#### CHI Learning & Development (CHILD) System



#### **Project Title**

Change of Outpatient Workflow in Endoscopy

#### **Project Lead and Members**

Project lead: Zhang Rong

Project members: Liu Guoai, Xing Lijia

#### **Organisation(s) Involved**

Ng Teng Fong General Hospital

#### **Healthcare Family Group Involved in this Project**

Nursing

#### **Applicable Specialty or Discipline**

Gastroenterology

#### **Aims**

The Endoscopy team intends to reduce average length of bed occupancy from 181 minutes to 130 minutes through reducing unnecessary pre-procedure bed occupying by January 2021 so as to optimize effective utilisation of bed and streamline work process.

#### **Background**

See poster appended/below

#### Methods

See poster appended/ below

#### Results

See poster appended/below



#### CHI Learning & Development (CHILD) System

#### **Lessons Learnt**

Effective communication, team collaboration and adapting proper model for improvement is paramount to achieve sustainable change.

#### Conclusion

See poster appended/below

#### **Project Category**

Care & Process Redesign

Quality Improvement, Workflow Redesign

#### **Keywords**

Outpatient Endoscopy, Workflow redesign, Length of bed occupancy

#### Name and Email of Project Contact Person(s)

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# CHANGE OF OUTPATIENT WORKFLOW IN ENDOSCOPY

SAFETY		PRODUCTIVITY
QUALITY	<b>Y</b>	COST
PATIENT EX	<b>XPERIENCE</b>	

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# Define Problem, Set Aim

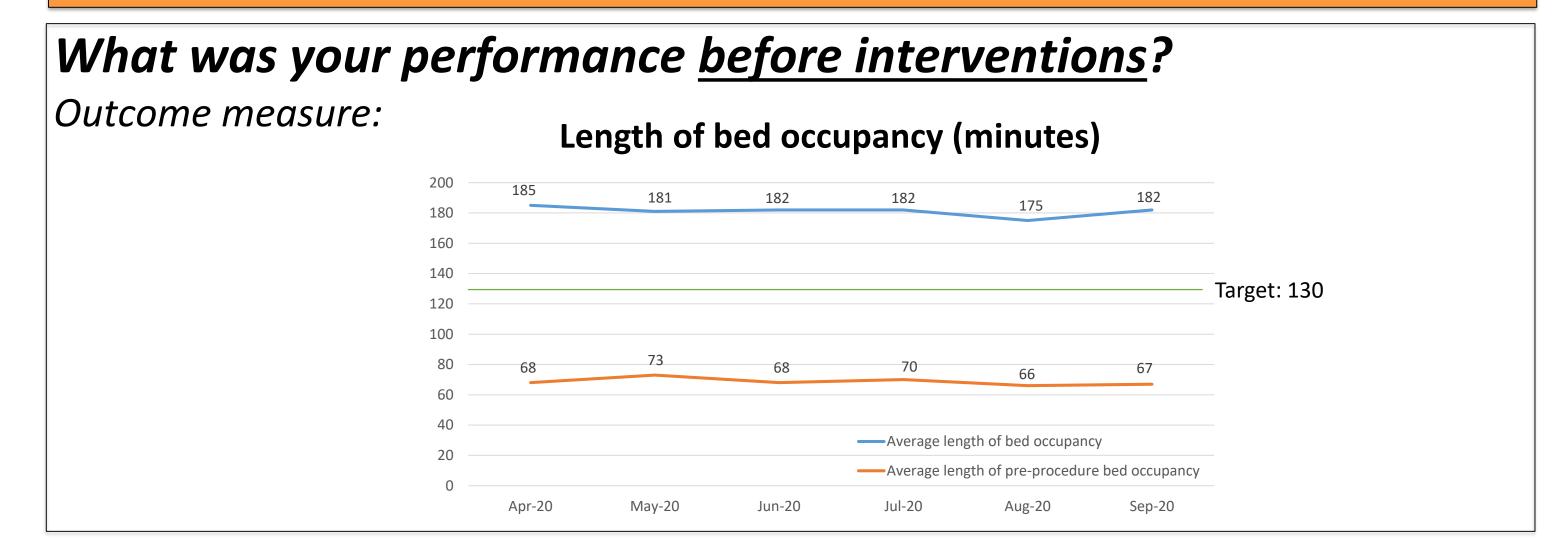
### **Problem/Opportunity for Improvement**

From April to August 2020, the average length of bed occupancy was 181 minutes per patient with 68 minutes pre-procedure bed occupancy. This led to insufficient beds to turnaround, decreased productivity and operational efficiency.

