'Listing-Room' Interrupted ... No More Singapore Healthcare Management 2016



SingHealth

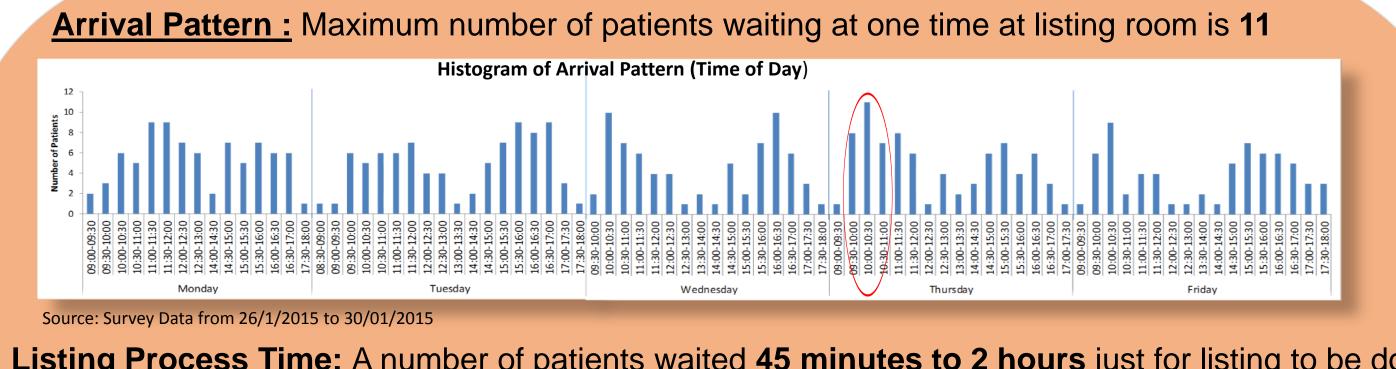
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Introduction

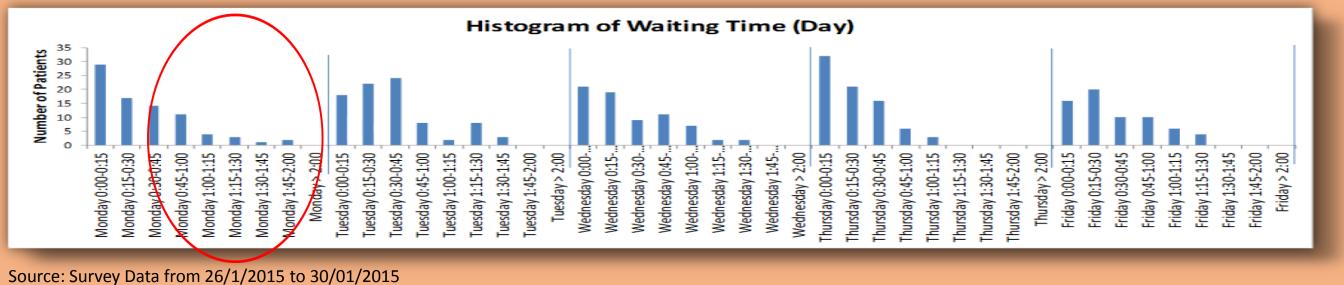
Centre for Digestive and Liver Disease(CDLD) at Singapore General Hospital(SGH) sees an average of 600 patients daily. As a result of the procedural nature of the disciplines seen in CDLD, most patients who visit the centre are often listed for scope or surgical interventions. An average of 76 patients would require listing for scope/surgery or both compared to other clinics like ENT (Ear, Nose & Throat) that have less then 20 listing on a daily basis. With this high volume of listing performed at CDLD, the nurses in the listing rooms are often interrupted by patients, leading to longer waiting time for listing and unhappiness amongst staffs and patients. In order to improve the experience at the centre, a project team was formed to reduce the interruptions in the listing room at CDLD. The primary goal is to eliminate interruptions in CDLD listing rooms, while the secondary goal is to reduce 75 percentile of the waiting time for listing from 45 minutes to 30 minutes at CDLD.

Method

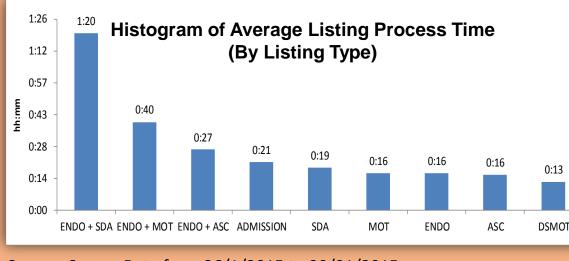
Data was collected for 1 working week from the 26th to 30th January 2015 by CDLD staff to explore the arrival pattern of patients, how long patient waits for listing, time taken for listing process and the number of times nurses are interrupted.



