

Project Title

NDCS "Digital First" Specialist Clinic

Project Lead and Members

- Ricky Hi Cheong Leong
- Xu Jianxiong
- Daniel Tay Ming Ming
- Elaine Tan Li Yen
- Shirley Tan E Ling
- Willie Woo Shek Chow
- Lim Szu Min
- Michelle Lim Soong Cheng
- Stara Tan Chieu Fern
- Teh Siew Yee

Organisation(s) Involved

National Dental Centre Singapore, SingHealth

Healthcare Family Group(s) Involved in this Project

Healthcare Administration

Applicable Specialty or Discipline

Dental/Dentistry

Project Period

Start date: 2021

Completed date: Dec 2022

- Mastura Binte Mohd Yusof
- Maslina Binte Wahab
- Jojinee Binti Mohamed
- Jayaram Veeramani
- Hayraini Bte Hayat
- Keith Heng Swee Kok
- Bernice Teo Jun Hui
- Chan Mei Ying
- Jason Lim Weiliang



Aim(s)

To enable us to be counterless for repeat visits, hence empowering our patients, improving their experience and reducing their on site dwell time

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 (SHM) Congress 2023 – Merit Prize (Operations category)

Project Category

Care & Process Redesign

Quality Improvement, Design Thinking, Workflow Redesign

Keywords

NDCS " Digital First" SOC

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NDCS "Digital First" Specialist Clinic

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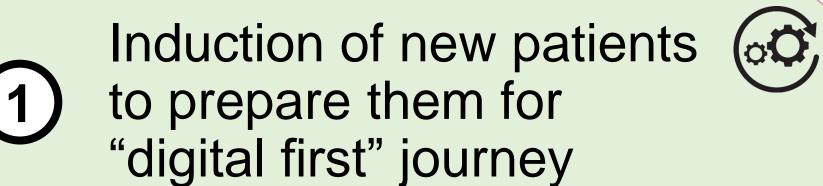
Singapore Healthcare Management 2023

- ¹ Operations, National Dental Centre Singapore, SingHealth
- ² Dept of Orthodontics, National Dental Centre Singapore, SingHealth
- ³ Organisational Planning and Performance, National Dental Centre Singapore, SingHealth
- ⁴ Office of Patient Experience, National Dental Centre Singapore, SingHealth
- ⁵ Corporate Communications and Development, National Dental Centre Singapore, SingHealth
- ⁶ Institute for Patient Safety & Quality, SingHealth
- ⁷ Facilities Development, SingHealth

SUMMARY AND BACKGROUND

In alignment with Singapore's Smart Nation initiatives in promoting digital literacy and increasing digital adoption, we formed a multidisciplinary team in late 2021 and employed a patient-centred design thinking methodology to transform our clinics to enable a unified patient journey centred on "digital first" principles. We piloted the initiatives on two out of five Specialist Outpatient Clinics (SOCs) at NDCS in Dec 2022, where patients can transact almost entirely using digital platforms before, during and after their SOC visits. These two "digital first" clinics enabled us to be counterless for repeat visits, hence empowering our patients, improving their experience and reducing their on-site dwell time. As the COVID-19 pandemic has nudged the population towards transacting via digital platforms, we assessed that it is timely to promote digital services at the clinic.

CREATING THE "DIGITAL FIRST" CLINIC





Consolidated backend functions across 2 clinics

"Drop and Go" as a default without needing to wait onsite for payment







Murals for patient education (QR codes) and "digital first" promotion



Redesigned roles to support "digital first" (7)

