

CHI Learning & Development (CHILD) System

Project Title

Improve Percentage of MAC Patients Proceed for Scheduled VIR Procedures within 60mins from Appointment Time

Project Lead and Members

Project lead: Ms Rosaline Yeo Lay Peng

Project members: Dr Joseph Lo Zhiwen, Ms Dorothy Tan, Ms Kelly Wang Zhi Fan, Ms Shen Peipei, Ms Chong Yik Huay, Ms Chew Lee Lik, Ms Roshnaran Begum D/O Shaik Mohamed and Ms Wan Kit Yin.

Organisation(s) Involved

Tan Tock Seng Hospital

Healthcare Family Group(s) Involved in this Project

Ancillary Care, Medical, Nursing

Applicable Specialty or Discipline

Medical Ambulatory, Respiratory & Critical Care Medicine, Diagnostic Radiology, General Surgery

Project Period

Start date: January 2019

Completed date: December 2019

Aims

To improve the percentage of MAC patients proceed for scheduled Vascular Interventional Radiological (VIR) procedures within 60minutes (from the appointment time) from 22% to 80% within 6months.



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Project Attachment

See poster attached/below

Background

See poster attached/below

Methods

See poster attached/below

Results

See poster attached/below

Lessons Learnt

See poster attached/below

Conclusion

See poster attached/below

Additional Information

Accorded the NHG Quality Day 2021 (Category C: Developing a Flexible & Sustainable Workforce) Merit Award

Project Category

Care Continuum

Outpatient Care, Sepcialist Outpatient Care

Care & Process Redesign

Access to Care, Waiting Time, Turnaround Time



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Keywords

Medical Ambulatory Care, Vascular Interventional Radiological

Name and Email of Project Contact Person(s)

Name: Ms Rosaline Yeo Lay Peng

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Improve Percentage of MAC Patients Proceed for Scheduled VIR Procedures within 60mins from Appointment Time



Adding years of healthy life

Ms Rosaline Yeo Lay Peng Medical Ambulatory Centre (MAC)

Patient will either admit

to Emergency

Department or Inpatient

for the elective infusion

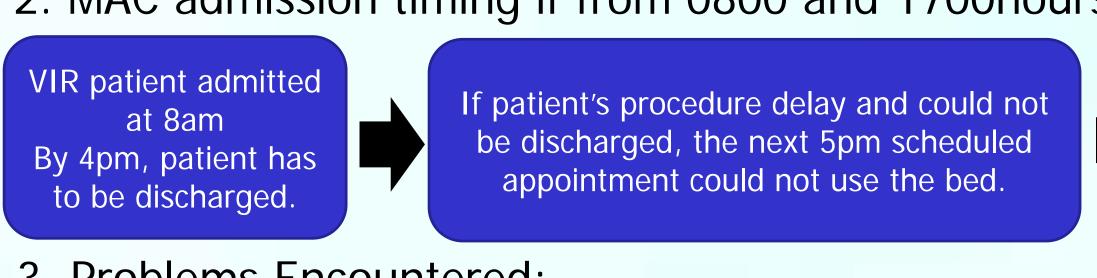
Mission Statement

To improve the percentage of MAC patients proceed for scheduled Vascular Interventional Radiological (VIR) procedures within 60 minutes (from the appointment time) from 22% to 80% within 6 months

