

#### 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)

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# 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 1<sup>st</sup> 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 1<sup>st</sup> Aug 2019, all the clinicians would be consolidated at NTFGH, there would thus be a shortage of dental operatories available for all the clinicians.

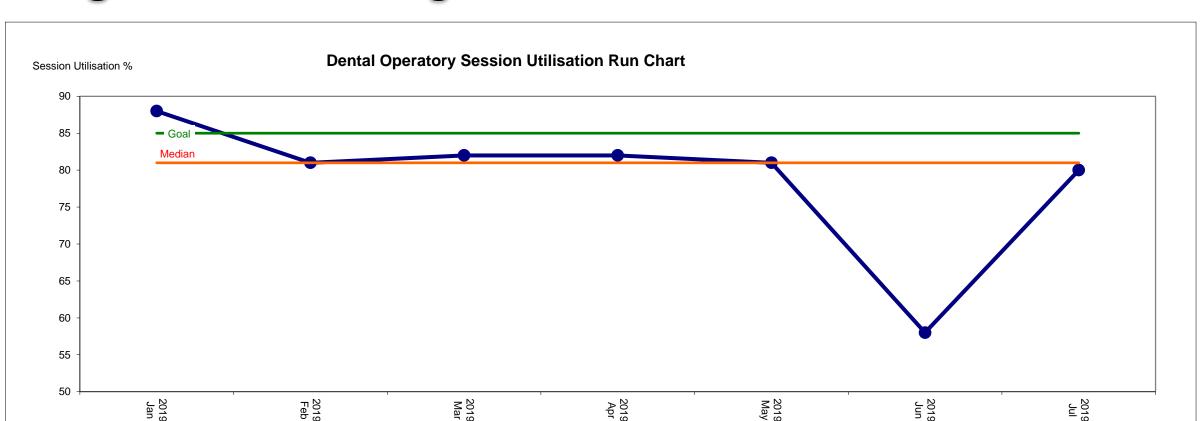
From Jan 2019 to July 2019, the monthly dental operatory session utilisation rate ranges from 58-88% (mean 78%), which can be more optimally utilised to accommodate all the clinicians.

