

EndocRxine



Endocrine Post-Consult Pharmacy Service at Singapore General Hospital Diabetes & Metabolism Centre

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Background

Diabetes & Metabolism Centre (DMC) is an integrated, multi-disciplinary centre that provides one-stop service for patients with diabetes and metabolic conditions. Bowyer Block Pharmacy (BBP) is located at DMC Level 1, and mainly serves patients seen at the DMC clinics.

Complex patient journey during their outpatient visits may result in suboptimal interaction and experience. Placing pharmacists closer to physicians' clinic and integrating pharmacy services more seamlessly may improve patients' overall journey. In collaboration with the Department of Endocrinology, the Endocrine Post-Consult Pharmacy Service (EndocRxine) was piloted at DMC Level 3.

Mission Statement

- Reduce waiting time for Endocrine patients at BBP by 50% in 4 weeks
- Improve patient satisfaction with their overall journey at DMC

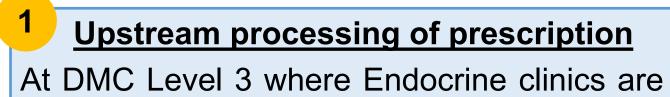
Analysis Suboptimal patient experience at pharmacy Long perceived Frequent changes to waiting time at medication orders pharmacy Drug-related problems Patients served in Patients **uncertain** about chronological order identified after the medication collection and regardless of complexity costs involved medications are prepared Medication review Patients **unable** to Patients triaged based on conducted after number of items ordered comprehend prescription medications are prepared at the pharmacy orders Fig. 1: Root cause analysis for suboptimal patient experience at BBP

Interventions / Initiatives

Before

- Prescription filling process starts when patient submits prescription at pharmacy
- Medication orders are taken at the pharmacy reception counters EndocRxine Medication review and reconciliation are performed at point of dispensing

EndocRxine



- located, two pharmacists are stationed to: √ Receive and enter orders into the
- pharmacy system
- √ Review and reconcile medications
- √ Counsel patient on medications



