses...
Cells with these
features are seen in

the urothelium

without BM

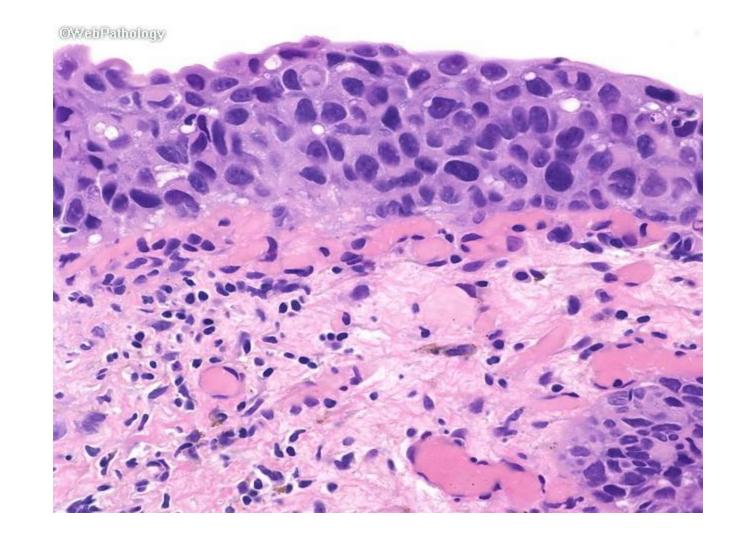
disruption

CIS: large dark irregular overlapping nuclei

Urothelial carcinoma

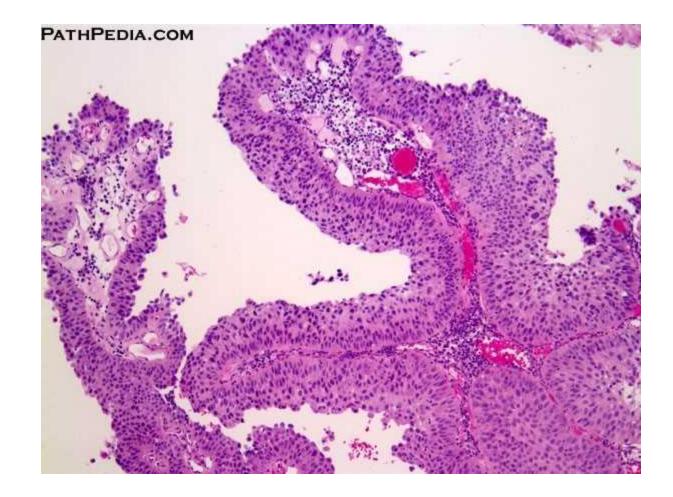
in situ: enlarged
nuclei,
pleomorphism,
hyperchromasia,
prominent nucleoli &
mitoses...
Cells with these

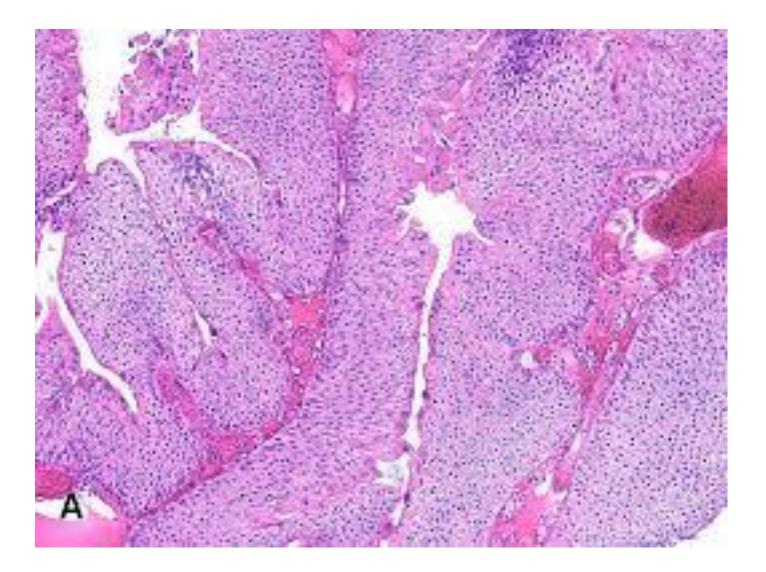
features are seen in the urothelium without BM disruption



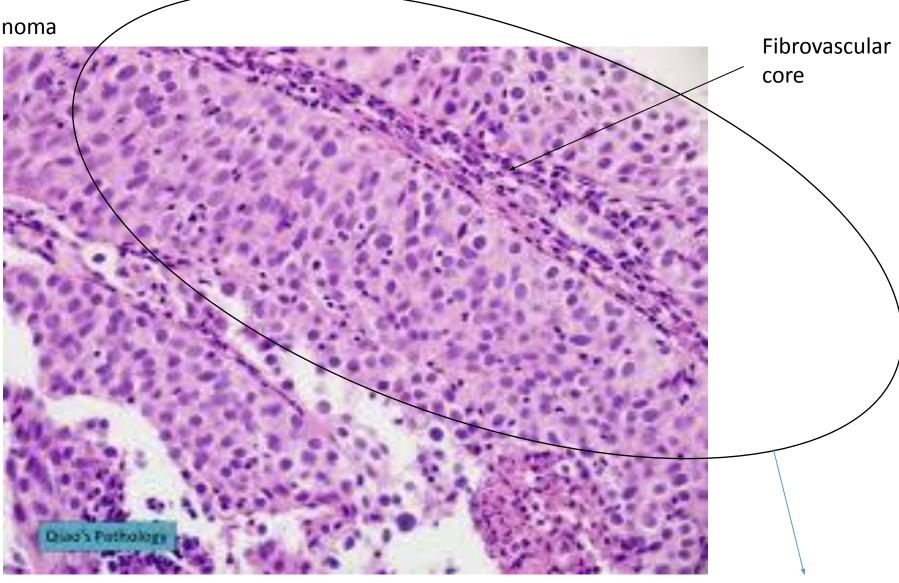
Papillary urothelial carcinoma







Papillary urothelial carcinoma



A large papilla Thank You