

#### CHI Learning & Development (CHILD) System

#### **Project Title**

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

#### **Project Lead and Members**

Dr Ang Shih-Ling & Dr Yee Choon Meng

#### Organisation(s) Involved

National Healthcare Group

#### Healthcare Family Group(s) Involved in this Project

Medical

#### **Applicable Specialty or Discipline**

Palliative Medicine

#### **Project Period**

Start date: Apr 2018

Completed date: Feb 2021

#### **Aims**

To improve the FIRST VISIT ATTENDANCE PERCENTAGE (FVAP) of patients referred from Medical Oncology Clinic (MOC) to Palliative Medicine Clinic (PMC) from 65% to 100% within 6 months

#### **Background**

See poster attached/ below

#### Methods

See poster attached/ below



#### CHI Learning & Development (CHILD) System

#### **Results**

See poster attached/ below

#### **Lessons Learnt**

See poster attached/ below

#### **Conclusion**

See poster attached/ below

#### **Additional Information**

Accorded National Healthcare Group (NHG) Quality Day 2022 – Junior Medical Doctors (Merit Award)

#### **Project Category**

Care & Process Redesign

Quality Improvement, Workflow Redesign, Design Thinking, Lean Methodology

#### **Keywords**

Referral Rate, Pre-Clinic Education

#### Name and Email of Project Contact Person(s)

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



Dr Ang Shih-Ling & Dr Yee Choon Meng

Department of Palliative Medicine

## Adding years of healthy life

## **Mission Statement**

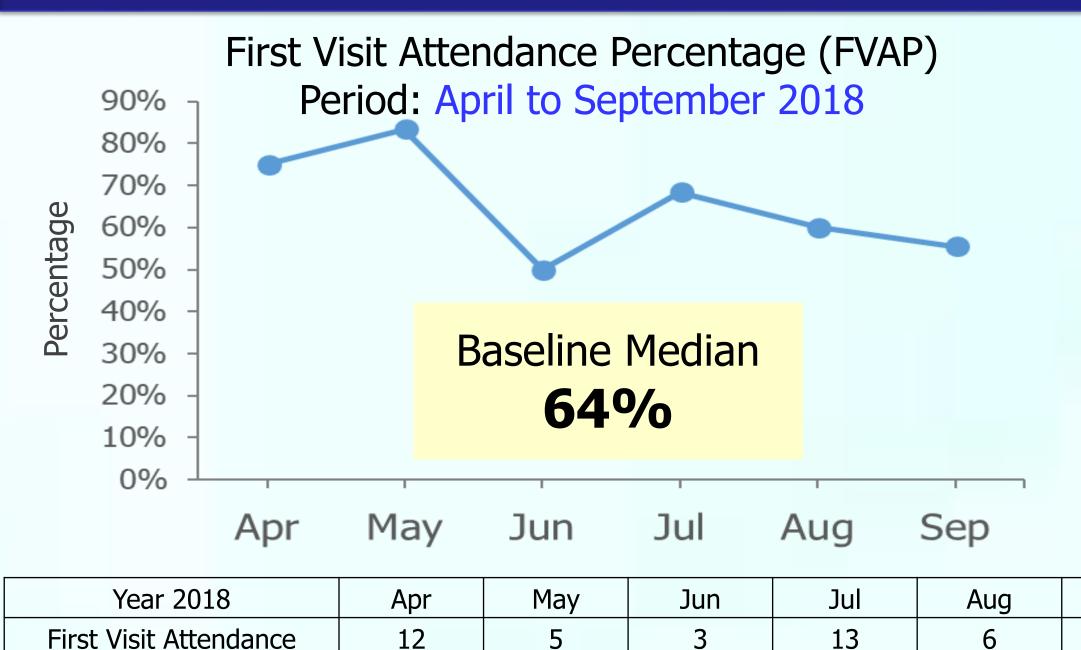
To improve the FIRST VISIT ATTENDANCE PERCENTAGE (FVAP)\* of patients referred from Medical Oncology Clinic (MOC) to Palliative Medicine Clinic (PMC) from 64%\*\* to 100%\*\*\* within 6 months