Listing Process Time: A number of patients waited 45 minutes to 2 hours just for listing to be done.



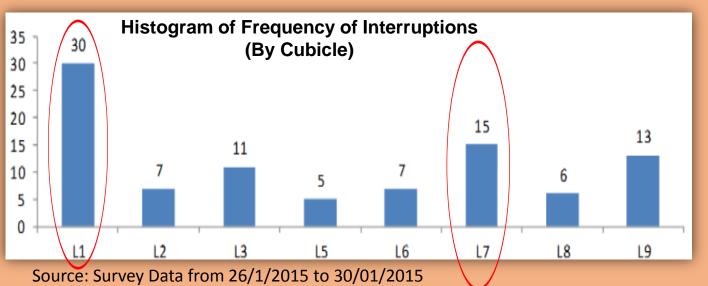
Average Listing Process



Source: Survey Data from 26/1/2015 to 30/01/2015 Double listing takes a longer time due

- special instructions for certain surgeries
- Double & 2 separate documentation,

Frequency of Interruptions Histogram of Frequency of Interruptions



L1 (listing cubicle 1) and L7 (listing cubicle 7) were identified the most interrupted compared to other listing cubicles due to:

5 Whys Diagram

- All case notes for listing were piled at L1.
- L7 is identified by General Surgery Doctors for

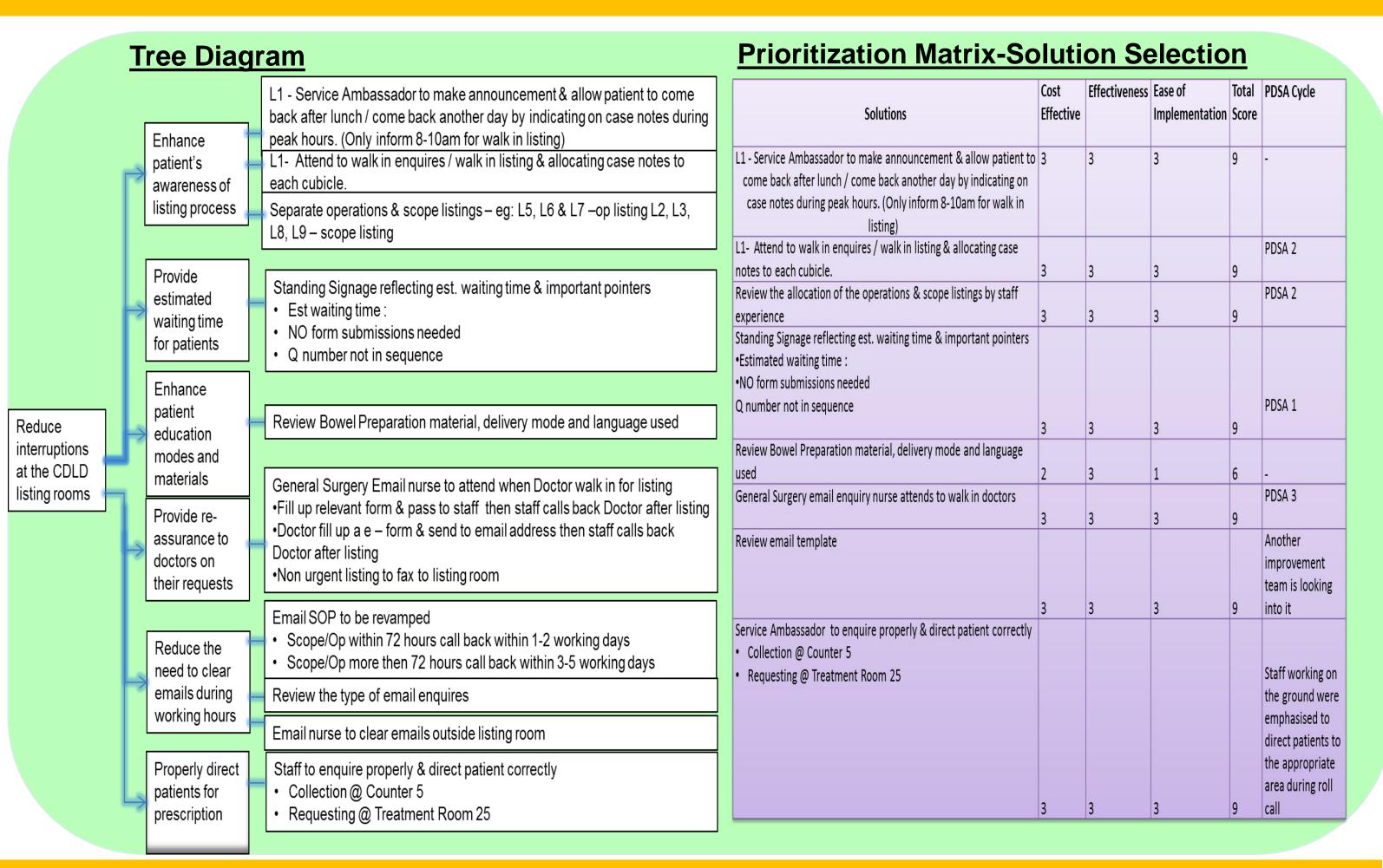
last minute listing/cancellation explanation & booking in system **Root Cause Analysis of Interruption 5 Whys Diagram** Doctor walk in Interruption reasons and average duration Doctor wants immediate 90% Request for Rescheduling 70% 16 mins Patient change 6 mins 60 mins 30 mins Additional/Urgen anesthetist not MOT or ASC available Listing from the consultant OTM Listing only can be done at SOC level Other department submit the request forms via fax or by person, but GS doctor only walk in Patient enquire emails Patient walk in After PDSA 2: Scope are cleared during listings wait at L1 for next listing hours available nurse to attend to enquiry before Change of op/ deciding listing scope date Re –explanation Confirm correct Current staff assignment establishment 3 staff assigned to clear email for 3 major Pt wants departments namely Gastro, GS and confirmation of from ASC/Endo **Doctor wants** form submission patient's confirmat Patient is unsure before planning for Wrongly Patient unsure of directed They are the listing unable to list (Should go Unable to get Prefers Face to face to treatment

