

Project Title

Improvise . Adapt . Overcome

Project Lead and Members

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Organisation(s) Involved

KK Women's and Children Hospital

Healthcare Family Group(s) Involved in this Project

Pharmacy

Aim(s)

• Aim to streamline processes in Emergency Pharmacy (EP) and Inpatient Pharmacy Automation Service (IPAS) with the ultimate goal in reduction in man-hours so that staff can focus on the delivery of patient care.

Background

See poster appended/ below

Methods

See poster appended/ below

Results

See poster appended/ below

Conclusion

See poster appended/ below



Additional Information

Singapore Healthcare Management Congress 2022 – Merit Award (Operations category)

Project Category

Care & Process Redesign

Value Based Care, Productivity, Quality Improvement, Workflow Redesign, Lean Methodology

Keywords

Phone Counseling, Streamlining of Workflow

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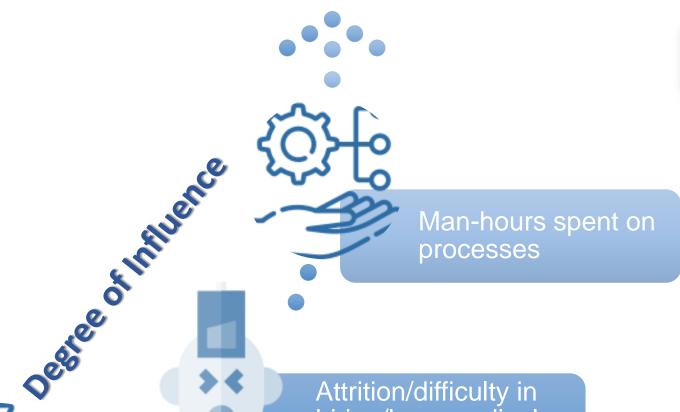
Go Hui Jia Zita Josefina Cordero Balao Gina Faminial Familara



KK Women's and Children's Hospital

INTRODUCTION

The Covid-19 pandemic has presented us with new challenges and uncertainties. The low staffing levels and difficulty in hiring have prompted us to brainstorm on novel ways to reinstate the balance between workload and staffing. We reviewed our sphere of influence and decided to focus on areas that we can exert a greater influence on – reduction of man-hours spent on work processes.



METHODOLOGY

Existing processes in EP and IPAS were analyzed for **redundancy** and **improvement** using Plan-Do-Check-Act (PDCA) and Lean Thinking methodologies¹.

Pre- and post-intervention time studies were conducted to determine the

Map the value stream of processes in EP & IPAS

OBJECTIVES

To streamline processes in Emergency Pharmacy (EP) and Inpatient Pharmacy Automation Service (IPAS) with the ultimate goal in **reduction in man-hours** so that staff can focus on the delivery of patient care.



savings in man-hours.

Numerous opportunities were identified for improvement and currently available resources were leveraged as far as possible. Waste – Neither value-add to patient care nor is necessary

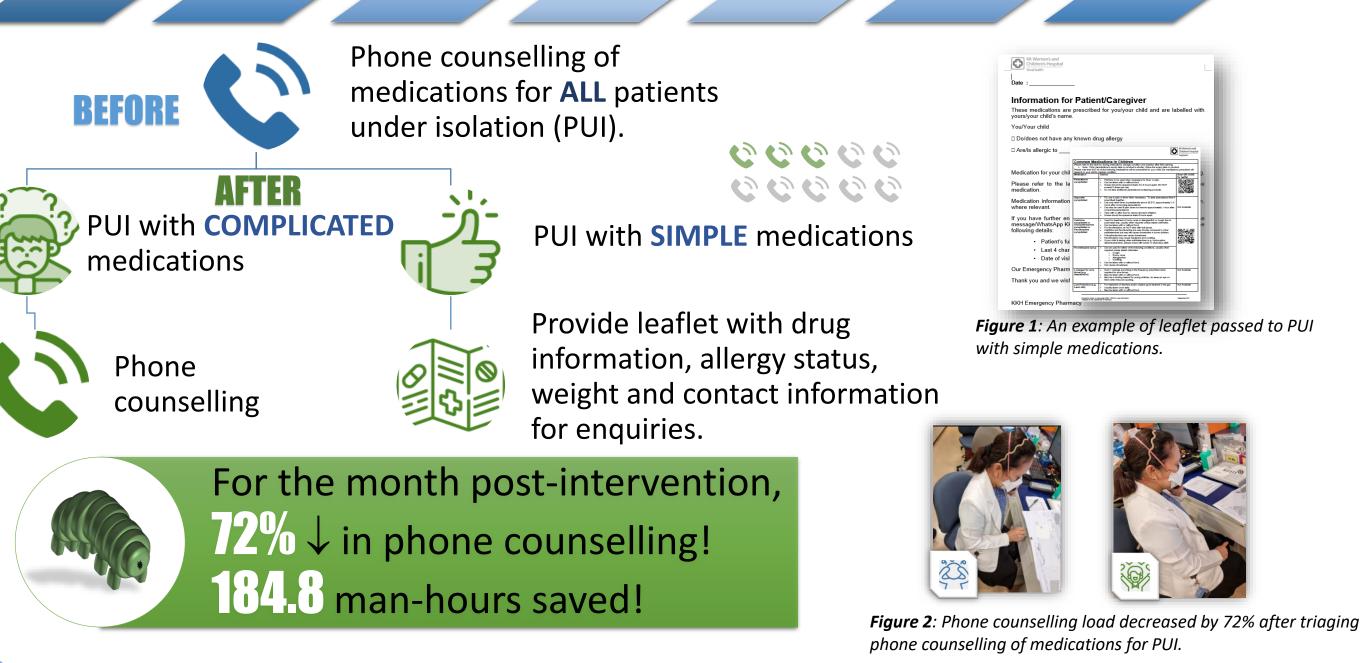
Us it a waste? Waste – Neither value-add to

