CENTRE FOR HEALTHCARE INNOVATIONS

CHI Learning & Development (CHILD) System

Project Title

A Quality Improvement Initiative to Reduce 72h ED Reattendance Turned Inpatient Cases

Project Lead and Members

Project lead: Dr Tay Wei Ling

Project members: Dr Chan Chunn Hoo, Dr De Dios Michael Panganiban, Dr Lim Ghee Hian,

Dr Juan Sze Joo, Tan Yi Lian, Rahimah Binte Nordin, Joyce Loke, Yvonne Soh

Organisation(s) Involved

Ng Teng Fong General Hospital

Healthcare Family Group Involved in this Project

Medical, Nursing, Healthcare Administration

Applicable Specialty or Discipline

Emergency Medicine

Aims

To reduce the percentage of patients who return to ED within 72 hrs and turn inpatient from average of 25.6% (YTD FY18) to the set institutional target of 23.8% by end FY19.

Background

See poster appended/below

Methods

See poster appended/below

Results

See poster appended/ below



CHI Learning & Development (CHILD) System

Lessons Learnt

- 1. Identify appropriate team members who will be able to reach out to the various stakeholders involved
- 2. Actively support, engage stakeholders and maintain feedback loop

Conclusion

See poster appended/ below

Project Category

Care & Process Redesign

Value Based Care, Safe Care

Keywords

72hr ED Reattendance, ED Treatment Unit, Discharge advice

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A QUALITY IMPROVEMENT INITIATIVE TO REDUCE 72H ED RE-ATTENDANCE TURNED INPATIENT CASES

MEMBERS: DR TAY WEI LING, DR CHAN CHUNN HOO, DR DE DIOS MICHAEL PANGANIBAN, DR LIM GHEE HIAN, DR JUAN SZE JOO, SSN TAN YI LIAN, SEN RAHIMAH BINTE NORDIN, MS JOYCE LOKE, MS YVONNE SOH

SAFETY **PRODUCTIVITY QUALITY** COST **PATIENT TEAMWORK EXPERIENCE** COMMUNICATION

Define Problem, Set Aim

PROBLEM

Unscheduled re-attendance of patients to the Emergency Department (ED) who subsequently require admission within 72 hours of discharge from the initial ED visit strain the manpower and bed resources in ED. This group of patient need review regarding appropriate clinical management and patient safety at the initial visit (i.e. if these patients should have been admitted from initial visit)

Between Apr-18 to Mar-19, the year-to-date (YTD FY18) percentage of patients who unexpectedly return to the ED and subsequently turn inpatient within 72 hours was 25.60% (ranging from 22.4% to 27.8%). This is below the set institutional target of 23.8%.

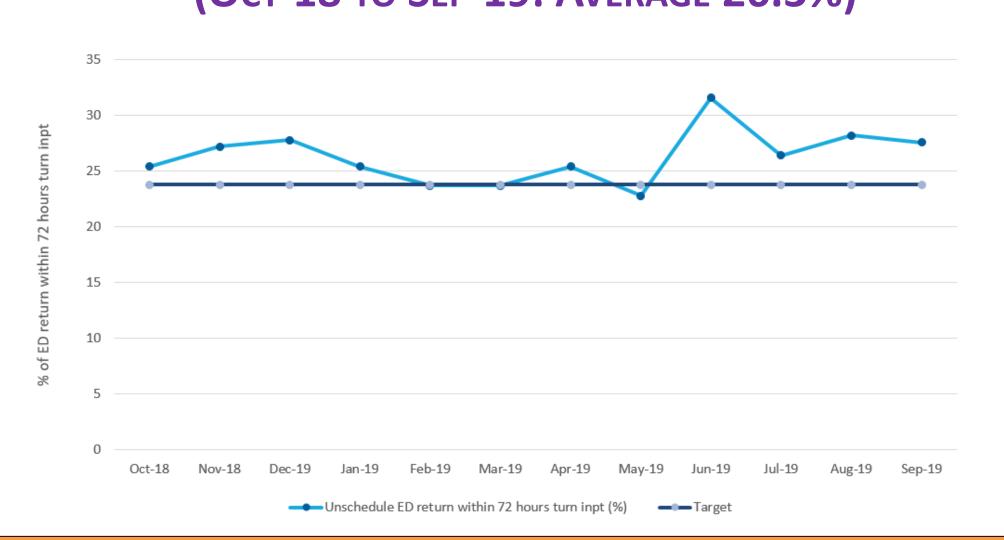
AIM

To reduce the percentage of patients who return to ED within 72 hrs and turn inpatient from average of 25.6% (YTD FY18) to the set institutional target of 23.8% by end FY19.

