

Improving First Visit Attendance for Patients Referred from Medical Oncology Clinic to Palliative Medicine Clinic



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Department of Palliative Medicine

Adding years of healthy life

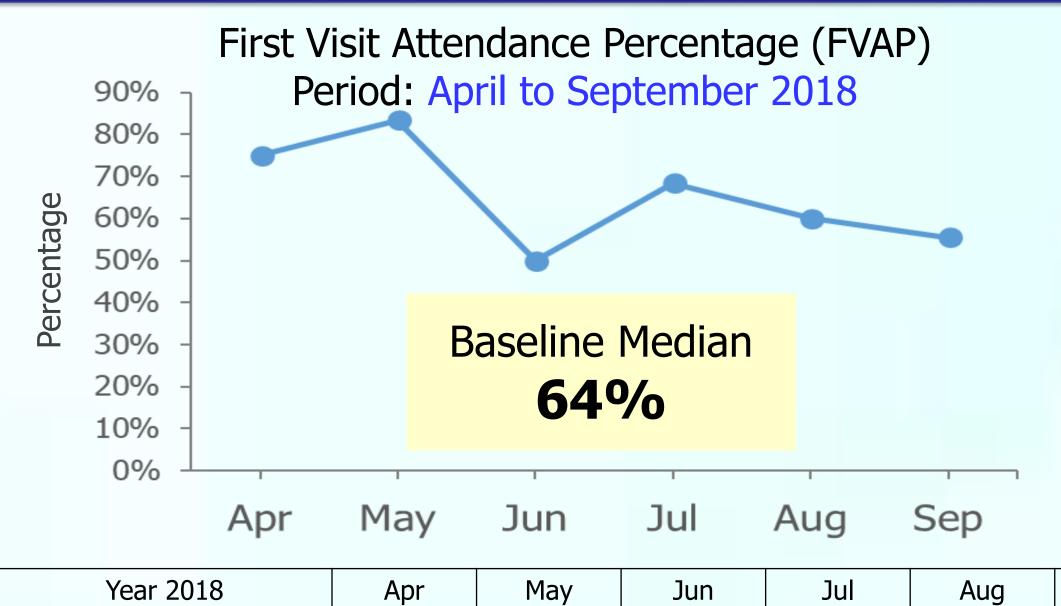
Mission Statement

To improve the FIRST VISIT ATTENDANCE PERCENTAGE (FVAP)* of patients referred from Medical Oncology Clinic (MOC) to Palliative Medicine Clinic (PMC) from 64%** to 100%*** within 6 months

- * First Visit Attendance Percentage (FVAP): Refers to first visit patients who are referred by MOC and seen in PMC
- ** FVAP = Number of patients attended FV divide by Number of patients referred by MOC excluding those who died or were too weak
- *** Exclude patients who were too weak or had died before clinic appointment

Team Members									
	Name	Department							
Team	Dr Ang Shih-Ling	Principal Resident Physician	Palliative Medicine						
Leaders	Dr Yee Choon Meng	Palliative Medicine							
Team Members	Siti Mariam Binte Jailani	Senior PSA	Clinic 5A						
	Atiqah Nor Fatin	PSA	Clinic 5A						
	Dr Troy Sullivan	Medical Oncology							
	Amanda Guo	CCC							
Sponsors	Adj A/Prof Mervyn Koh Yo	<u>Legend</u> PSA = Patient Service							
	Adj A/Prof Lavina Bharwa	Associate							
Facilitator	Adj A/Prof Tan Hui Ling	CCC = Continuing & Community Care							

Evidence for a Problem Worth Solving



16

decides to refer

First Visit Attendance

Total Medical Oncology

Patients Referred

(minus too sick / RIP patients)

Oncologist

Impact of Missed Appointment to Patients with Advanced Cancer:

