

Acute Kidney Injury: A Quality Improvement Approach

Chedia Hoolickin

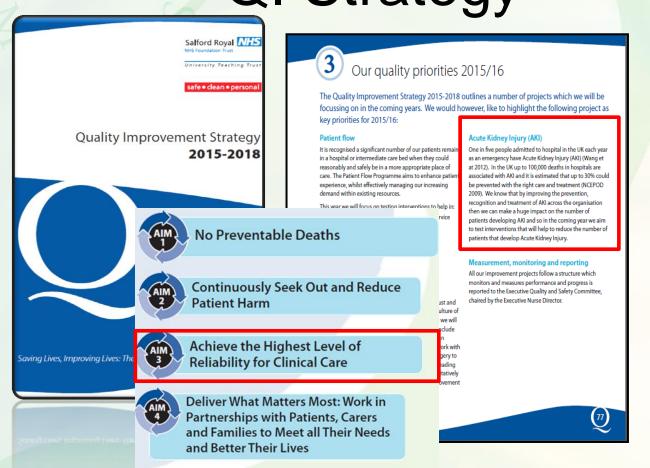
Quality Improvement Lead

Background: AKI and the QI Strategy



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Deliver Innovative and Integrated Care Close to Home Which Supports and Improves Health, Wellbeing and

Independent Living

- 3rd QI Strategy
- Use QI methods that had been successfully applied to other areas
- AKI also identified as a priority in 15/16 quality accounts



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Background to Project

AKI Working Group

- EAU, Renal, Critical Care, Biochemistry Consultants
- Senior Pharmacist, Managers and Nurses
- Support Functions: L&D, Quality Improvement, CLAHRC, Information, Electronic Patient Records

AKI paper presented to Executive Board to initiate a trust wide piece of work (Sept 14)

- Help to prioritise work within other departments
- Start to test some ideas
- May 15 paper to initiate an AKI improvement collaborative

Education

Practice educator roles/ Nurse Preceptorship training

Allocation of Nurse Champions

Testing designated AKI nurse/ MDT

Development of E-learning package

Review and implementation of national training toolkit

Trust wide communication strategy

MDT use of medicine optimization training tool kit (renal pharmacy group)

10% reduction in all AKI by December 2016

25% reduction in preventable "hospital acquired" AKI by December 2016

Achieve a 50% reduction in the number of early (Stage 1) progressing to Stage 2/3 by December 2016

Detection

Intervention

 NPSA Algorithm launch •EPR Implementation

Communication of flag

Electronic decision support

Development of screening risk assessment

Mechanism to flag AKI patients to pharmacists

Bundle development

· Stop/ start medication tests

Role allocation and escalation of trigger

· Local guidelines

Identification and management within the community/ patient education

· Communication at discharge of AKI diagnosis

Sick day rules

Measurement

•Bundle/ risk assessment compliance Local audit •AQ AKI stage 3 measure

Education compliance

 Pharmacy knowledge baseline audit Medication review data

IHI Breakthrough Series Model



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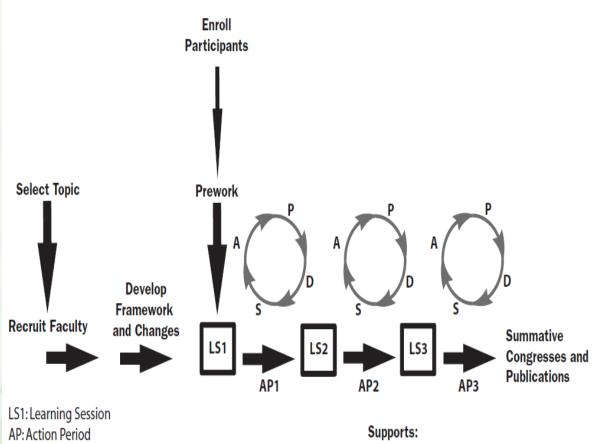
10 MDT teams across the organisation

Leaning session 1: August 15

Learning session 5: Oct 16

Summit: Feb 17

Action Period- regular informal catch up



P-D-S-A: Plan-Do-Study-Act

Email • Visits • Phone Conferences • Monthy Team Reports • Assessments

Salford Acronym



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Think SALFORD

Institute AKI bundle in all patients with 26 mmol/L or 1.5 X rise in creatinine or oliguria (<0.5mls/kg/hr) for >6 hours.

