

Project Title

NUHS Robotic Process Automation Programme

Project Lead and Members

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- Ms Tracy Soo
- Ms Sophia Tan
- Ms Clara Tan

Organisation(s) Involved

National University Health System

Healthcare Family Group(s) Involved in this Project

Medical

Applicable Specialty or Discipline

Specialised Support Service

Project Period

Start date: Not Available

Completed date: July 2022



Aim(s)

To enables real-time usage tracking and saves NUH 750 manhours.

Background

See poster appended/ below

Methods

See poster appended/ below

Results

See poster appended/ below

Conclusion

See poster appended/ below

Project Category

Care & Process Redesign, Productivity, Manhour Saving, Time Saving, Operation Management, Inventory Management

Technology, Digital Health, Data Analytics

Keywords

Robotic Process Automation, Bot

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NUHS Robotic Process Automation Programme

CONSIGNMENT CONSUMABLES TRACKING AND INVOICE PROCESSING @ NUH OPERATING THEATRES

Automate notifications to vendors, usage and top-up tracking and invoice validation for medical consumables on consignment in NUH Operating Theatres











MEDICATION DELIVERY SERVICE @ NUH PHARMACY

Facilitate billing process in iPharm and SAP after medication is dispensed for home delivery from all pharmacy sections in NUH

MINUTES







MAN



MAN HOURS

Robotic Process Automation (RPA) enables real-time usage tracking and saves NUH 750 manhours!

NUH Operating Theatres (OT) was previously using a tedious and manual process of tracking the usage, delivery and billing of medical implants and supplies on consignment. Coupled with only a lean team managing the large volume of invoices and vendors, this sometimes led to late Purchase Order (PO) top-ups and low stock levels.

Specialised Support Services (SSS) brainstormed and initiated the use of RPA to take over this time-consuming task with the help of IHiS.





Robotic Process Automation (RPA) saves NUH over **400 manhours per month!**

NUH Pharmacy was previously using a manual billing process for its medication delivery service which involved data entry, toggling between systems and checking payment modes.

Each billing record typically took 7 minutes. With RPA, the time taken was reduced to approximately 4 minutes per record, successfully freeing up 40% of employee's time.

BEFORE RPA



Create record in EPIC after dispensing medication for home delivery



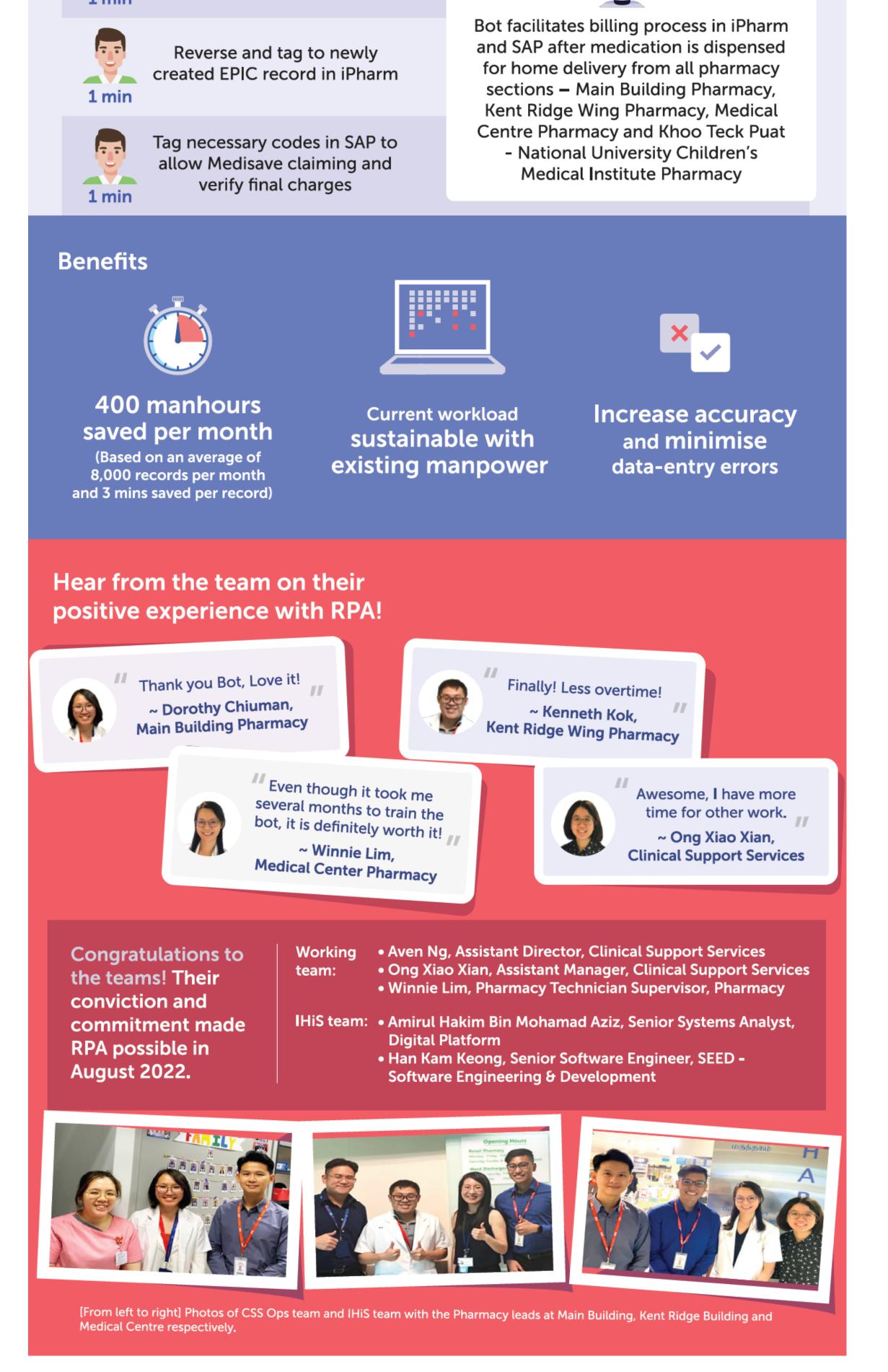
Waiting time for system interface and toggling between systems











The NUHS RPA Team: Peter Forbes, Seah Han Yong, Wong Soo Min, Alan Goh (IHiS), Lim Yew Song, Daniel Tan, Lawrence Cheng, Lee Soo Wee, Kenneth Yong, Cassandra Lee, Darren Toh (IHiS), Daryl Ye (IHiS), Amirul Hakim (IHiS), Han Kam Keong (IHiS), Ng Bee Ling, Aven Ng, Ong Xiao Xian, Zoe Kong, Winnie Lim Li Bing, Jeremy Lee, Mushan Wong, Tracy Soo, Sophia Tan, Clara Tan