Audit on management of Acute Kidney Injury

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Introduction

The Audit was carried out on the background of the NCEPOD report of 2009, "Acute Kidney Injury: Adding Insult to Injury 2009 and the recent NICE guidance

Key Findings of the NCEPOD report

- Only 50% of AKI care was considered good.
- Poor assessment of risk factors for AKI.
- Delay in recognising post-admission AKI in 43%
- Complications of AKI were missed, avoidable and managed badly

NICE guidance measures audited

- Was the cause of AKI identified and recorded
- Did the patient have a urine dip done
- Was there a fluid balance chart
- Was the urine output recorded Was medication reviewed
- Did the patient have nephrotoxic medication prescribed
- Were nephrology referral was indicated, was this done timely

METHOD

Data collected over 6 weeks (October-November)

- Prospective study
- Patients with AKI identified using the e-lab reporting
- Case notes identified and reviewed
- Assessment, investigation and management compared against the recent NICE guidance

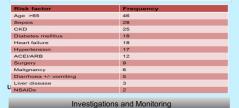
Results

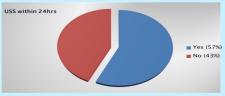
61 patients included 38 M: 23 F 75% were > 65vrs old More than two thirds were on

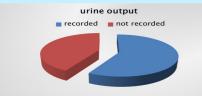
medical wards

community 44% developed AKI in hospital

56% developed AKI in the







Results continued...



Medication and Volume

Volume status assessed in 84% Intravenous fluid prescribed in 86%

Nephrotoxic medication prescribed in 20%

Medication not reviewed in 23% after development of AKI

Nephrology review/discussion

30 pts met the indication for nephrology referral.

Of these 17 were referred/discussed with nephrology within the recommended 24 hrs

Conclusions

AKI is predominant in medical admissions

- Majority of the patients develop it in the community
- There is a deficiency in basic but vital investigations eg urinalysis/USS
- Recording of urine output was poor
- Review of nephrotoxins is sub-optimal
- Nephrology input perhaps not sort out as frequently as advised

Recommendations

Ongoing education of medical/nursing personnel

- Continued audit and research into the epidemiology of AKI particularly in the community
- Better assessment of risk factors for AKI
- Introduction of the renal pharmacy medication optimisation kit

NCEPOD Report:Adding Insult to Injury 2009 NICE guidance AKI:www.nice.org.uk/quidance/cg169 (Use of Electronic Results Reporting to Diagnose and Monitor AKI in Hospitalized Patients, N Selby et al. CJASN