Fig. 2: EndocRxine Pharmacists at DMC Level 3

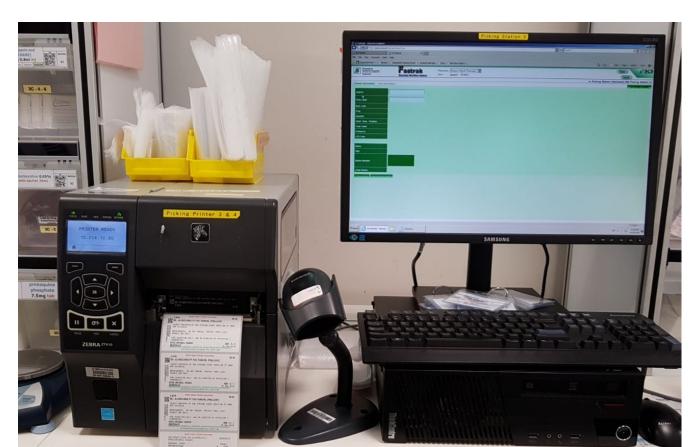


Fig. 3: Remote printing of medication labels at BBP



Fig. 4: Queue at BBP reception counters

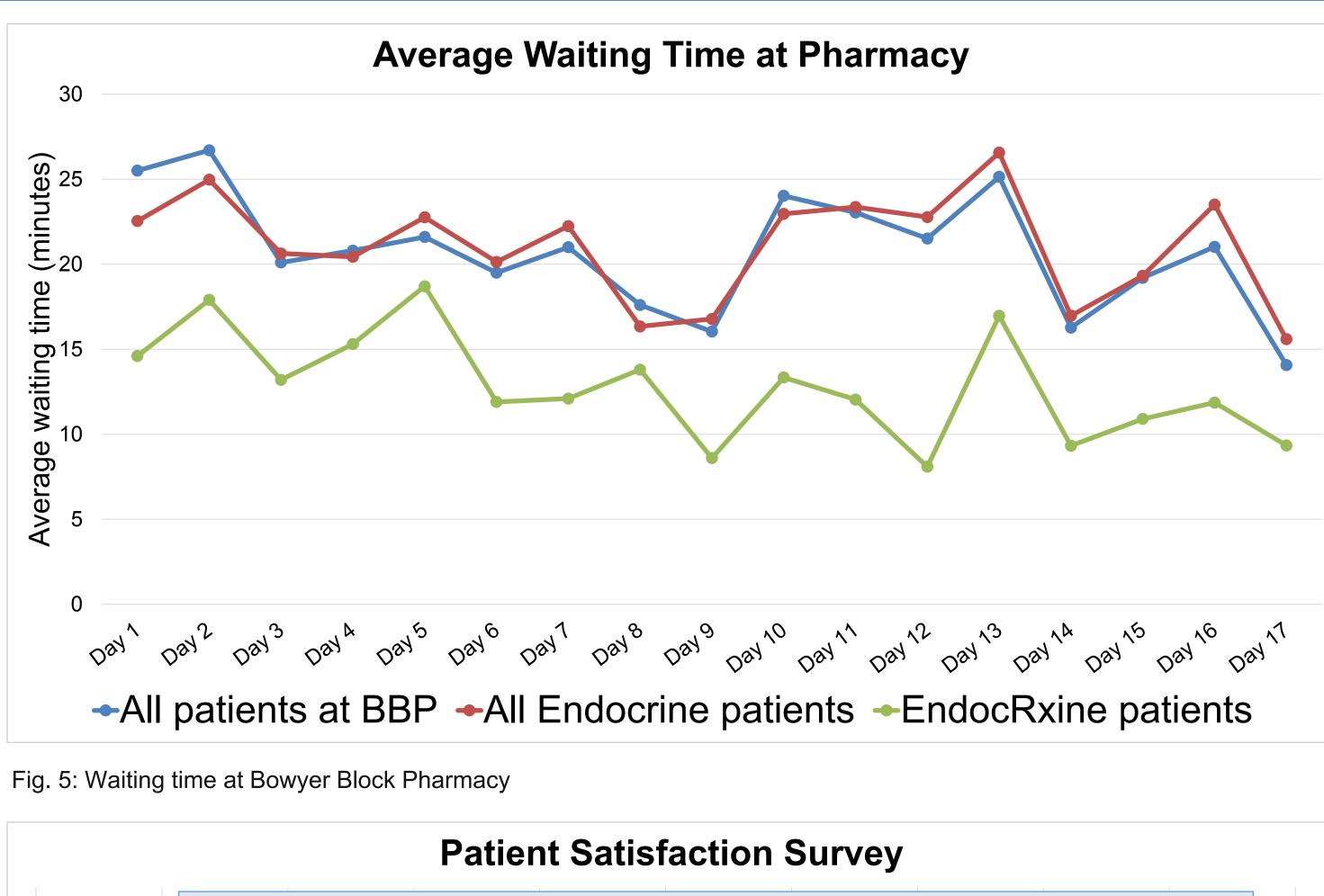
Parallel processing of prescription

Orders confirmed at DMC Level 3 are triggered for picking and packing at pharmacy before patients' arrival

Designated counters for EndocRxine

Patients are directed to designated counters at the pharmacy to collect their medications, bypassing the reception queue

