### HEALTHCARE INNOVATION.

### CHI Learning & Development (CHILD) System

### **Project Title**

Reduced Endoscopy On-Call Staff Burnout

### **Project Lead and Members**

Project lead: Zhang Rong

Project members: Wang Caihong, Fan Ruhui, Low Jie Wen, Xing Lijia, Ma Xueyun

### **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 achieve reduce avoidable call back hours from 131 hours to 104 hours and frequency of prolonged call back hours from average 3 episodes to 0 episode per month by 31/7/2021.

#### **Background**

See poster appended/below

#### Methods

See poster appended/below

#### **Results**

See poster appended/ below

## CENTRE FOR HEALTHCARE INNOVATION

### CHI Learning & Development (CHILD) System

#### **Lessons Learnt**

Staff wellbeing is paramount to achieve safe and effective care for patients. Successful change requires effective communication and collaboration among departments.

#### **Conclusion**

See poster appended/below

### **Project Category**

Organisational Leadership, Human Resource, Staff Wellbeing

Care & Process Redesign, Quality Improvement, Workflow Redesign

### Keywords

Reduce call-back hours, Endoscopy

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

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# REDUCED ENDOSCOPY ON-CALL STAFF BURNOUT

### **MEMBERS:**

ZHANG RONG, WANG CAIHONG, FAN RUHUI, LOW JIE WEN, XING LIJIA, MA XUEYUN

# **EXPERIENCE**

SAFETY

QUALITY

**PATIENT** 

**PRODUCTIVITY** 

COST

**TEAMWORK** COMMUNICATION

# Define Problem, Set Aim

From April 2020 to August 2020, Endoscopy staff call back hours reached average 131 hours per month. There were 17 episodes of staff called back to work exceeded 12hrs during this period (Fig 1&2). This led to violate Ministry of Manpower regulation, staff burn out and decreased job satisfaction.

### Aim

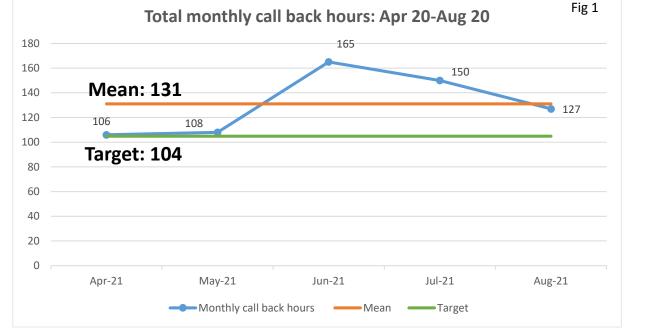
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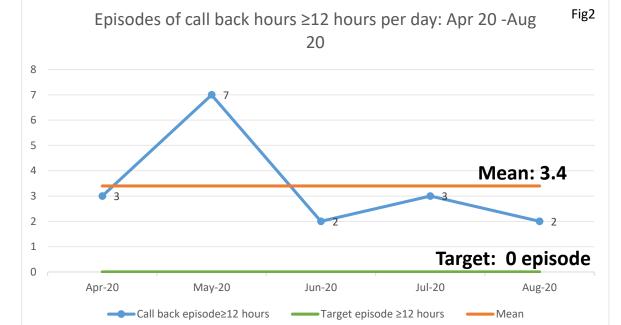
# Establish Measures

