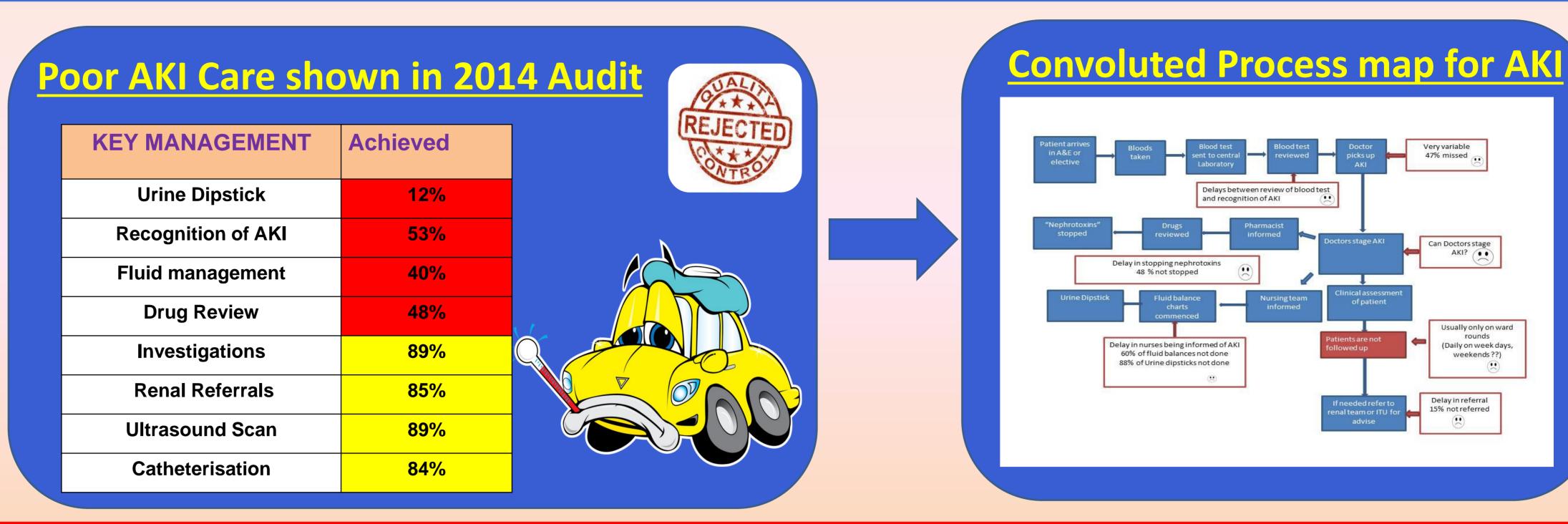


# Improving Acute Kidney Injury Outcomes through a Multifaceted Quality Improvement Programme

Leonard M Ebah, Prasanna Hanumapura, Deryn Waring, Siobhan Halligan, Susan Heatley, Robert Henney, Marc Vincent, Rachael Challiner, Jill Alexander, Katharine Hayden, Rachel Royston, Kathrine Parker, Gerard Terriere, Robert Pearson, and Alastair Hutchison.

### Background

- AKI is a common and harmful condition which is often treatable and avoidable
- Central Manchester UHFT is a large teaching hospital with over 800 beds
- An audit in 2014 showed over 300 cases of AKI monthly, representing 25% of acute admissions



A quality Improvement programme aimed to improve AKI care and outcomes was started in 2014

### Changes that led to improvement

### Methodology

- Quality improvement approach
- Deming's wheel (Plan-Do-Study-Act) Scale up model



