

Safe and Cost-efficient TCU transfers



Patient is relapsed

Cause F

Mr Yin Hao, Nursing

Dr Lau Boon Jia, Dept of Mood & Anxiety, West Region Mr Nur Hazmi Bin Kannan, Infrastructure & Support Services

Mission Statement

To provide safe and efficient transfers for patients for TCU.

The cost to transfer patients for TCU appointment via ambulance has been increasing over the years. Due to the high demand of ambulance services, it has also resulted in transfer delays. A team was formed to explore alternatives ways of transferring patients in a safe and efficient way but with more cost-effective methods. The initiative of TCU by taxi was then introduced.

Team Members Department Name Designation Nursing, North and Central Region Team Leader Yin Hao Senior Nurse Manager Dr Lau Boon Jia Consultant Dept of Mood & Anxiety, West Senior Estates Officer Nur Hazmi Bin Kannan Region Infrastructure & Support Services **Team Members** Jolina Chua Director Operations Clinical Governance and Quality **Assistant Manager** Wei Xing Operations, Central Region Lum Chee Wai **Assistant Manager** Lin Wanting Yvonne Accountant Finance Ms Ng Bee Lan **Chief Financial Officer** Sponsor Finance & Accounting Ms Samantha Ong Bee Director Operations Cheng Clinical Governance & Quality Facilitator Dr Tina Fang Director Dr Alex Su Senior Consultant North Region

