

Redesigning the workflow to process and communicate home delivery requests

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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

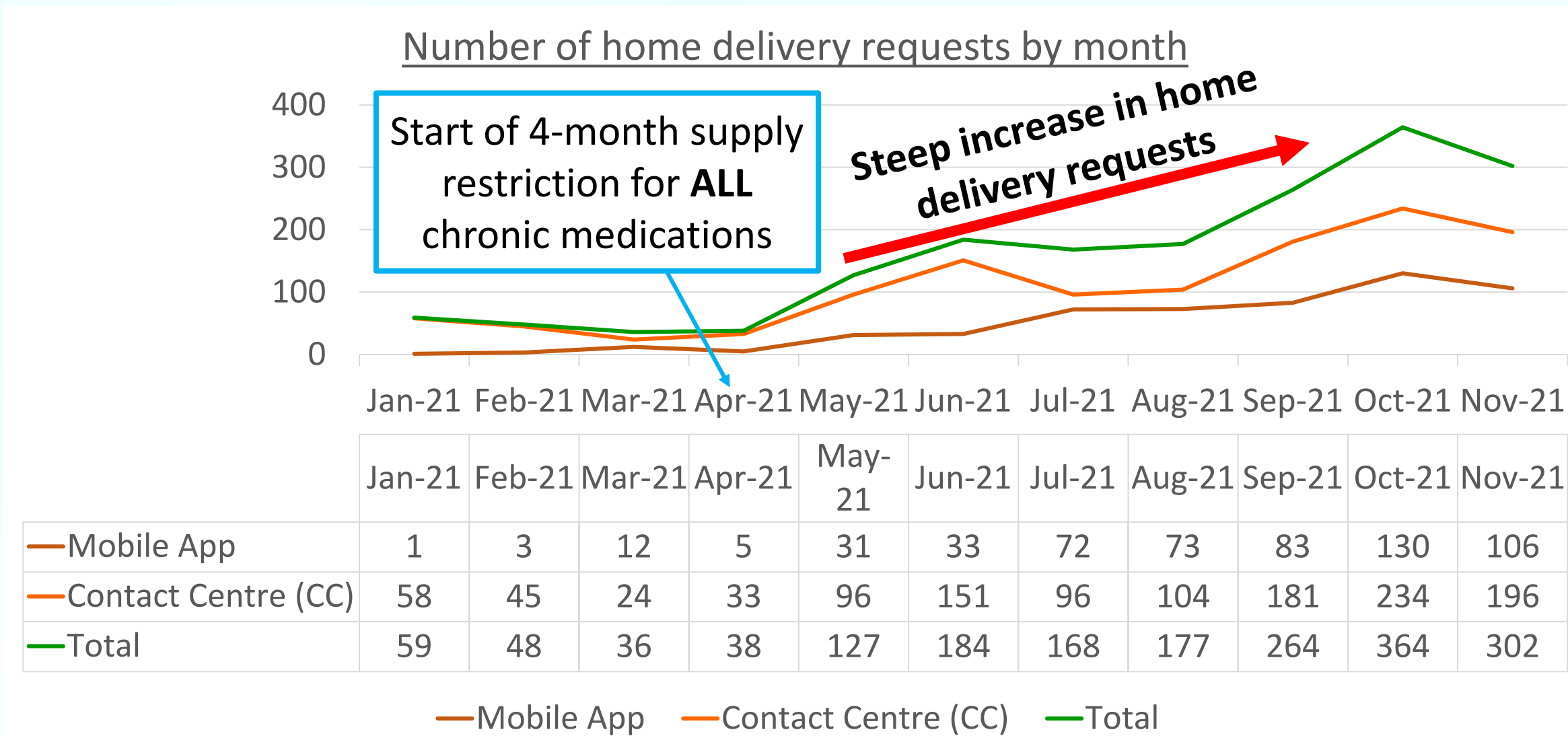
I know this is a problem because:

