

Increase Rate of Decant for Eligible Patients Requiring Admission from TTSH Emergency Department to Alexandra Hospital (AH) Dr Michael Chia Yih Chong





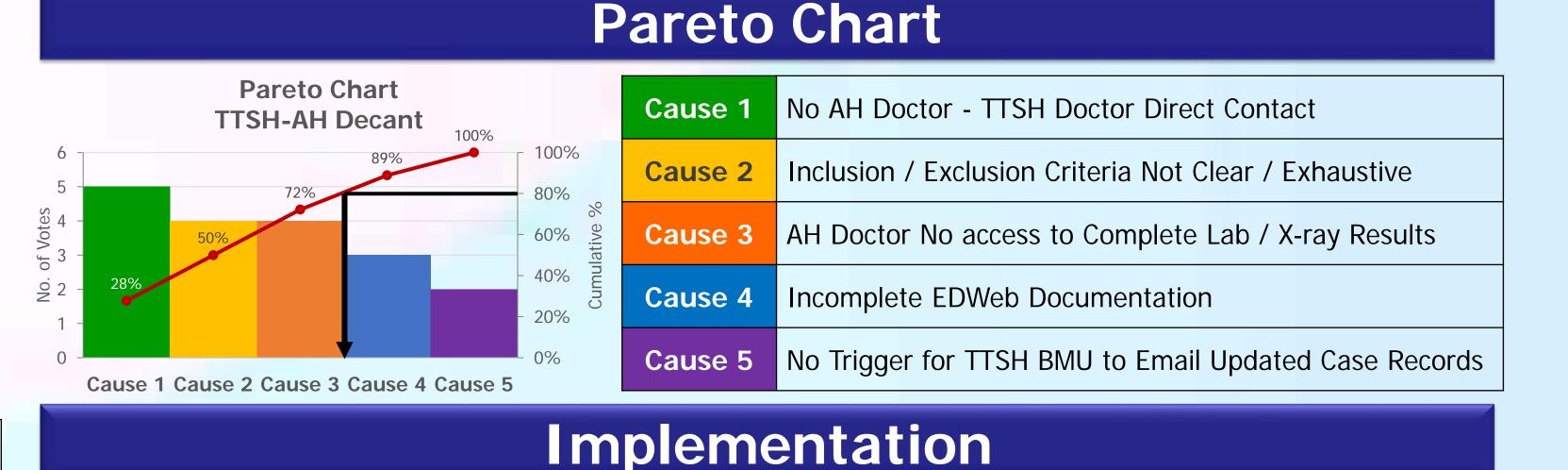
Adding years of healthy life

Mission Statement

To Increase the Rate of Successful Decant from Tan Tock Seng Hospital Emergency Department to Alexandra Hospital from 56% to 80% (stretch goal 100%) for Eligible Patients* over 6 months

*Eligible Patients: (1) Patients requiring admission; (2) Patients fulfil assessment of suitability to be decanted (a) Include Medical Discipline & (b) Exclude Specialty Medical Care (eg. Cardiology, Neurology, Renal, Gastroenterology & Surgery and Orthopaedics; (3) Patient / NOK agree to decant to Alexandra Hospital

Team Members							
	Name	Designation	Department				
Team Leader	Dr Michael Chia Yih Chong	Senior Consultant	Emergency Medicine				
	Dr Lee Chiao Hao	Associate Consultant	Emergency Medicine				
	Dr Loi Tsuan-Hao	Principal Resident Physician	Emergency Medicine				
TTSH Team	Qiu Hong	Assistant Nurse Clinician	Emergency Medicine				
Members	Ethel Kan Kwai Lam	Senior Manager	Emergency Medicine				
	Ng Sheh Li	Executive	Bed Management Unit				
	Charlene Tey Zhi Min	Senior Executive	Financial Counselling				
	Dr Zulkarnain Bin Ab Hamid	Consultant	AH Urgent Care Centre				
AH Team Members	Chiew Ying Siang Shane	Senior Patient Service Associate	AH Urgent Care Centre				
WICHINCI 3	Nurul Azura Binte Hamidi	Patient Service Associate	Bed Management Unit				
Sponsore	Dr Keith Ho	Head of Department	AH Urgent Care Centre				
Sponsors	Adj Asst Prof Ang Hou	Head of Department	Emergency Medicine				
Mentor	Adj A/Prof Tan Hui Ling						