### Aim

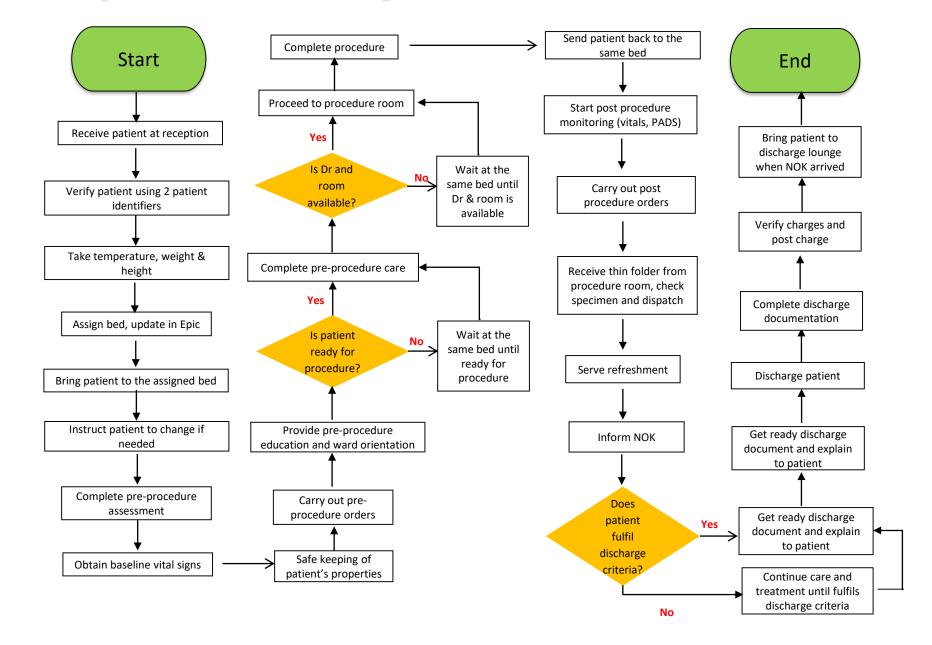
The Endoscopy team intends to reduce average length of bed occupancy from 181 minutes to 130 minutes through reducing unnecessary preprocedure bed occupying by January 2021 so as to optimize effective utilisation of bed and streamline work process.

