





Kent Surrey Sussex Academic Health Science Network



AKI Shared Learning from case note reviews

Since the inception of NHS England's Think Kidneys Programme in 2014, key principles underpinning the implementation of AKI work into routine primary care include a need to:

- Maximise clinical utility of AKI as a driver of quality and safety whilst minimise treatment burden for patients and unnecessary clinician workload
- Develop evidence informed improvement interventions grounded in an in-depth understanding of routine clinical practice
- Support system resilience through collaborative working across the interfaces of care and through co-development with patients and family members

The RCGP AKI Improvement Project embraces these principles. Key steps taken to date include:

- 24 general practices across England and Scotland have conducted and reflected on case note reviews. These include practice in the following areas:
 - o Greater Manchester: Bury CCG (3); Manchester CCG (3); Tameside CCG (4)
 - Kent Surrey & Sussex (4)
 - o North East & Cumbria (6)
 - Scotland (4)
- Across the 24 practices, clinicians have conducted 148 case note reviews (median 5, range 2 to 16).
- In Manchester, the project has facilitated links between the local Foundation Trust and general practices. AKI nurse specialists working in the Trust have set up a mechanism to provide participating practices lists of patients eligible for case note review.
- Discussions have been held with participating clinicians and practices. In Central Manchester, this has included joint practice meetings with AKI Nurse Specialists based in secondary care. In Scotland, NHS Education Scotland hosted an AKI Workshop in November 2017 to generate learning from across the participating practices.
- Learning from practices conducting AKI case note reviews has been captured on:
 - Template 3 by participating clinicians
 - Structured notes taken during practice based discussions
 - Notes taken during feedback to the RCGP Steering Committee members
 - Notes taken at the workshop hosted by NHS Education Scotland
 - Reflections and meeting notes discussed at RCGP Steering Group Committee meeting on the 12th December, 2017
- Case studies and emerging themes framed discussions at a national RCGP Shared Learning Event held in Birmingham on the 27th February, 2018.

1. Response to AKI warning stage test results

	Learning identified	Suggested actions
Key themes	 AKI and its association with frailty. Kidney function not necessarily considered as part of care 	 Actively code including cause would help others in subsequent management
	Inconsistency of response with delays observed: Diagnosis AKI v	Need for clarity on responsibility for acting on the result – need for a protocol
	Progressive CKD not obvious	Need protocol and systems for reviewing bloods: involvement of team in learning to
	Information that enables result to lead to	within team and OOH, clarity on accountability and responsibility – clarity
		Protocol and resources clear to Locums
	High proportion of false positive alerts	Labs to link alerts to Think Kidneys guidance and make more visible red.
	Need hand over to OOH to enable place in clinical context: enriched summary care records, preparing the patient may get call	Ensure clarity on how alerts/stages will be communicated
	Easy to miss alert: need systems to make more visible	

	Learning identified	Suggested actions
Professional	AKI and Frailty: Awareness that frail elderly patients and those with comorbidities/drugs at high risk of Aki	Actively looking for and recording cause would be useful for other clinicians, as would plan of action and subsequent reviews
	Diagnosis AKI v Progressive CKD not obvious: Unlike secondary care, don't have consecutive bloods rather a set of routine bloods -	Need for clarity on responsibility for acting on the result
		Ensure up to date with guidance
	 Clinical context helps and recognition from colleague/info helps making diagnosis 	Ensure Locum pack include info about AKI
	AKI not necessarily coded: "Renal function going off" or similar stated, rather than "AKI" or "CKD".	Protocol to improve response to AKI alerts – and ensure robust methods for reviewing results
	 Clinicians lack of confidence in making diagnosis and how to respond - GPs 	

usually failed to recognise the significance of the AKI warning – leading to delays

Kidney function not necessarily considered as part of care

	Learning identified	Suggested actions
Practice team	Reviewers surprise at inconsistency of response/management e.g. timeliness	Need to view results in a timely manner
	Majority of GPs on board with awareness and actions required	Develop a system of how to look out for and respond to AKI alerts
	 System for reviewing bloods every morning and action if urgent – though not necessarily reviewed quickly if not 	Need to include practice admin in protocol for responding to alerts
	picked up as urgent	Need clarity on hand over: to ensure timely review of results and response
		 Aim for all relevant staff to have training around AKI
		Review how system working as missing cases

	Learning identified	Suggested actions
System	alarms leading to less attention being paid to them	 Make AKI Warning Stage Result more visible (PINK) Lab could also link the result to the Think
	 Difficultly seeing all blood results – different labs reporting for same patient. 	Kidneys guidance - if not phoned, might prompt GPs to take result more seriously
		Need system to inform OOH and also
	Bloods sent on Friday afternoon not routinely seen until Monday morning. No way of "actioning"	inform patients to be prepared for call from OOH
	alert – unless bloods so bad that labs calls (unprepared) Out of Hours	AKI alert needs clinical correlation
	Service.	Need to ensure locum staff aware of protocol and relevance of AKI
	Significant gap in timely review of	
	lab results and response to alerts	Need to address Friday bloods: Clear guidelines on when results are
	Easy to miss AKI alerts	telephoned to practice (and will be brought to the attention of the on-call GP)
		 Need clear system for triage once AKI triggered – role OOH, practice tram, labs, patients
		Help OOH put result in clinical context: learned the importance of ensuring

relevant info is shared - enhanced /		
enriched VISION record.		