- \* 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	Designation	Department						
Team	Dr Ang Shih-Ling	Principal Resident Physician	Palliative Medicine						
Leaders	Dr Yee Choon Meng	Senior Consultant	Palliative Medicine						
Team	Siti Mariam Binte Jailani	Senior PSA	Clinic 5A						
Members	Atiqah Nor Fatin	PSA	Clinic 5A						
	Dr Troy Sullivan	Senior Consultant	Medical Oncology						
	Amanda Guo	nda Guo Operations Manager							
Sponsors	S Adj A/Prof Mervyn Koh Yong Hwang,								
	Adj A/Prof Lavina Bharwa	PSA = Patient Service Associate CCC = Continuing &							
<b>Facilitator</b>									

# **Evidence for a Problem Worth Solving**



16

decides to refer

**Total Medical Oncology** 

**Patients Referred** 

(minus too sick / RIP patients)

Oncologist

reviews patient

System/Process

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

patient / family

to counter for

**PDSA 1B**: Introducing palliative care to patient and their families

Weighted Ave Cost per min for Consultant = \$4.87

Weighted Ave Cost per min for PSA= \$0.46

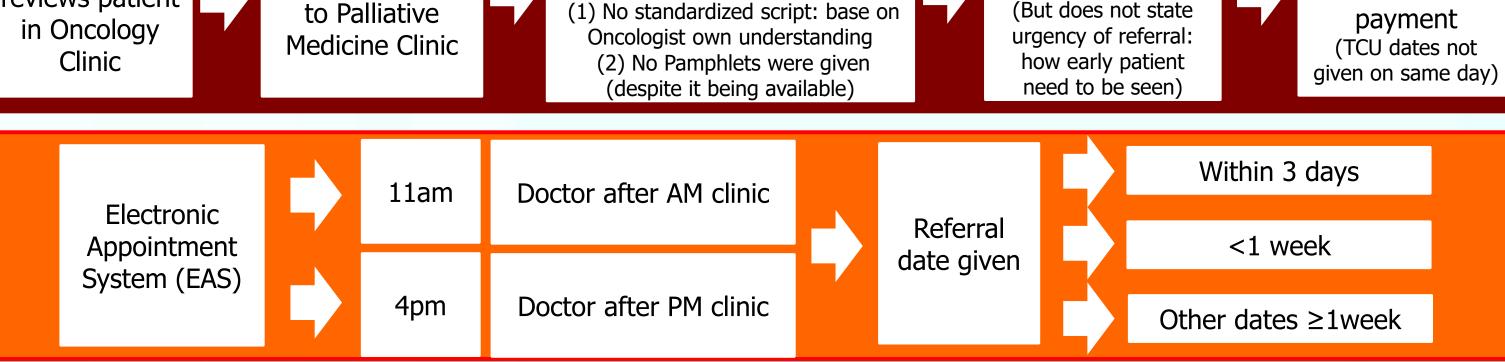
#### **Flow Chart of Process** Follow up call Medical Booked into Referral to Referral Oncology to check Clinic Screening electronic by PMD whether date attendance review and referral appointment /default referral to patient is doctor given letter system PMC coming Oncologist writes Oncologist will briefly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