Evidence for a Problem Worth Solving

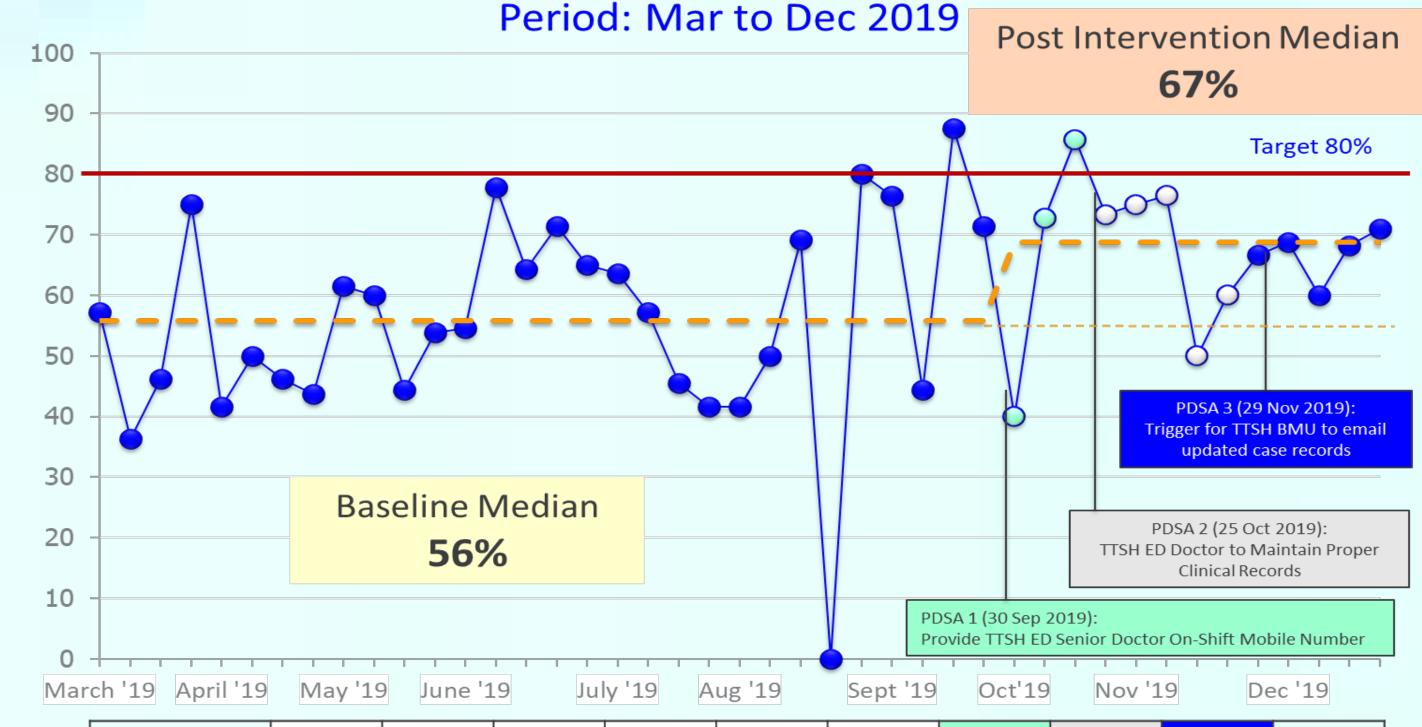
Top 5 Reasons of Rejection by Alexandra Hospital

- 1. Patients with background of Psychiatric and/or Alcoholic issues
- 2. Patients with undifferentiated chest pain, raised troponin, needing telemetry and/or Cardiology review
- 3. Patients with undifferentiated anaemia
- 4. Patients with hypo/hyper-kalemia
- 5. Patients with Fever AND
 - Abdominal pain, tender => unable to rule out intra-abdominal sepsis
 Joint pain, back pain => unable to rule out septic arthritis / discitis

