

ACUTE KIDNEY INJURY (AKI) QUICK REFERENCE GUIDE

Ref No: 2073

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Care Group : Unscheduled Care (Renal)
Implemented : October 2014
Last updated : November 2019
Last reviewed : November 2019
Planned review : November 2022
Keywords :

Patient has/ is at risk of AKI



Elderly, diabetic, comorbidities, sepsis, dehydration, on ACEI/ARB diuretics, other

Ensure patient Safe



Potassium > 6.5/ Severely acidotic/ Pulmonary oedema
Complications of uraemia (encephalopathy/ pericarditis)



Contact Nephrologists if these don't respond to medical management

Volume status



Hypovolaemic/ Euvolaemic/ Fluid overloaded



See guidelines on IV fluid resuscitation

Monitoring



Monitor observations (minimum 4 hourly)
Consider twice daily blood tests while creatinine rising
Daily weights, Institute fluid intake output chart
Urinary catheter (if indicated)

Investigations



Urine dipstick and documentation of result
If proteinuria check protein-creatinine ratio
Ultrasound KUB < 24h (if cause not clear)
Ultrasound KUB < 6h (if pyonephrosis suspected)
Bone, liver function, CRP, CK (if appropriate)
Myeloma screen (if appropriate)
Autoimmune screen (if appropriate)
If platelets low do blood film, reticulocyte, LDH

Reduce/ Treat Risk Factors



Review drug chart and dosages
Stop diuretics if dehydrated*
Stop NSAID/ACEi/ARB/K-sparing diuretics/metformin*
Stop antihypertensives if relative hypotension*
Consider H2 receptor blocker or PPI
Consider dietetic assessment
Avoid iodinated contrast procedures (if essential don't delay)
Treat sepsis



See sepsis care bundle

Refer to nephrology?

Need for renal replacement therapy
AKI with no clear cause
Inadequate response to treatment
Complications associated with AKI
Stage 3 AKI
Renal transplant
CKD stage 4 or 5
eGFR \leq 30 post recovery
Diagnosis that may need specialist treatment
e.g. vasculitis (haemo/proteinuria in absence of UTI)

Refer to urology?

Refer all upper tract obstruction to on call consultant urologist
Refer immediately if pyonephrosis (fever + hydronephrosis)
Obstructed solitary kidney
Bilateral upper urinary tract obstruction
Complications of AKI caused by urological obstruction



When nephrostomy or stenting indicated in patients with AKI, undertake as soon as possible and within 12 h of diagnosis

Discuss with Intensive Care?

Patient appears severely ill, becoming exhausted/ obtunded
Hypotension (systolic BP < 90) despite fluid resuscitation
Hypoxaemia (PaO₂ < 10kPa) despite 40% O₂
Severe metabolic acidosis
Pulmonary oedema with hypoxia
Evidence of multiorgan failure



Patients with established/developing multiorgan failure should be identified early and referred to intensive care

*** See "Restarting medication after AKI" leaflet**

See main guidelines on AKI:
"Acute Kidney Injury (AKI) pathway for adult patients at Shrewsbury & Telford Hospitals NHS Trust (SATH)"
for further detail