8

Introduced new digital ambassador role



Retrained staff for re-designed roles





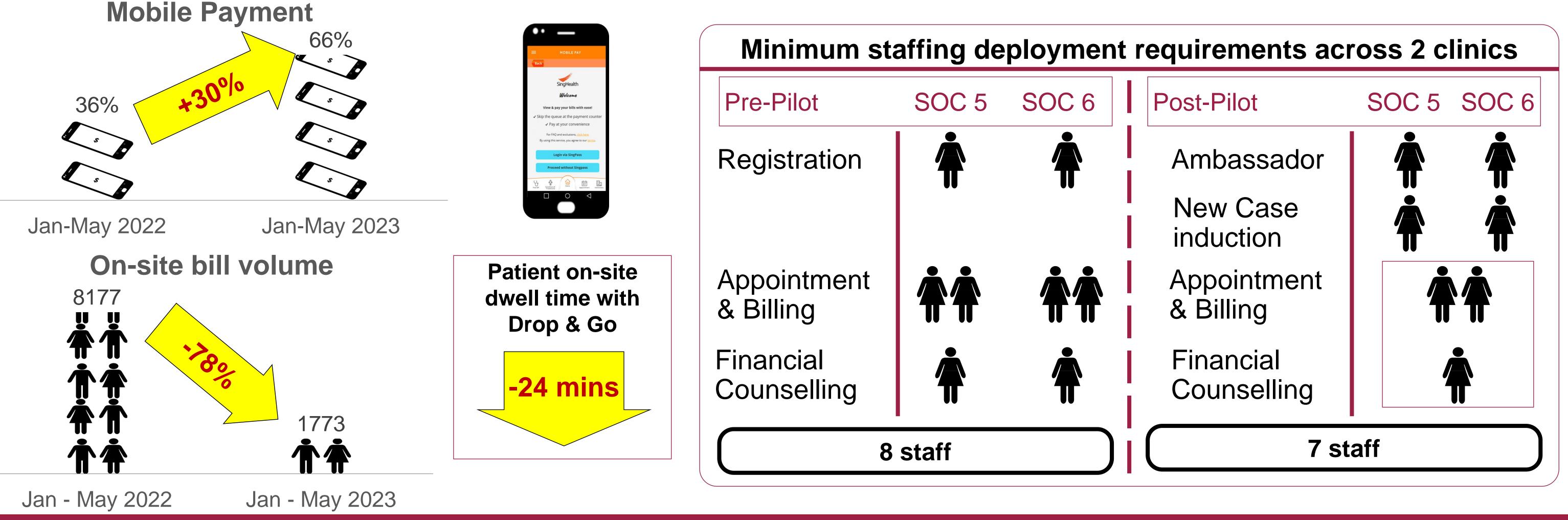


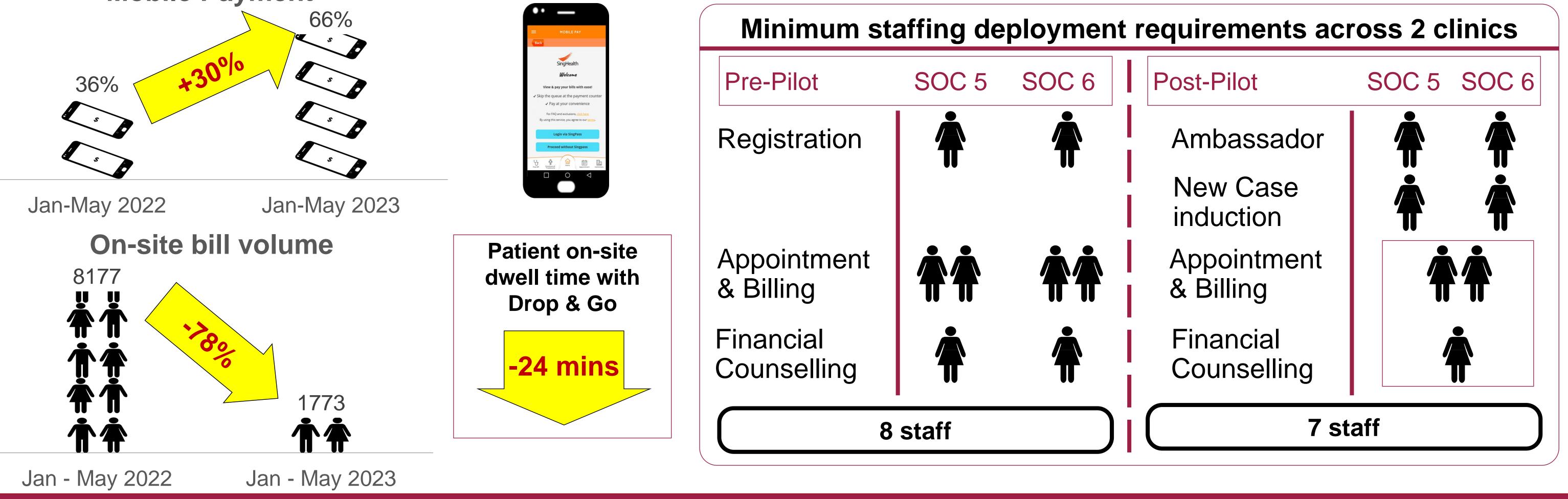






FOLLOWING IMPLEMENTATION OF "DIGITAL FIRST" CLINIC IN DEC 2022





CONCLUSION

Using a design-thinking approach, our pilot project had shown effectiveness in encouraging digital adoption for our patients by 30%, reduced patient on-site dwell time by 24 minutes per patient, and improved flexibility in staff deployment.

We will continue to build on these early positive results and expand this "digital-first" concept to other clinics, ahead of our eventual move to the new NDCS building in 2027.