#### Aim

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

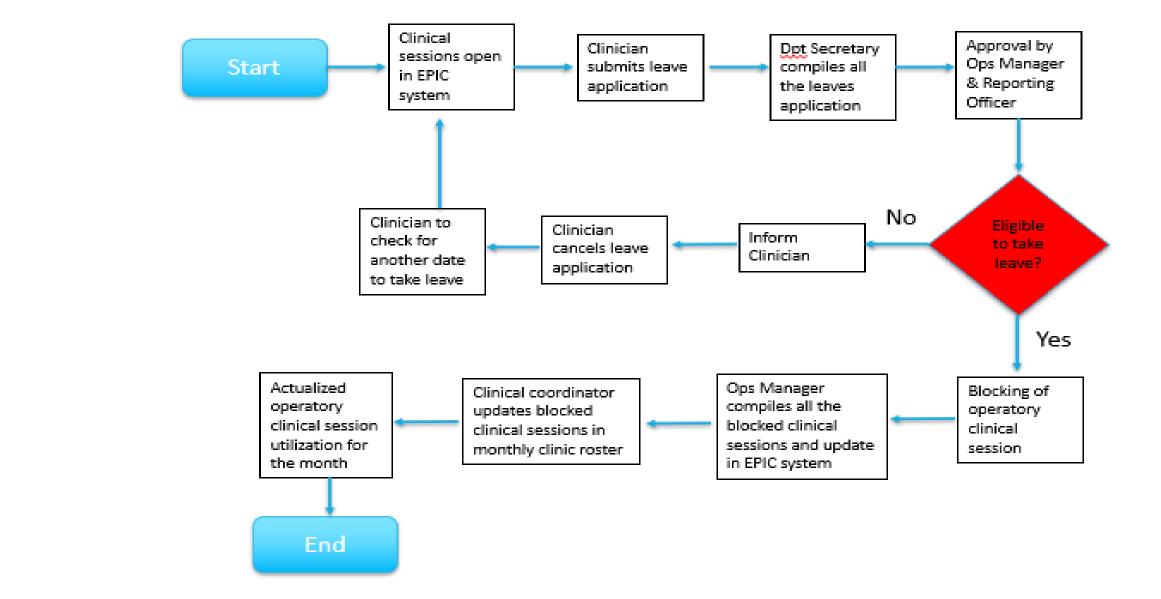
## **Establish Measures**

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