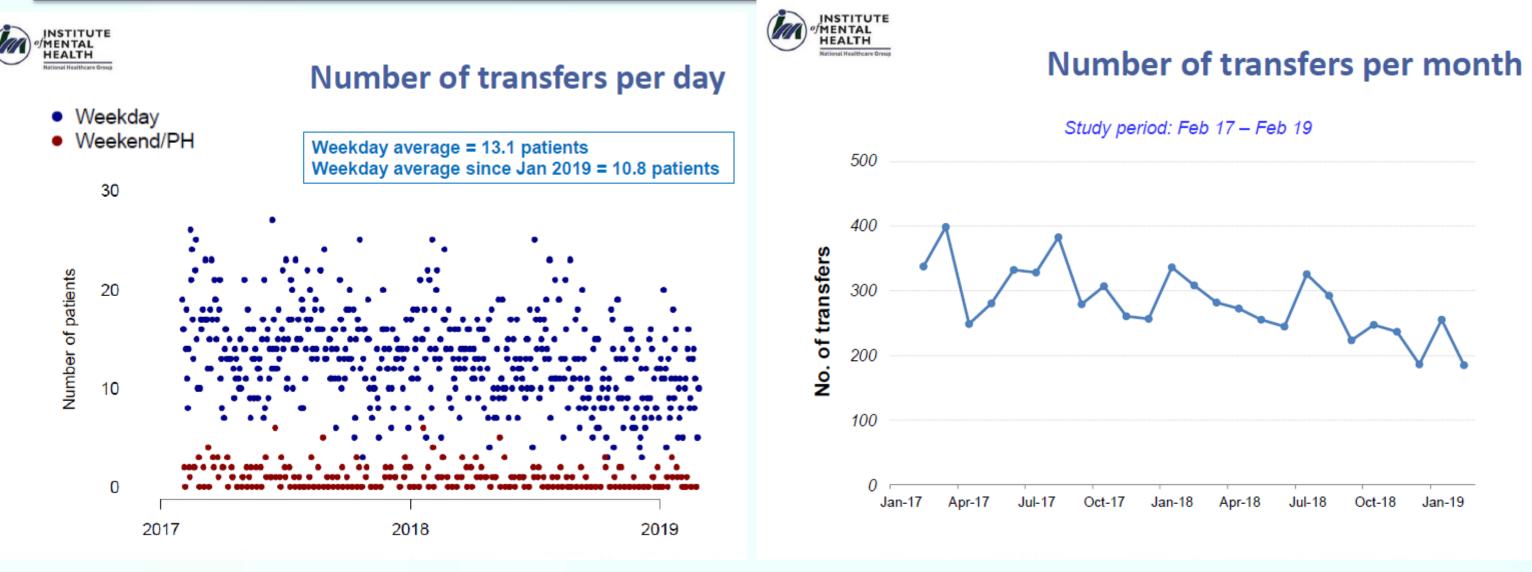
Evidence for a Problem Worth Solving



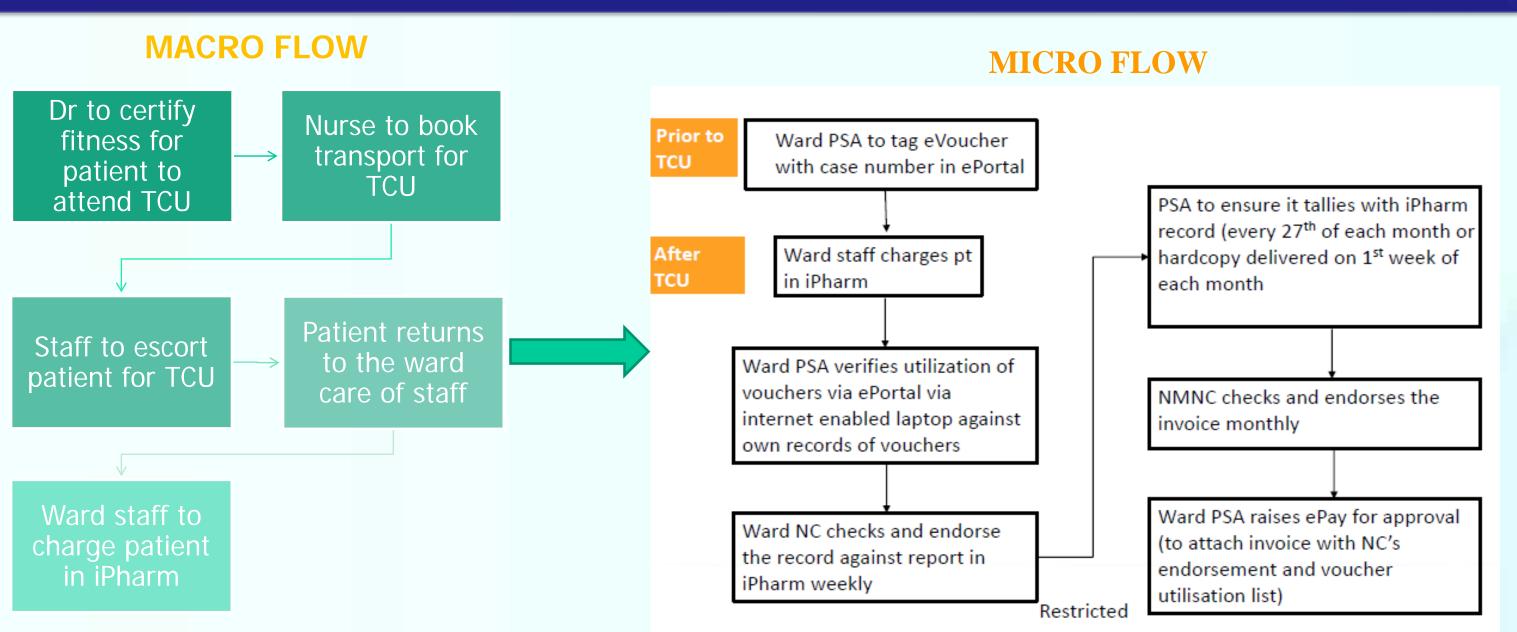
There has been approximately 15% year-on-year increase in ambulance costs in the past 5 years, with only a slight drop in FY2017.

This translates to an overall increase of \$210,000 in the cost of ambulance over 5 years.

