

• Tubulointerstitial nephritis

injury to tubules + interstitium → inflammation

∴ diverse causes

acute or chronic

acute = leukocyte infiltration + focal tubular necrosis

see impaired [] ability so / salt wasting
+ tubule function

no hallmarks of glom. injury
eg haematuria proteinuria

acidosis
polyuria

* pyelonephritis - staph, E Coli

- haematogenous spread due to bacteraemia

- ascending infection often at uretero-vesical junction; E Coli, proteus, enterobacter

occasionally viral - polyoma virus

See: patchy neutrophils; focal; if reflux related

= upper and lower poles

spread interstitium to tubules then

intraluminal though glomeruli = resistant

heals by scars seen on the cortical surface =

fibrous depressions

* hypersens to drugs and toxins

diuretics, penicillins, sulfonamides, NSAIDs

allopurinol. Idiosyncratic; not dose related

lag phase

fever, eosinophilia, renal abnorm ± rash

haematuria, mild proteinuria & leukocyturia often
with eosinophils

* urate nephropathy - accum @ collecting duct →
obstruction eg TLS

• thrombotic microangiopathies

damage to endothelium → thrombi @ capillaries + arterioles + fibrin deposition

→ intra-vascular haemolysis + fragments

∴ anaemia

→ plt consumption ∴ thrombocytopenia

platelets + ~~the~~ platelet/fibrin deposits @ renal arteries, arterioles + glomeruli

* HUS

• paediatric after O157 E Coli → bloody diarrhoea; shiga like toxin damages endothelium

• adult post O157; APLS; post partum; chemotherapeutics

• familial deficiency complement factor H so → break down alternative pathway C3 convertase

* idiopathic TTP fever, neurology, anaemia, purpura + renal failure

ADAMTS-13 deficit acquired or inherited →

large complexes vWF → plt activation

see plt-fibrin thrombi @ glomeruli