Can we make it more efficient?

Processes that cannot be eliminated

RESULTS

Triage of Phone Counselling of Medications for Patients under Isolation



3. Removal of Manual Counting of Prescriptions



2. Tracking of Phone Counselling Replaced with Issuance of New Queue Series

AFTER

Queue series were issued based on clinic locations even if they are PUI.
Staff spends an average of 30 seconds to fill up one phone counselling record in tracking form.

Tracking could not be eliminated.

Many fields in the tracking form were of little value \rightarrow Removed!

New queue series was created using our current queue management system to facilitate tracking instead.



4. Substitution of Manual Recording of Drug Returns with Photo taking



Staff spends an average of **30 minutes** a day **counting** prescriptions to tabulate workload from each service.

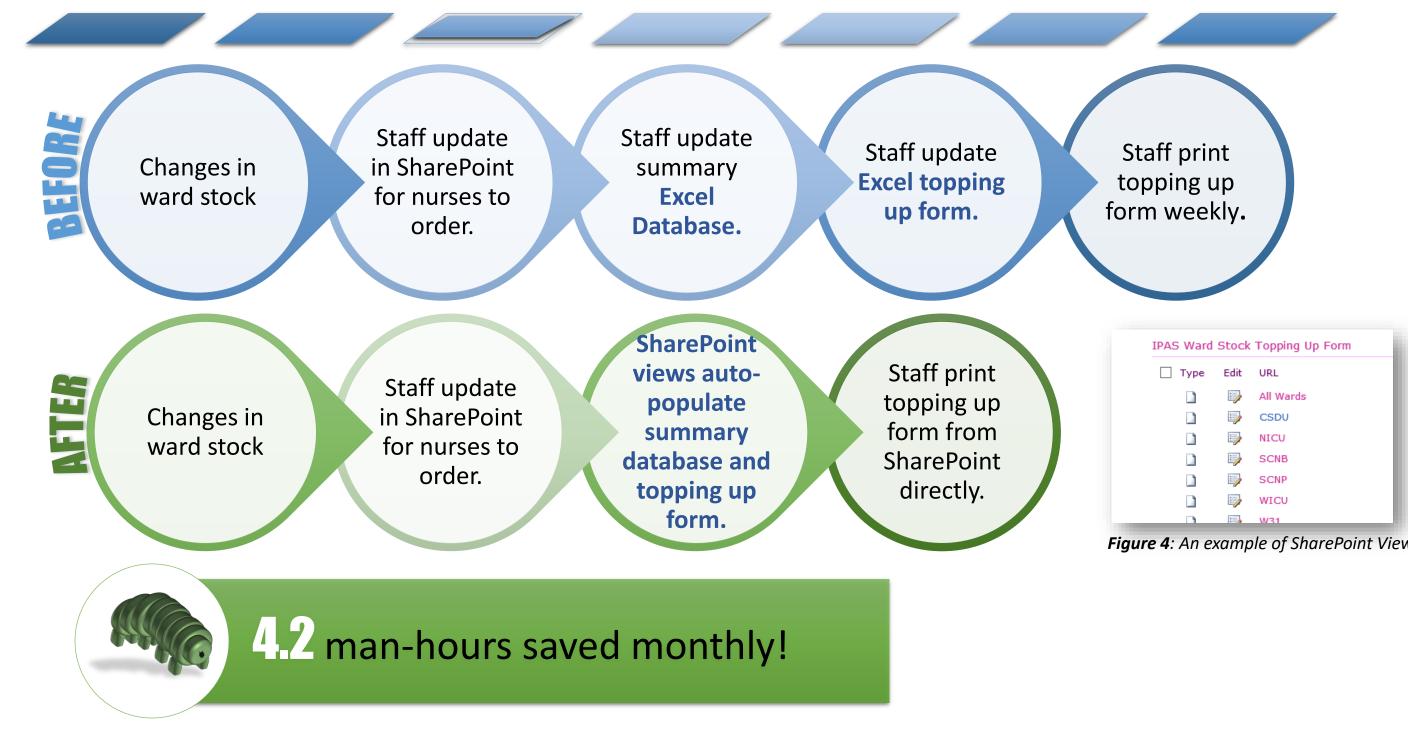


Staff **DO NOT need to perform manual counting** daily. Staff import data from queue management system into pre-

formulated template monthly.