- 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

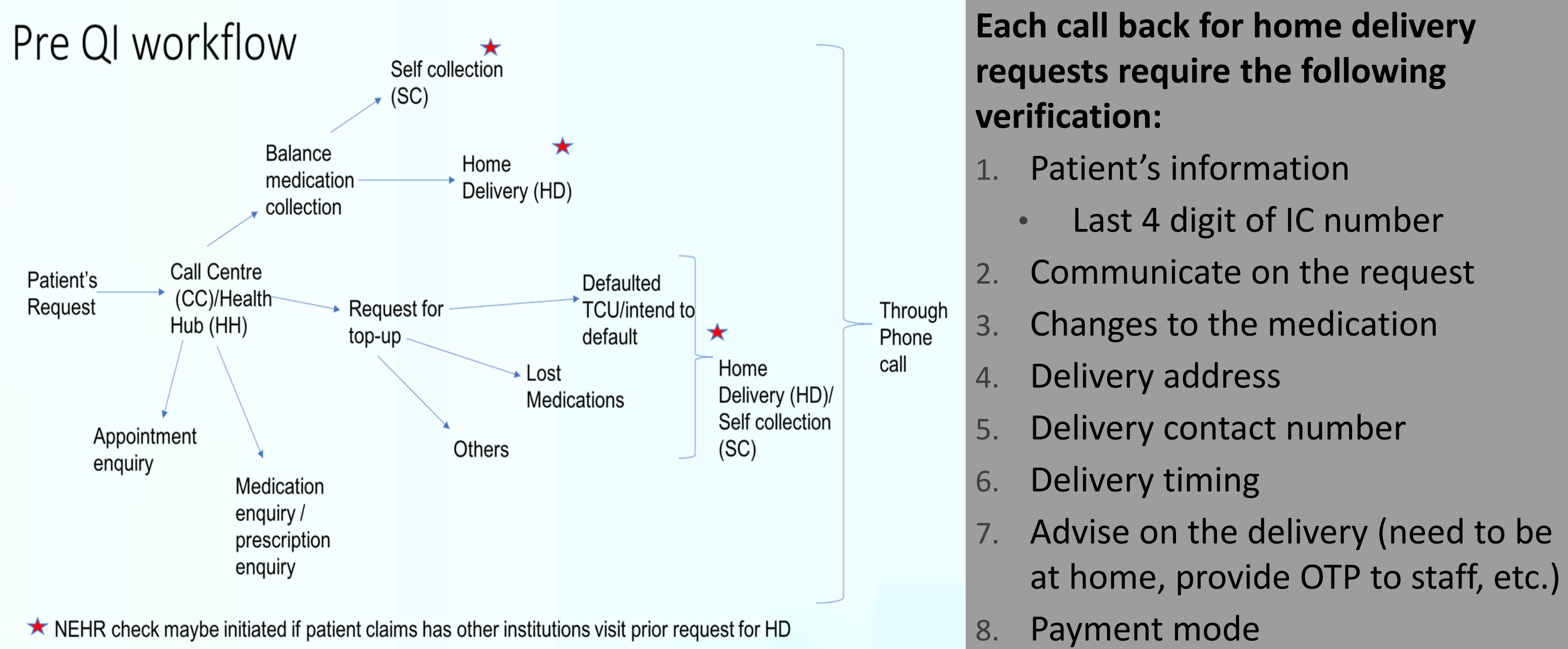
Current Performance of the Process



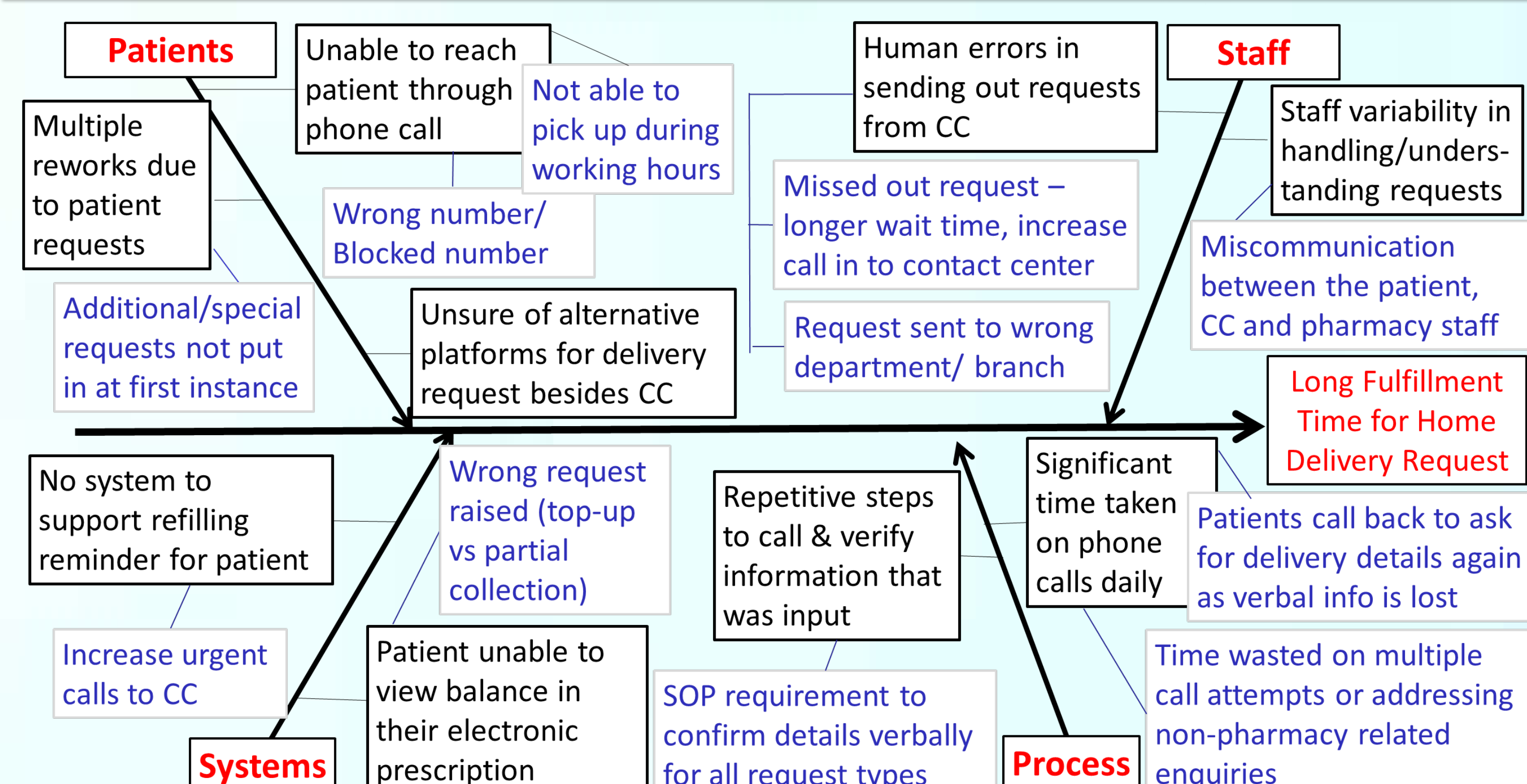
Average Pre-QI data (Jan to Mar 21):

