

CHI Learning & Development (CHILD) System

Project Title

Redesigning the workflow to process and communicate home delivery requests

Project Lead and Members

Project lead:

- Nur'Ain Bte Abdul Manan
- Clara Chin

Project members:

- Koh Ying Pei
- Neo Ying Fang
- Alice Chin & Lenny Nuramalina
- Evelyn Soh & Lee She Ink
- Natasha Amalina Binte Bujang
- Yang Jun Ying
- Belinda Lee
- Ong Poh Ching
- Siti Nur Afrinah

Organisation(s) Involved

National Healthcare Group Pharmacy (NHGPh) – Bukit Batok Polyclinic Pharmacy

Healthcare Family Group(s) Involved in this Project

Pharmacy

Applicable Specialty or Discipline

Operations

Project Period

Start date: Jan 2021

Completed date: Feb 2022



CHI Learning & Development (CHILD) System

Aims

To reduce the time taken to confirm and communicate home delivery requests by 25% (stretch target 30%) within 1 year.

Project Attachment

See poster attached/below

Background

See poster attached/below

Methods

See poster attached/below

Results

See poster attached/below

Conclusion

See poster attached/below

Additional Information

Accorded the NHG Quality Day 2022 (Category C: Developing a Flexible & Sustainable Workforce) Merit Award

Project Category

Care & Process Redesign

Productivity, Time Saving

Keywords

Home Delivery, Productivity



CHI Learning & Development (CHILD) System

Name and Email of Project Contact Person(s)

Name: Ms Nur'Ain Bte Abdul Manan

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Redesigning the workflow to process and communicate home delivery requests



Adding years of healthy life

No system to support

refilling reminder for

Sample of email template used

Your medication delivery request from HEALTH HUB has been processed.

changes will be allowed to the request once the order has been processed For safety and hygiene reasons, medications delivered are not refundable or exchangeable

Compulsory to input all deliver

information for online request

On the day of delivery, you will receive a SMS notification, containing the delivery pin code. As part of the delivery verification

process, the recipient might be required to provide the pin code to the delivery courier during the delivery.

Delivery to the address provided has been scheduled fo

Number of

Cumulative

votes

Nur'Ain Bte Abdul Manan, Clara Ching, Bukit Batok **Polyclinic Pharmacy**

Pareto Chart

Mission Statement

To reduce the time taken to confirm and communicate home delivery requests by 25% (stretch target 30%) within 1 year.

Team Members

	Name	Designation
Team leaders	Nur'Ain Bte Abdul Manan Clara Ching	Senior Pharmacist Senior Pharmacy Technician
Team members	Koh Ying Pei Neo Ying Fang Alice Chin & Lenny Nuramalina Evelyn Soh & Lee She Ink Natasha Amalina Binte Bujang, Yang Jun Ying, Belinda Lee, Ong Poh Ching Siti Nur Afrinah	Senior Pharmacist Pharmacist Pharmacy Technician Executive Senior Pharmacy Technician Pharmacy Technician
Facilitator	Sanisah Binte Mohd	Principal Pharmacist

Evidence for a Problem Worth Solving



Problem:

- Long fulfilment time for home delivery requests
- * Staff are overwhelmed by sharp increase in requests due to COVID-19 restrictions

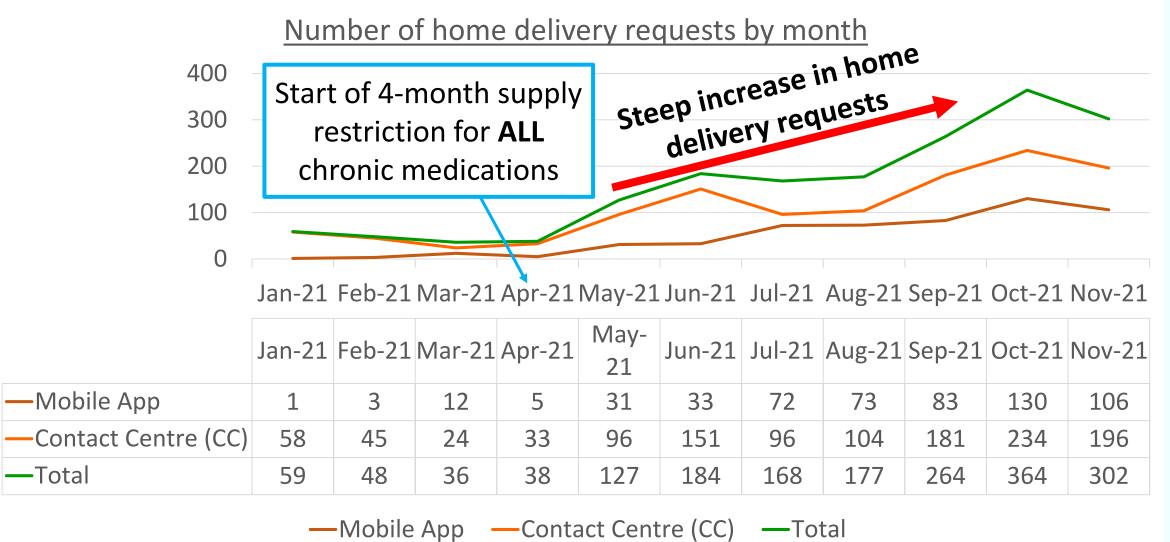
I know this is a problem because:

