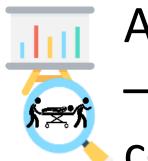
Frequent Readmitter Programme – Holistic Multi-Disciplinary Approach for Frequent Readmitters

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Background & Aim



An analysis of our hospital readmissions¹ during the period Jan - Oct 2015 showed that **1.3%** of patients with readmissions contributed to **8.85%** of all readmission episodes.

Key Achievements

All outcome indicators are tracked over a minimum 2-year period since the programme started. Patients discharged from the programme are also monitored to ensure their positive outcomes are sustained for at

This provided an impetus for the formation of the Frequent **Readmitter (FR) committee** to review FR associated with high healthcare costs, and better manage care to improve health from the perspective of medical and social needs.

In line with our national movement "Beyond Hospital to Community" and TTSH Better Care strategy, the **FR Programme** was established to develop effective and robust processes for proactive identification and management of patients with a pre-determined number of readmission episodes within a year.

¹Definition of readmission: Unplanned admission within 30 days post-discharged

Strategy

The committee gleaned insights on common FR profiles and recommended **interventions** from initial case reviews. They recognised that readmissions stemmed from interacting medical and social issues extending beyond hospital walls, highlighting the need for a holistic approach involving different care Figure 1. FR Profiles & Recommendations providers across care settings. Clinical AFTER Leadership, Today, with the appointment BEFORE HODs & Doctors of a Primary Doctor (PD), the programme has moved away Health doctor-centric to from STA. PATIENT patient-centric with a multi-**Medical Social** disciplinary approach. Workers (Medicine) Figure 2. Shift from Fragmented to Multi-Disciplinary Care (MSW) Coordination With focus on patient-centred care and to better synergise efforts, a systematic framework was developed.

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	Frequent Readmitter Profile	Recommendation	
1	Primary condition triggering frequent admission. Treatment have yet to be optimized (with potential solution)	Admit to ward as required	
2	Primary condition triggering frequent admission is largely due to advanced disease where treatment is optimized	Admit to ward as required + Activate ACP/PMD	Year 1
3	Patients with predominantly social issue and/or require/agreeable to institutionalization	Admit to ward as required + Activate /Follow up with MSW/TC	Year 2
4}	Patients who are refractory to medical and social interventions	ED Consultants to make decision to admit	

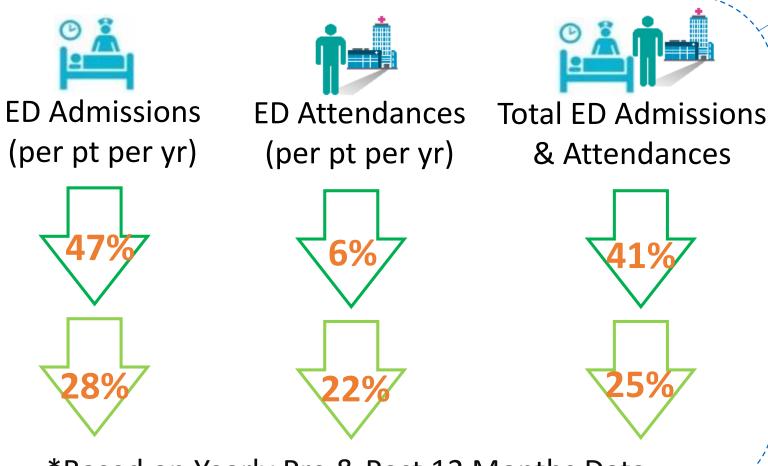
least one year from discharge.

1) An updated analysis of our hospital readmissions during the period Jan to Oct 2018 showed **460%** reduction in the number of patients with ≥ 7 readmission episodes compared to that in 2015, which translates into $\frac{165\%}{1000}$ reduction in total readmission episodes.

number of newly identified FRs with each batch due to 2 proactive clinical ownership of patient care plans