	Root Cause	Intervention	Implementation Date		
	Cause 1: No AH Doctor	Provided TTSH ED Doctor mobile	30 Sept 2019		
	- TTSH Doctor Direct	phone number to AH ED Doctor for			
_	Contact	direct contact 24hrs, 365 days.			
_	Cause 4: Incomplete	The need for proper documentation	25 Oct 2019		
_	EDWeb Documentation	shared at TTSH ED Department M&M			
_	Cause 5: No Trigger for	ED Doctor to alert TTSH BMU	29 Nov 2019		
_	TTSH BMU to Email	through EDWeb to fax clinical notes			
<u> </u>	Updated Case Records	once updated and completed			
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Results

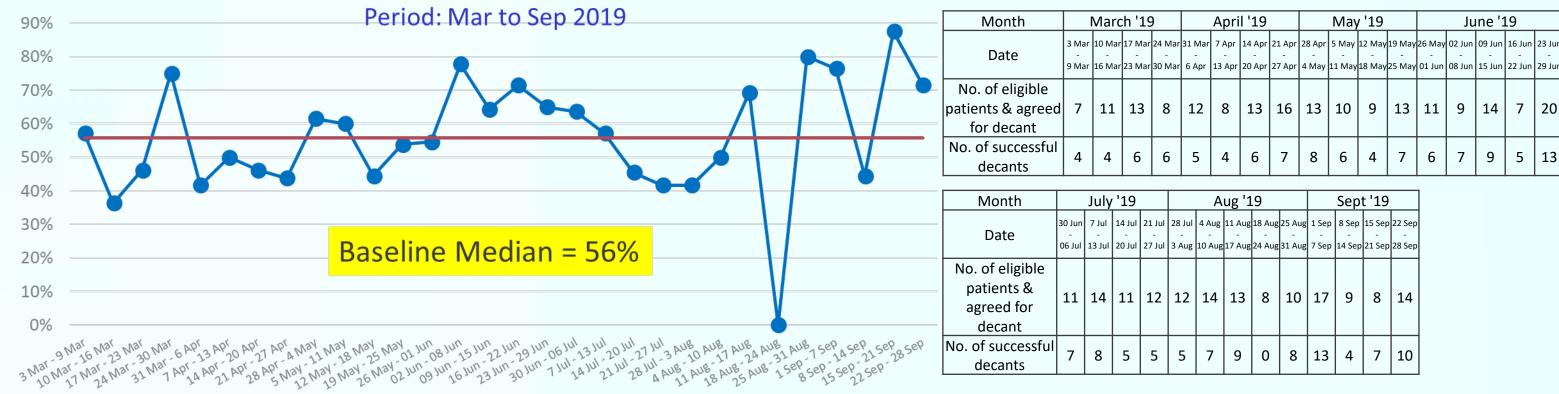
% of Successful Decant for Eligible Patients to Alexandra Hospital



- Headache => unable to rule out meningoencephalitis
- Cellulitis with bullous => unable to rule out necrotizing fasciitis
- UTI with previous renal stone or ureter device => unable to rule out kidney abscess

