

Project Title

Improving Patients' Empowerment Through Self-Administration of Subcutaneous GCSF (Granulocyte Colony-Stimulating Factor) Injections

Project Lead and Members

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Project members: Wee Chiew Tan Elene, Ke Huang, Lee Yeng Pong, Sue Fern Lim

Organisation(s) Involved

Ng Teng Fong General Hospital, Jurong Community Hospital

Healthcare Family Group(s) Involved in this Project

Medical, Nursing, Allied Health

Applicable Specialty or Discipline

Chemotherapy Unit

Project Period

Start date: 2020

Aims

To reduce the number of returning patients for GCSF injections

Background

See poster appended / below

Methods

See poster appended / below

Results

See poster appended / below



Lessons Learnt

- Early education to equip patients with the skill of self-injection proves to be paramount to empower their confidence that none of them need to return to our clinic for GCSF injection post education.
- Ultimately, patients recognise the benefits outweigh their initial fear of selfinjection. Trust in our nurse-patient partnership was also built and strengthened during their on-going management.
- Furthermore, it reduces caregivers' burden, injection administration costs / time and unnecessary exposure for this vulnerable group.
 With the reduction of clinic technical visits, the aim of this study has also been fulfilled.

Conclusion

See poster appended / below

Project Category

Care Continuum, Preventive Care, Patient Education

Keywords

Patient Empowerment, Self-Injection

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[Restricted, Non-sensitive]

IMPROVING PATIENTS' EMPOWERMENT THROUGH SELF-ADMINISTRATION OF SUBCUTANEOUS GCSF (GRANULOCYTE COLONY-STIMULATING FACTOR)

INJECTIONS

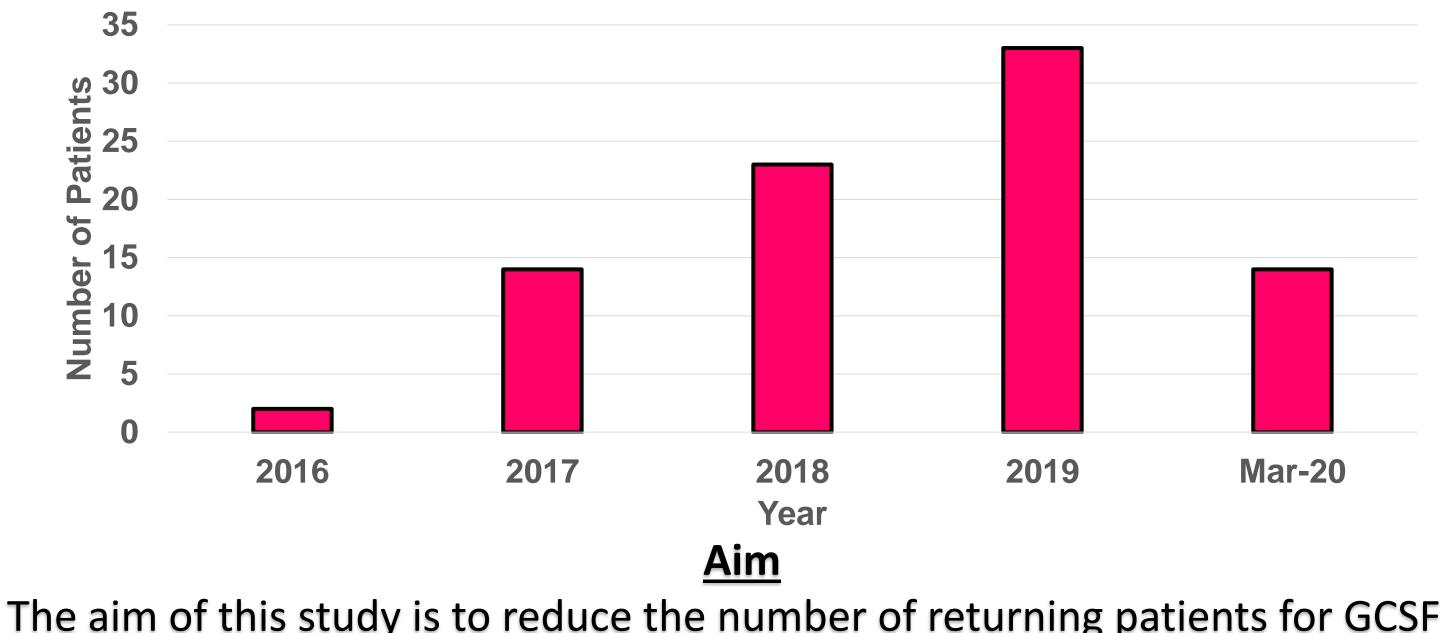
MEMBERS: SOW HSIA LOKE CHERYL, NURSING, CHEMOTHERAPY UNIT WEE CHIEW TAN ELENE, NURSING, CHEMOTHERAPY UNIT **KE HUANG, NURSING, CHEMOTHERAPY UNIT** LEE YENG PONG, NURSING, CHEMOTHERAPY UNIT SUE FERN LIM, DEPT OF PHARMACY