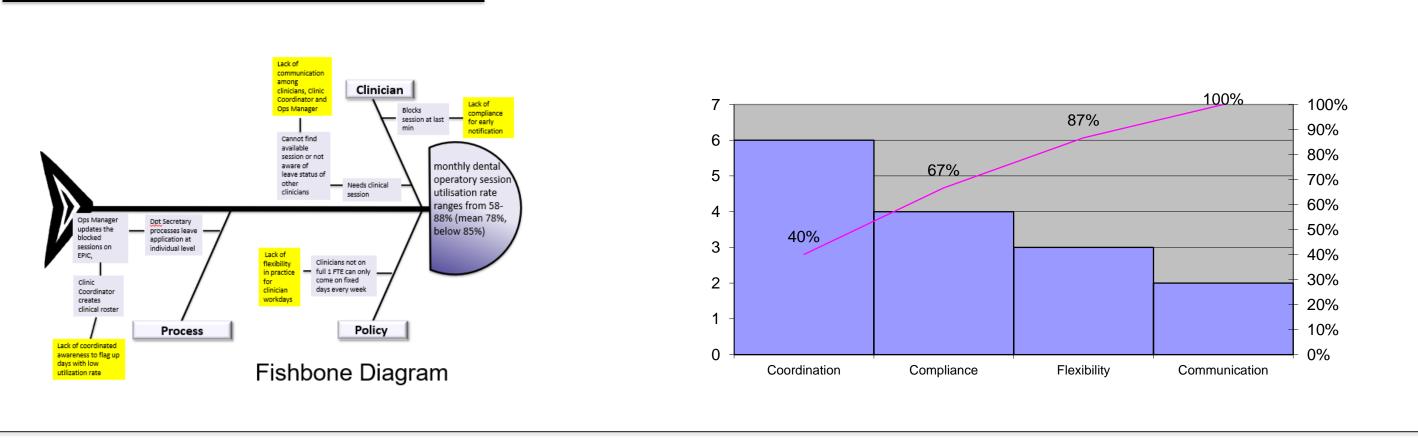


# Analyse Problem

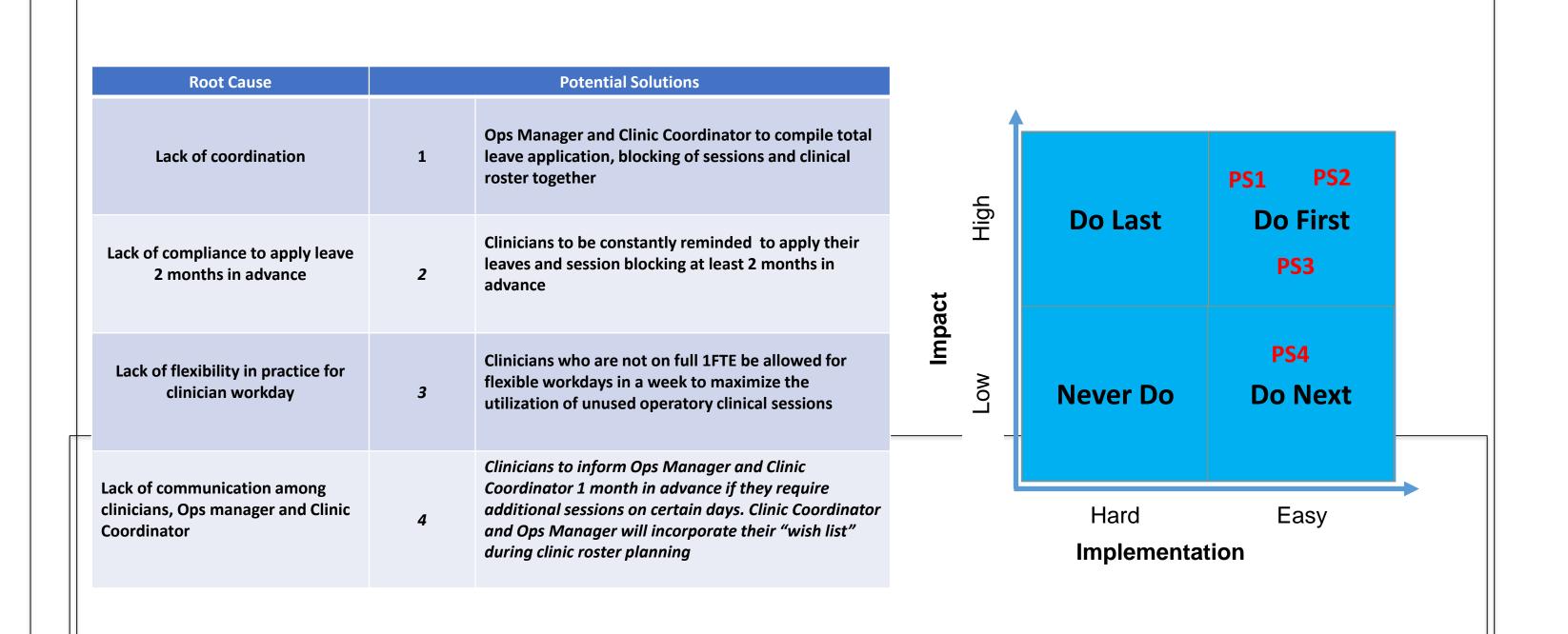
### **Current Process**



#### **Probable Root Causes**