Sepsis and other causes-treat

ACE/ARB and NSAIDS suspend/review drugs

Labs (Repeat Creatinine within 24 hours) & Leaflets (for patients)







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Identification ..so what?

-Use of safety
Huddle to identify
AKI patients and
start key tasks
from the 'Salford'
acronym



Improving Processes

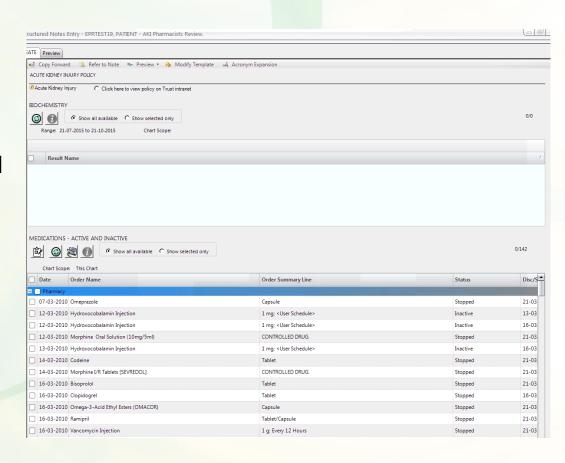


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Medication Review

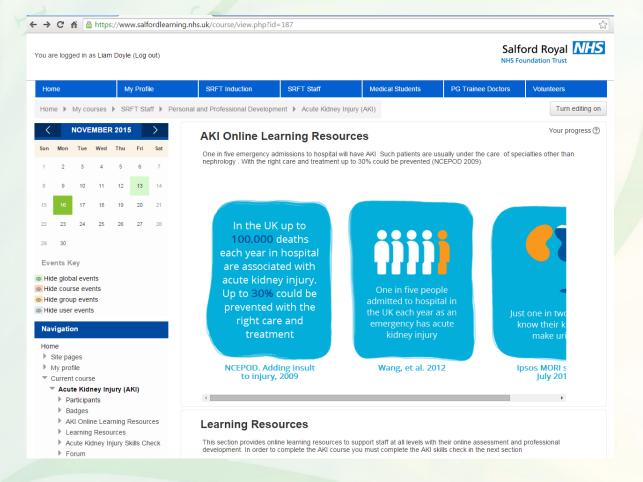
- Pharmacy champion receive daily email from biochemistry identifying AKI patients
- They contact pharmacist colleague for that area to prompt AKI review (EPR documentation)
- Champion later checks AKI review has been completed



Education



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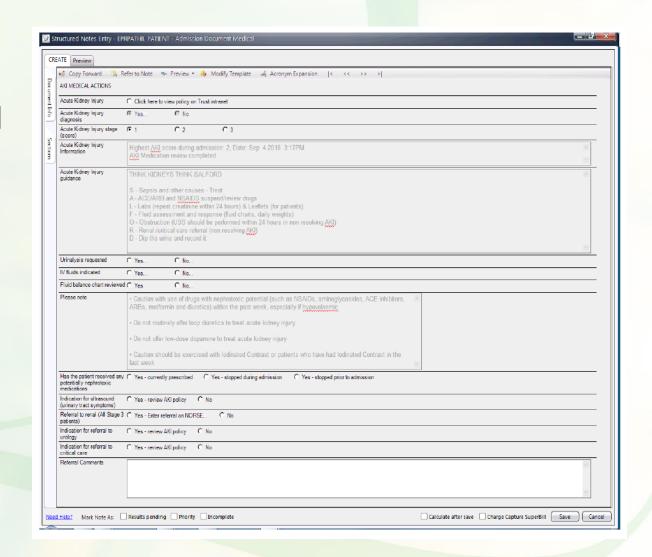
- E-learning completed by 1200 staff
 - AKI training for newly qualified nurses and delivered on wards by practice educators
- More detailed and focused training around fluid balance

