

CHI Learning & Development System (CHILD)

Project Title

Inpatient Pharmacy Discharge Process Quality Improvement Project

Project Lead and Members

Project lead: Loo Pey Li

Project members: Shakelah Begum, Tan Li Yan, Tan Wei Keat

Organisation(s) Involved

Ng Teng Fong General Hospital

Healthcare Family Group Involved in this Project

Pharmacy

Project Period

Start date: Aug-2017

Completed date: Apr-2018

Aims

To reduce the percentage of ward 14 (pilot ward) prescriptions which are not ready from 35% to 20% by April 2018.

Background

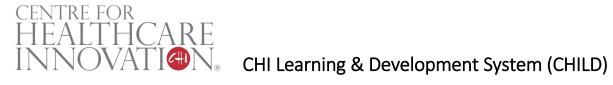
See poster appended / below

Methods

See poster appended / below

Results

See poster appended / below



Lessons Learnt

Quality improvement is a continuous process which requires continuous analysis of effectiveness and further improvement. Collaboration between various departments is important to ensure successful implementation of improvement initiatives.

Conclusion

See poster appended / below

Project Category

Care & Proces Redesign, Quality Improvement, Workflow Redesign, Job Effectiveness, Access To Care, Waiting Time, Turnaround Time, Bed Occupancy Rate, Value Based Care, Productivity, Time Saving, Manhour Saving, Patient Satisfaction, Technology

Keywords

Discharge Medications, iPharm Virtual

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INPATIENT PHARMACY DISCHARGE PROCESS QUALITY IMPROVEMENT PROJECT

LOO PEY LI, SHAKELAH BEGUM, TAN LI YAN, TAN WEI KEAT

	SAFETY
	PRODUCTIVITY
	PATIENT EXPERIENCE
V	QUALITY
	VALUE

Define Problem, Set Aim

Opportunity for Improvement

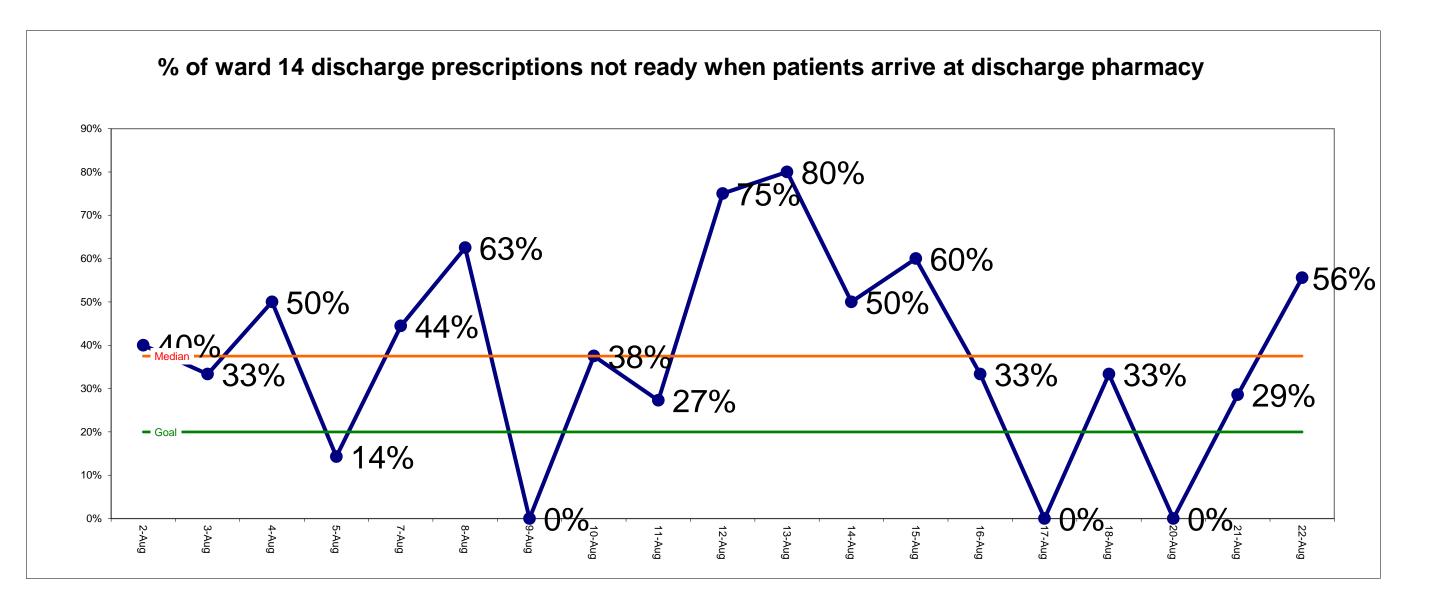
- 35% of ward 14 discharge medications are not ready when patient is ready for home $(2^{nd} 22^{nd})$ August 2017.
- Cost of the problem:
 - ❖ Unnecessary long waiting time for the patients either in the ward or at discharge pharmacy resulting in unnecessary prolonged bed turnaround time and possibly negative impact on patient's satisfaction.

