



RESPONDING TO AKI

Consider illness

- Sepsis
- Hypotension
- Intrinsic renal disease (e.g. vasculitis)
- Urinary tract obstruction

Consider medication

- Drugs causing AKI, e.g. by tubulo-interstitial nephritis?
- Drugs exacerbating AKI, e.g. NSAIDs, diuretics, antihypertensives?
- Are they on any medication which may accumulate and cause harm during AKI?
- Conduct a [medication review](#)

Consider fluid status

- When did the patient last pass urine?
- Can/should the patient increase fluid intake?
- Is admission for IV fluids needed?
- Does the patient need carer support to improve fluid status?

MANAGEMENT

Place of care

- Shared decision-making taking into account clinical need, available support and services, and patient preference

Address cause

- Modify reversible causes
- Consider stopping or changing medications both in the short and longer term to reduce the risk of recurrence
- Minimise polypharmacy

Plan review

- For patients who are admitted, follow [best practice on post-discharge care](#)
- For patients in the community, review and monitoring should be guided by clinical scenario, patient circumstances and progression or resolution of the AKI

FOLLOW-UP

Ensure accurate coding

- Establish AKI registers
- Identify patients that require timely post-AKI planning
- Highlight vulnerable patients that require prompt review when unwell
- [Top tips](#) for care of patients post-discharge

Optimise medication management

- Have medicines been stopped during the acute illness?
- What were the original indications for these medications?
- [Are there strong prognostic reasons to restart these medications](#), and if so, when?
- What is the patient's blood pressure?
- Should any medications be discontinued?
- Is there an opportunity to reduce polypharmacy?

Monitoring kidney function

- Patients with AKI are at increased risk of developing/worsening CKD
- Greater risk if renal function remains below pre-AKI baseline, AKI is severe/repeated, or with other risk factors for CKD, e.g. diabetes
- Repeat U&E and ACR 3 months after AKI: non-recovery indicates new/worsening CKD and [NICE guidance on monitoring](#) should be followed

SPECIFIC ADVICE

Guidance for patients

- [Controversy over sick day rules](#) – important to recognise the nuances when discussing with patients
- Offer '[How to keep your kidneys safe](#)' advice

AKI and heart failure

- Risk of decompensated heart failure if drugs withheld during AKI are not restarted in timely fashion
- Bear in mind the [expected effects of heart failure medications](#) on renal function

Key medications

- Withhold NSAIDs/COX-II if possible
- Reduce/stop anti-hypertensives and loop/thiazide diuretics if renal hypo-perfusion
- Stop potassium-sparing diuretics
- Stop statins – risk of rhabdomyolysis
- Digoxin – caution re levels
- Metformin – stop if eGFR <30
- Lithium – watch levels and electrolytes