- 1) Worsen survival
- 2) Increased Emergency utilisation

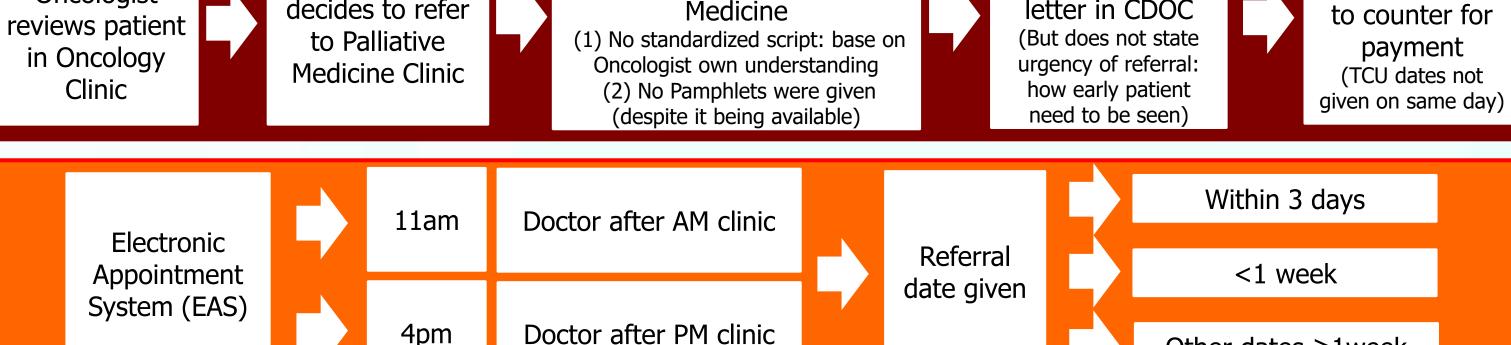
Medical Oncology Clinic is the biggest Palliative Medicine Clinic referral source

Flow Chart of Process Follow up call Medical Booked into Referral to Oncology Referral to check Clinic Screening electronic by PMD whether date attendance review and referral appointment /default referral to patient is doctor given letter system PMC coming Oncologist writes Oncologist will briefly tell PSAs will bring Medical Oncologist PMD referral patient about Palliative patient / family

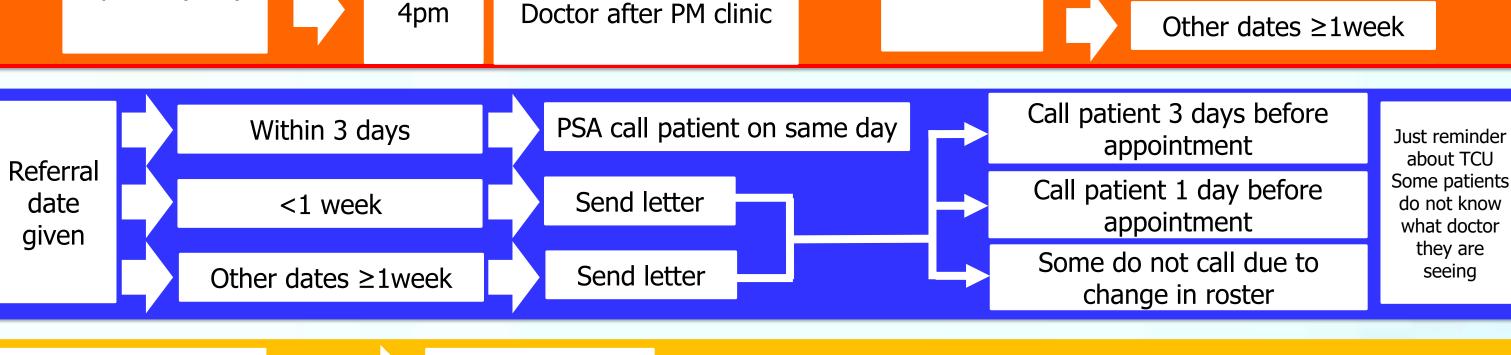
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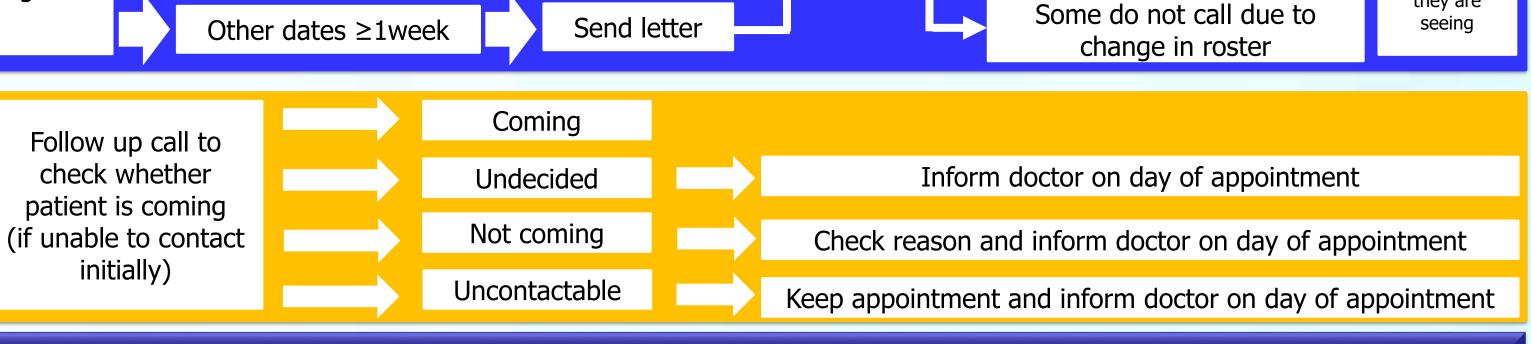
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letter in CDOC