Aim

The inpatient pharmacy intends to reduce the percentage of ward 14 (pilot ward) prescriptions which are not ready from 35% to 20% by April 2018.

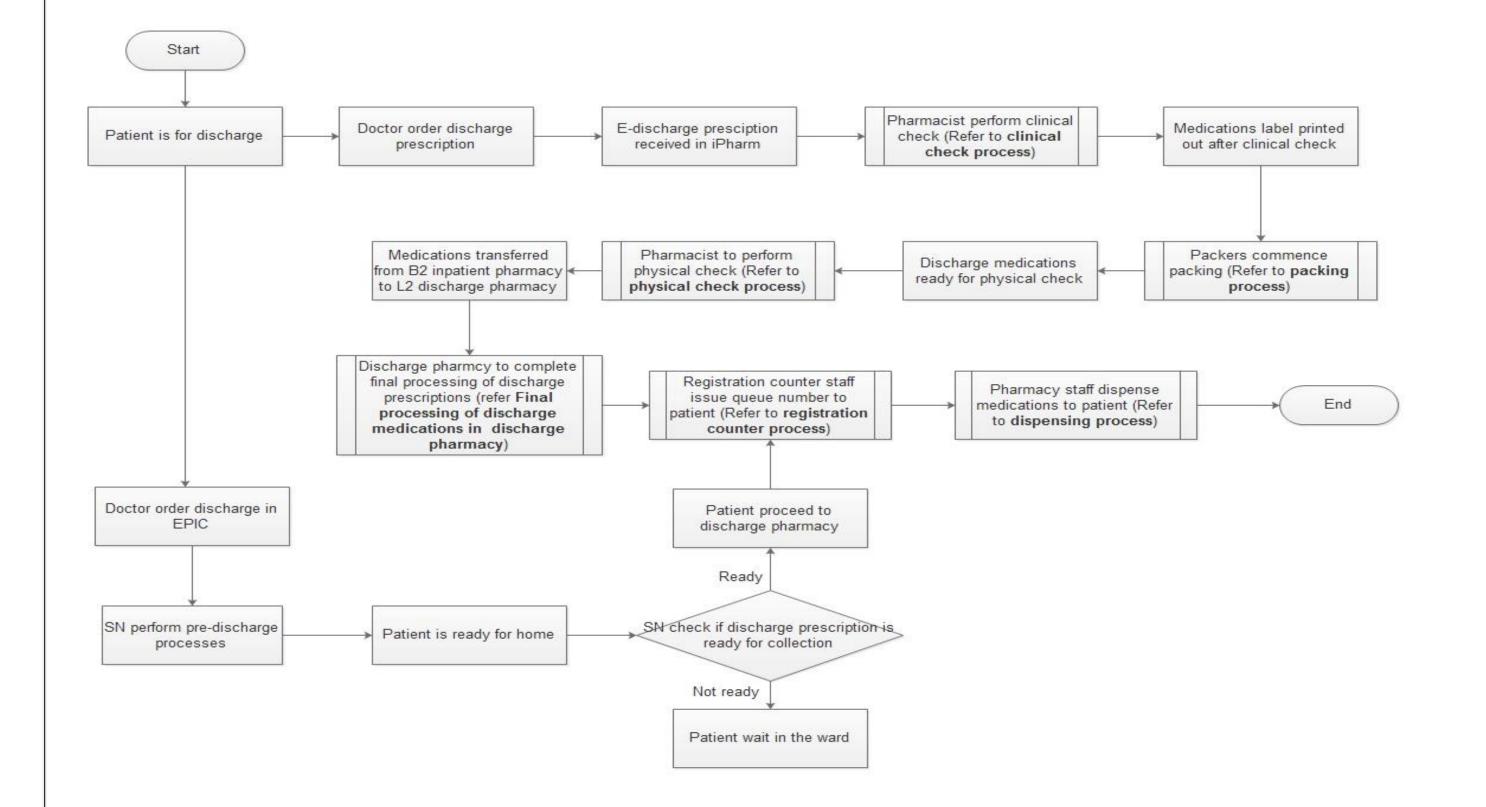
Establish Measures

Baseline measurement:

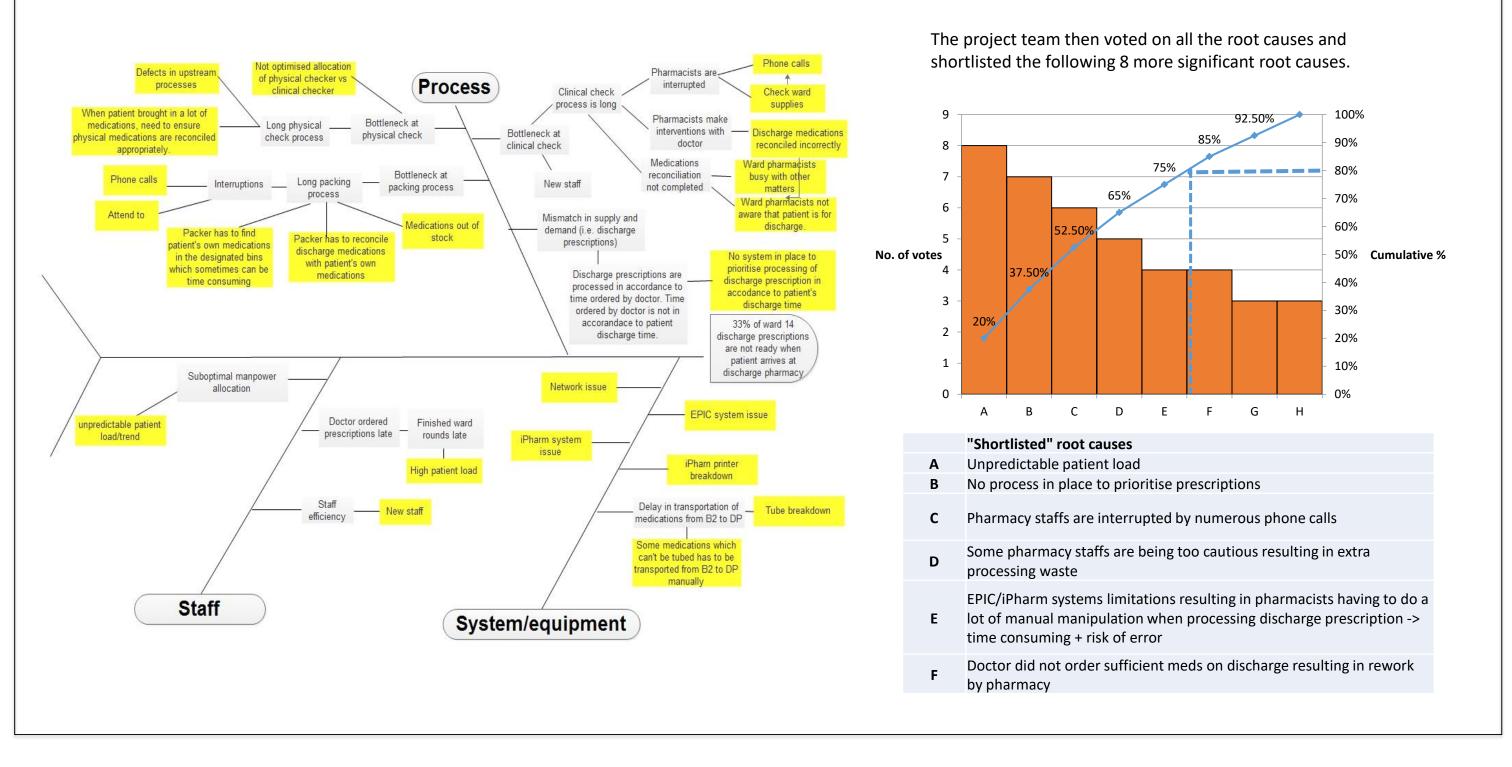


Analyse Problem

Process Map:



Fishbone Diagram and Pareto Chart



Select Changes

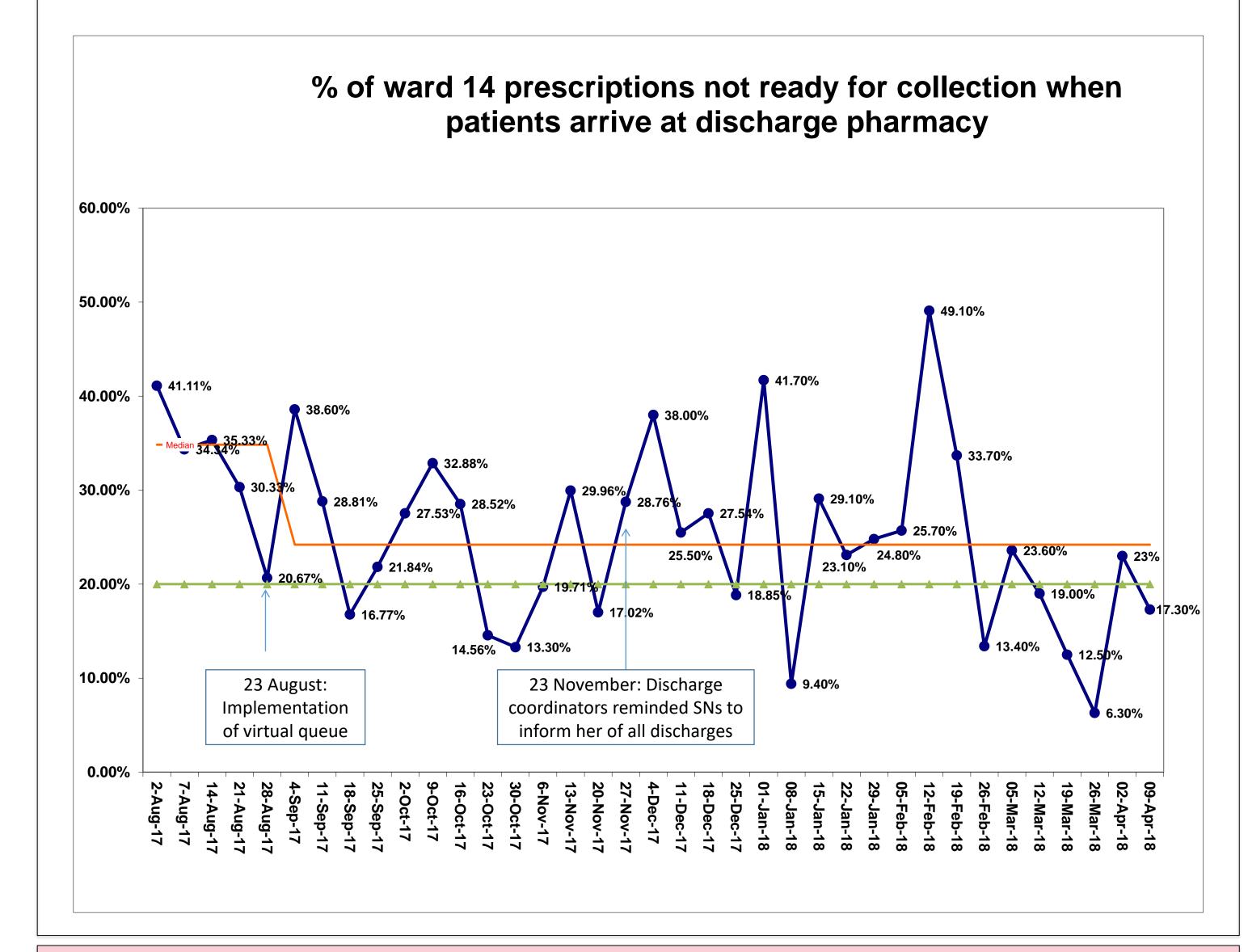
Probable solution:

Root cause selected: Unpredictable patient arrival trend at discharge pharmacy

Solution: To introduce a system (iPharm virtual queue) for staff nurse to notify pharmacy when patient is ready for home so that pharmacy can prioritise processing of prescriptions accordingly.

Test & Implement Changes

CYCLE	PLAN	DO	STUDY	ACT
1	Inpatient wants to test whether the virtual queue system will help pharmacy to prioritise processing of discharge prescriptions.	Piloted virtual queue system in ward 14.	Improvement in % prescriptions not ready for collection though target not reached.	Adapt the intervention.



Spread Changes, Learning Points

Spread changes

We aim to further strengthen the process measure before spreading the change to other wards.

Key learnings

- 1. Quality improvement is a continuous process which require continuous analysis of effectiveness and further improvement.
- 2. Collaboration between various departments is important to ensure successful implementation of improvement initiatives.