

Project Title

Improving Discharge Planning With Implementation of Daily Board Multi-Disciplinary Meeting

Project Lead and Members

- Surendra Varman
- Sharen Lim Pei-Wen
- Alvin Tan Wee Beng
- Gurinderjit Kaur Sidhu
- Li Fuyin
- Long Soon Luan

Organisation(s) Involved

Changi General Hospital

Project Period

Start date: Jan 2017

Completed date: Jan 2018

Project Category

Quality Improvement, Process Improvement

Keywords

Changi General Hospital, Quality Improvement, Process Improvement, Quality Improvement Methodology, Improvement Tools, Process Redesign, Workflow Redesign, Effective Communications, Timely Discharge, Patient-Centre Care, Geriatric Medicine, Medical Services, Nursing, Allied Health, Length of Stay, Discharge Planning, Readmission Rate, Multi-Disciplinary Collaboration, Daily Board



Multi-Disciplinary Meeting, Plan-Do-Study-Act, Advanced Practice Nurse Department, Fishbone Diagram, Pilot, Run Chart, Plan-Do-Study-Act, Data Analysis

Name and Email of Project Contact Person(s)

Name: Surendra Varman

Email: varman.surendra.doraiswamy@singhealth.com.sg



Improving Discharge Planning With Implementation of Daily Board Multi Disciplinary Meeting



Changi General Hospital

SingHealth

Team Name: The Rise of the Silver Force

Team Members: Surendra Varman¹, Sharen Lim Pei-Wen¹, Alvin Tan Wee Beng¹, Gurinderjit Kaur

Sidhu¹, Li Fuyin², Long Soon Luan³

¹Department of Geriatric Medicine, ²APN development, ³Ward 66

1. Background

- Effective discharge planning encompasses a good teamwork between the doctors, nurses and various allied healthcare workers.
- A typical patient's journey in an inpatient Geriatric Ward is shown in Diagram 1.
- An analysis of discharges from the Geriatric Wards from Jan 17 to Jun 17 in the Integrated Building (IB), in Changi General Hospital (CGH) shows that most discharges happen late, as illustrated in Diagram 2.
- The various reasons for late discharges is shown in the fishbone diagram (Diagram 3).
- We believe that the main reason for late discharges is a breakdown in the communication between the doctors and various healthcare workers involved in patients care.
- We therefore initiated a Quality Improvement project aim to improve the communication between all team workers to have a more effective discharge planning.