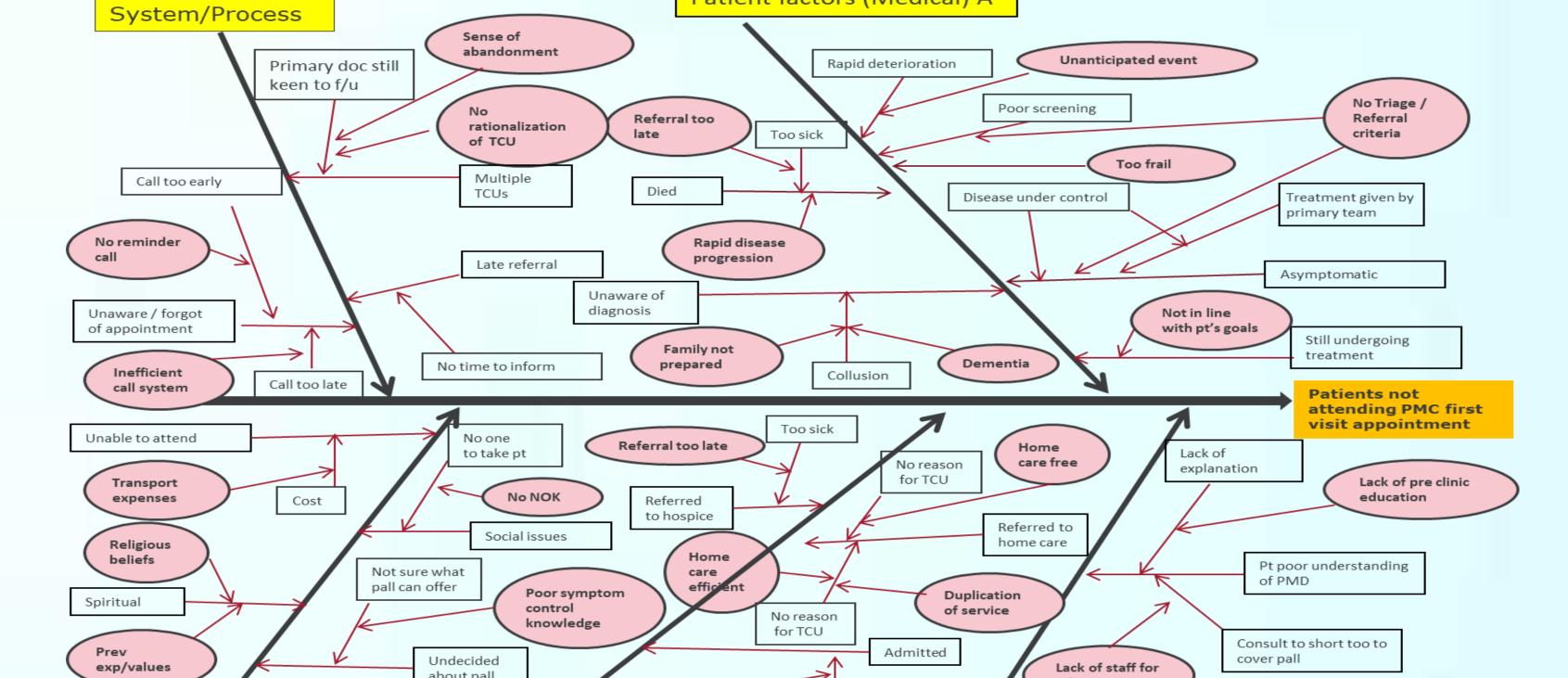
Medicine





Cause and Effect Diagram

Patient factors (Medical) A



Clinician

factors

Patient factors (Medical) B

Patient factors

Pareto Chart Reasons Patients Not Coming for First Visit Lack of pre-clinic education Cause A Cause B No triage / referral criteria Vote Inefficient call system Cause C Lack of dedicated staff for education Unanticipated event Cause E Cause F Too frail Cause Cause Cause Cause Cause Cause No reminder calls **Main Concerns**

Implementation									
Root Cause	Intervention	Implementation Date							
Lack of pre-clinic	 PDSA 1A: a) Palliative care pamphlets (developed by Singapore Hospice Council) to be distributed by PSA to patient/family members once they are referred to PMC b) Dedicated front desk staff to counsel patients about what Palliative care is about with standardised script 	5 March 2019							
education	PDSA 1B : Introducing palliative care to patient and their families using revised PSA Script (in English and Mandarin with Layman terms)	12 March 2019							
	PDSA 1C: Briefing session for PSAs / Nurses in Clinic 5A (to give out Palliative care pamphlets & use script when calling patients) & daily reminder at roll call	7 May 2019							

Results First Visit Attendance Percentage (FVAP) Period: April 2018 to February 2021 100% 90% 70% Percentage Post-Intervention Median 50% (Mar 2019 to Feb 2021) **76%** PDSA 1A: 30% a) Palliative care pamphlets (developed by Singapore **Pre-Intervention Median** hospice Council) to be distributed by PSA to (Apr 2018 to Feb 2019) 20% patient/family members once they are referred to PMC 68% b) Dedicated front desk staff to counsel patients about 10% what Palliative care is about with standardised script Apr-18 May-18 Jun-18 Jun-18 Jun-18 Jun-18 Aug-18 Sep-19 Oct-19 Jun-20 Jun-21 **PDSA 1B**: Introducing palliative care to patient and their families **PDSA 1C**: Briefing session for PSAs / Nurses in Clinic 5A (to give out Palliative care