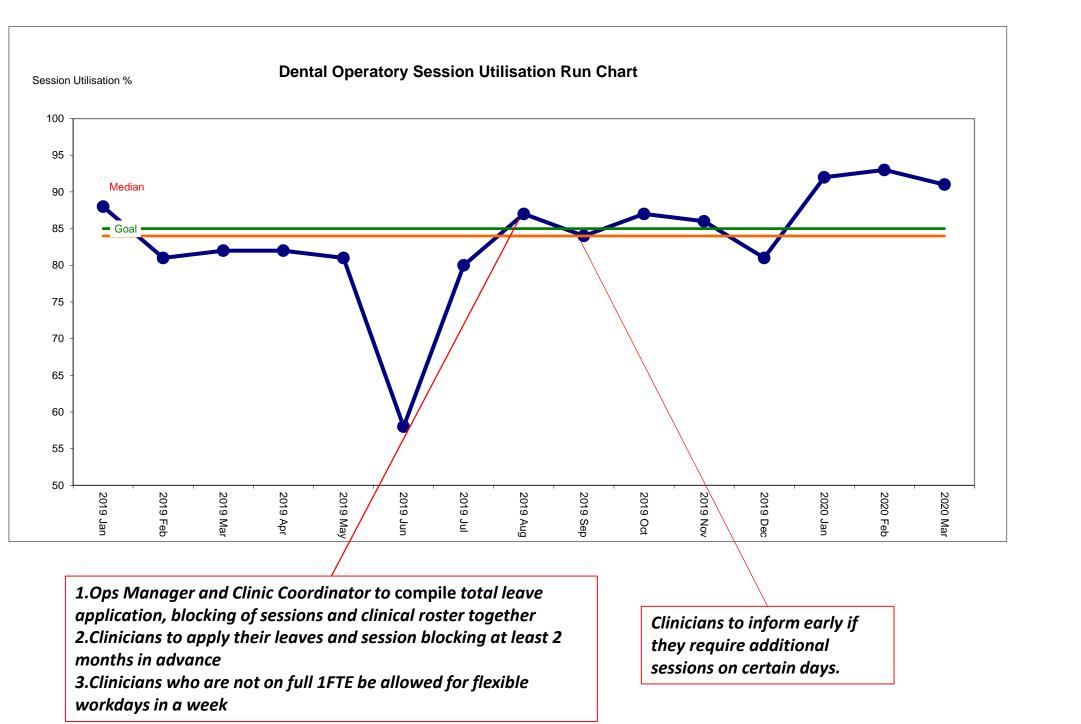


# Select Changes

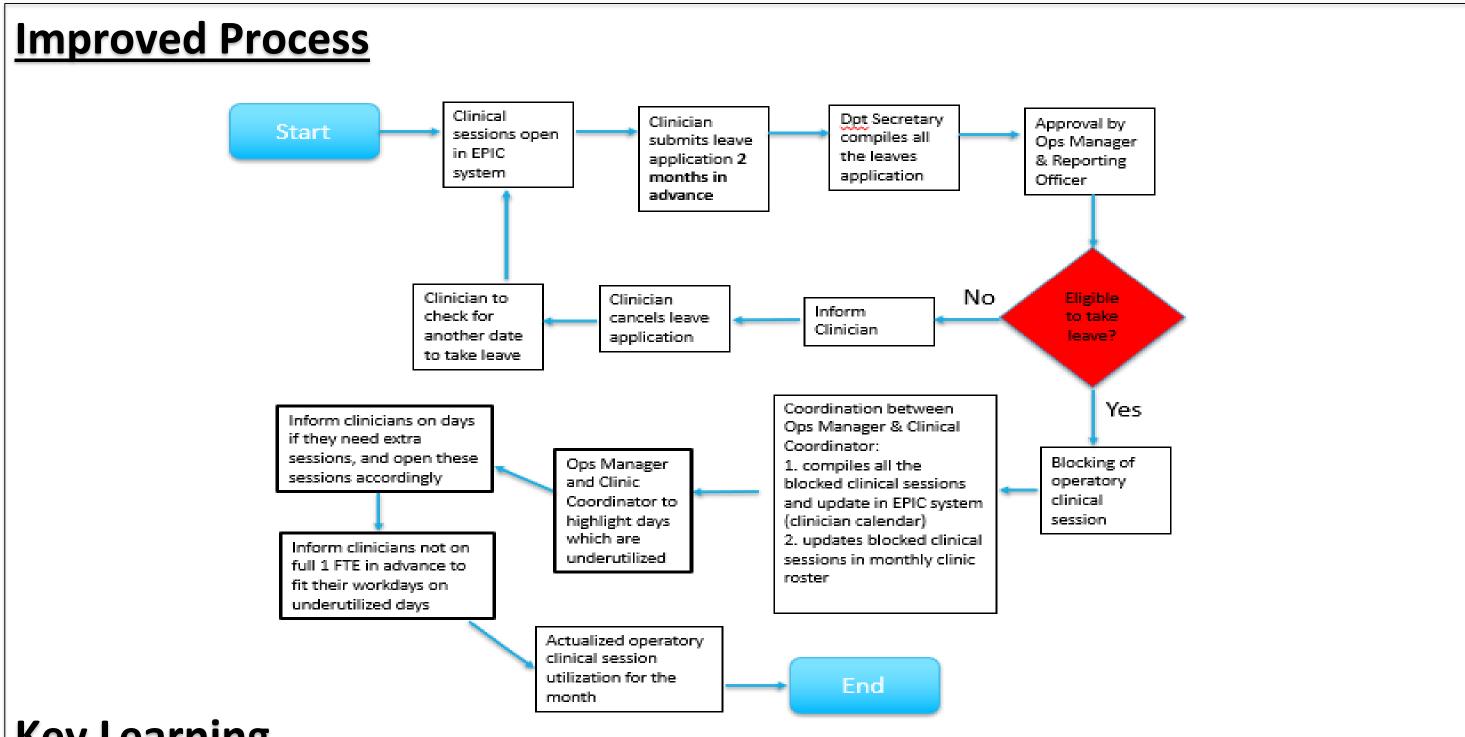


# Test & Implement Changes





# 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.



