Value-based Healthcare (VBHC): education Implementation of Individual **Clinician Report (ICR)**

Singapore General Hospital SingHealth

Khema Han Ziyan, Ng Shao Zhi, Rhoda Lew, Leow Xu Ying, A/Prof Hairil Rizal Bin Abdullah, Dr Jayanti Visvanathan, Raymond Teo Chee Yang, Elisabeth Angelina, VBHC@SGH Team

Introduction

The Singapore General Hospital (SGH) started its Value-Based Healthcare (VBHC) journey since 2019 to drive high quality care by reducing practice variability and deliver greater value to our patients. To date, the SGH VBHC initiative have 38 VBHC conditions under the care of 156 clinicians. For each condition, clinical outcome measurements known as Clinical Quality Indicators (CQI), were used as benchmark and analysed to identify improvement opportunities where quality initiatives were initiated. Simultaneously, monitoring of CQI performance through an interactive dashboard in Tableau was done to inform on the impact and effectiveness of our efforts.

Spreading the goals of VBHC beyond clinical leads of the various conditions in the development stage was essential for the success of VBHC. Alignment across clinical teams was sought through equipping clinicians with data of their own CQI performance in a personal report – the Individual Clinician Report (ICR). It allowed access to their performance with peer-to-peer benchmarking available. The evidence-based benefits demonstrated by the data garnered greater support from clinicians and encouraged self-driven improvement.

With remarkable improvement reported in several VBHC conditions, the volume of ICR is expected to grow with more conditions and clinicians coming onboard the VBHC initiative. Automation was necessary for an efficient report generation and distribution of ICR on a quarterly basis moving forward.

Methodology

The ICR for each clinician was populated from interactive Tableau dashboards of each condition. Due to the significant volume of ICR, RPA was explored to automate the end-to-end processing from report generation to dissemination.

Results

10x time savings with use of RPA for one ICR

Translates to ~\$10,500 Cost Savings in manhours per year

266 hours*

Steps taken in implementing the ICR

- 1. Communication Obtain buy-in from HODs and clinician leads through engagement and emphasis on intent of ICR:
 - Drive improvements at individual level
 - Promote alignment across clinical team to reduce practice variability
 - Reports are not used for appraisal which leadership is cognizant of

2. Curated & concise report – Provide key insights at a glance

- Summary of CQI performance
- · Trends and benchmarking to peers



3. Automation – Use of RPA UI Path to automate the end-to-end report generation and dissemination via email

🕂 + a b | e a u

ICHOM

Catalyst



• Outlook









*Based on quarterly dissemination of 266 ICRs

Sustainability of RPA Solution for ICR

Within the first year ...

Manual

Automated dissemination of 266 ICRs for 156 clinicians across 11 Tableauready conditions following the pilot

... By FY2023 Q2

Projected to roll-out 284 ICR, with the addition of 3 new conditions



Feedback on the ICR

Surveys are conducted to assess the effectiveness of ICR. Based on the recent survey in Aug 2023:

Clinical Director, Value Based Healthcare Singapore General Hospital