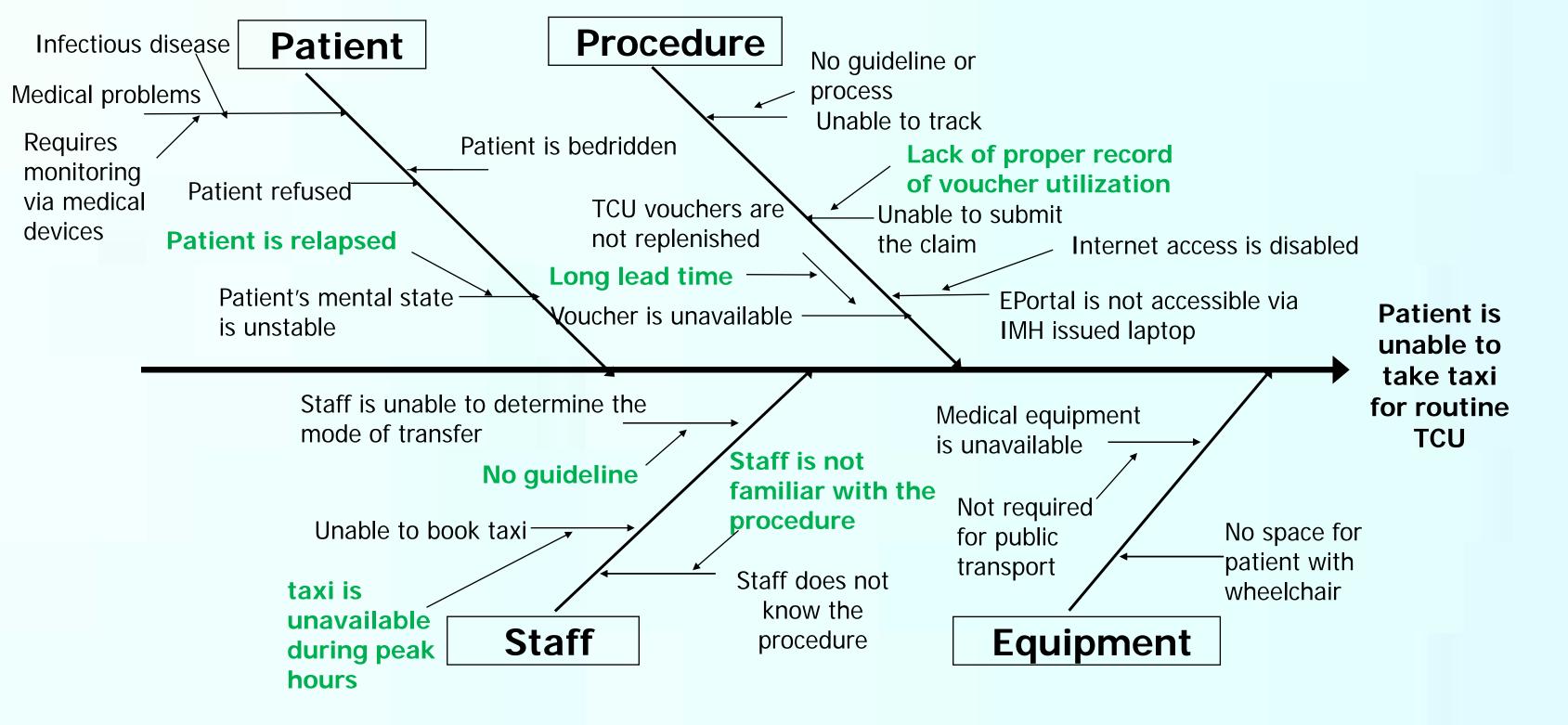
Current Performance of a Process



Flow Chart of Process



Cause and Effect Diagram



Pareto Chart Cause A No guideline for **Patient Unable To Take Taxi For Routine TCUs** staff to determine 10 100 the mode of transfer Cause B taxi is unavailable during peak hours Cause C Staff is not familiar with the procedure Cause D Lack of proper record of voucher 20 utilization Long lead time