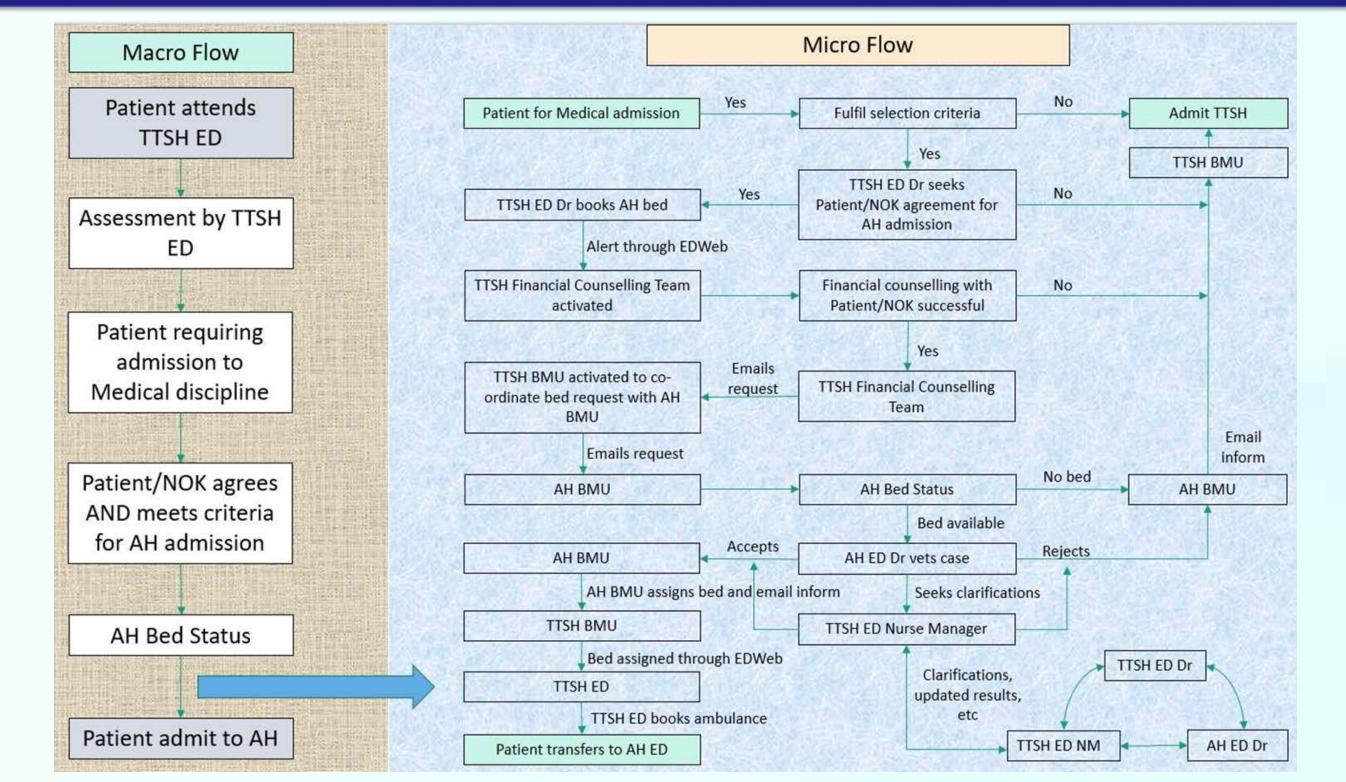
Current Performance of a Process

^{00%} — % of Successful Decant for Eligible Patients to Alexandra Hospitals



Source: Decant Data collected by TTSH ED & Alexandra Hospital

Flow Chart of Process



[Month	Mar 2019	Apr 2019	May 2019	Jun 2019	Jul 2019	Aug 2019	Sep 2019	Oct 2019	Nov 2019	Dec 2019
	No. of eligible patients & agreed for decant	39	49	45	61	48	57	48	38	71	67
	No. of successful decants	20	22	25	40	25	29	34	27	47	45