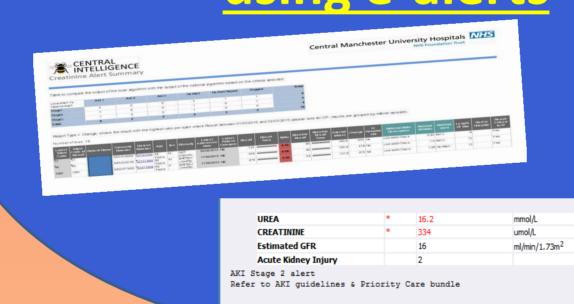
mproved Management using checklist

**AKI Clinical Nurse Specialist is** the core of the programme



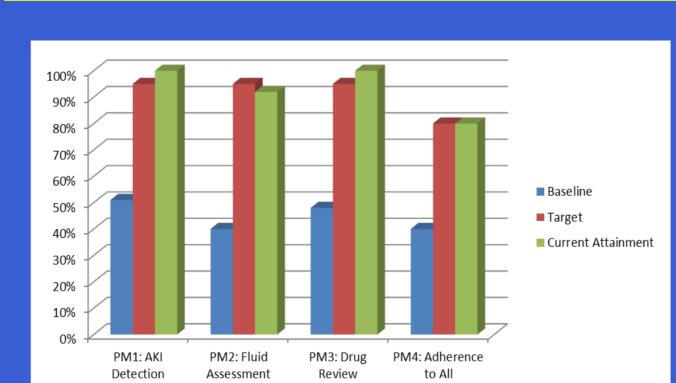


**Improved Detection** using e-alerts

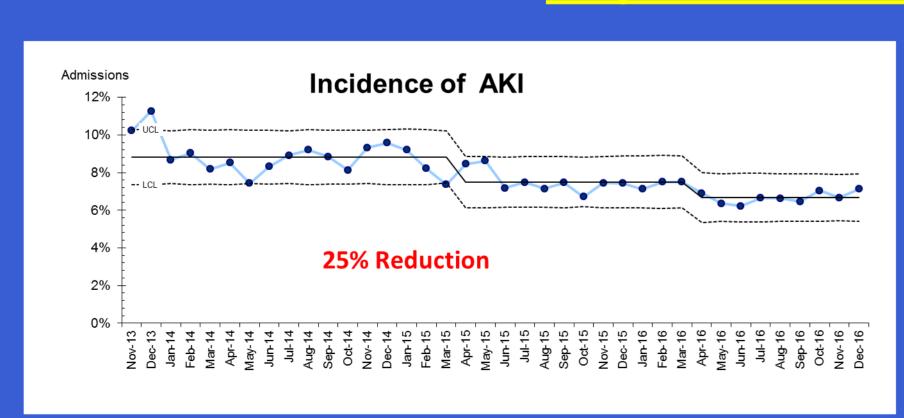


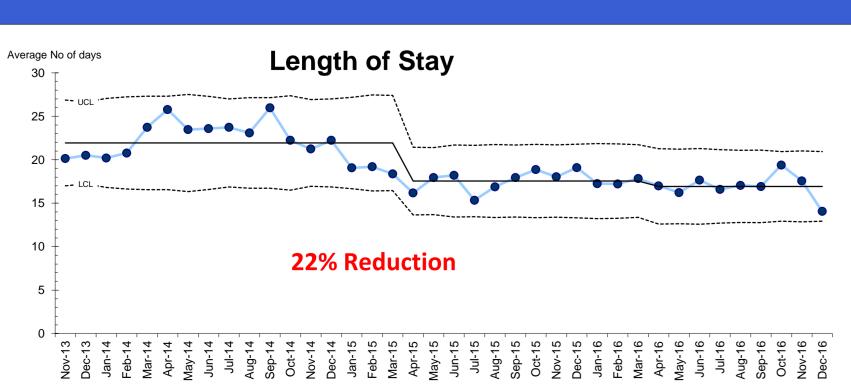
## Results

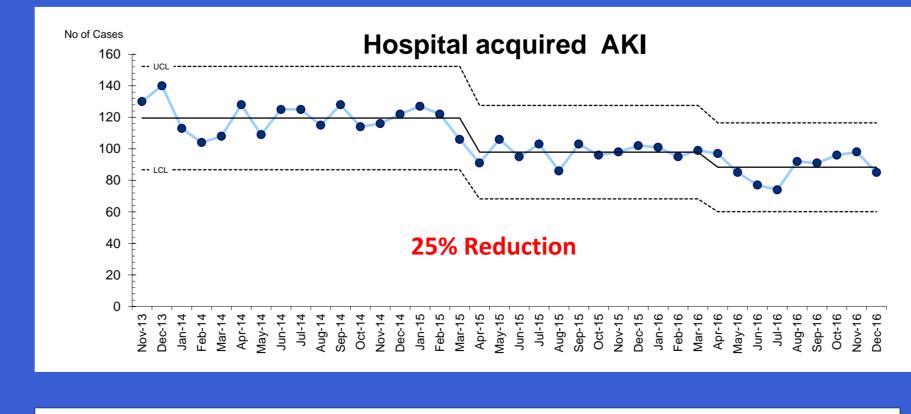
**Improvement in Process Measures** 

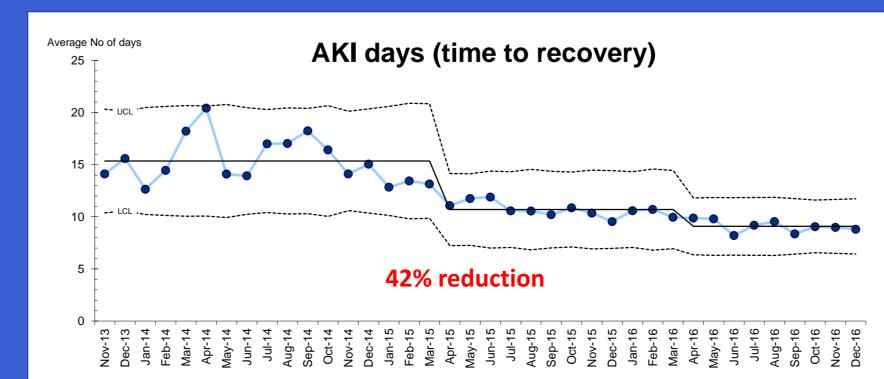


### Improved Outcome measures

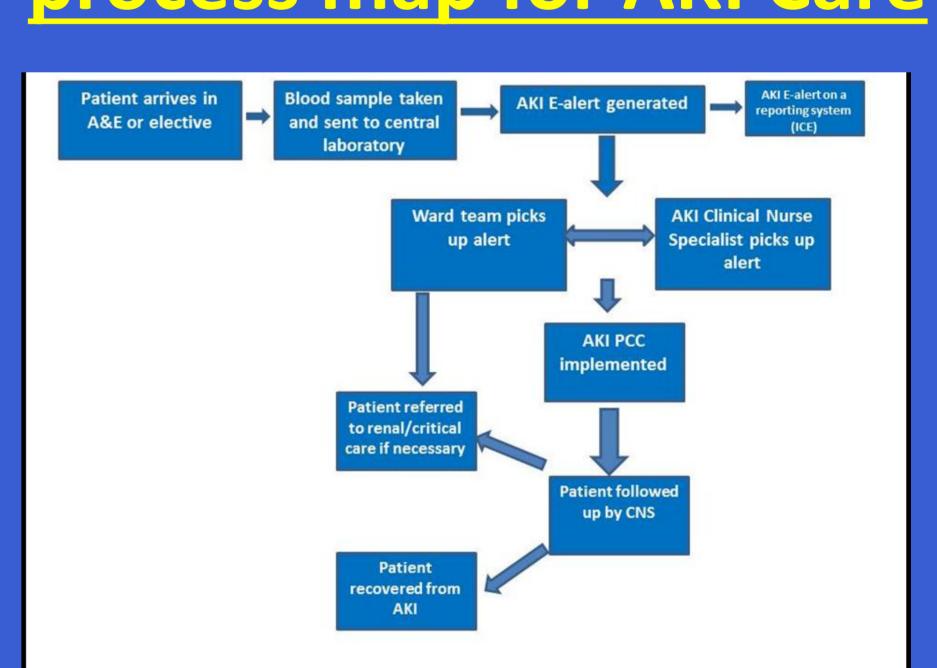








## New streamlined process map for AKI Care



### KEY ACHIEVEMENTS

Metric	Туре	Targets by	Attainment/
		31/12/15	Reduction
AKI Detection	Process	95%	100%
Fluid Assessment	Process	95%	90%
Drug Review	Process	95%	98%
Adherence to AKI	Process	80%	90%*excludes
priority care			dipstick
AKI incidence	Outcome	10% Reduction	25%
AKI LOS	Outcome	10% Reduction	22%
AKI Days	Outcome	20% Reduction	42%
AKI Deaths	Outcome	10% Reduction	8%

Leonard.ebah@cmft.nhs.uk