Diagram 1: Workflow of Patient Journey

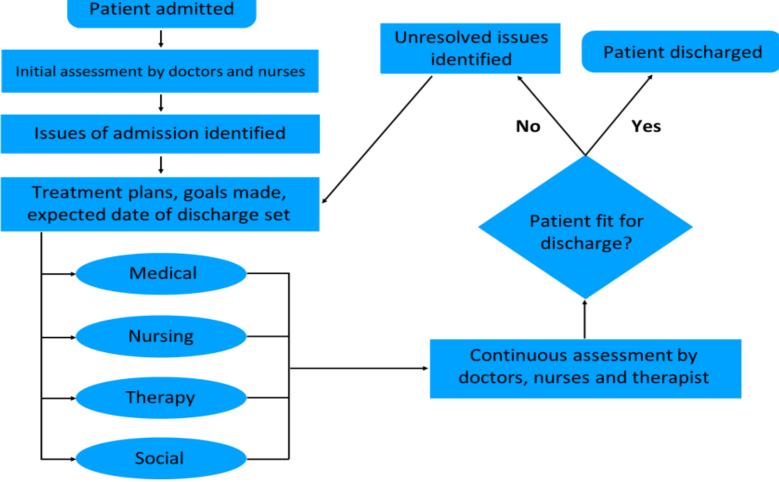
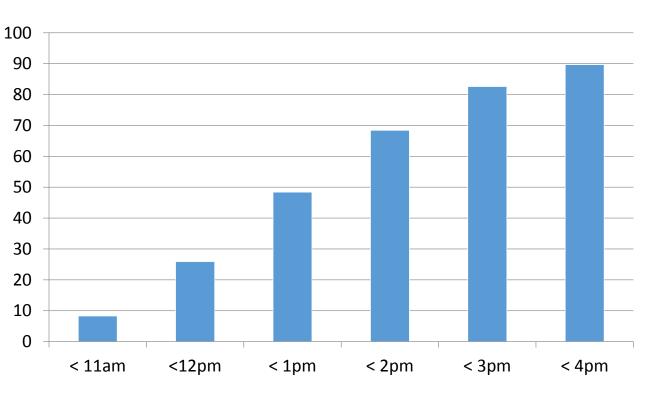
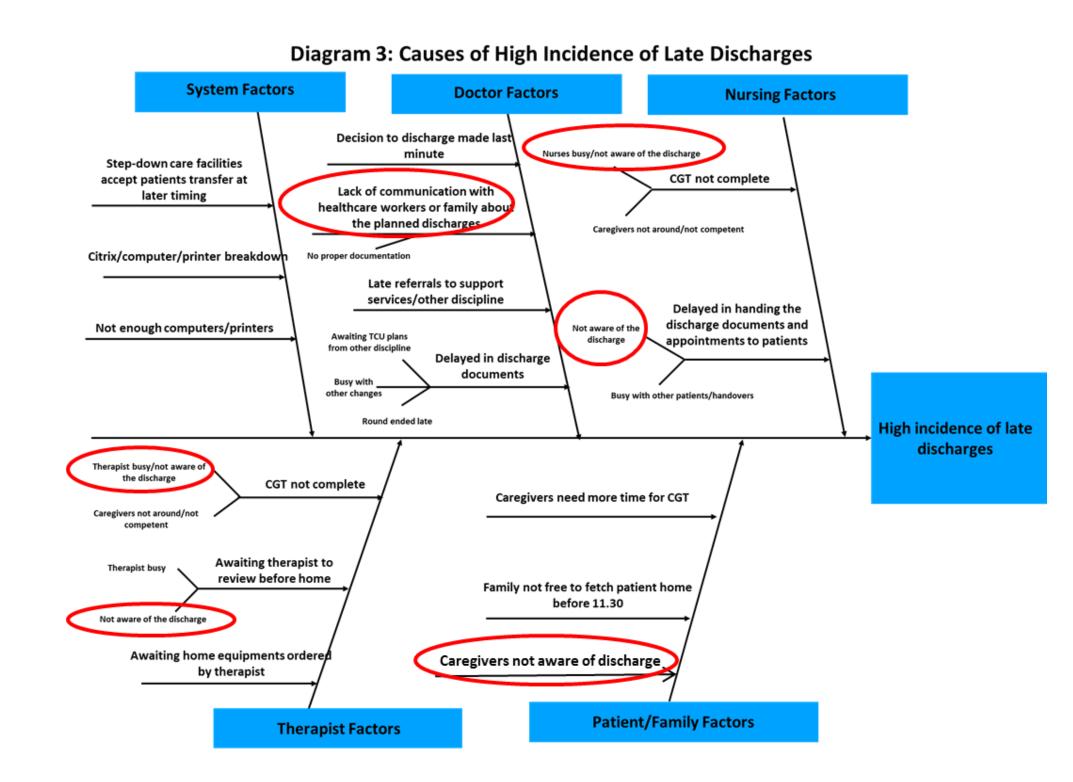




