

CHI Learning & Development System (CHILD)

Project Title

Nursing Quality Indicator Dashboard

Project Lead and Members

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Organisation(s) Involved

KK Women's and Children's Hospital

Project Category

Clinical Improvement, Information Technology, Quality Improvement

Keywords

KK Women's and Children's Hospital, Clinical Improvement, Information Technology, Quality Improvement, Process Improvement, Quality Management, Communications, Clinical Performance, Nursing, Nursing Quality Indicator, National Database Nursing Quality Indicator, Zero Harm Target, Timely Feedback, Dashboard, Visibility, Systematic Data Organisation, Interactive Data Review, Microsoft Excel, , Statistical Tools, Run Charts, Control Charts, Pie Charts, Data Accessibility & Transparency

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Dashboard

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Project Background

establishment of a Nursing Quality Indicator (NQI) dashboard enables visibility, provides oversight, monitoring and reporting of key nursing clinical quality indicators at departmental and Divisional nursing levels. The key clinical quality indicators that we are monitoring (Right inserts) The NQI dashboard was implemented in July 2017.













Objectives

To provide continuous feedback to help clinical and / or managerial staff to make decisions to improve clinical and managerial processes.



To allow staff to systematically review data and information to ensure that performance improvement process is effective, ongoing and results in the provision of quality care



To facilitate staff in gaining insight and understanding of nursing clinical quality indicators bench marked performance against International standards - the National Database Nursing Quality Indicators (NDNQI)



Methodology

Designed using Microsoft Excel: created to be interactive for users to systematically review data and information.



Used statistical tools like run charts, control charts and pie charts to detect undesirable trends / abnormal variations.

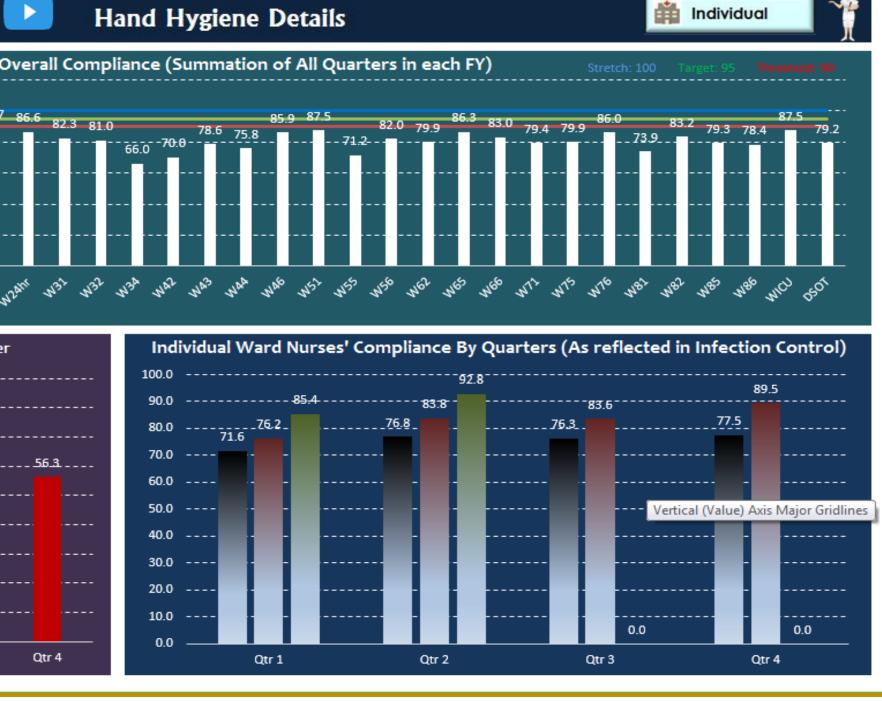
TARGET HARM



Easy navigation for users; accessibility to retrospective information to take actions for process improvement







Description of Intervention

Organization of raw data

Consolidated 3 years which constituted the historical data to determine the limits set in both run and control charts.



Conceptualization

Feedback gathered from end-users to decide on the indicators; improved on the aesthetics and user-friendliness of the dashboard.



Accessibility to all Nurses

Worked with ISD to provide accessibility to all nurses using hospital desktops and Computers on Wheels (COW).

Results

AFTER

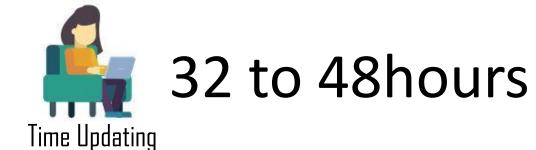
- 1. Departmental staff receive their own clinical performance on hardcopies which they were not provided with overall Nursing Division's clinical performance. 2. Time and money spent printing the hardcopies; Distribution of information to all Nursing
- departments were time-consuming.
- 3. Information was updated at quarterly intervals, therefore there was delayed data reviewing and process improvement.
- 1. An excellent communication tool in providing up-to-date clinical quality information, including an overview of Nursing Division's clinical performance regularly to all levels of nurses.
- 2. All nursing staff are able to view the dashboard as and when needed at their convenience.
- Because of its in-depth analysis and transparency, clinical and managerial staff could understand the root causes and improve processes to prevent recurrences.
- 4. From quarterly to monthly updating, trending abnormalities could be detected at the early stage for prompt remedial actions.

5. Est. Savings per year









Future... TARGET ZEROHARM

The NQI dashboard is widely used by nurses from all clinical units in since its implementation in Jul 2017. The transparency and accessibility of data in dashboard provided ground Should opportunities to improve processes. changes suggested brought forth a downward trend in errors, this visible platform would be a encouragement to all nurses in the great continuity of quality improvement. With all these implementations, Nursing Division strives to achieve target zero harm by 2022.

