National Deteriorating Patient Recognition & Response (EWS) Improvement Programme Sponsors: CSPD and AHD

Programme Overview

Transforming the Delivery of Acute Medicine Conference
October 24th 2017

Avilene Casey Lead National Deteriorating Patient Recognition & Response Improvement Programme

National Deteriorating Patient Recognition & Response (EWS) – Improvement Programme (CSPD & AHD Co-sponsors)

PROGRESS TO DATE:

- National implementation of EWSs (2012 – 2015)
- NCGs NEWS, PEWS, IMEWS, Sepsis (2012 – 2016)
- Quality Care Metrics – NEWS & IMEWS
- **National MDT EWS Improvement Steering Group established**
- **National Guideline Review Group established**

CURRENT EVIDENCE SOURCES :

- Recommendations from EWS Audits & Serious Incident Reports 2015 – 2017
- Literature Review 2016
- Anecdotal evidence from EWS users
- Risk Manager feedback
- QI Project information
- Morbidity & Mortality meeting feedback
- Focus Group 9th October 2017

Future Improvement Priorities

?

RATIONALE FOR IMPROVEMENT:

- 2017 DOH Mandate for update of NEWS NCG
- 2017 NTMA/SCA (Delay/Failure to Treat – Adverse Outcomes) = 2nd most commonly reported clinical incident
- HSE 2017 Service Plan
- 2016 Meta-analysis of Serious Incidents
- HIQA Reports

CURRENT STEPS (Phase 1 – NEWS):

- NCG update (DOH Mandate)
  - HRB-CICER
  - Guideline Review Group
- Staff and patient engagement
- QA&VD Audit 2017/2018
- Education programme update
- Focus Group Report

NEXT STEPS (EWS Programme – Phase 2):

- IMEWS NCG update (due 2017)
- PEWS NCG update (lit review 2018)
- Co-designed EWS Consensus document
- Communication/Engagement Strategy
- Research Strategy

Avilene Casey Miriam Bell National EWS CSPD & AHD HSE 22/9/17

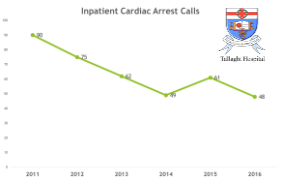
Evidence The burning platform

In a systems analysis of patient-safety-related adult deaths in the NHS acute hospital settings, Donaldson (2014) estimates **23% of just over 2,000 deaths reported to the UK NHS critical incident reporting structure (NRLS) in a 17 month period were attributable to "Mismanagement of deterioration" with "Failure to act on or recognise deterioration".**

International literature states EWS support

- Improvements in Clinical Monitoring
- Escalation of care
- Improve Patient safety & clinical outcomes

NEWS vital precursor to the detection sepsis
National Sepsis data Jan 1st – Dec 31st 2015
Sepsis principle diagnosis 26.5% cases
Overall in hospital mortality rate 22.7%



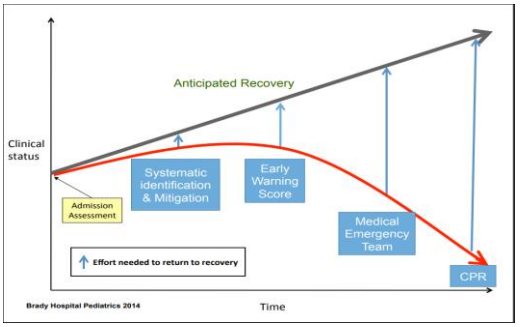
Why is there a need for a National EWS Improvement Programme?

Assumptions

1. *Observations are recorded regularly*
2. *EWS is calculated correctly*
3. *Escalation is initiated as appropriate*
4. *Timely adequate response occurs*
5. *Patient management plan implemented and regularly evaluated*
6. *Regular audit and feedback occurs and improvement plans are implemented*
7. *Multi-disciplinary staff EWS refreshers occur*
8. *All above aligned to NCGs*

However, the most significant finding from a recent meta-analysis was that the above assumptions are not apparent in practice (HSE 2016)

Resource requirements based on early vs late recognition of deterioration:



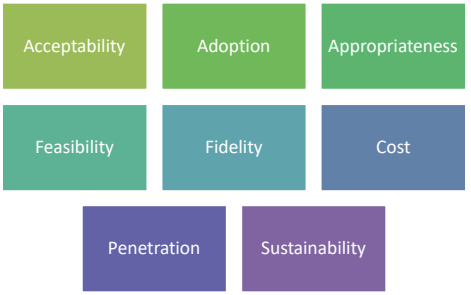
Context

Failure to Rescue leading to Death and Disability:

- It's a system not a score
- EWS education is not mandatory
  - yet Manual Handling x 4 hours training is mandatory for all staff
- Response Teams
  - currently respond to deaths i.e. cardiac arrests and not to deterioration and prevention of death
- EWS has the potential to reduce unanticipated cardiac arrests x 50% (Tallaght and international experience)
- Saving of a 0.5 LOS through early detection is potentially = saving of 20 beds per day in a 200-bedded hospital = reduction of 4 ED trolleys per day

"Patients don't suddenly deteriorate - Healthcare Professionals suddenly notice"

Implementation Outcomes (Proctor et al 2011)



Key Improvement Themes Identified by a Focus Group

- Physiological parameter adjustment
- Communication/ISBAR
- Escalation – Documentation Response – systems & people
- Governance (Leadership/Champions/audit/feedback)
- Patient & Family engagement
- Clinical judgement
- Education
- NCG for EWS use in service

Failure to Rescue is a measure of hospital quality

Ultimate Goal (EWS) is to Save Lives

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