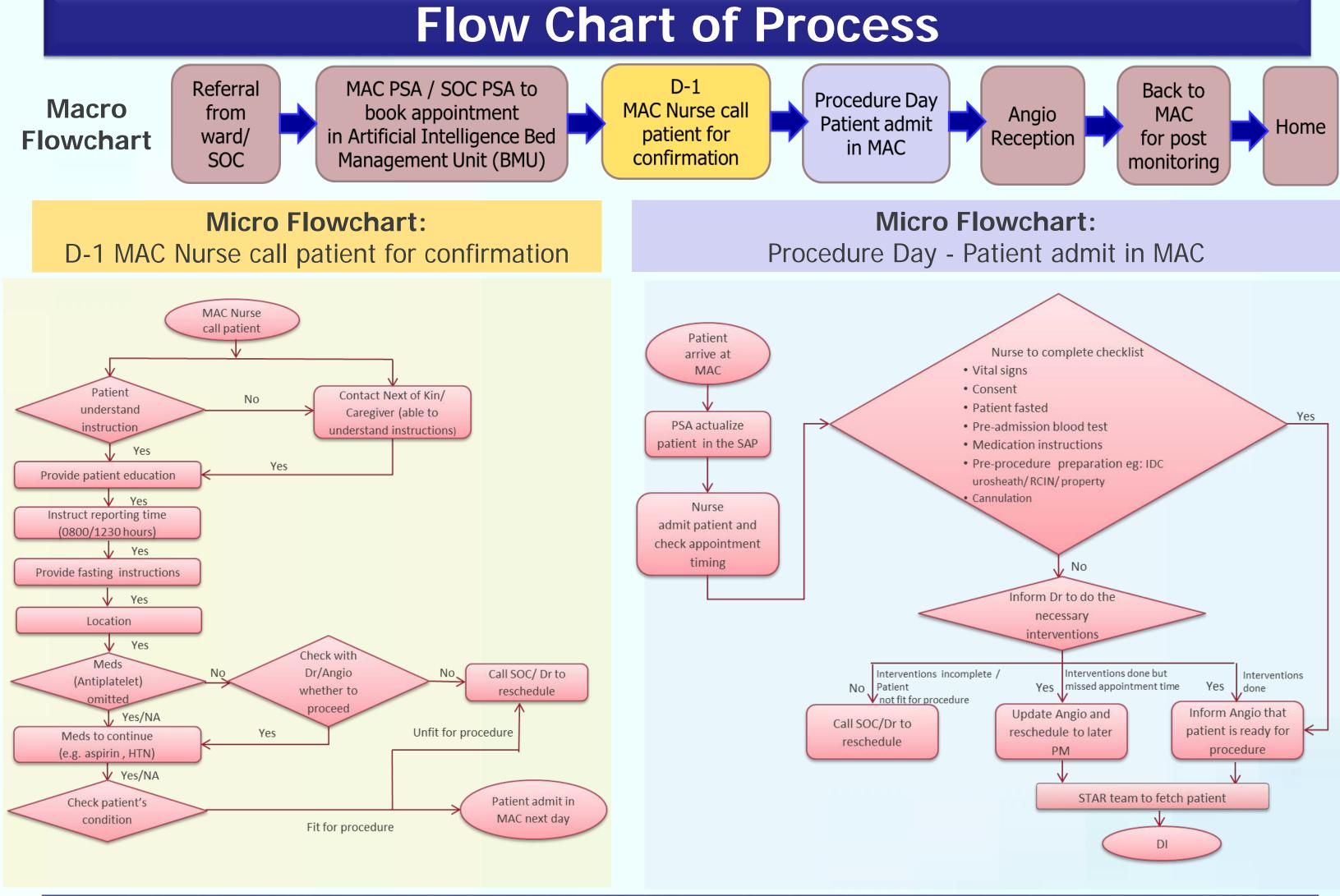
Team Members							
	Name	Designation	Department				
Team Leader	Ms Rosaline Yeo Lay Peng	Senior Nurse Manager	Previous at MAC Present at Nursing Service				
Team	Dr Joseph Lo Zhiwen Associate Consultant Ms Dorothy Tan Nurse Clinician (NC)		General Surgery				
Members			Diagnostic Radiology				
	Ms Kelly Wang Zhi Fan	Assistant NC	Diagnostic Radiology				
	Ms Shen Peipei	Senior Staff Nurse	MAC				
Ms Chong Yik Huay		Staff Nurse	MAC				
	Ms Chew Lee Lik	Patient Service Associate	MAC				
	Ms Roshnaran Begum D/O Shaik Mohamed	Senior Assistant Nurse	Star Team				
	Ms Wan Kit Yin	Patient Service Associate	Clinic B1A				
Sponsor	A/Prof Alan Ng Wei Keong	Senior Consultant	Respiratory & Critical Care Medicine				
Mentor	Ms Christina Tan Hwei Hian						

