National Quality Improvement Conference

Enhancing Patient Safety Through Timely and Effective Results Acknowledgment

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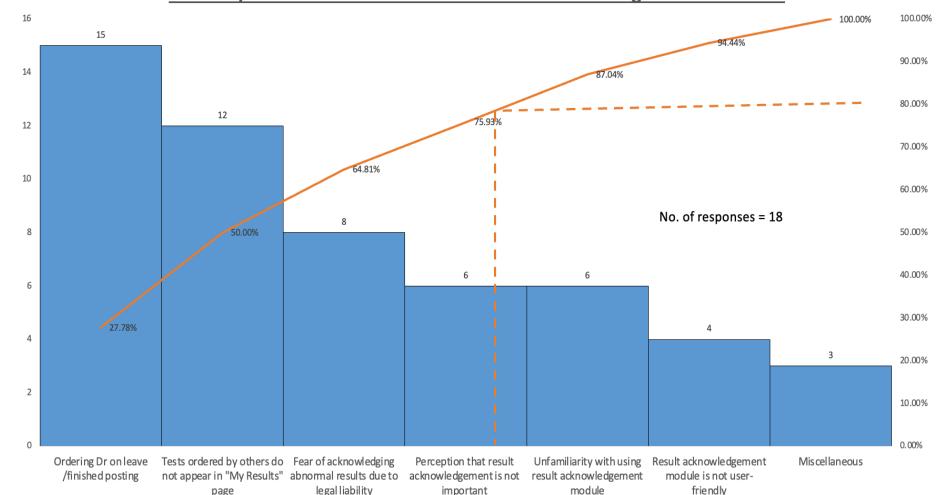


Bright Vision • Outram • Sengkang

Problem Statement

When abnormal results are not recognised and acted upon promptly, patient safety issues arise. OCH had a rise in unacknowledged test results between 2020 to 2022.





Potential Solutions

1st PDSA – Result Acknowledgement Module (RAM) Training Session

Target: Lack of training, Poor awareness and Misperceptions in acknowledging results among doctors
Effective use of RAM was incorporated into the 6-monthly

SCM training for new doctors. Concerns and misperceptions were addressed

Target: Prolonged absence of the ordering doctor (on leave or left department), Inadequate handover (post-call doctors), RAM not user friendly

Project Aim

Our baseline data from October 2020 to May 2022 shows a monthly average of 20 results left unacknowledged over this 20-month period. As this affects patients' safety, our team aims to reduce the number of unacknowledged results from 25 to 0 within a 6-month period.

Lessons Learnt

All doctors' RAM settings were individualised based on their ward location via the User-Centric Filter Functions on SCM. Doctors working in the same ward will be notified of any unacknowledged results

2nd PDSA – Reminder prompts

- Target: Doctors forget due to busy work schedule
 Eye-catching reminder posters were pasted at workstations to remind the doctors
- Reminder texts were sent in the doctors' group chat periodically to remind them to acknowledge results

3rd PDSA- Automation of reminder texts

Target: Reinforce PDSA 2 to improve sustainability

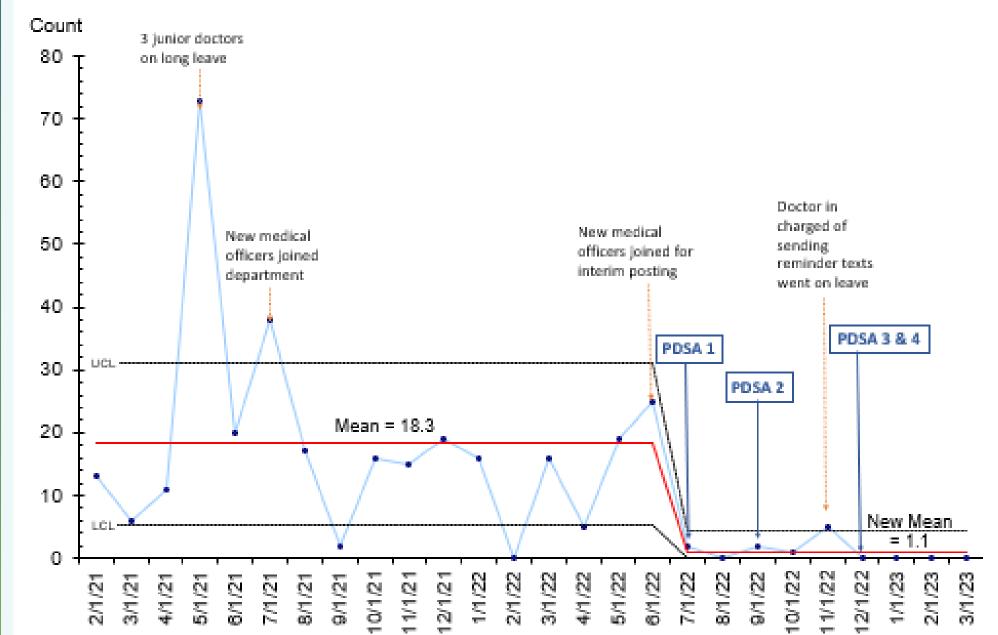
Reminder texts were automated using Shortcuts on iOS as PDSA 2 was manually dependent

4th PDSA – Positive reinforcement for behavioural change

Starbucks gift cards were awarded to ward teams that acknowledged all results for 3 consecutive months

Outcomes & Impacts

Number of Unacknowledged Results in OCH (Oct 2020 to Mar 2023)





- A combination of process change (optimising the results acknowledgment module) and human behaviour change is needed for sustained improvement.
- Reminders were time-consuming and could be automated from the beginning for future QI initiatives.

The Shewhart chart demonstrated the success of our interventions, reducing the mean of unacknowledged results from 18.3 to an impressive 1.1. We achieved our project aim of acknowledging all results from December 2022 to March 2023 after conducting the different PDSA cycles.