

CHI Learning & Development (CHILD) System

Project Title

Proposed workflow to improve the dental operatory session utilisation rate

Project Lead and Members

Project lead: Dr Wong Li Beng

Project members: A/Prof Adrian Yap U Jin, Ho Fang Ting, Janet Ong, Wilson Tay,

Hayley Khng, Priscilla Low, Kelvin Lew

Organisation(s) Involved

Ng Teng Fong General Hospital

Healthcare Family Group Involved in this Project

Medical, Healthcare Administration

Applicable Specialty or Discipline

Dentistry

Aims

The aim of this project was to increase the dental operatory session utilisation rate from a mean of 78% (Jan 2019 to July 2019) to above 85% by Mar 2020. This increase would be necessary to maximize the utilisation of all the 10 dental operatories to accommodate the clinical sessions for all the full-time clinicians.

Background

See poster appended/below

Methods

See poster appended/below



CHI Learning & Development (CHILD) System

Results

Clinicians submitting their leave two (2) months in advance has improved the

utilization target rate.

Lessons Learnt

Better coordination between the Ops Manager and Clinical Coordinator, clinician

compliance to apply for leaves early and flexibility in workday arrangement have

contributed to improved session utilization rate.

Conclusion

See poster appended/ below

Project Category

Care & Process Redesign

Value Based Care, Operational Management, Resource Allocation

Keywords

Dental Operatory, Utilisation Rate

Name and Email of Project Contact Person(s)

Name: Dr Wong Li Beng

Email: Li Beng Wong@nuhs.edu.sg

PROPOSED WORKFLOW TO IMPROVE THE DENTAL OPERATORY SESSION UTILIZATION RATE

A/P ADRIAN YAP U JIN, DR WONG LI BENG, HO FANG TING, JANET ONG, WILSON TAY SER CHYE, KHNG EN LYN HAYLEY, PRISCILLA LOW NYUK CHENG, KELVIN LEW SIN MIN

□ SAFETY□ QUALITY□ PATIENTEXPERIENCE



Define Problem, Set Aim

Problem/Opportunity for Improvement

As of 1st Aug 2019, there were 13 full time clinicians in the Department of Dentistry, operating in both Ng Teng Fong General Hospital (NTFGH) and Jurong Medical Centre (JMC). There are currently 10 dental operatories available in NTFGH. From 1st Aug 2019, all the clinicians would be consolidated at NTFGH, there would thus be a shortage of dental operatories available for all the clinicians.

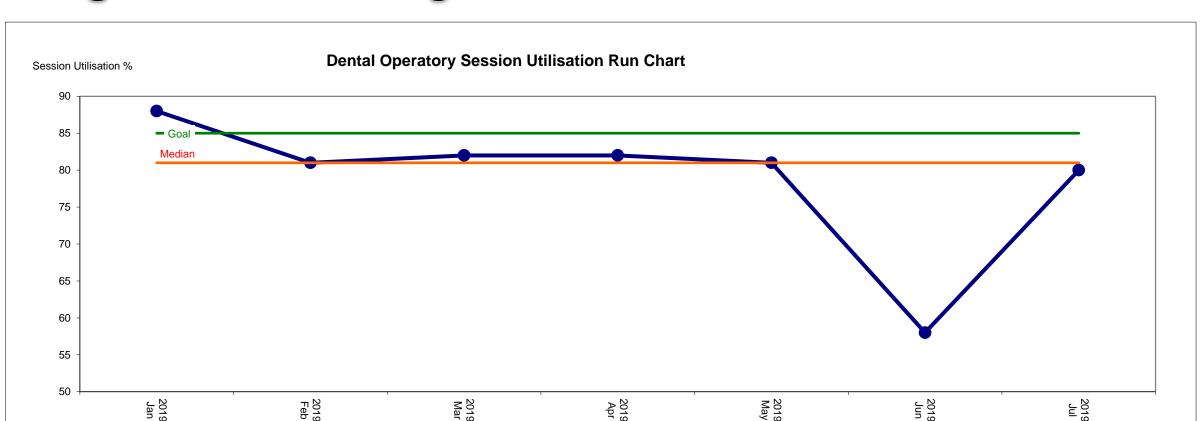
From Jan 2019 to July 2019, the monthly dental operatory session utilisation rate ranges from 58-88% (mean 78%), which can be more optimally utilised to accommodate all the clinicians.