Other Key Activity



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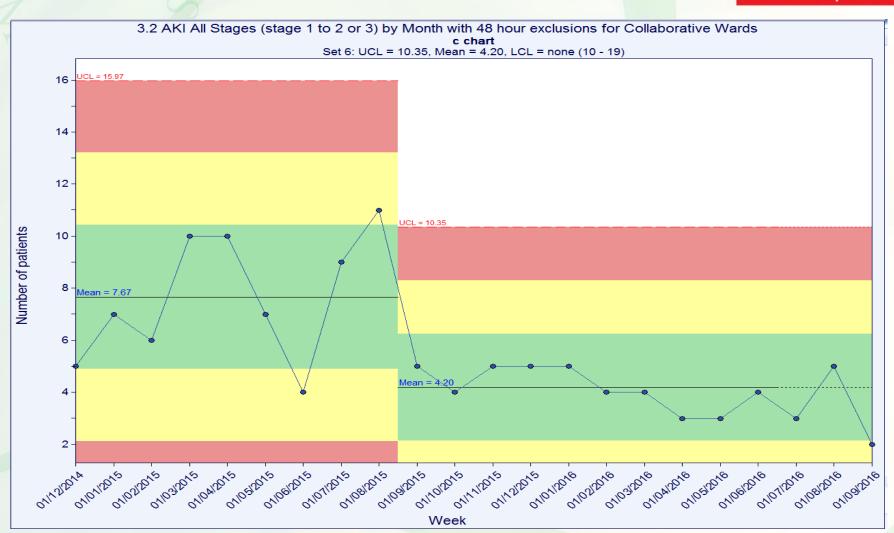
- Embedding
 National
 Algorithm and
 bundle within
 electronic
 systems
- Link nurse activity
- Junior Doctor engagement





Data: AKI stage 1 progressing to stage 2 or 3 for collaborative wards (after 48 hours of admission)

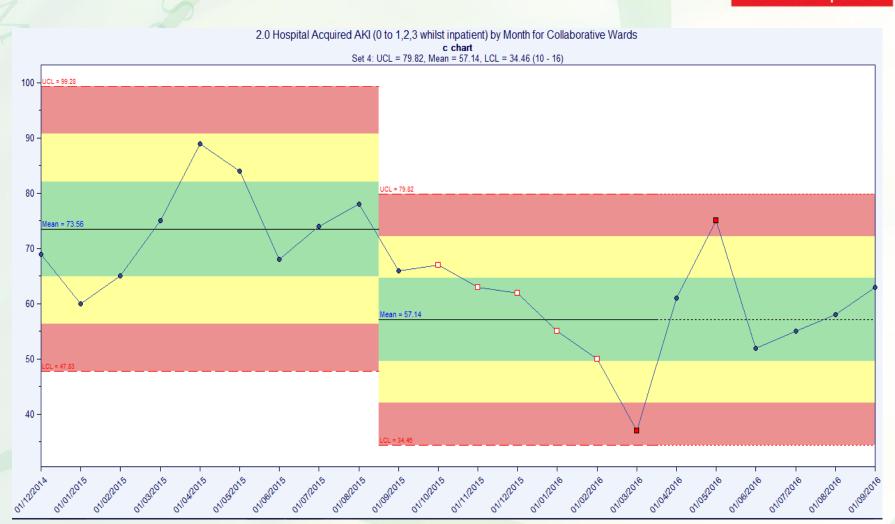
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Data: 'Hospital Acquired' AKI 0 to 1,2,3 for collaborative wards



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Next Steps



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- Launch of AKI change package
- Phase 2 collaborative with 10 new wards and buddy system with phase 1 wards
- Patient information video
- Some ideas from today ...





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Thank you
Any Questions?