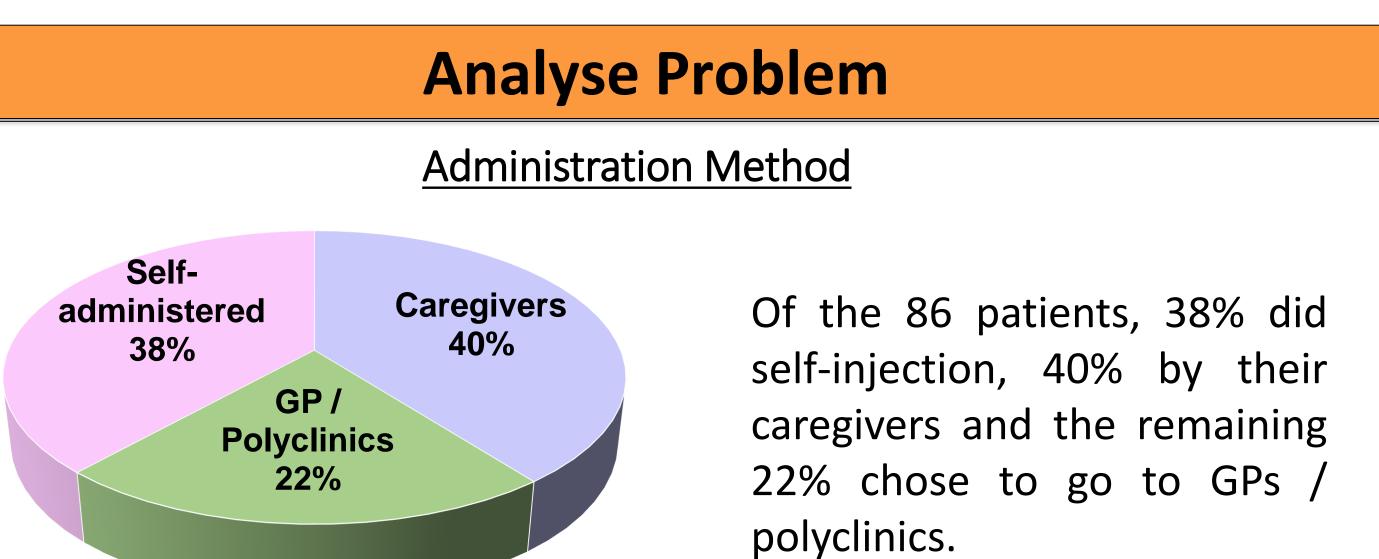
PRODUCTIVITY SAFETY COST QUALITY **PATIENT EXPERIENCE**

Define Problem, Set Aim

Problem/Opportunity for Improvement

Since the opening of our Chemotherapy Unit in NTFGH in Year 2015, the number of patients who require subcutaneous GCSF injections to prevent neutropenia has increased.





The aim of this study is to reduce the number of returning patients for GCSF injections.

Establish Measures

Upon commencement of GCSF therapy, we will educate the patients / caregivers on self-administration. Patients can also choose to go to their nearest general practitioner (GP) / polyclinics for their injections.

Analyse Problem

In view of the current pandemic situation, the number of subjects extracted from 1 April 2019 to 31 December 2020 was limited. Thus, the retrospective data was extracted back from April 2016 to March

Select Changes

What are all the probable solutions? Which ones are selected for testing?