5. Utilization of SharePoint Views to Streamline Ward Stock Changes





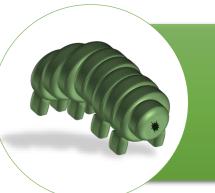
• Staff spends an average of **1.5 minutes** to **record** 10 drugs on drug returns form.

AFTER

Staff spends an average of **7 seconds** to **capture and upload** 10 drug returns in a dedicated muted secure chat group.

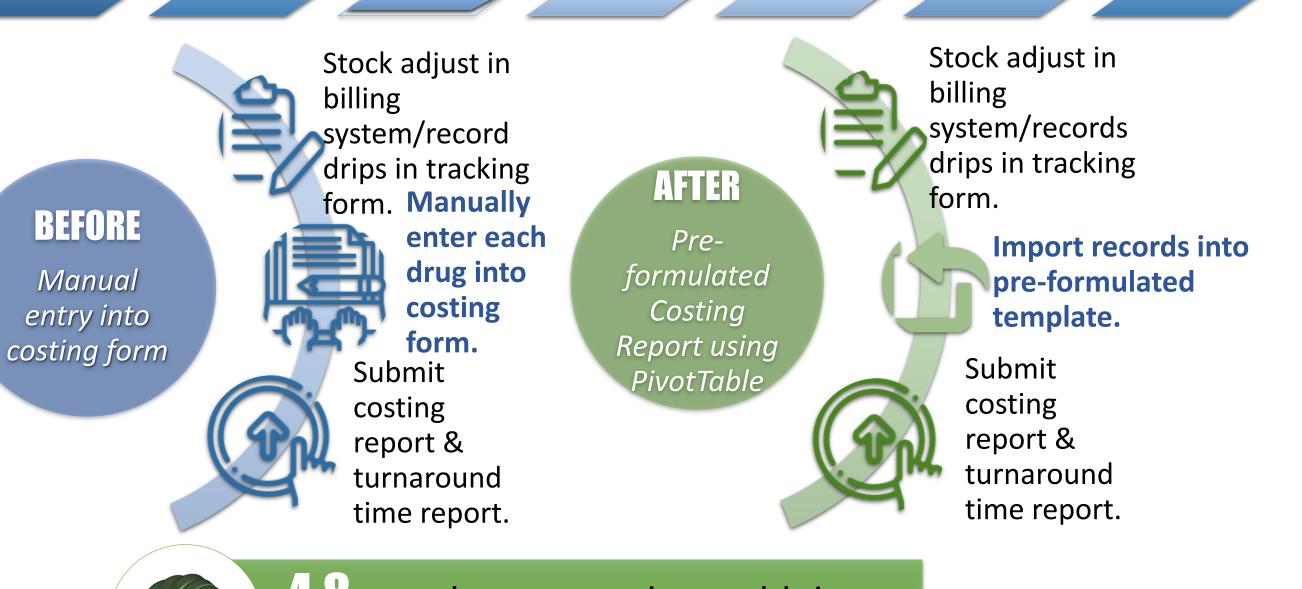


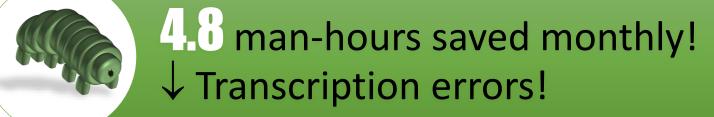
Figure 3: An example of capturing drug returns and uploading in a dedicated secure chat group.



4.3 man-hours saved monthly!
↓ Paper waste!
↑ Ease of investigating inventory discrepancies!

6. Pre-formulated PivotTable for Drug Costing







CONCLUSION

- This study demonstrates that seemingly insignificant differences in how we carry out our work can accumulate to significant time and cost savings, allowing staff to focus on their core responsibilities of delivering quality patient care.
- Change is an inevitable constant and resources are often limited we will continue to review, improve and adapt our processes to overcome the evolving challenges.

ACKNOWLEDGEMENTS

- This project would not have been possible without the support and hard work put in by EP and IPAS staff.
- We would like to thank Ms Oh Ching Ching (HOD, Pharmacy, KKH) and Ms Janice Lim (Deputy HOD, Pharmacy, KKH) for their advice and guidance.
- We would also like to thank Ms Evelyn Loh (Finance, KKH) to help us calculate the cost savings.

REFERENCES

¹Arnout Orelio (2020).Lean Thinking for Emerging Healthcare Leaders. Business Express Press. Our illustration of tardigrade, a microscopic animal that is renowned for its ability to survive extreme conditions. This symbolizes the spirit of improvement and adaptability in order to overcome the challenges.