Diagram 2: % of Discharges





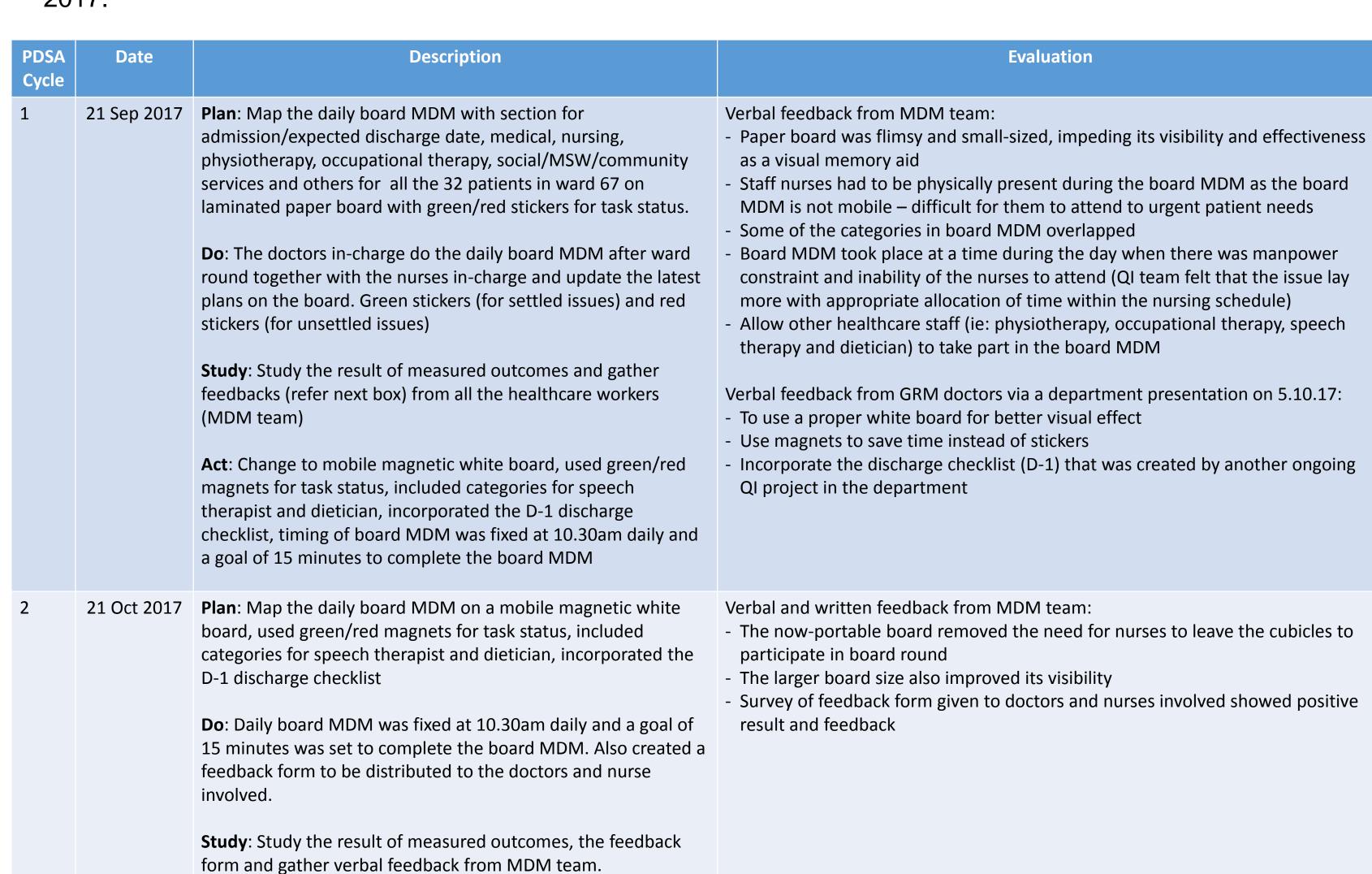
Mission Statement

Implementing a Daily Board Multi-disciplinary Meeting (MDM) in Ward 67, Changi General Hospital to improve the median discharges before 11.30am from 12.5% to 50%, without an increase in 30-day readmission rate and the average length of stay.

- Primary aim: Improve the percentage of discharges before 11.30am in Ward 67, CGH (This aim is chosen because it is the hospital wide initiative to improve discharges before 11.30am).
- Secondary aim: Improve the percentage of 30-day readmissions and average length of stay in Ward 67, CGH.

2. Changes (Methods)

 Implement a PILOT daily Board MDM in an acute Geriatric Ward 67 over a span of 4 months starting from 21st Sep 2017.