Establish Measures

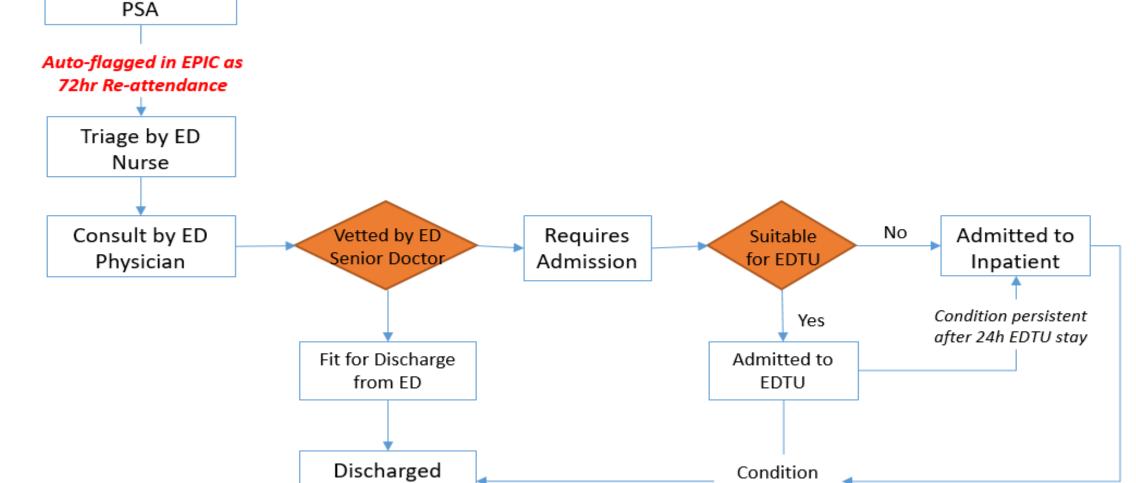
Unscheduled 72h ED Reattendance Turned Inpatient

(OCT'18 TO SEP'19: AVERAGE 26.3%)



Analyse Problem

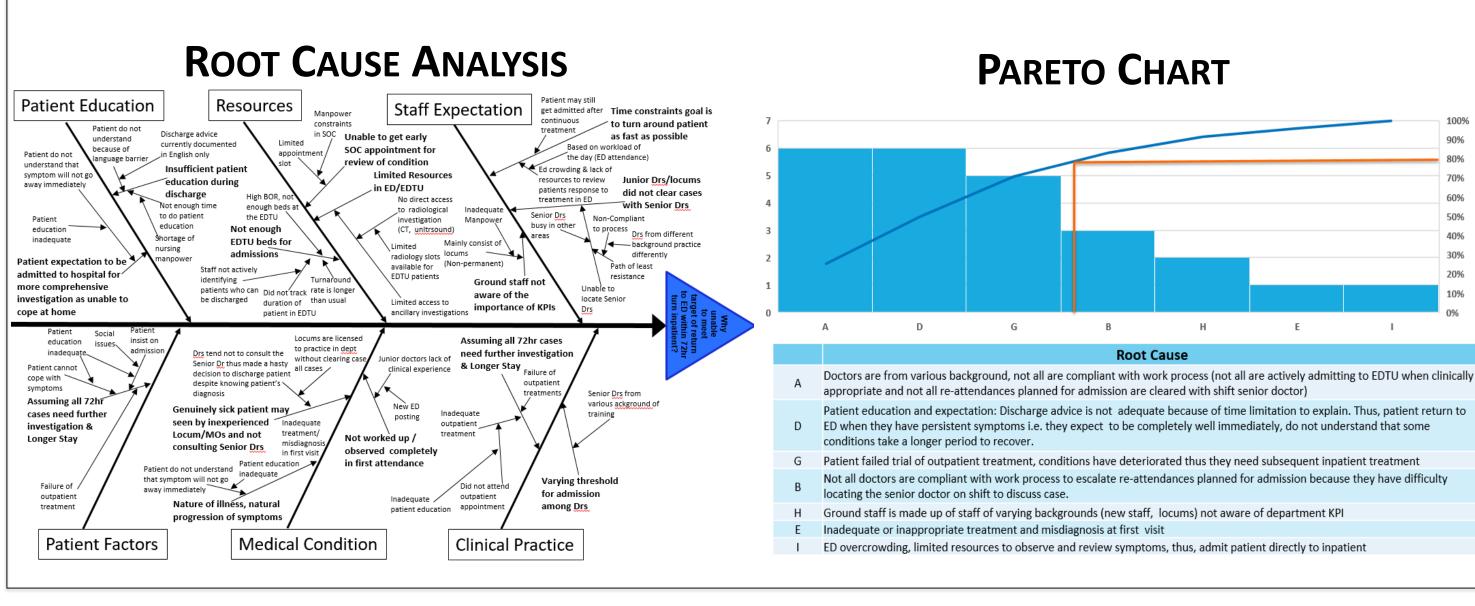
PROCESS FLOW OF UNSCHEDULED RE-ATTENDANCES Patient arrived WITHIN 72 HOURS TO ED Registration by



Home

Audit was conducted of patients who reattended within 72 hours of discharge from ED and were admitted during the reattendance visit. It was found that majority of these cases were due to natural progression of the illness resulting in need for subsequent admission, or patient expectations for complete resolution of illness after the initial consult. Many of those requiring admission for natural progression of illness also had relatively short inpatient stays, suggesting that they could have been managed in the Emergency Department Treatment Unit (EDTU) instead of an inpatient ward.

improved



Select Changes

POTENTIAL SOLUTIONS **ROOT CAUSES**

Doctors are from various backgrounds and To remind clinicians that training, not all are compliant with work • All ED re-attendances must be discussed with processes and are aware of department quality indicators

that some conditions take a longer period to

recover.