19

10

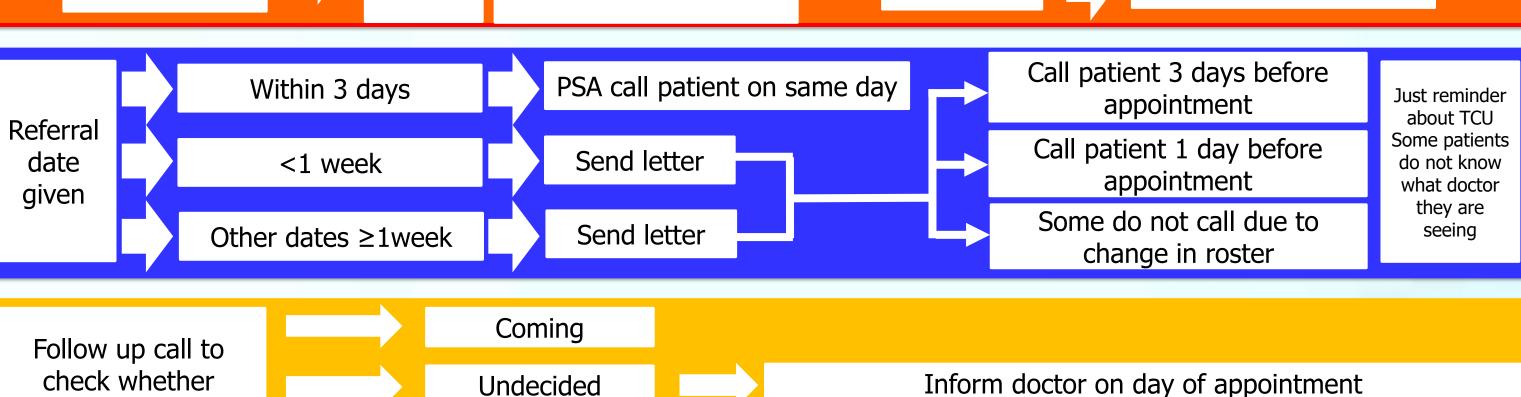
letter in CDOC

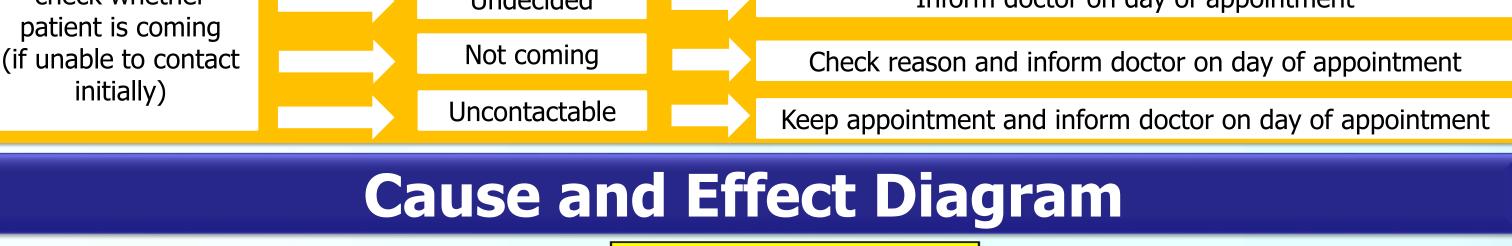
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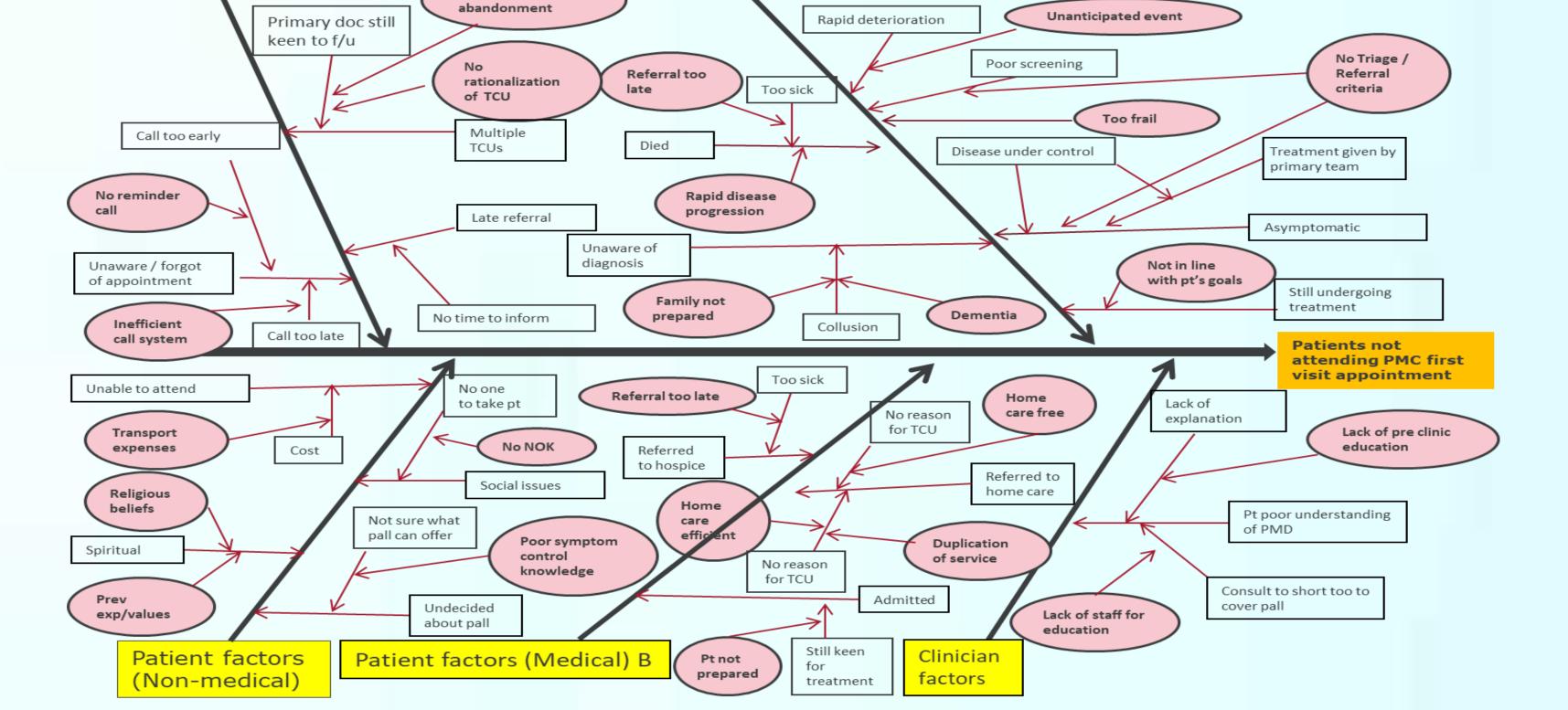
Medicine

(1) No standardized script: base on





Patient factors (Medical) A



### **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								
<b>Root Cause</b>	Intervention	Implementation Date						
Lack of pre-clinic	<ul> <li>PDSA 1A:</li> <li>a) Palliative care pamphlets (developed by Singapore Hospice Council) to be distributed by PSA to patient/family members once they are referred to PMC</li> <li>b) Dedicated front desk staff to counsel patients about what Palliative care is about with standardised script</li> </ul>	5 March 2019						
	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 Nov-19 Nov-19 Nov-19 Jun-20 Jun-20

using revised F	PSA S	cript	(in En	glish	and M	1anda	rin wi	th Lay	/man	terms	)	p	amph	nlets	& use	e scri	pt wl	nen c	alling	g pati	ents)	& da	aily re	emino	der a	t roll	call					
Year 2018								2019										2020									2021					
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)	10	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

**PDSA 1C**: Briefing session for PSAs / Nurses in Clinic 5A (to give out Palliative care

Cost Savings									
Pre-Intervention Post-Intervention									
1 <sup>st</sup> 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)	$3x$ [Consultation Cost + Admin Cost] 60 minutes required by Doctor + 60 minutes required by PSA = $3 \times [(\$4.87 \times 60 \text{mins}) + (\$0.46 \times 60 \text{mins})]$ = $\$959.40$								
Manhour Cost Saved (Annualized)	\$11,512.80								

# **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

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

- 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)