### Establish Measures

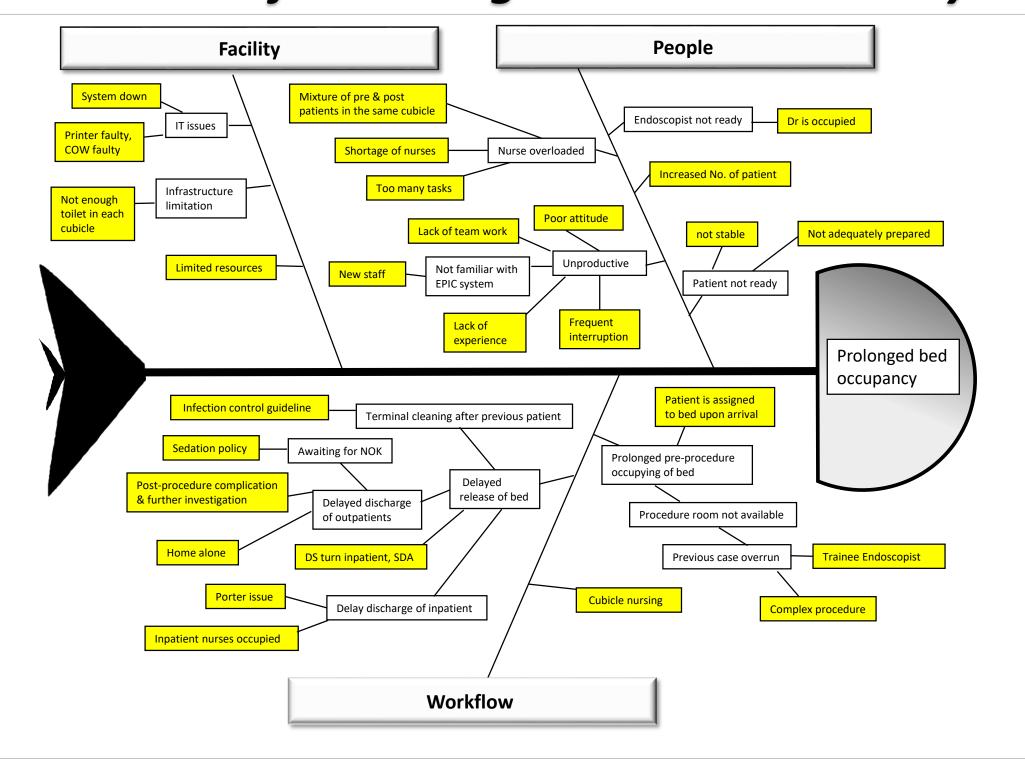


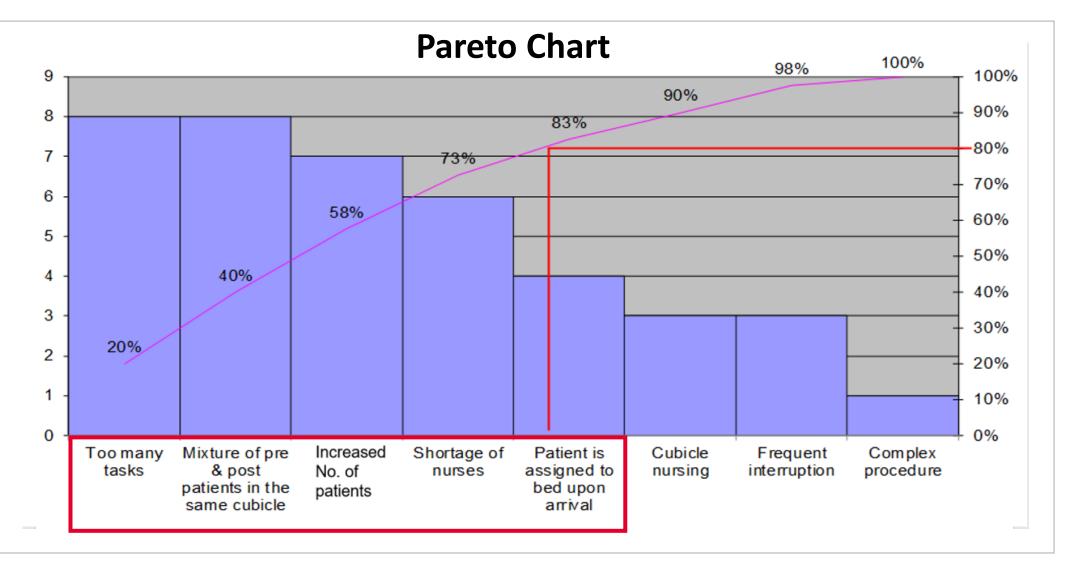
## **Analyze Problem**

### Endoscopy outpatient workflow:



### 26 root causes identified through Route Cause Analysis:

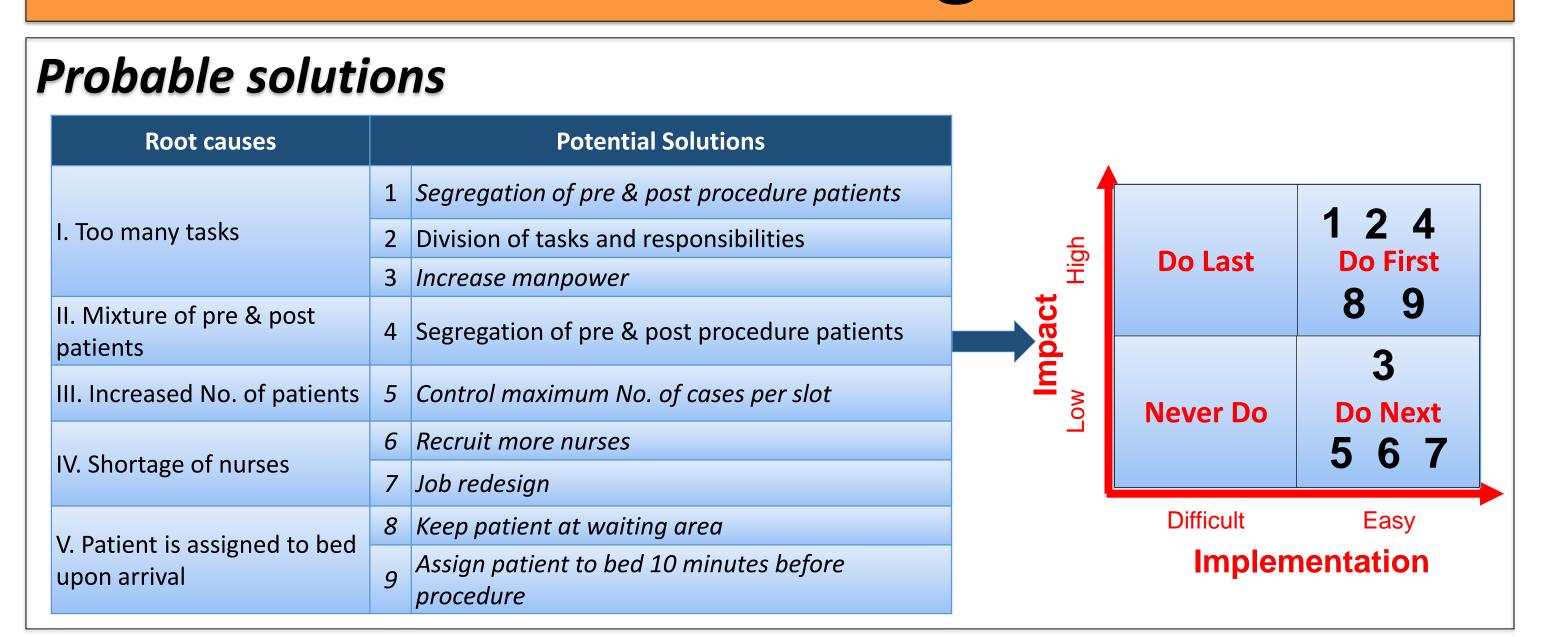




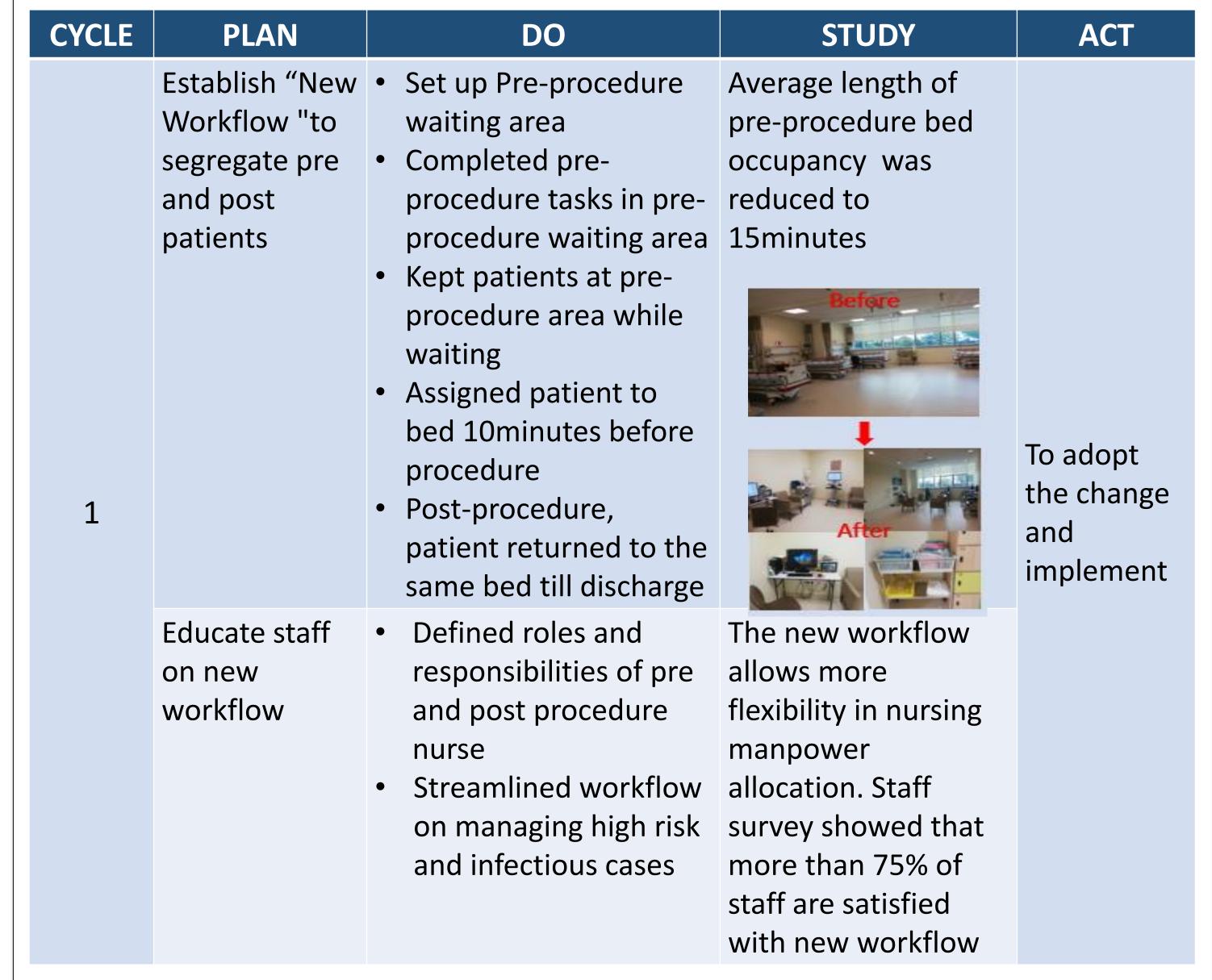