Results



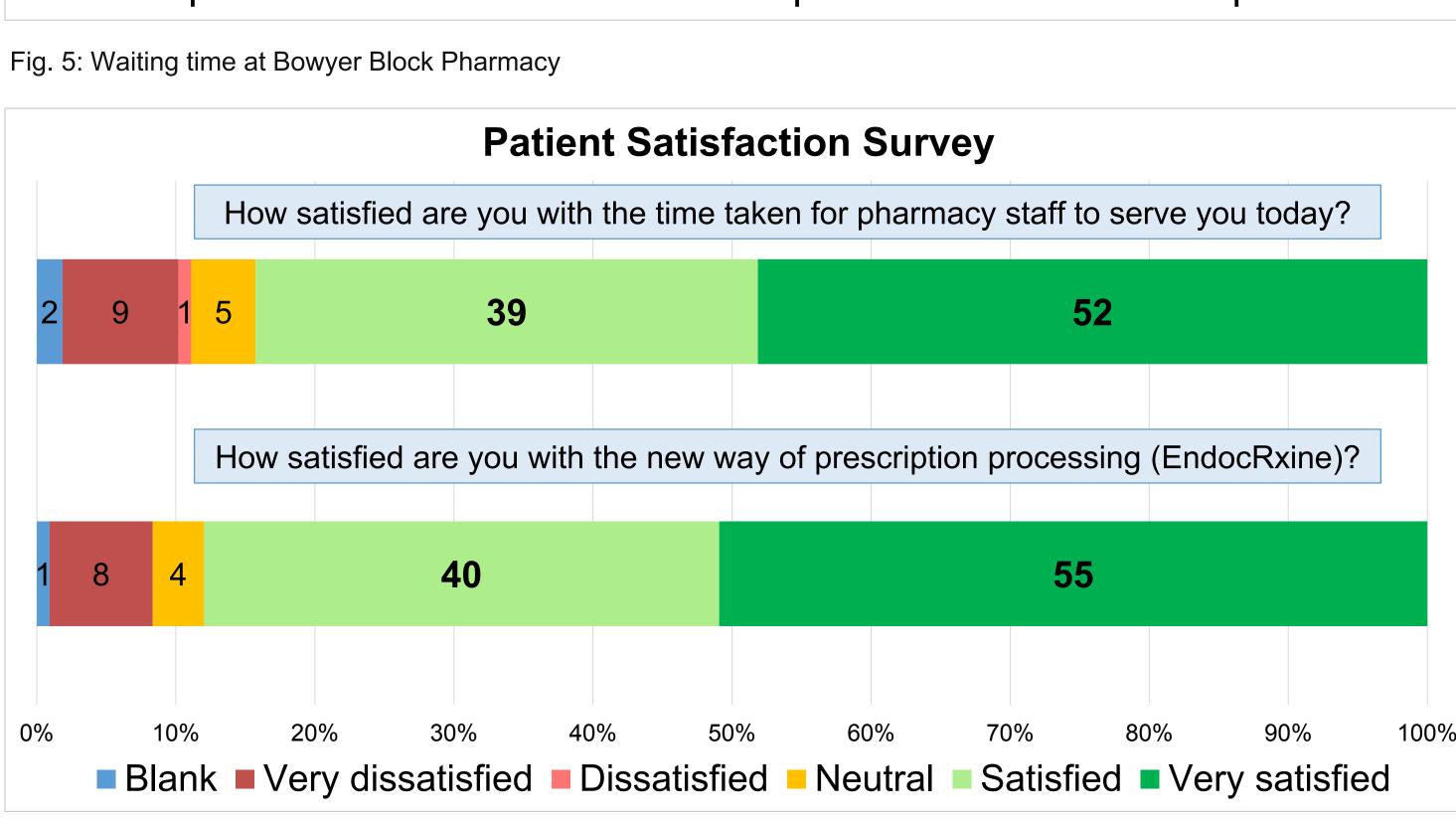


Fig. 6: Patient satisfaction survey on EndocRxine

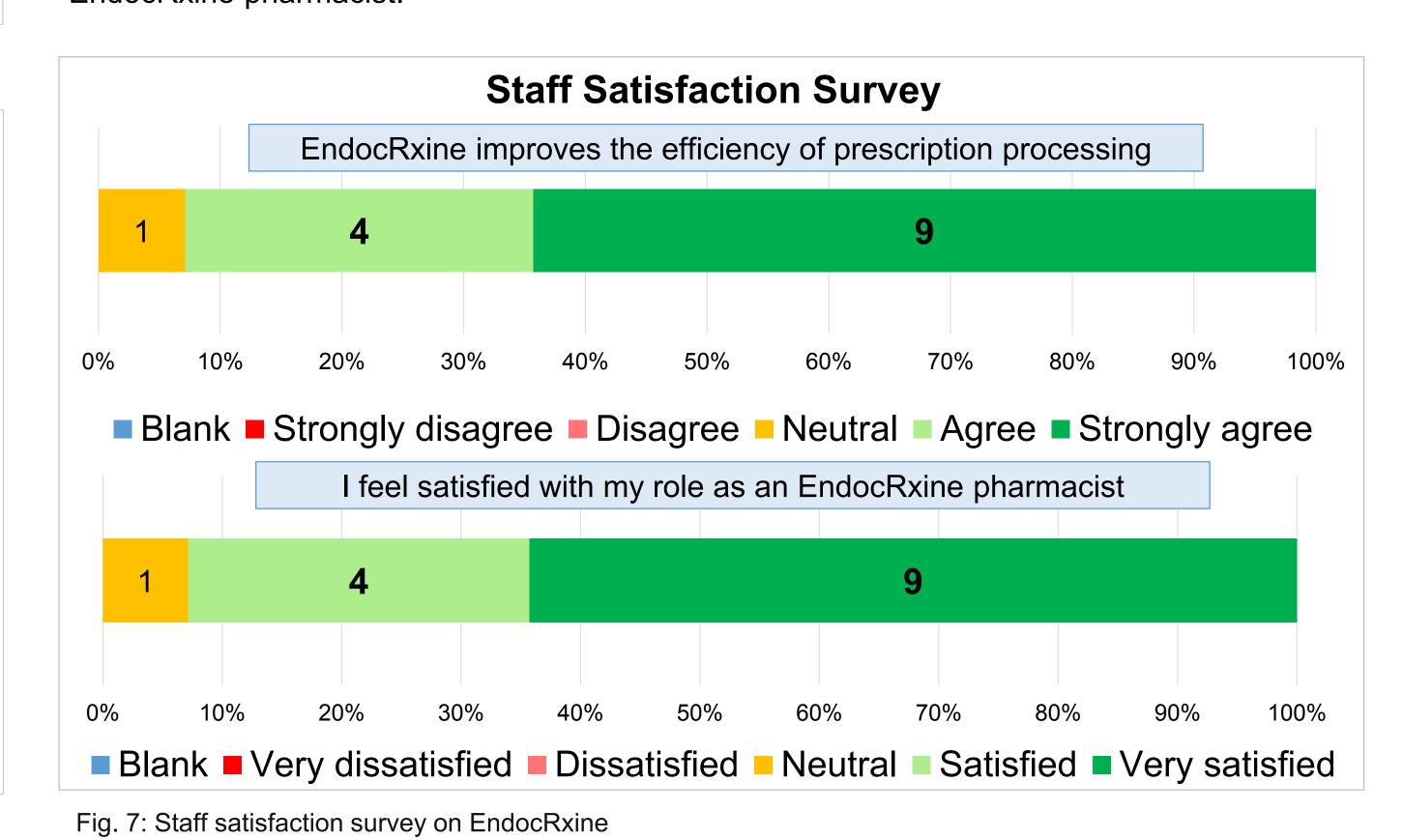
Reduced waiting time for EndocRxine patients (12.3 mins) as compared to Endocrine patients (24.8 mins)

EndocRxine served an average of 44 patients per day during the 4-week trial. Among the EndocRxine patients, 98.1% of them were able to collect their medications within 30 minutes.

A total of 108 patients completed the patient satisfaction survey, with 88.8% and 85.8% of the patients being satisfied or very satisfied with the time taken for pharmacy staff to serve them and the service model (EndocRxine) respectively.

73.6% of the EndocRxine patients prefer to have their prescription processed at DMC Level 3 via the new model

Among the 15 pharmacists involved in the service, 14 pharmacists completed the staff satisfaction survey. Majority of them (92.9%) agreed or strongly agreed that EndocRxine improves the efficiency of prescription processing and were satisfied with their role as EndocRxine pharmacist.



Conclusion & Sustainability Plans

EndocRxine leads to improved efficiency in prescription processing and patient satisfaction with their overall journey in DMC. The service has also been successfully incorporated into daily operations with sustained positive results. Future plans for service expansion to other clinics are underway.

Acknowledgements

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