Act: Continue with daily board MDM with no dateline set

3. Measures (Results, Outcomes and Figures)

Data Collection Process

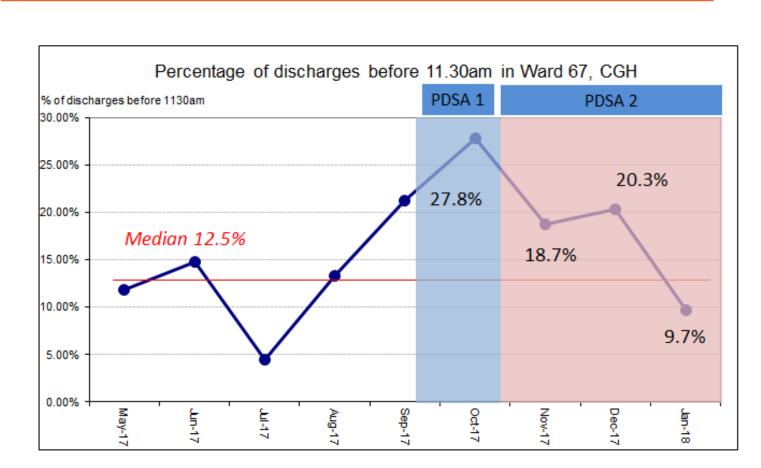
- Department of Medical Informatics, Changi General Hospital.
- Retrieved data on discharges before 1130am, 30-day readmission rate, average length of stay.
- Sample size: 749 discharges from May 17 Jan 18, 111 re-admissions within 30 days.

Data Analysis

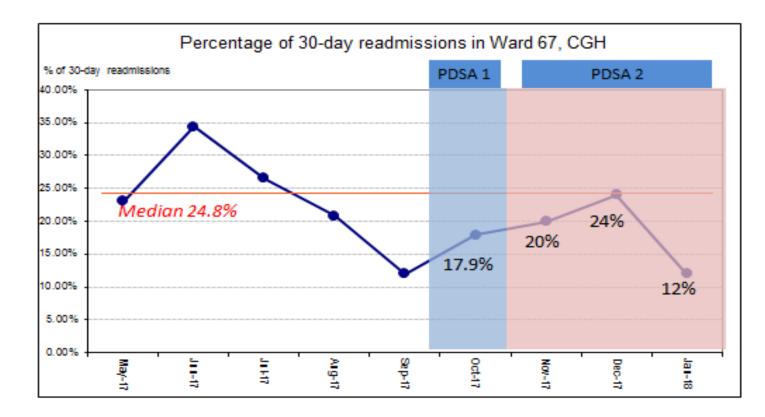
- Used Run Chart for data analysis.
- Post-intervention data (October-January 18) was compared to the baseline median data (May-August 17) before the intervention on 21st Sept 2017.