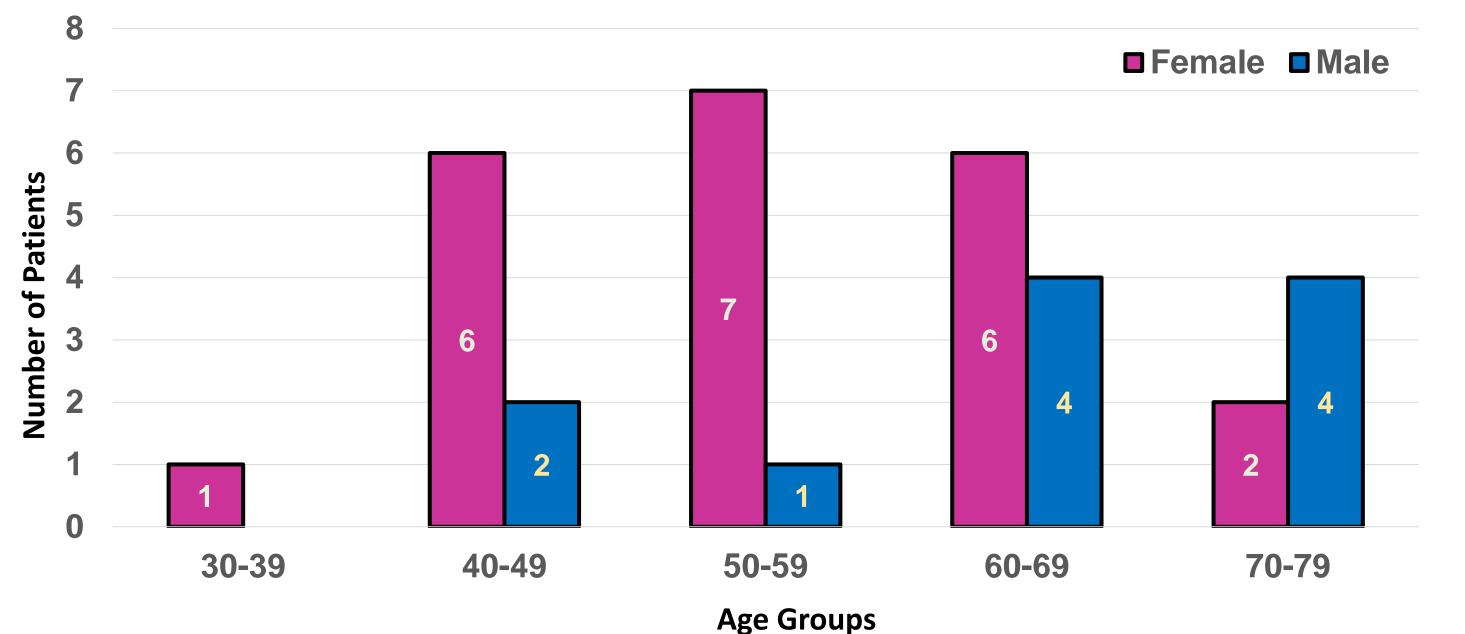
As the number of patients increased rapidly, we started a trial to educate the patients / caregivers on GCSF self-administration technique.

Test & Implement Changes

PLAN	DO	STUDY	ACT
What is the aim of this cycle? What do you need to do before you execute	Was the test change carried out as planned?	What are the results? Use run charts to illustrate.	What is the conclusion from "Study"?
he test change? Who, What, Where, Nhen)	What are the feedback & observations from participants?	What did you learn from this cycle?	What is your plan for the next cycle (adopt / adapt / abandon)?
	The teaching of GCSF self- administration technique was only conducted for patients / caregivers in the beginning. After running the trial for a month, we changed to	Evaluation of the effectiveness of patients' self-injection or injection by caregivers:	 To implement the educational demonstration session to all patients
···· T [implement the educational		undergoing GCSF

2020 from the JHC (JurongHealth Campus) Non Research Data Extraction System. There was a total of 86 patients who required GCSF injections. The data was then categorised according to their gender, age groups, tumour sites, patients / caregivers who self-inject or by GPs / polyclinics.

Patients Performing Self-Injection



30% of the patients who did self-injection were aged 60-69 and 18% were aged 70-79.

Types of Tumour

Aim: To plan an demonstration session educational demonstration upon every patient's session on GCSF selfcommencement of their injection technique for the GCSF injections to increase patients / caregivers. their participation rate.