<u>Aim</u>

The aim of this project was to increase the dental operatory session utilisation rate from a mean of 78% (Jan 2019 to July 2019) to above 85% by Mar 2020. This increase would be necessary to maximize the utilisation of all the 10 dental operatories to accommodate the clinical sessions for all the full-time clinicians

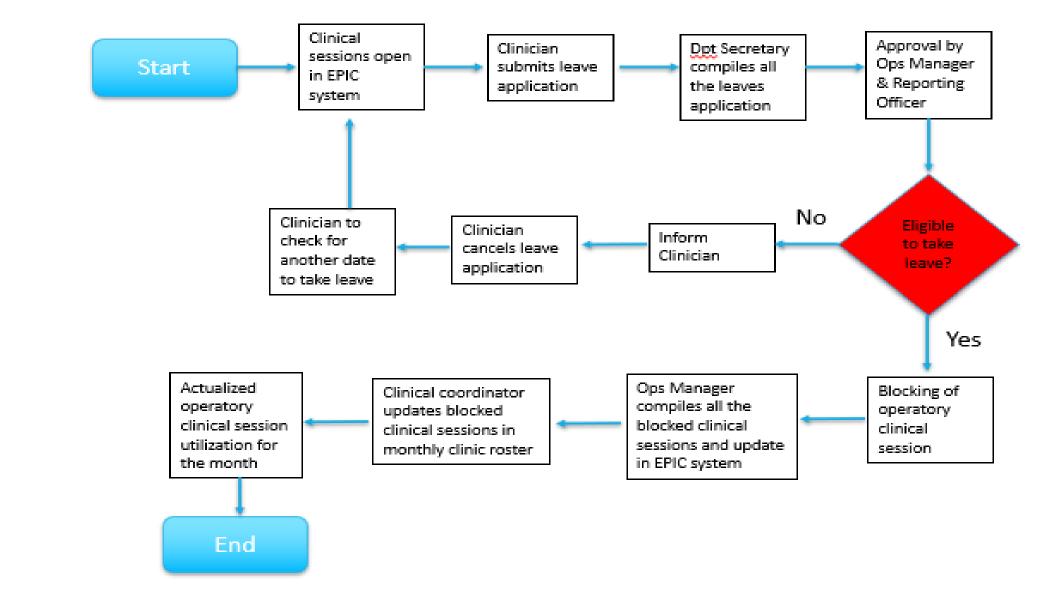
Establish Measures

Outcome measure: Dental operatory session utilization rate (%) Process measure: Leave submission compliance rate (%) Balancing measure: Average clinical FTE of all full-time clinicians