Cause E Cause F

Implementation					
PROBLEM	INTERVENTION	DATE OF IMPLEMENTATION			
No guideline for staff to determine the mode of transfer	Set the criteria for patients using taxi for TCU	01 Sep 2019			
Taxi is unavailable during peak hours	Established the process to book taxi for transfer of patient for TCU				
Staff is not familiar with the procedure	Workflow for the management of taxi vouchers were created				
Lack of proper record of voucher utilization	Track sheet was created to track voucher utilization	01 Nov 2019			
Long lead time	Par level of taxi vouchers was determined for acute and long stay wards	01 Dec 2019			

• Feb 2020 - Jan 2022: Project was suspended due to COVID-19

Cause C Cause D

Main Concerns

- From Feb 2022: The pilot resumed and was fully implemented in all inpatients ward by May 2022
- From May 2022: The project was rolled out to Emergency Services and Specialist Outpatient Clinic.

Results

- 1. The 5 interventions were successfully implemented in all inpatient wards, ES, and SOC.
- 2. Service utilization: A total of 1900 patients have been transferred via Taxi instead of ambulance.
- 3. There is an overall time saved of 1900hrs for nurses as the duration of TCU was reduced by 1 hour per trip (2-way). The time saved can be better used by nurses to provide more clinical care to patients.

Breakdown of service utilization by departments

Cause B

Cause A

Number of Patients	150	575	175	525	300	-	75	75	25			
INSTITUTE "MENTAL HEALTH		Sa	ample o	f Invoic	e	10 () of	INSTITUTE MENTAL HEALTH			Trac	king of V	oucher
cabihary	STATEMENT OF ACCO	OUNTS / TAX INVOICE	GS	ABCHARGE ASIA PTE L 383 SIN MING DRI SINGAPORE 575; T REGISTRATION NO M2.00540 NY REGISTRATION NO 1881023 Page 1 c	VE 717 75-1 68C 4				to trip coming back to			
INSTITUTE OF MENTAL HEALTH BUANGKOK GREEN MEDICAL PARK 10 BUANGKOK VIEW SINGAPORE 539747 MR NUR HAZMI					7	SN	VOUCHER SERIAL NO.	REASON FOR REQUEST		NRIC (last four digit)		REMARKS
CUSTOMER ID INVOICE NO 181042 2378791	INVOICE DA 31/10/2019	TE PLEASE PA 27/11/2019		EMENT FOR THE PERIO 1/10/2019 to 31/10/20		Eg 1 2 3	123456789	TCU	Tan A K	789A	07-Dec-20	
			For	billing enquiries, please of 6550-8690 or em billing@cdgtaxi.com	ail		•	-			•	

BLK2 BLK3 BLK4 BLK5 BLK6 BLK7 BLK8 ES&SOC

Cost Savings						
	Ambulance cost	t Taxi Cost	Total cost saving per patient			
Cost saving per patier	nt \$100.00	\$75.00	\$25.00			
Total cost saving for a patients	all \$100.00 -\$75.00 \$25.00 X 1900 =					
	Average time spent per patient via ambulance	Average times spent per particular taxi	and the state of the			
Time saved per patient	5 hours	4 hours	1 hour			
Time saved for staff	ime saved for staff 1 hour X 1900= 1900 hours					
Ducklance Freedomed						

Problems Encountered

- 1. Lack of confidence among staff when escorting patients for TCU via taxi
- 2. PSA and ward staff cannot access the ePortal website during the initial stage
- 3. Delays in raising ePay for approval

Strategies to Sustain

- 1. Continue to have regular engagement sessions with stakeholders to share results (staff's feedback, patient's feedback and time saved). Through the engagement session, staff felt motivated and had increase morale as they were able to garnered a sense of achievement for the staff and patients in the ward.
- 2. To conduct focus group sessions with the ward team to understand their needs and explore how to enhance our existing measures and interventions.
- 3. Continue to collaborate with Comfort Taxi, General Support Service, and Finance Department to share feedback and proactively identify areas for improvement.