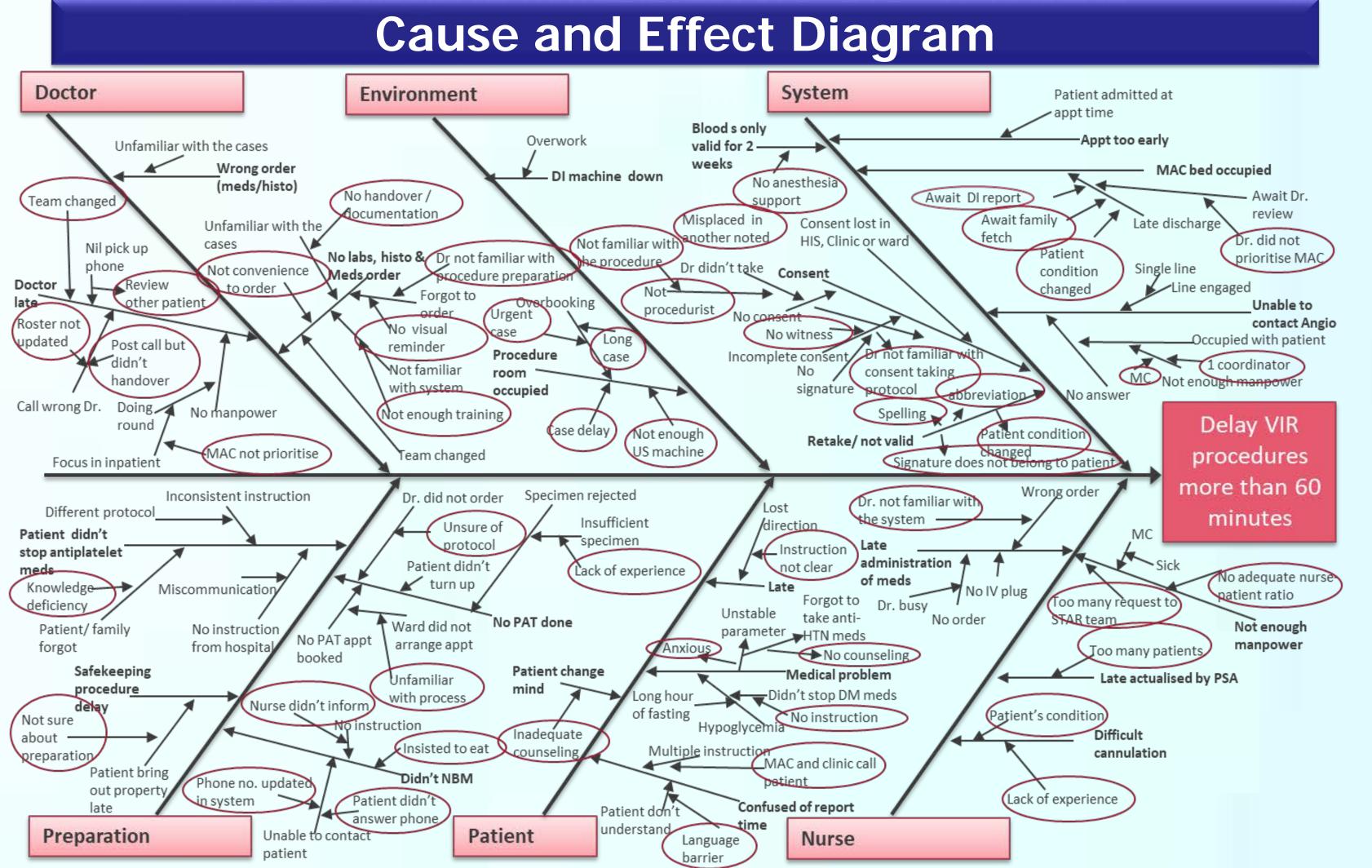
Evidence for a Problem Worth Solving

- 1. MAC is a short stay facility where patients are managed and discharged within 24 hours, instead of being admitted as inpatients.
- 2. MAC admission timing if from 0800 and 1700hours



