

CHI Learning & Development System (CHILD)

Project Title

Reduce Home Medication Error In Ward B5

Project Lead and Members

Project lead: Liu Jingmin

Project members: Ng Hong Eng, Teh Fu Chang Engelbert, Rohaidah Bte Sa'at, Koh,

Omadevi Tharuman

Organisation(s) Involved

Ng Teng Fong General Hospital

Aims

By October 2018, the project team seeks to eliminate the incidence of home medication errors for patients admitted to Ward B5

Background

See poster appended/below

Methods

See poster appended/ below

Results

See poster appended/ below

Lessons Learnt

Effective change can revolve around simple change ideas (e.g. a visual cue). In addition, we need to keep team members motivated, outcome-driven and engaged in order to make an effective change

Conclusion

See poster appended/ below



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Project Category

Care & Process Redesign

Keywords

Ng Teng Fong General Hospital, Service Design, Quality Improvement, Improvement Tools, Plan Do Check Act

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REDUCE HOME MEDICATION ERROR IN WARD B5

MEMBERS: LIU JINGMIN, NG HONG ENG, TEH FU CHANG, ENGELBERT, ROHAIDAH BTE SA'AT, KOH, OMADEVI THARUMAN

✓ SAFETY

□ PRODUCTIVITY

☑ PATIENT EXPERIENCE
 ☑ QUALITY

Define Problem, Set Aim

Problem/Opportunity for Improvement

Between Q1 2017 to Q2 2018, there were 14 incidences of medication errors, of which 6 incidences involved patients consuming home medication without the knowledge of the attending nurses. Home medication errors compromise patient safety, patient experience, and quality of care.

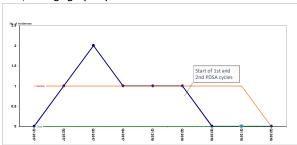
Aim

By October 2018, the project team seeks to eliminate the incidence of home medication errors for patients admitted to Ward B5.

Establish Measures

Outcome measure

No. of incidences of home medication errors for patients discharged from Ward B5, averaging 1 per quarter.



Process measure

Rate of nurses' compliance to conducting medication checks upon admission (%), defined as the number of checks (numerator), divided by the total no. of patients in Ward B5 (denominator). This remained at 100% throughout.

Balancing measure

No. of nurses in the ward. This remained at 36 RNs throughout the project.

Analyse Problem



Waste identification



The project team identified the waste of "non-utilization of skills". In particular, the results of medication checks had not been communication across the administration of medication, care workflow, and patients' discharge. Correspondingly, the project team brainstormed 4 potential change ideas as countermeasures to the waste identified.

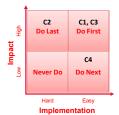
Driver diagram Outcome Primary Drivers Change Ideas C1 Photo-stand with simple Instructions on "Dos and Don'te" C2 Pedent danily and staff education (weste of "monutilization of skills") C3 Extra medication checks before administration C4 Regular quality checks and reinforcement of education

Select Changes

□ COST

The project team used the impact-implementation matrix to prioritize change ideas for PDSA cycles.

Primary Driver	Change Idea		
Poor communication (waste of "non- utilization of skills")	C1 Photo-stand with simple instructions on "Dos and Don'ts" C2 Patient-family and staff education C3 Extra medication checks before administration		
	C4 Regular quality checks and reinforcement of education		



Test & Implement Changes

C	YCLE	PLAN	DO	STUDY	ACT
	1	2018), the project team rolled out change ideas 1 and 3		trend in the outcome measure. Despite positive feedback on the photostand, we learnt that reinforcing the	The project team decided to adopt the change ideas and incorporate them into a nursing standard operating procedure (SOP) for home medications. This would embed the change ideas into daily work.
	2	2018), the project team rolled out	out as planned. In conjunction with the new SOP, the "dosing" approach to reinforcing the information was effective. There was also	medication errors was eliminated and sustained for 2 quarters. We learnt that regular quality checks and reinforcement of	engagement with

Spread Changes, Learning Points

In Q1 2019, the project team engaged Chair, Medication Sub-Committee with the project details and findings. We will contribute to spread change by engaging management, as well as facilitating the adaptation of our change ideas within other wards, considering different operating contexts.

Key learnings

- Effective change is simple change. Our change ideas revolved around change idea 1, a photo-stand (i.e. visual cue), yet was enough to sustain change over 2 quarters.
- Effective change is people change. Keeping colleagues motivated, outcome-driven, and engaged on a regular basis enables us to make a real difference.