Clear guidance on when labs phone –how to communicate results

2. Post discharge care

Learning identified Suggested actions Workload Shift – additional work to Better Hand Over – To reduce uncertainty Key manage uncertainty created by and help determine urgency of response. themes discharge process. To achieve this, greater clarity required on AKI stage and cause(s); baseline and ➤ Lack of evidence that patients aware discharge SCr; changes and reasons for of relevance of kidney health and AKI medication changes, blood pressure at risk discharge, communication c patients/carers Uncertainty constructed from point Discharge planning to start earlier during of admission onwards. admission. Coding AKI an important step to Establish a protocol for post-discharge care enhance subsequent primary care including patient communication management > Anticipate impact of action on others. Need for better professional understanding as to whether AKI or progressive CKD Consider primary care workload and treatment burden for patients: Secondary care organising follow-up bloods might allow more timely and helpful GP/Pharmacist review Consider how AKI fits with concept of frailty: evidence of some practices aligning with existing care planning practices including enrichment of summary care records

	Learning identified	Suggested actions
Patient	Lack of clarity on patient awareness of AKI and Kidney health	Need to communicate AKI diagnosis with patients, provide written information and opportunity to discuss with a health
	Patients with CKD unlikely to be aware of AKI risk	professional. Need to check patient understanding
	Missed opportunities to communicate AKI risk/kidney health with patients including confusion	Ensure info sheets embedded in IT software so easy to share and print off
	over meds management	Consider how to frame conversations about AKI and kidney health: e.g. "Due to your illness your kidneys have been under a

> The language of AKI and kidney failure is felt to be scary to patients

lot of stress lately. We need to protect them, keep an eye on you and check everything is OK."

Learning identified Suggested actions Culture of variation in coding Address educational gaps/needs of GP **Professional** knowledge in terms of definition of AKI, Variation in awareness of AKI mortality, morbidity, aware association with increasing age. including awareness of GP Locums. > AKI an acute problem but informs Illness complicated by AKI potential future management including moments/prompt for a conversation prescribing about care/realistic. Think kidneys guidance and > Uncertainty on when or if to restart medication existing documents such as Scottish Government on Polypharmacy might help these conversations - medication management including consider deprescribing

	Learning identified	Suggested actions
Practice team	Importance of coding diagnosis: If AK not coded – then clinician unaware or	
team	previous episodes.	 Need for team involvement and training: Read coders to be clear on protocol; locum
	Care Planning: Link AKI into existing approach to care planning. Patients	training and resource pack.
	are reviewed and a care plan is initiated or updated with AKI information.	Need for a timely post discharge review: a) AKI is clearly flagged on timely discharge summary, allowing Practice team to initiate appointments for repeat bloods, BP, urine
	Practice protocol: helps ensure coding and then a review.	etc, without a delay for appointment with GP, and allow GP to review the results before seeing patient. A workflow would
	Pharmacist involvement: in process including invite/BP check/med review	need to be set up at practice.
	 Caution to ensure realistic medicine approach rather than protocol driven care 	ge promoved and the majority

	Learning identified	Suggested actions
Secondary care	Variable 'hit and miss' discharge information in terms of timeliness and variable content: reason/cause for AKI,	Timely and clear discharge summaries- addressing points above
	stage, sharing of blood pressure, lack of SCr values, often lack of guidance on follow up including when to consider restarting stopped medication, lack of	 Discharge records to consider including what information has been provide to the patient about the AKI diagnosis – patient communication to happen

information about what patient knew about AKI

- Disconnect: Those completing the discharge summary seemed to be unaware of the implications of the AKI.
- Some specialities better than others: renal > medicine > surgery
- Needed to go digging for information to piece it all together - takes time in practice
- Losing confidence/credibility: Examples of no confidence in AKI status e.g. CKD rather than AKI.
- Often when patients are discharged and they have meds at home they restart medications without guidance, further confusing the situation
- AKI likely to get coded in hospital if part of presentation at admission but may not be diagnosed/coded if a complicating factor during an admission.

during admission

- Good to have SCr value at admission at discharge - would create confidence in the diagnosis
- > GP actions at top of discharge summary
- Ensure AKI listed in diagnoses list so effectively coded. Clear plan for monitoring
- Better communication following admission with AKI

Learning identified

System

- Clarity on responsibilities: Need clear communication on follow arrangements for patient s discharged to intermediate care
- AKI and issues of extreme age: learning opportunity and need to consider how relates to concept of frailty: is it associated with frailty or an indicator of frailty? Is AKI a 'Yellow Card'?

Suggested actions

- Association of Sessional GPS (NASGP) updated about AKI management
- Primary care systems to accurately read code AKI diagnosis
- ➤ Patients often frail: If needed, secondary care to initiate blood tests on discharge & blood pressure (i.e. as per nurse follow for removal of sutures/dressing) to ensure timely follow-up, reduce patient burden as reduce visit, and ensure more timely and helpful review by GP/ pharmacist
- If AKI apparent to coding team then potential for more streamline follow-up review
- Introduce a protocol/template for AKI on our EMIS system
- Add an AKI section on the new community website with patient information
- > AKI: Potential manageable focus of work to

support establishment of GP Clusters in Scotland

Consider AKI risk as part of routine annual reviews