- ❖ Since the COVID-19 pandemic, there is **surge in home delivery requests** due to rescheduling of appointments and medication supply restrictions. For all delivery cases, regardless of the source of request, pharmacy staff are required to call the patients to confirm the request and communicate on delivery details
- * Average time recorded for verification and communication of request is approximately 5 min/patient across staff in the request fulfilment team.
- ❖ For unanswered calls, staff would attempt to call twice a day for 3 days before closing the case. Time spent on no response cases can be up to 3 minutes per case.
- * As significant time is taken to verify the sheer number of simple delivery requests, staff has less time for more essential duties.



This problem happens: On a daily basis

Current Performance of the Process

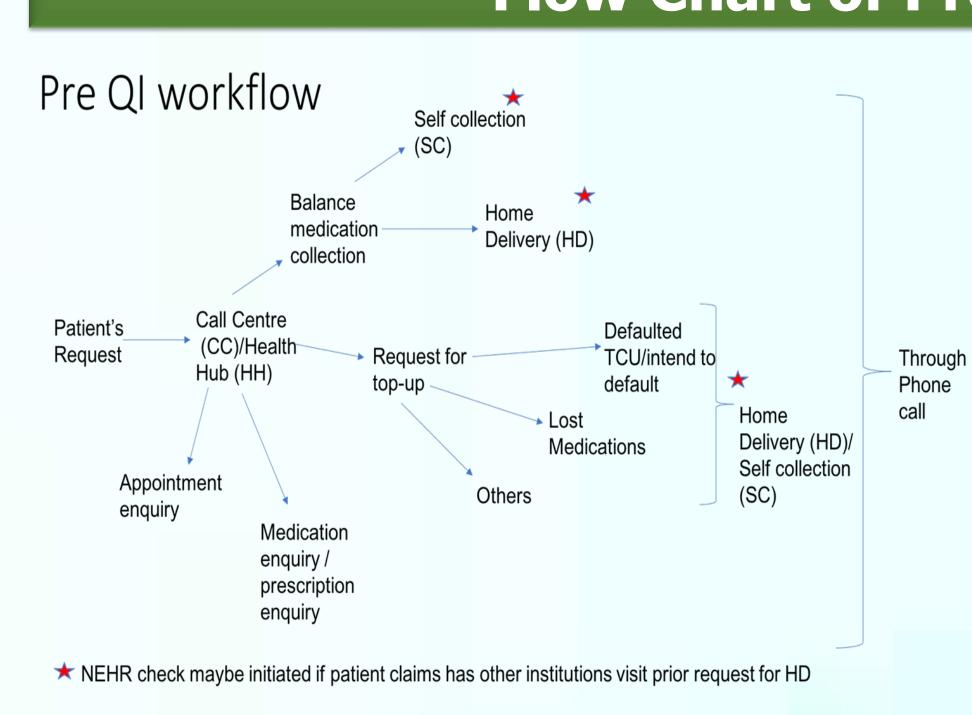


Average Pre-QI data (Jan to Mar 21):

- Mobile app usage: **14%** (86% - CC)
- Time spent calling each patient:

5 mins

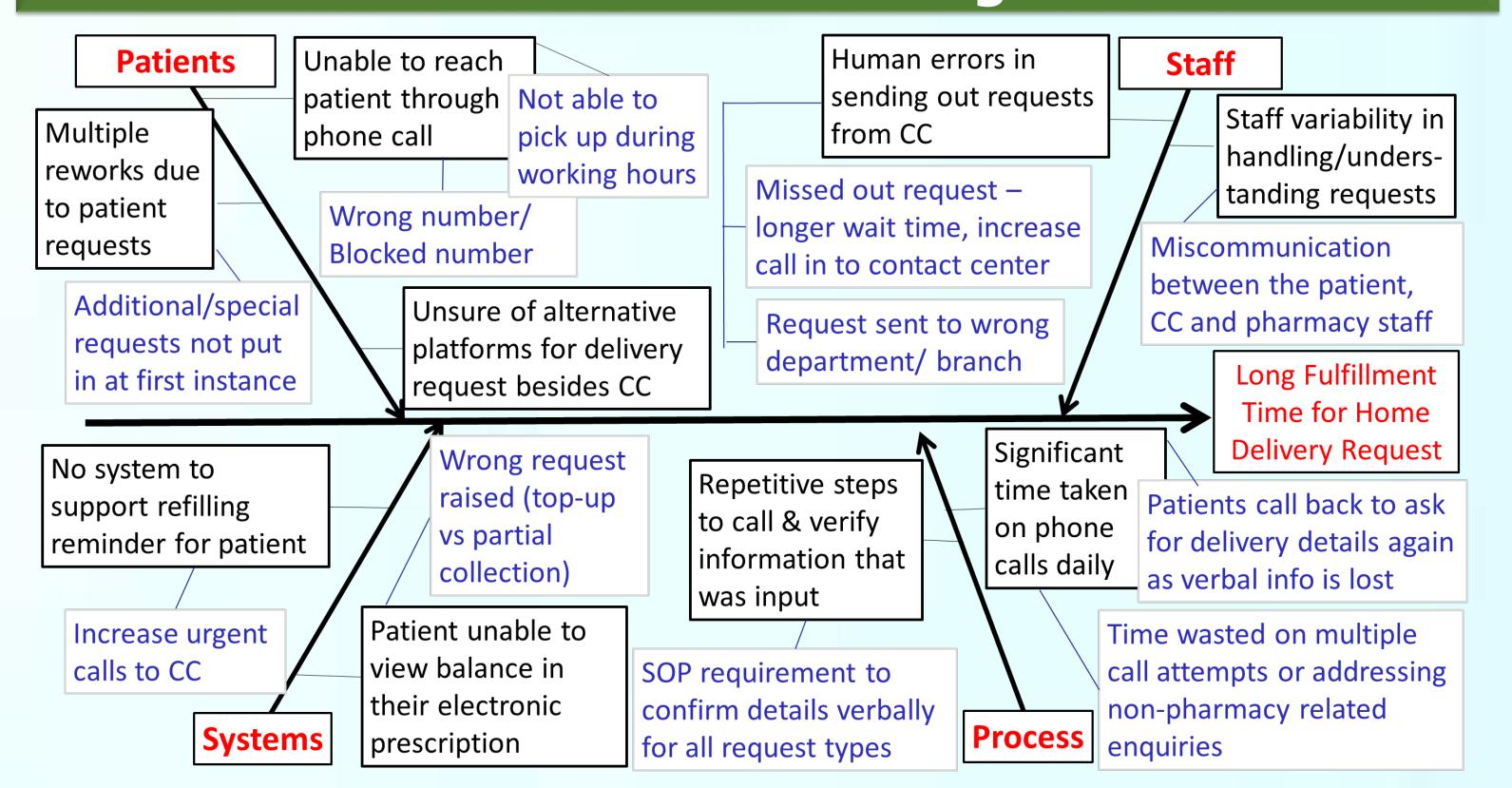
Flow Chart of Process



Each call back for home delivery requests require the following verification:

- Patient's information
- Last 4 digit of IC number
- Communicate on the request Changes to the medication
- Delivery address
- Delivery contact number
- Delivery timing
- Advise on the delivery (need to be at home, provide OTP to staff, etc.) Payment mode

Cause and Effect Diagram



Root causes for long fulfilment time for home delivery requests 100

Contact Center being the

"middle person"

arise, additional time need

for request to reach us

Implementation

besides contact centre

Root Causes Countermeasures Use email as main communication tool Unable to reach patient through phone call during **SMS** to communicate straightforward pharmacy working hours requests e.g. pick up at pharmacy [7/8/21] To call patient only if there are ambiguities Repetitive step to call & verify information that or missing required information. can be retrieved from online platform **Contact Center functions Reduce** number of requests taken by **CC**