Source: Decant Data collected by TTSH ED & Alexandra Hospital

Cost Savings

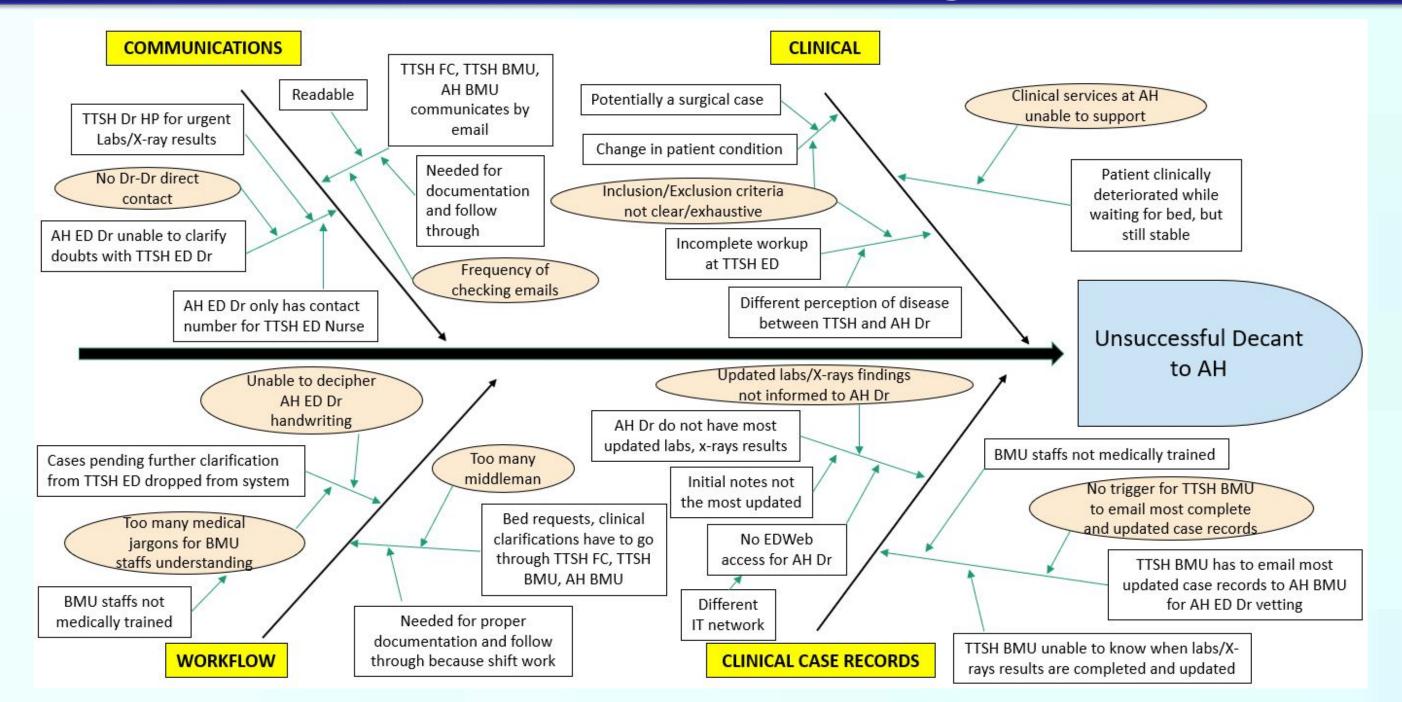
	Pre-Implementation (Mar 2019 to Sep 2019)	Post-Implementation (Oct 2019 to present)				
% of Patients Decanted to AH	56%	67%				
Successful average number of patients decanted (Per Week)	6.47 patients	9.15 patients				
Assume: Average LOS per patient in TTSH General Ward is 3 days						
No. of Bed Days Saved (Per Week)	(9.15 – 6.47) x 3 = 8.04					
	8.04 x 52 = 418					
Total No. of Bed Days Saved (Annualized)	418 Bed Days Saved					
	418 x \$1,114 = \$465,652					
Difference in Bed Days in Monetary Terms (Annualized):	\$465,652 (Sav	vings in Monetary Terms)				

Note: Unit Cost Inpatient Ward Stay = \$1114/patient/day



1. Difficult to implement project involving different hospitals (TTSH and AH);

Cause and Effect Diagram



- and different departments (AH Emergency Department and AH General Medicine). 2. Difficult to co-ordinate common time for meetings when CPIP group is large.
- 3. Very important to have strong support from Sponsors.
- 4. Knowing the ground & work processes is essential for planning interventions.
- 5. As interventions involve multiple teams (medical, nursing to administrative staffs), very important to check understanding between all parties.
- 6. Best to communicate face-to-face to avoid misunderstanding, compared to using text messages via emails or WhatsApp.

Strategies to Sustain

- 1. Continual education
 - New staff orientation (doctors, nurses, administrative staffs)
 - Reminders at monthly M&M Rounds; Nursing Forums; Roll Calls
- 2. Empowerment of ground staff Identify champions who will constantly remind or new methods to operationalising workflow
- 3. Communications with other hospital
 - Open communication channels for constant feedback, review and audit.
 - No blame culture
 - Building trust
 - Willing to try new ways/methods of doing