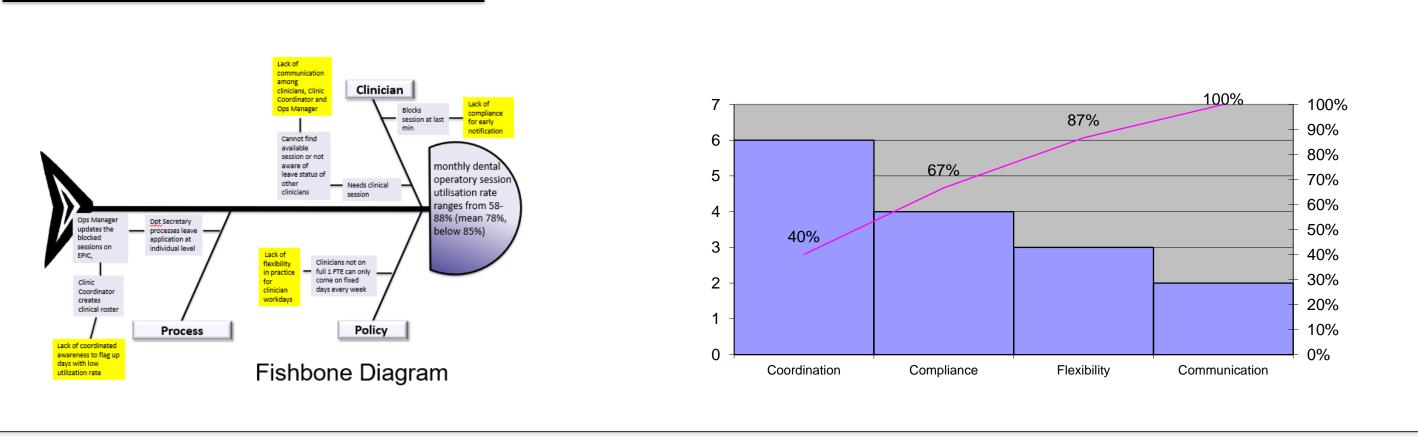


Analyse Problem

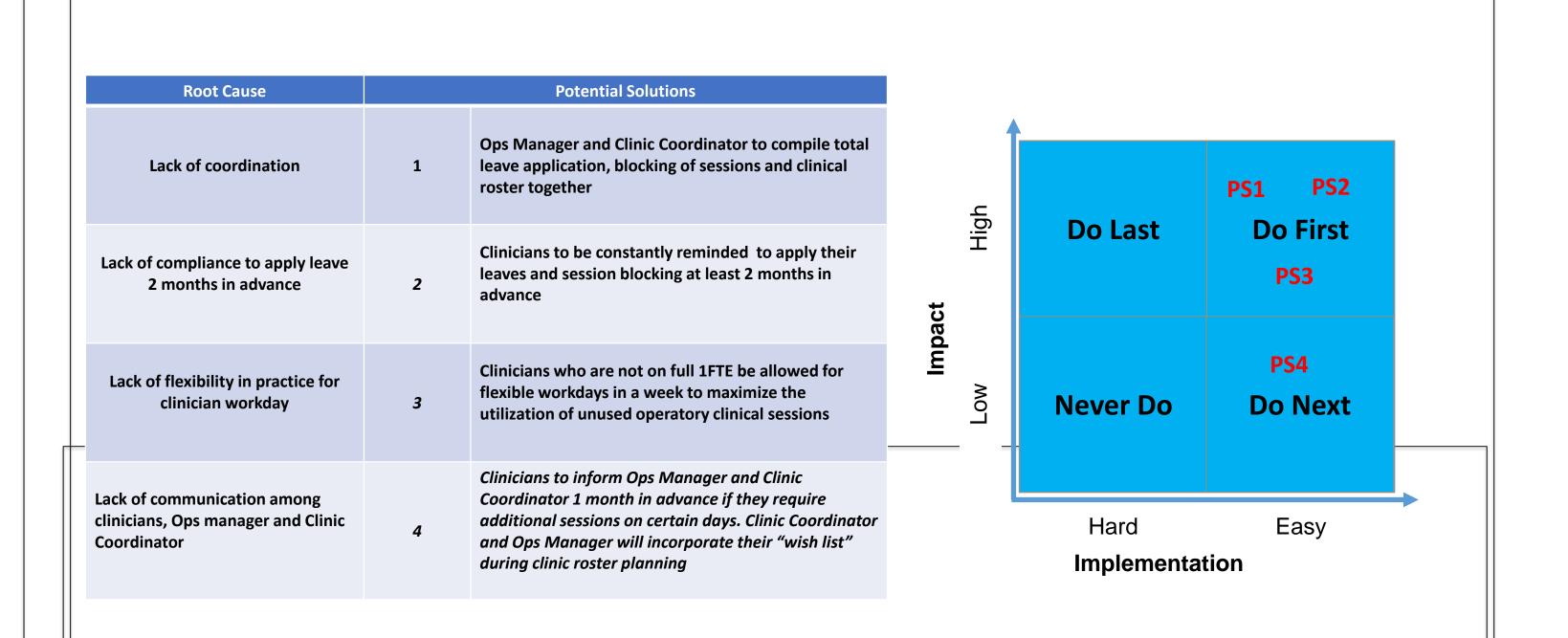
Current Process



Probable Root Causes

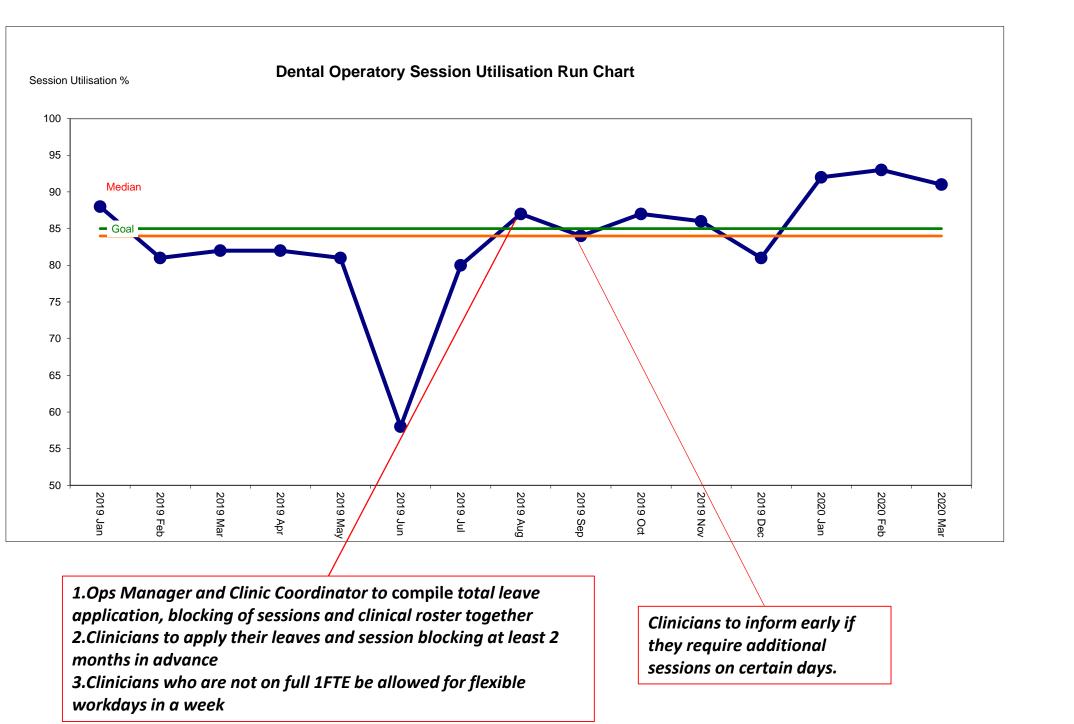


Select Changes

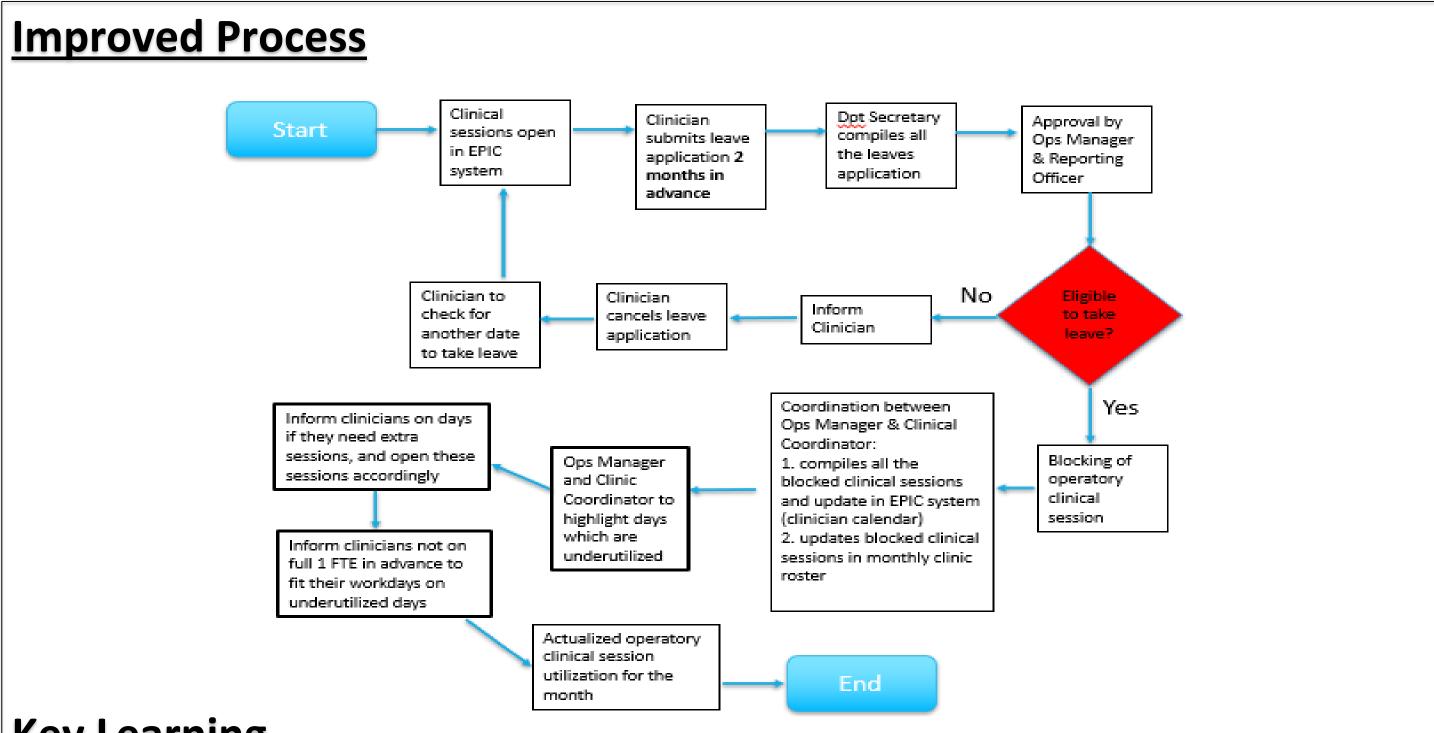


Test & Implement Changes





Spread Changes, Learning Points



Key Learning

Better coordination between the Ops Manager and Clinical Coordinator, clinician compliance to apply for leaves early and flexibility in workday arrangement have contributed to improved session utilization rate.



