

INTRODUCTION

RESULTS

Routine Patient-Reported collection of healthcare professionals (HCPs) makes it a interpret PROMs result for each patient. significant barrier for routine collection of PROMs. Robotic Process Automation (RPA) is a business process automation technology based on using metaphorical software robots to handle data in and between multiple applications.

From 13 March 2022 till 30 June 2022, of the Outcome Measures (PROMs) is essential in the 18,521 SMS sent out, there were 3,933 responses provision of person-centric, value-based (21.2%). It takes an average of 8 minutes of healthcare. However, the heavy workload of clinical time for a PT to administer, calculate and

OBJECTIVES

This project uses RPA to automate the routine collection of PROMs for patients attending General Hospital's Outpatient Singapore Musculoskeletal Physiotherapy (SGH MSK PT) Clinic, hence freeing up precious clinical time for Physiotherapists (PTs) to concentrate on provision of personalized quality clinical care. **METHODOLOGY**



As of 30 June 2022, we have saved 31,464 minutes of clinical time, which translated to \$22,559.69 in PT manpower cost savings (based on QI Savings calculator).

Ongoing monthly

savings of 8631 mins /

\$6188.72!

SMS sent to patient via appointment booking system (1 day before appointment)

Patient clicks on FormSG link in SMS and fills up form

Based on the current response rate, we forecast an ongoing monthly savings of 8631 minutes / \$6188.72.

CONCLUSION

This project has demonstrated the utility of RPA in the automation of PROMs collection, and we are continuing its use. Benefits from this project include:

- **Increased clinical time with patient**
- Reduced unnecessary cognitive work by PTs to calculate PROMs scores

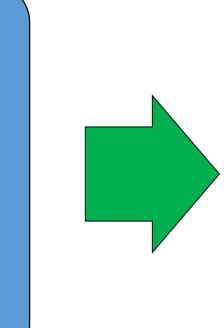
Building on the success of this project, we have already started several initiatives to improve on the patient response rate. **FUTURE**

RPA processes email using Microsoft **Excel (calculates PROMs scores**)

sent to common corporate mailbox

FormSG response

RPA sends out **PROMs scores to** respective PTs via email



PTs explains PROMs score to patients and inputs into edoc

- RPA can be programmed to identify / highlight patients with poor PROMs scores to PTs for greater clinical attention.
- Scaling up the use of RPA in PROMs collection to other healthcare specialties, will reduce burden on HCPs and help in the delivery of patient-centric, value-based healthcare.