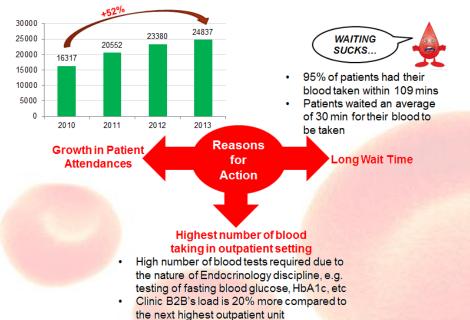
Improving Wait Time for Blood Taking at Clinic B2B Treatment Room

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Introduction

Clinic B2B in TTSH runs outpatient services for Endocrinology and Renal Medicine. The nature of the disciplines coupled with increasing workload have resulted in long wait time for blood taking, which occurs in the clinic's treatment room.



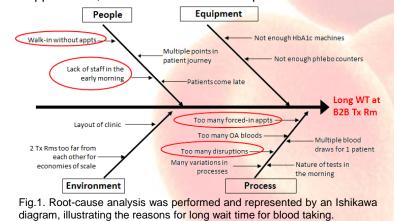
This project aims to:

- Decrease wait time for blood taking at treatment room, and
 - Improve patient satisfaction at treatment room.

Methodology

The project team formed was multi-disciplinary, and included colleagues from Clinic Operations, Nursing, Medical, Laboratory, and Kaizen Office.

Using Lean Methodology for quality improvement, the team employed the Value Stream Mapping tool. This involves analysing the current state, identifying areas of value and waste, then streamlining processes to map out a future state. This allowed root cause analysis (see Fig.1), derivation of solution approaches, and formulation of action plans.



Actions Taken (I)

The solution approach was centred around 4 areas:

Appointment logic and scheduling	To improve the appointment slots planning and prioritisation of different types of blood test
Resource Optimisation	• To review resource usage in terms of nursing manpower deployment, appointment slots available, and blood taking chairs available
Communications	 To improve patient education regarding keeping to appointment time and improving the understanding of blood tests instructions
Reduction of Disruptions	• To have a better system to minimize disruptions such as adhoc queries from patients and walk in's

Actions Taken (II)

The team formulated and carried out a multi-pronged action plan, engaging beyond the project team to include more colleagues in these improvements (see Fig.2).



6 chairs due to improved

layout in treatment room



Standardisation of how different blood tests are additional equipment to match manpower number prioritised



other clinics to beef up resources during peak hours





Accurate allocation of appointment slot duration to prevent overbooking

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of fridge into treatment room

Labels added to appointment slots made it easier for accurate booking

Posters communicate blood test steps & discourage walk-ins

Fig.2. A summary of improvements and initiatives implemented at Clinic B2B in efforts to decrease patients' wait time for blood taking in a holistic manner

Results

Over Aug 2013 to Mar 2014, through resource optimisation, streamlining processes, and improving communication with patients and internal stakeholders, the team achieved:

- 33% reduction in 95th percentile wait time from 109 min to 73 min (see Fig 3)
- 43% reduction in average wait time from 30 min to 17 min (see Fig. 4)
- 14% improvement in patient satisfaction
- Nurses omitted 30 min of their daily administrative duties to focus on patient care as a part of PSA job design
- Increased clinic overall capacity with a gain of one additional consultation room

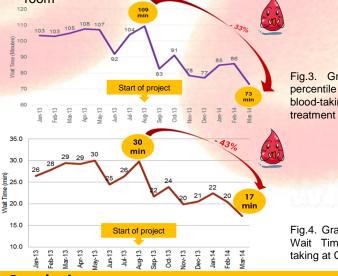


Fig.3. Graph showing the 95th percentile Wait Time (minutes) for blood-taking at Clinic B2B treatment room.

Fig.4. Graph showing the Average Wait Time (minutes) for bloodtaking at Clinic B2B treatment room

Conclusion

The team achieved these results through data-driven decision-making and continuous engagement and empowerment of staff. The main root causes of the long wait were found to be flaws in appointment scheduling logic and gaps in resource optimisation. By tackling these areas, a reduction in wait time was achieved. The different perspectives from various stakeholders were also crucial in achieving the targeted outcomes.