[12/4/21]

through phone call during verify information that can other platform of request

platform

pharmacy working hours be retrieved from online

as the "middle person"

request. May

centre

who transcribes patient's

misunderstand requests

Patient not familiar with

request, besides contact

Decrease communication and

verification time

other platforms of

2. Increase requests from mobile app → more accurate information coming from patients themselves, less tendency for rework. or transcribe info wrongly

> Increase promotion of mobile app use Verbal promotion of Medication Refill on Health Hub (HH) app to patients

Design step-by-step guide to use med refill function on HH and distribution of brochures [01/09/21] Distribution of OneNUHS Brochure with

step-by-step guide for med refill [01/10/21] Sending of OneNUHS brochure in home

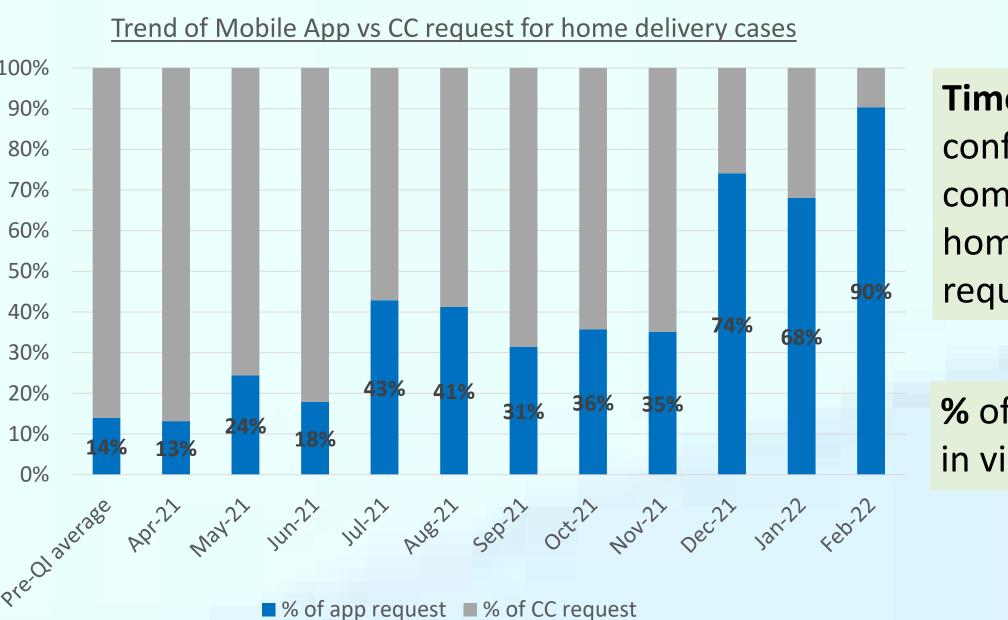
delivery parcel [01/12/21]

Increase utilization of mobile app

Reduce time take to complete **Home Delivery Cases**

Indicate your medication order quantity proference profession in a physical case or the option of your prescription in a physical case or the option profession profession or the proceedings of the which be chosen the proceedings of the proce

Results



Time taken to confirm and communicate **each** home delivery request:



% of requests put in via **mobile app**: 14 to 90%

Cost Savings

Average time recorded to complete home delivery screening and verification for

- CC requests = 5 mins
- Mobile app requests (from both Health Hub and OneNUHS) = 2.5 mins

Thus, time savings for processing mobile app request vs CC request = **2.5 mins** Taking the average manpower cost for PTs and PAs per = \$25.08 / hour Manpower savings for every 100 requests via mobile app = 2.5min x 100 x \$25.08/60= \$104.50

Total number of home deliveries from Mar 21 to Feb 22 = 1877 Annual savings is estimated to be = 78.2 hours/year or \$1961.50/year

Problems Encountered

- Managing requestor expectations on the multiple modes of communication.
- Unable to tell if receipt of email/SMS is successful e.g. email may be sent to patient's junk mail, thus not read by patients
- There were still instances where patients input the wrong request category on the app, due to unfamiliarity with app usage

Strategies to Sustain

- Continue to promote the function of the mobile app to patients
- Create more communication templates for other types of requests or outcomes
- Spread the initiative to different branches