know estimate

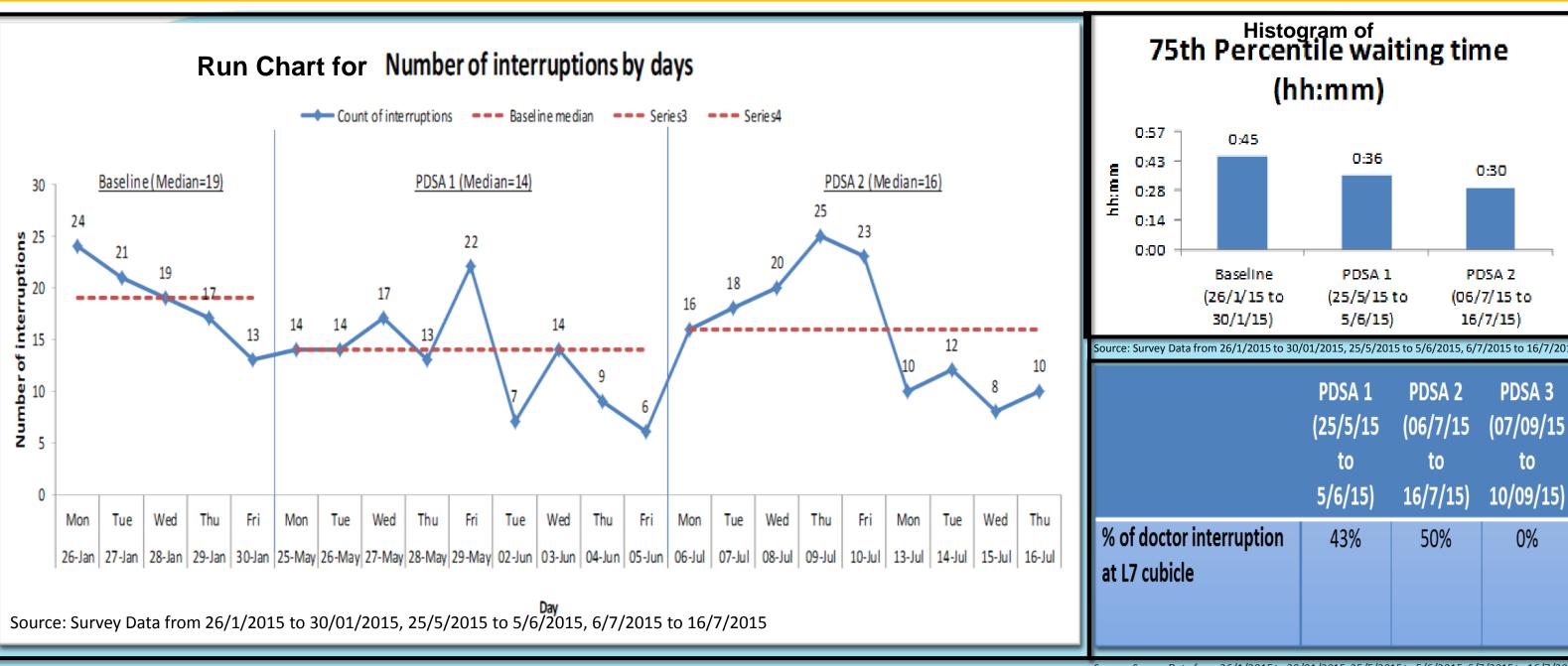
5 Whys Diagram

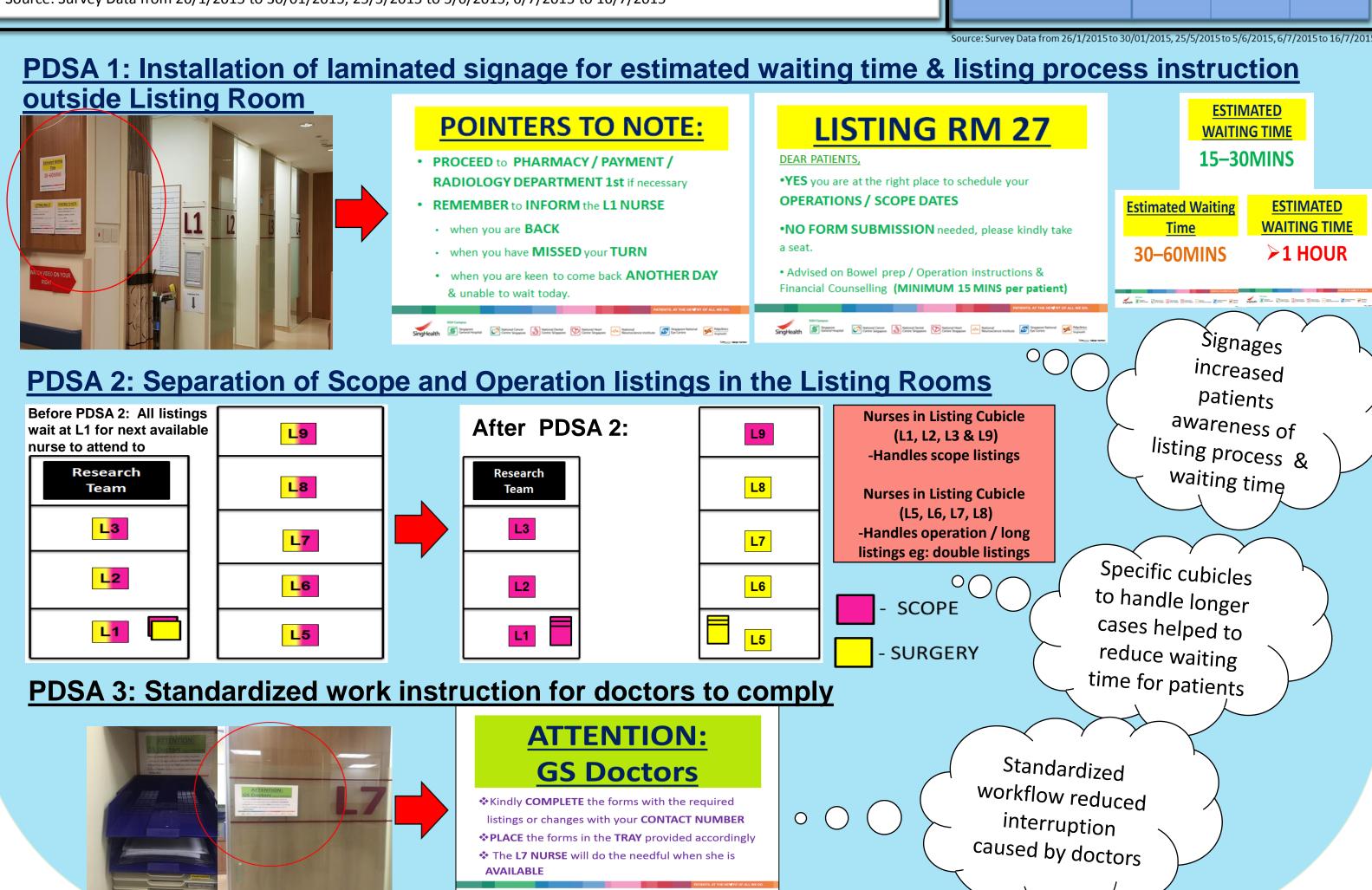
waiting time

Method



Outcomes





Conclusion

As the interruption activity is primarily human factors and it is very difficult to achieve 100% success. To greatly eliminate interruptions, a major change in the existing infrastructure layout is required. This requires major renovation and hence is not doable. However, the initiatives achieved the sub-goal of 30 minutes waiting time at the 75th percentile. With better focus on the listing, nurses are able to maximize each patient contact to provide most efficient service delivery, which is in line with SGH service commitment "Best Outcome, Best Experience". Patients spent less time waiting and they are happier. In addition, staffs felt less stressful with less interruption from patients and time spent with each patient is more meaningful as personalized care can be rendered. To ensure sustainability of project, monthly service level tracking through feedback forms will be analyzed and random audits will be conducted by the nurse clinician. The project has also created a spin-off for the nurses to explore other opportunities like improving our bowel prep instructions in the future.