- Mobile app usage: **14%** (86% - CC)
- Time spent calling each patient: **5 mins**

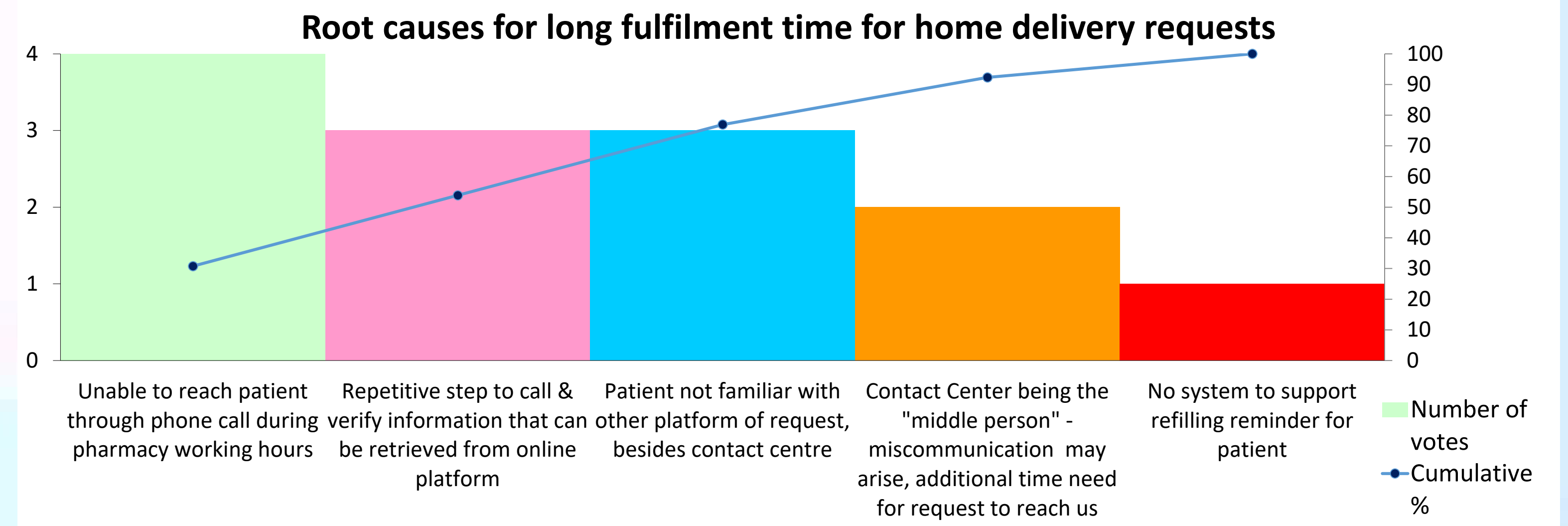
Flow Chart of Process



Cause and Effect Diagram

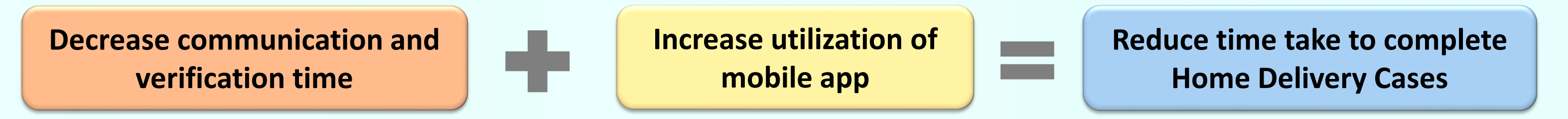


Pareto Chart

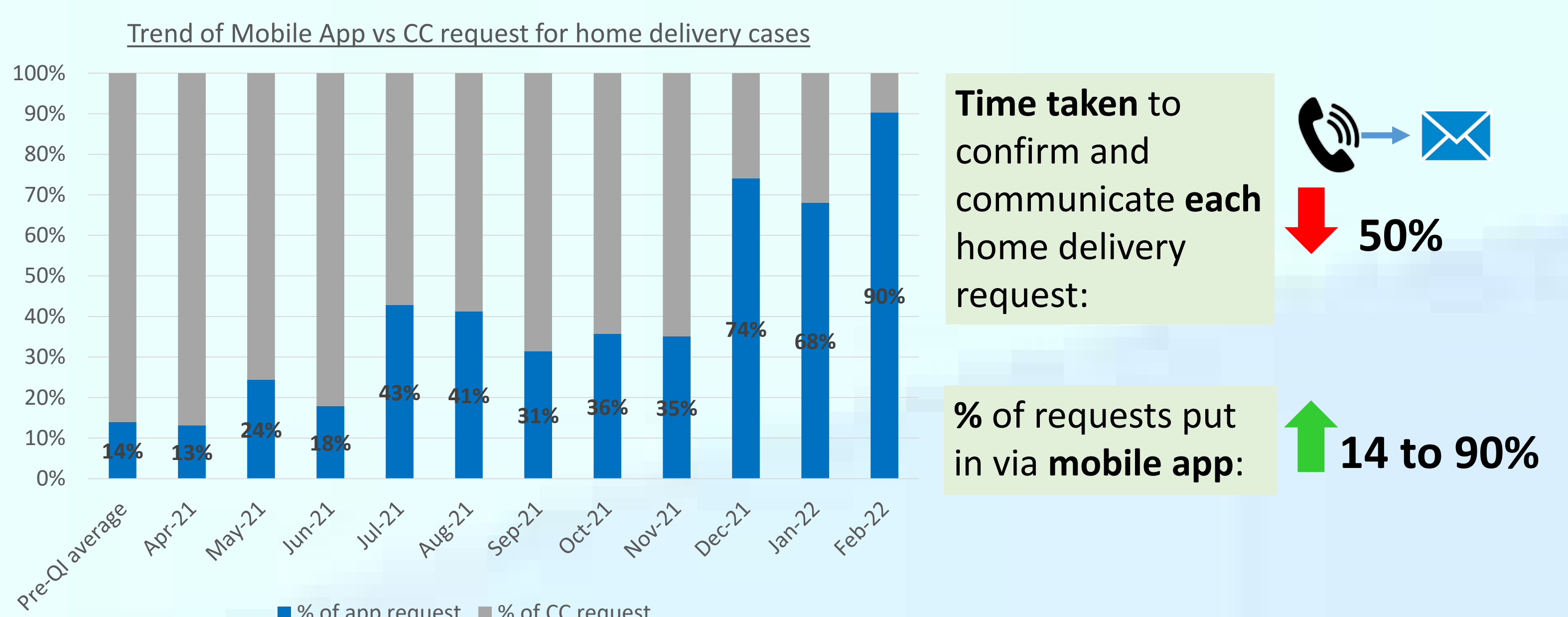


Implementation

Root Causes	Countermeasures	Sample of email template used
Unable to reach patient through phone call during pharmacy working hours	1. Use email as main communication tool 2. SMS to communicate straightforward requests e.g. pick up at pharmacy [7/8/21]	Dear [Name], Your medication delivery request from HEALTHR HUB has been processed. Delivery to the address provided has been scheduled for: Date: 18 Mar 2022 Time: 9pm to 6pm 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. The delivery courier will contact the provided contact number should there be changes to the delivery timing. Please note the following: No 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. For further enquiries, please call 6863 4847 or email us at feedback@pharmacy.nhg.com.sg .
Repetitive step to call & verify information that can be retrieved from online platform	To call patient only if there are ambiguities or missing required information.	
Contact Center functions as the "middle person" who transcribes patient's request. May misunderstand requests or transcribe info wrongly	1. Reduce number of requests taken by CC 2. Increase requests from mobile app → more accurate information coming from patients themselves, less tendency for rework.	
Patient not familiar with other platforms of request, besides contact centre	Increase promotion of mobile app use • Verbal promotion of Medication Refill on Health Hub (HH) app to patients [12/4/21] • 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]	Compulsory to input all delivery information for online request



Results



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