# Ng Teng Fong General Hospital

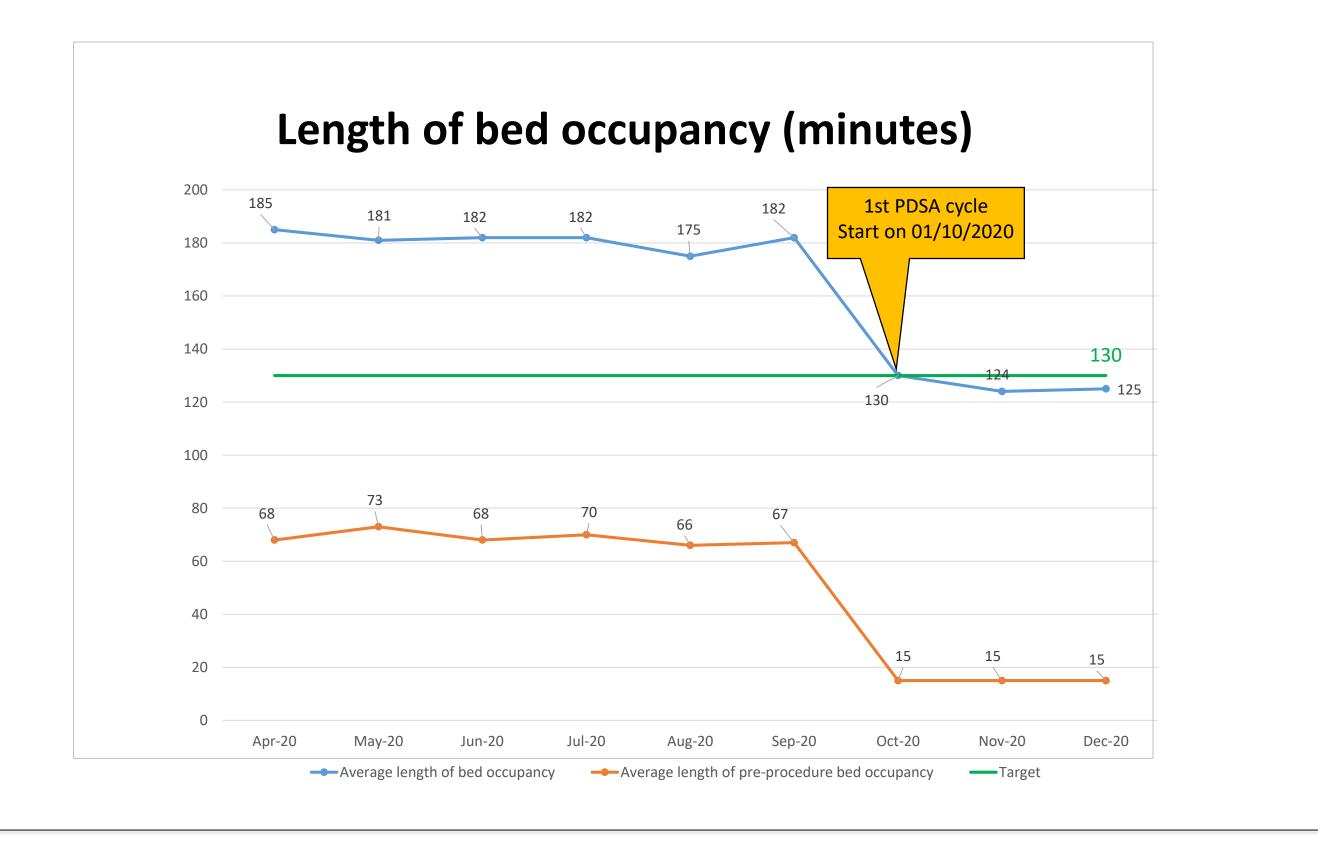


# **Select Changes**



# Test & Implement Changes





# Spread Changes, Learning Points

Recognizing the weak point in workflow is crucial in developing smoothest possible process for patients as well as staff. The new workflow facilitates fast turnover, optimizes utilization of resources and promotes operational efficiency especially when census are high. Staff satisfaction also improved through clear division of tasks and responsibilities.

Effective communication, team collaboration and adapting proper model for improvement is paramount to achieve sustainable change.