using revised P	3A 30	ript	(ın En	igiisn i	and iv	ianda	rin Wi	tn Lay	/man	terms)	p	ampr	nets	& use	e scri	pt wi	nen c	alling	g pati	ents)	& 0	ally re	emino	ier a	t roll	call					
Year					2018	}					2019							2020									20	21				
Month	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
First Visit Attendance	12	5	3	13	6	5	12	6	11	8	7	11	5	9	3	7	8	13	5	9	8	13	5	9	7	11	6	9	8	5	6	9
Total Medical Oncology Patients Referred (minus too sick / RIP patients)	16	6	6	19	10	9	15	13	12	14	9	15	9	12	7	10	12	17	6	10	8	13	7	10	8	14	9	10	11	7	6	10

Cost Savings									
	Pre-Intervention	Post-Intervention							
1 st Visit Attendance Percentage	68%	76%							
% Wasted Slot (Per Month)	32% (4 slots)	24% (1 slot)							
Reduction in No. of Slot Wasted (Per Month)	4 - 1 =	3 slots							
Manhour Cost Saved (Per Month)	60 minutes required by Doctor	cost + Admin Cost] + 60 minutes required by PSA (s) + (\$0.46 x 60mins)] (9.40							
Manhour Cost Saved (Annualized)	\$11,51	.2.80							

Weighted Ave Cost per min for Consultant = \$4.87 Weighted Ave Cost per min for PSA= \$0.46

Estimated No. of Medical Oncology Patients referred (Minus too sick / RIP) = 12 per month

Lessons Learnt

- 1. Understanding and defining the problem at stake is important (at all levels)
- 2. Derived measurable and reproducible outcome which is of clinical relevance to patient care is important
- 3. Implementing interventions may require constant feedback for refinement and empowering your colleagues as change agents in the process

Strategies to Sustain

- 1. Establish a sustainable workflow in Clinic 5A
 - Empowerment and Ownership to engineer culture shift
 - Orientation to new staff about new workflow
- 2. To test out model in other Clinic which has high referral rate for oncology patient (example General Surgery Clinic 4A)