Results

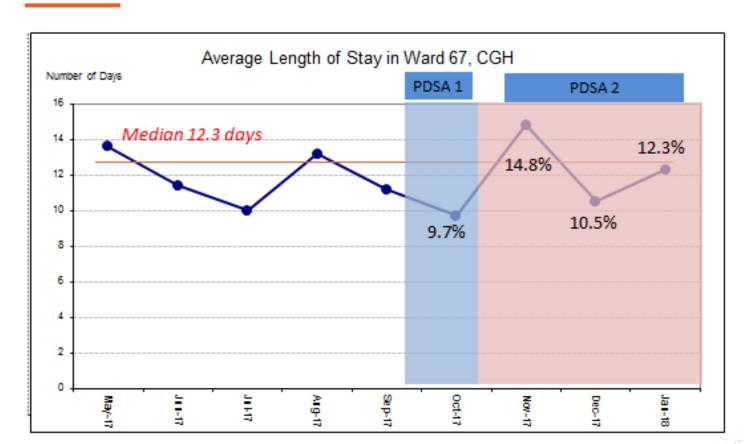
Percentage of discharges before 1130am

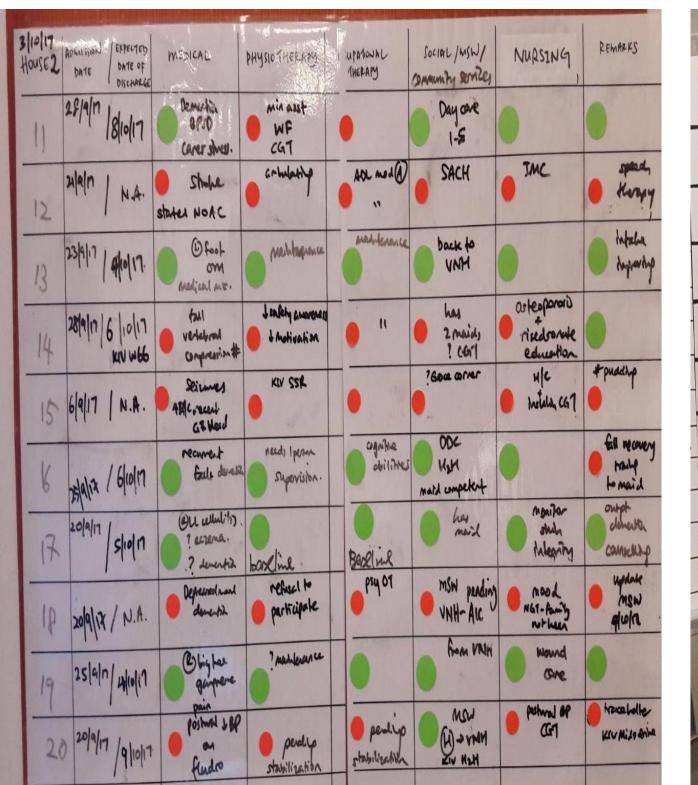


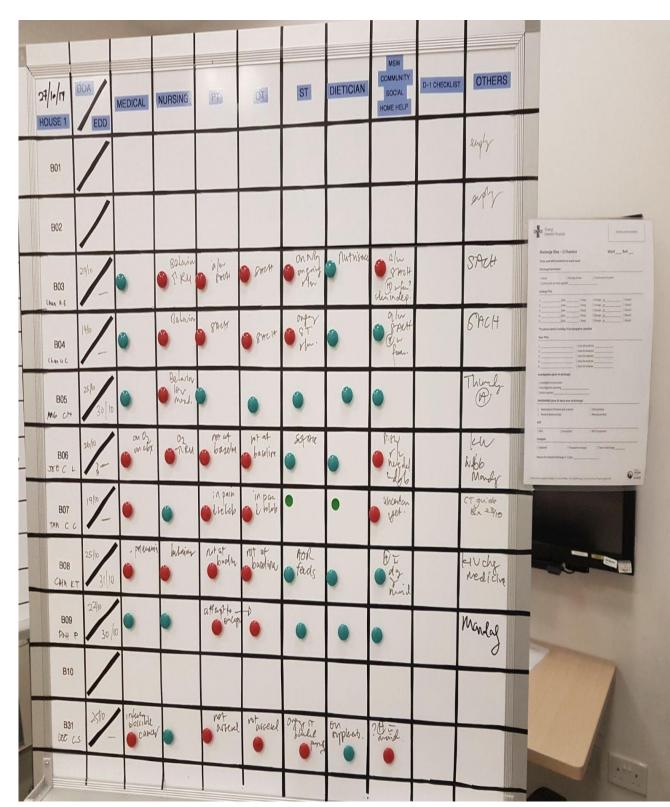
30 day readmissions



ALOS







PDSA 2 PDSA 1

4. Conclusion

- Discharges before 1130am improved from a median of 12.5% to 19.5%, 30-day readmission rate improved from a median of 24.8% to 18.95% and ALOS improved from a median of 12.3 days to 11.4 days.
- Given appropriate training, supervision and participation, the board round is useful in contributing to improved rates of early ward patient discharges. This is achieved by improved communication, understanding and consolidation of day-to-day ward tasks by the medical and other healthcare workers.
- Future directions of this project include: further refinements to the process and perhaps converting to an electronic form to improve user-friendliness, adapting the process to allow its use in non-geriatric wards to improve day-to-day patient care and pre-discharge workflow on those wards as well.