> 78% of the participants (patients and caregivers) felt empowered to administer the GCSF injections themselves, whereas the remaining 22% chose to go to their GPs / polyclinics.

undergoing GCSI - No reported injections upon complication (e.g. commencement of their bruise or swelling) from chemotherapy sessions patients after injection - Sustainance of the educational Good outcome: Nil patient returned to our clinic for GCSF injection since the post education

demonstration sessions

commencement

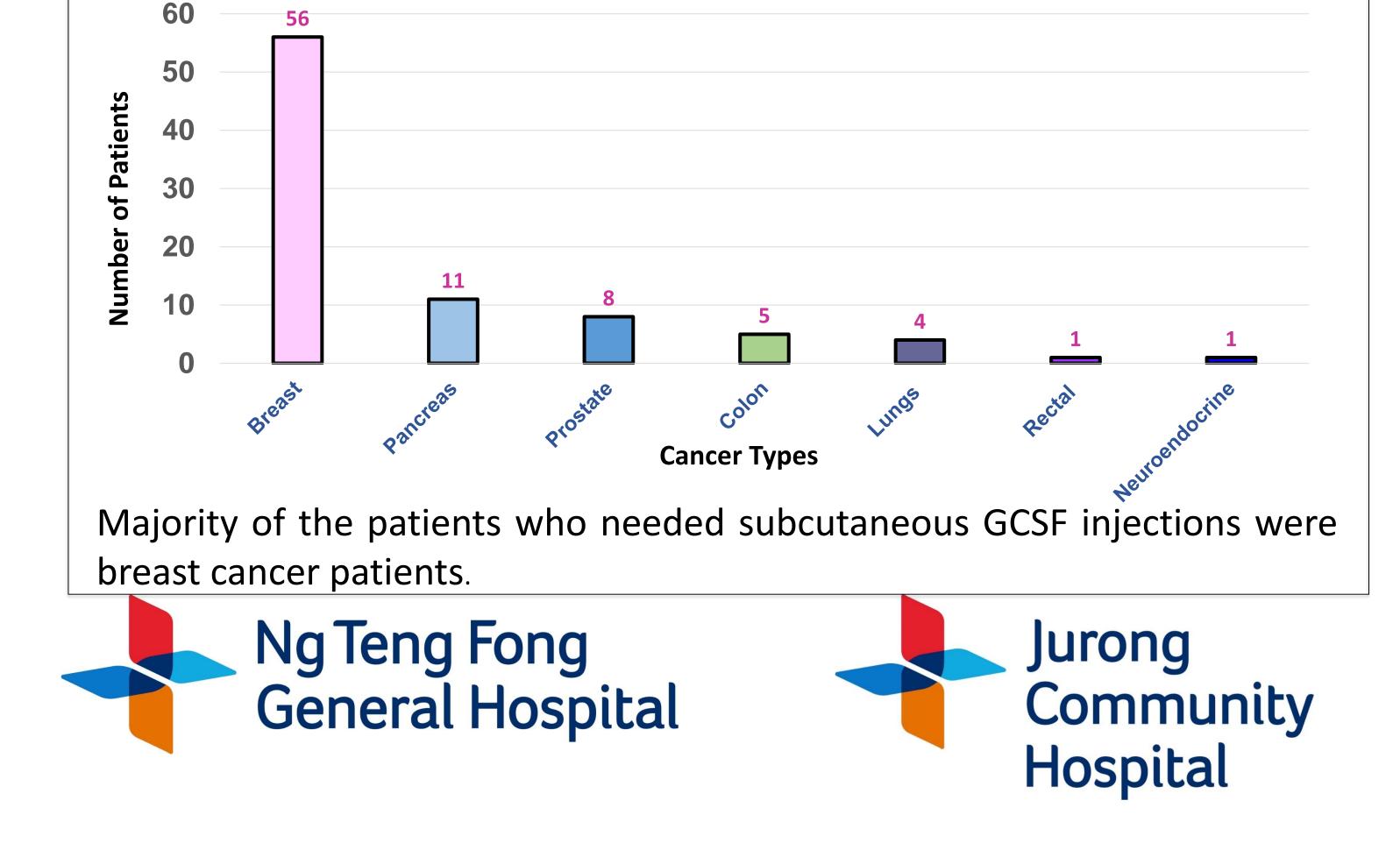
Spread Changes, Learning Points

What are/were the strategies to spread change after implementation?

Early education of self-administered GCSF is the key strategy to empower patients in their knowledge and self-care, regardless of their age, gender or type of cancer.

What are the key learnings from this project?

Early education to equip patients with the skill of self-injection proves to be paramount to empower their confidence that none of them need to return to our clinic for GCSF injection post education.



Ultimately, patients recognise the benefits outweigh their initial fear of self-injection. Trust in our nurse-patient partnership was also built and strengthened during their on-going management.

Furthermore, it reduces caregivers' burden, injection administration costs / time and unnecessary exposure for this vulnerable group.

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