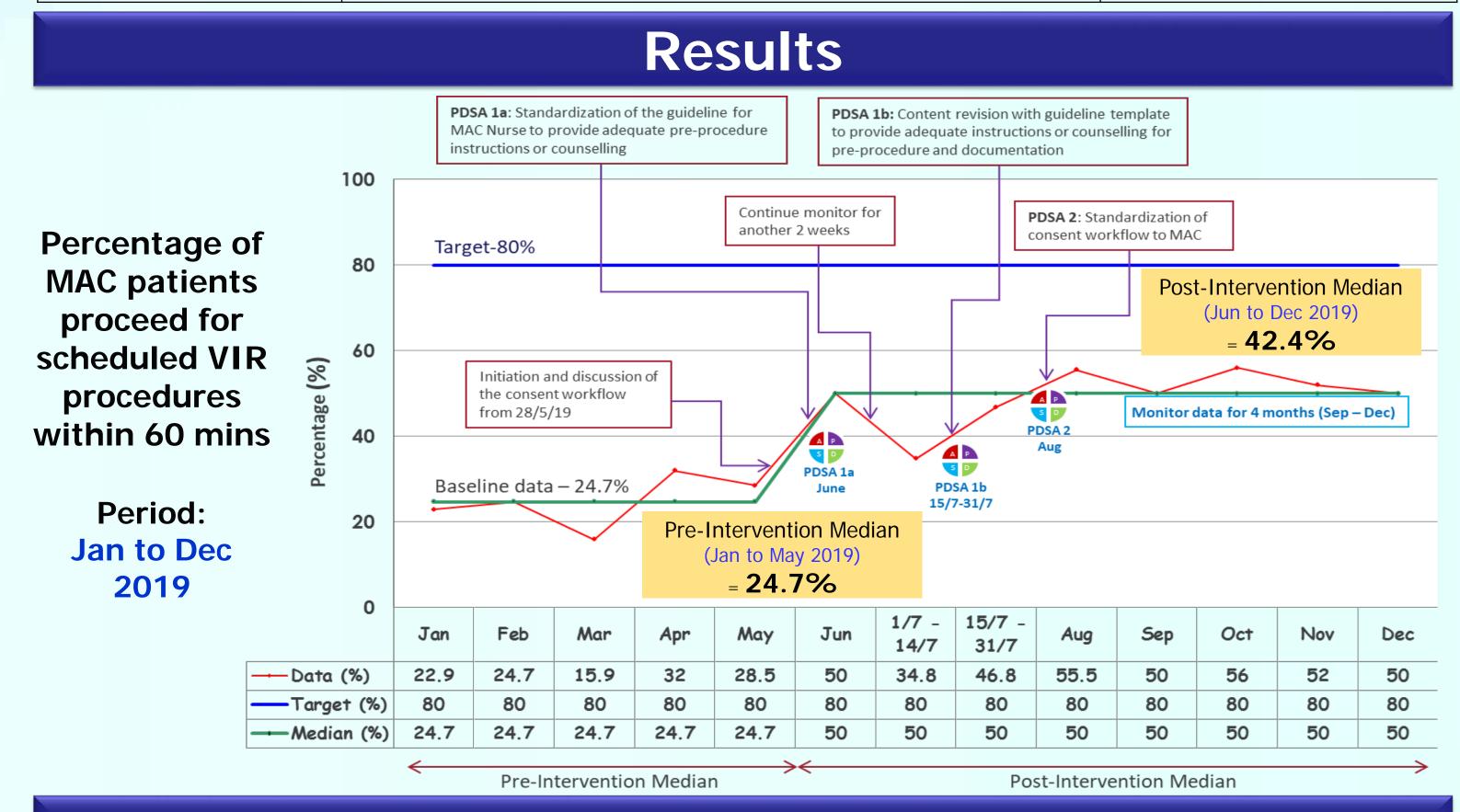
- 3. Problems Encountered:
 - Delay in start time of procedure
 - Decrease patient's satisfaction (both 8am and 5pm admission timing)
 - Patients are unable to discharge on time (by 4pm); next scheduled patients are not able to start their treatment on time.
 - Nurses and PSAs required to re-work and plan for beds for next scheduled patients in order to commence their treatment timely





Pareto Chart Causes that resulted No / Inadequate instructions or Cause A in delay VIR Procedures more than 60mins counselling Cause B Consent misplaced Ward unfamiliar with ambulatory pre procedure process Patient's condition (difficult IV Cause D cannulation) Unsure of Angio protocol (bloods only Cause E valid for 2 weeks) Cause F Too many ad-hoc / force in Angio cases Cause G Patient's medical conditions (anxious) Cause Cause Cause Cause Cause Cause Cause H Too many patients

Implementation						
Root Cause	Intervention	Implementation Date				
Cause A: No / Inadequate Instructions or Counselling	PDSA 1: Standardization of the guideline for MAC Nurse to provide adequate pre-procedure instructions or counselling PDSA 1A: Content revision with guideline	1 Jun 2019 15 Jul 2019				
Journsoning	template					
Cause B: Consent misplaced	PDSA 2: Standardization of consent workflow to MAC	1 Aug 2019				



Cost Savings							
Per Patient	Item	Pre-Intervention	Post-Intervention	Outcome			
	Mean Time Taken (mins)	106	73	33			
	ent Estimated Manhour Cost(s) Saved (\$)	\$136.20	\$68.10	\$68.10			
	Manpower Savings (\$)	\$136.20	\$68.10	\$68.10			
Annualized	Mean Time Taken (mins)	152,640	105120	47,520			
	ed Estimated Manhour Cost(s) Saved (\$)	\$196,128.00	\$98,064.00	\$98,064.00			
	Total Manpower Savings (\$)	\$196,128.00	\$98,064.00	\$98,064.00			

Problems Encountered

- 1. Time consuming in collecting data
- 2. Staff expectations' on changing interventions during PDSA overcome by constant communication and feedback session
- 3. Stakeholder's to stay aligned establish objectives of the project scope

Lessons Learnt

- 1. Communication is imperative for effective teamwork
- 2. Great effort is needed for collaboration across all stakeholders

chemotherapy)

* if applicable

- 3. Reviewing the current processes / practice is important for constant improvement
- 4. Interventions may not work initially but PDSA will provide insightful perspective
- 5. Implementation might benefit relevant department. However, need to be mindful on downstream impact to other areas.