- consultant on shift
- ED clinicians should consider EDTU as an alternative to inpatient admission when clinically appropriate (Eg. Abdominal Pain,

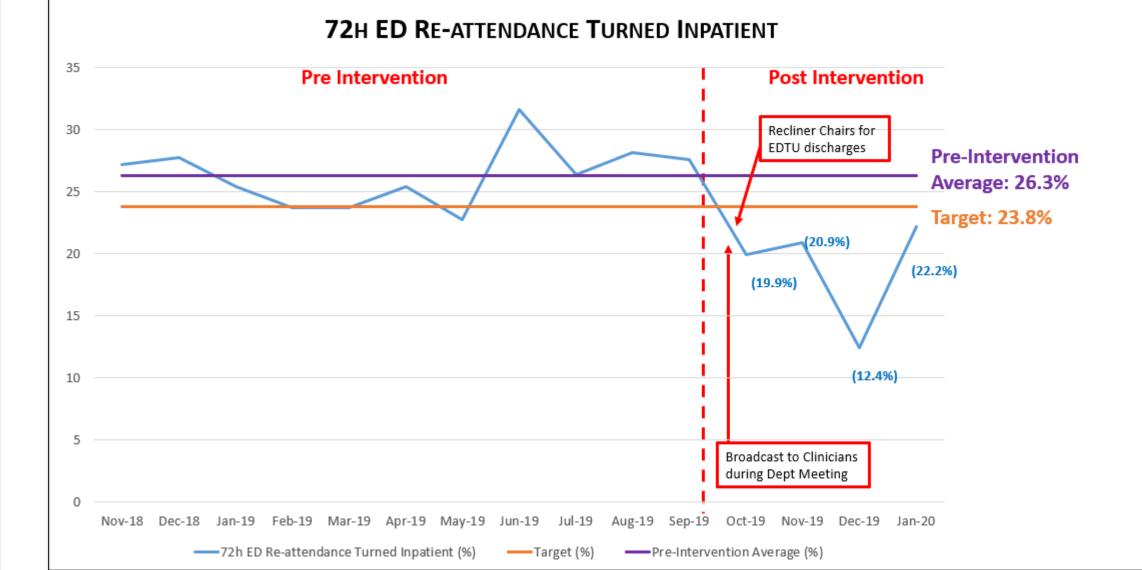
Unable to admit to EDTU as no EDTU bed • Utilize recliner chairs for patients awaiting discharge to improve turnover of beds available

- Discharge advice is not adequate because of Manage patient expectations time limitation to explain. Thus, patients return • Standardize and improve discharge advice to ED when they have persistent symptoms i.e. they expect to be completely well immediately after first ED consult and do not understand
- Gastroenteritis, Tonsillitis, Back Pain, Vertigo)
- - patient information sheets

Test & Implement Changes

| CYCLE | PLAN | Do | STUDY | Аст |
|-------|--|--|---|--|
| 1 | turning inpatient | Message was broadcasted to ALL doctors regarding 72h re-attendance turned inpatient as a quality indicator. Clinicians reminded to consider admission to EDTU when clinically appropriate Utilization of recliner chairs in the ED for patients awaiting for discharge (patient selection: no fall risk, ADL independent) | Reduction in percentage of reattendances turned inpatient was noted in Oct 2019. However on audit, it was noted that a few cases were not vetted by ED senior doctors. | Plan for reinforcement and reminders during clinical meeting and broadcasts. |
| 2 | To remind clinicians regarding requirement for vetting of all reattendance cases by senior doctors | Issue was raised and discussed during department clinical meeting in Oct 2019 on vetting of reattendance cases by senior doctors. | Further reduction in percentage of re-attendances turned inpatient was noted in Nov and Dec 2019 | To continue regular reminders during clinical meeting and broadcasts. |

There were initial plans to implement changes to improve patient discharge processes and patient education in order to better manage patient expectations on their conditions to avoid unnecessary re-attendances and requests for admission. This was however put on hold due to the COVID-19 situation and this QI project was terminated owing to closure of EDTU and diversion of resources to pandemic management.



Rate of 72h ED reattendance turning inpatient dropped from pre-intervention rate of 26.3% to below target of 23.8% for 3 consecutive months following interventions in Oct 2019

Spread Changes, Learning Points

What are/were the strategies to spread change after implementation?

- Support and buy-in from ED Head of Department and Senior Nurse Manager
- Broadcast and buy in from stakeholders (i.e. Clinicians of all levels)
- Tracking of outcome and feedback to stakeholders and sponsors

What are the key learnings from this project?

- Identify appropriate team members who will be able to reach out to the various stakeholders involved
- Actively support, engage stakeholders and maintain feedback loop