ED admissions and attendances that is sustained into the second year

41%

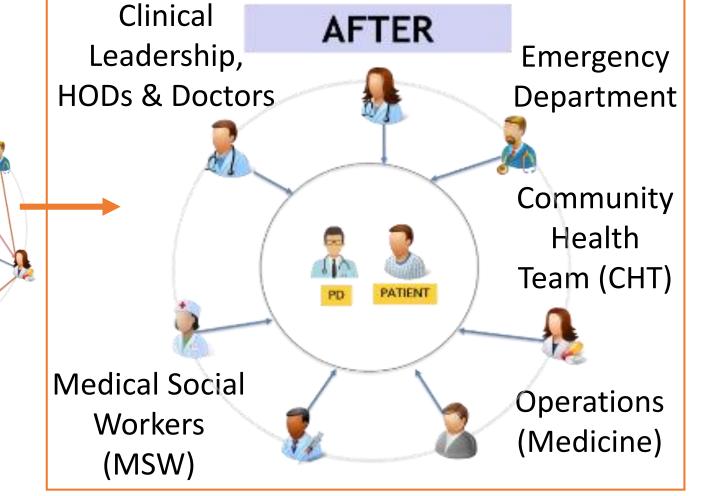


*Based on Yearly Pre & Post 12 Months Data

admissions Greater in attendances, which than may be attributed to:

- **Execution of pre-formulated** care plans at ED
- **Better support structure to** discharge patients from ED preventing admission

Assignme of Primary Dr/Dept. Dr.ED.MSW.CHT 🖧 🦺 🔱 🕺 systemic Multi-Discipling Case Discussion

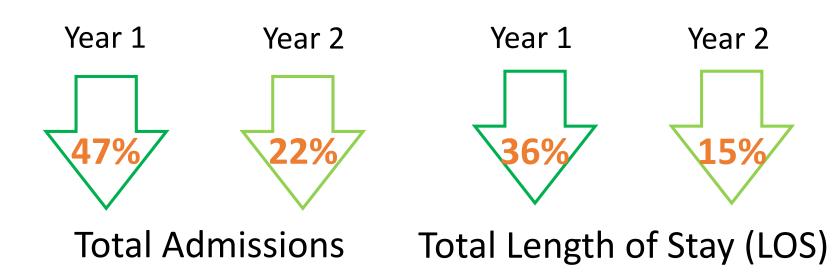


in total admissions and 4 length of stay (LOS) that is sustained into the second year

5

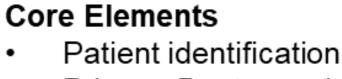
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% of Discharged³ Patients No admission within 1st year of discharge 1-1 31% Avg of 2 admissions per patient within 1st year of discharge **69%**



69% of patients discharged from the programme had no admission within 1st year of discharge.

³Criteria for discharge: No admission within the last consecutive 6 months



- Primary Doctor assignment
- Holistic case discussions

Enablers

- Regularly reviewed pre-determined criteria²
- Ownership of clinical departments
- FR profiles & recommendations

Supported By

- Active care plan follow up
- Quarterly reviews, Care plan update



⁴Days avoided in Year 1 = Admissions avoided (345) x ALOS (8.4) = 2898 days. Days avoided in Year 2 = Admissions avoided (20) x ALOS (8.4) = 168 days. Total cost avoidance in both years = (2898 + 168) days + \$1,000 = \$3,066,00. Assume cost of inpatient admission per day is \$1,000. Only admissions of patients with an active care plan for the full Year 1 and 2 are considered in this calculation.

Conclusion

Frequent Readmitter Profiles and Recommendations

Tracking of Indicators

STUDY

Periodic tracking of data indicators

Reinforced By Plan-Do-Study-Act (PDSA)

Figure 3. FR Programme Framework

²Programme criteria: ≥7 readmissions within one year from the start of the programme in Jun 2016, then expanded to ≥ 6 readmissions in Jan 2018 and subsequently ≥ 5 readmissions in Oct 2018

Oversight of patient care plan and admissions by Primary Doctor ensures that care delivered is coordinated across inpatient, outpatient and community settings. Partnerships with CHT and **MSW** serve as a bridge for engagements with community partners i.e. VWOs and allow targeted interventions to be initiated in the community. Case discussions and quarterly reviews not only enable relationship building and gathering of consensus among a diverse team, but also serves as a platform to discuss perspectives and align care goals for patients' benefit.

With our population rapidly ageing and experiencing dynamic healthcare needs, it has and will be an iterative process for the committee in understanding, managing and impacting this group of vulnerable patients.

The programme remains one of our hospital's strategic projects over the last 3 years. Throughout this journey, the direction has become clearer on the need for a multi-disciplinary approach and systematic framework to anchor the programme so that the processes remain productive and aligned to meet patient goals.

The programme not only brings health care value to patients by viewing them holistically, but also propels us forward in care design and delivery as we shift beyond hospital to community.