

Acute Renal Failure Dr R Vlahos (March 2018)

= Abrupt deterioration in renal parenchymal function occurring over hours or days, and often associated with oliguria.

Investigations: Serum urea, creatinine, FBC, electrolytes, blood gases, uric acid, PAB, ECG, urine NA

-Fraction excretion of Na <1%
-urine osmolality > 500mosm/L
-urine Na+ < 20 mmol/L
-urine SG+ 1.020
-urinary casts

-Fraction excretion of Na+ 1%
-urine osmolality < 300
-urine Na+ > 40
-urine SG: 1.000-1.020
-tubular/ granular casts

-Anuria
-Hyponatraemia
-elevated post-residual volume

FeNa+ (urine Na/plasma Na)(UoV/Po) = 100

PRE-RENAL

CAUSES

= Renal hypoperfusion due to Hypovolaemia/ hypotension/ vascular NH, history & exam

Management

- 1) IV fluids-monitor CVP, JVP, BP, urinary input/output
- 2) daily fluid balance
- 3) Blood cultures & treat sepsis
- 4) Treat cause

INTRINSIC

Glomerular

CAUSES

NGNs

Vascular

Clinical features

= Hypertension
= haemolytic anaemia
= haematuria

Microvascular causes

microvascular causes

-TTP
-HUS
-vasculitis
-HELLP
-microangiopathy
-RPGN (immunofluorescence)
-antithrombotic disorder

Management

- 1) consider biopsy
- 2) corticosteroids/ plasmapheresis

-Renal artery occlusion
-AAA

Management

Consider surgery

Interstitial nephritis

Clinical features

= Rash
= Fever
= eosinophilia
= eosinophiluria (& urine)

Causes

= Often drug hypersensitivity reactions
-Sulphonamides
-Tumour lysis syndrome (acute hyperuricaemic nephropathy)
-Penicillins
-NSAIDs
-Allopurinol
-Cephalosporins
-Allopurinol

Management

- 1) Eliminate toxin
- 2) Consider steroids: 60mg/day
- 3) Biopsy

Acute tubular necrosis

Clinical features

= Ischaemia
= Nephrotoxicity
= granular casts

Causes

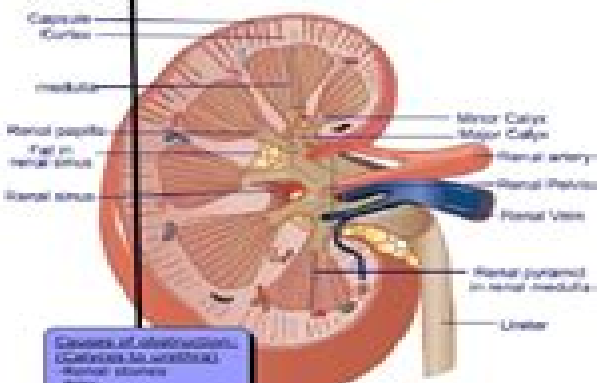
- Ischaemia: shock, burns, MI etc
- Nephrotoxicity:
aminoglycosides
tetracyclines
Amphotericin B
NSAIDs
ACE-I
Lithium
-Rhabdomyolysis
-Hemolytic uraemic syndrome

Management

- 1) Reverse ischaemia
- 2) Supportive care
- 3) Stop nephrotoxic drugs
- 4) Maintain electrolytes

POST-RENAL OBSTRUCTION

Cut Section of Kidney



Causes of obstruction:
Calculus (in ureter)
-Renal stones
-Benign
-Pelvic masses

Management

- 1) Insert urinary catheter
- 2) Examine bladder, masses, prostate
- 3) Renal US- upper tract dilatation?
- 4) Abdominal CT (unenhanced)
- 5) Remove obstruction
- 6) Urology consult

ALWAYS INSERT CATHETERS & TREAT PRECIPITATING CAUSE

- 1) Electrolytes Na, K, Ca, Mg, phosphate & cardiac arrest. AB ECG (Rx: Insulin, glucose & Calcium Gluconate)
- 2) Pulmonary oedema, HMO/CPAP, morphine, Furosemide, O2, nitrates
- 3) Bleeding: TransFusion
- 4) Treat sepsis: Avoid nephrotoxic drugs!
- 5) Indications for dialysis: persistent hyperkalaemia, severe metabolic acidosis, refractory pulmonary oedema, uraemic pericarditis/ encephalopathy
- 6) Adjust dose of renally excreted drugs.

Nursing Concept Map Acute Renal Failure

SJ Ball



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