Nephritic Nephritic					
	Cause	In Microscope	Related	Clinical	reneral
ADPGN	*POST STREPTOCOCCAL CN'  presents 1 - Aweeks after a strep infection of throat or skin.  Immune complex disease/ circulating or implanted Ag or both.  Implicated Ag streptococcal exotoxin B (Spe B) and streptococcal dyseraldehydie-S- phosphate dehydrogenase (GAPDH) affinity for glomerular proteins and plasmin	LM: increased cellularity.  (1) Diffuse proliferation & swelling of endoffield. & meanipal cells.  (2) refittrating neutrophis & monocytes.  EM: shows deposited immune complexes as subepithelial "humps"  F: scattered granular deposits of IgG& complement within the capillary walls & Mesangium.	Usually in children (6 - 10 years) Prognosischildren >95% recovery ,1% RPGN,2% CRF -Adults 15-50% develop ESRD	Most commonly present as acute nephritic syndrome  Fever_nausea_gross hematuria,&mild proteinuria  Urine red cell casts  -ASO ther hornesse -Decrease in serum complement	
IgA-N	Commonest type of GN Usually 1 to 2 days after URTI Genetic or acquired abnormality leading to increase (sA synthesis by mucocal surfaces after antigenic strainfacts) (Torcutating (sA aggregates or complexes entrapped in mesanglum and activate atternative pathway.	LM: (different finding ) normal/ mesangio prolif focal (diffuse prolif.  EM: dense deposits in the mesangium  F: deposition of IgA andCS, inthe mesangial region. (diagnostic)	Prognosis -initial beingin course but slowly progressive -20 - 50% progress to ORF in 20 years -20 - 60% recur in transplants. Bed prognostic features: -old age -thinging to the control of the control	Increased frequency in Individuals with celiac disease in liver disease (secondary IgA nephropathy).	
MPGN	alterations in the basement membrane, proliferation of glomerular cells and leutocyte infiltration.  Secondary cause: -chronic immune complex disorder (SLE, HCV, HIV) -malignant conditions (CLL, lymphoma, metanoma)  Consider as: nephrotic syndrome, nephritic syndrome, proteiunia, hematuria or nephrotic/nephritic.	I.M.: enlarged glomenuli, proliferation + infiltration of inflammatory cells lobular accentuation, thickening of capillary valls reckyclication of glom capillary "tran- tracking", crescents may be seen tubulointestitial changes & vascular changes of H.T.  EM subendothelial deposits, circumferential mesangial interposition, increase in mesangial cells & matrix.  E  C3, CIq, C4 in granular pattern in mesangial area.  LM similar to type I  BM Intramentranous dense deposits lamina dense transformation into an irregular, ribbon - like, extremely electron dense structure if granular mesangial & short or discontinuous linear capillary loop deposits of C3. No early complement components or lgs They have persistent low C3 >70% have C3 nephritic factor (C5NeF), an auto Ab that stabilizes C3 convertase leading to persistence of C3 depardation & hypocomplementena  Mutation of factor H, or autoantibodies to factor H.	Children and young adults	SO% of cases is the nephrotic syndrome, may begin as acute nephritis or mild proteinuria.  Promotic Generally poor. 40% progress to end-stage renal failure, 50% had variable degrees of renal insufficiency, 50% had paristent nephrotic syndrome without renal failure.  MPGN type I: is more common than DDD.  DDD-has a worse prognosis, and it tends to recur in renal transplant recipients  Type I:  Type I:  Type I:  The section of the section	Type 1
RPGN	rapid and progressive loss of renal function with severe oliguria and (if not treated) death from renal failure within weeks or moritis.  not a single disease it is a syndrome which could be caused by a number of diseases both primary of kidney and systemic diseases.	LM.: ( CRESCENTIC GN)  > 50 - 75% of glomenuli contain crescents > 50 - 75% of glomenuli contain crescents > 50 - 75% of glomenuli contain crescents glower of call proliferative changes.  EM: rupture of GBM only or with electron dense deposits  F: linear, granular or none.	الْطَبْ الْجِرْاحِةِ	presence of crescents in most glomeruli  -Prognosis depends roughly on the fraction of the involved glomeruli.  -Midse from rany subside but renal involvement is usually progressive leading to oliguria.  Therapy -Plasmapheresis (immune complex-mediated crescentic CN usually doesn't respond) - steroids - cytotoxic drugs - Some patients requires long term dialysis, and renal transplant.	
Hereditary Nephritis	A group of heterogeneous hereditary - familial renal diseases associated with glomerular lessions.  EXAlport syndrome Defective GBM synthesis, mutation in encoding for alpha-5 chain of collagen type IV.	UM - Normal glomeruli early in the disease, secondary sclerosis later, Foam cells in the interstitum.  BYCBM shows irregular thickening, lamination, splitting ("basketweave" appearance)		-Nephritis + nerve deafness + eye disorders -Males > fernales - X-Lirked, Afr or AD -Males 5 - 20 yrs (Gross hematuria), in 20 yrs (GRF)	

## ( وَ قُل رَّ بِّ أَدْخِلْنِي مُدْخَلَ صِدْقِ وَأَخْرِجْنِي مُخْرَجَ صِدْقٍ وَاجْعَل لِّي مِن لَّدُنكَ سُلْطَانًا نَّصِيرًا )

اجعل مداخلي ومخارجي كلها في طاعتك وعلى مرضاتك، وذلك لتضمنها الإخلاص وموافقتها الأمر. ﴿ وَاجْعَلْ لِي مِنْ لَدُنْكَ سُلْطَانًا نَصِيرًا ﴾ أي: حجة ظاهرة، وبرهانًا قاطعًا على جميع ما آتيه وما أذره. وهذا أعلى حالة ينزلها الله العبد، أن تكون أحواله كلها خيرًا ومقربة له إلى ربه، وأن يكون له على كل حالة من أحواله - دليلاً ظاهرًا، وذلك متضمن للعلم النافع، والعمل الصالح، للعلم بالمسائل والدلائل! - تفسير السعدي.

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