# What was your performance before interventions?

### Outcome measure:

Start





On call staff reach

Endo by Taxi and

Preparation of

accessories and

endoscope in Endo

# **Analyse Problem**

On call staff

confirm case and

timing with OT

OT NIC activate

Endoscope On call

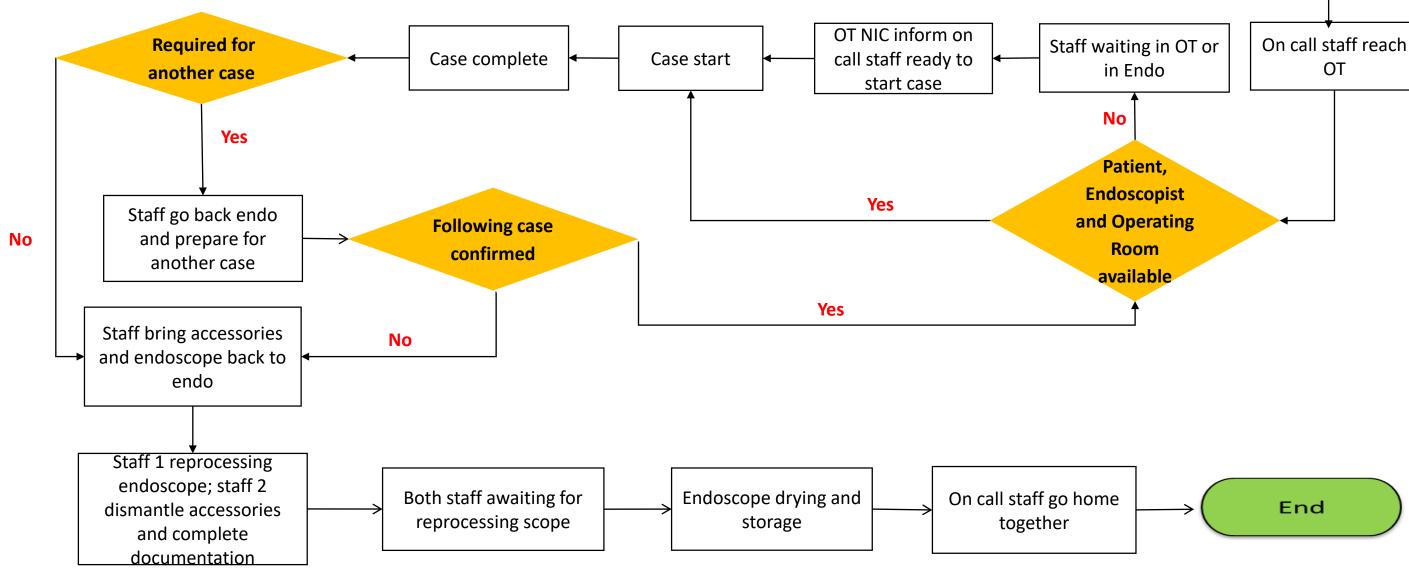
staff by phone call

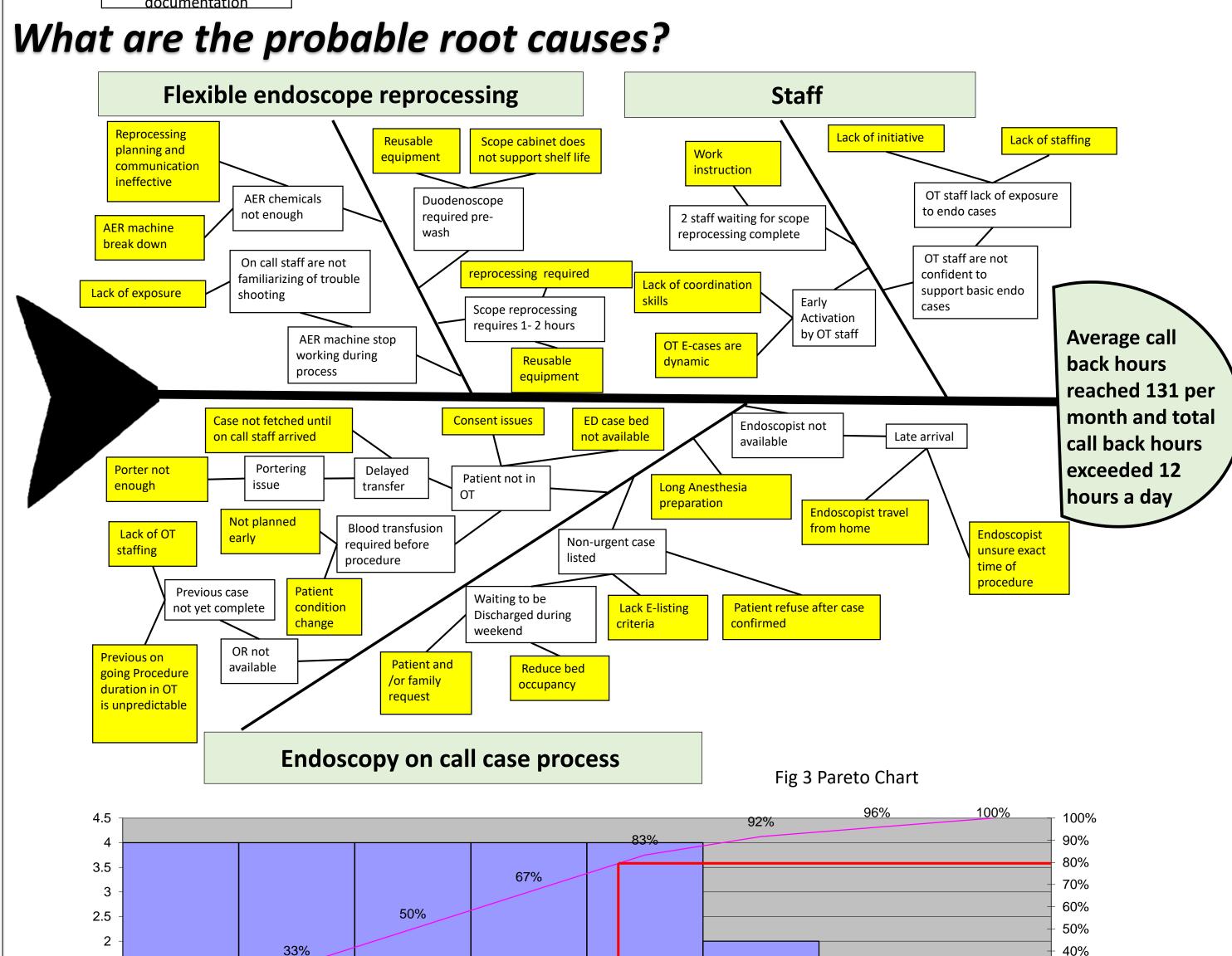
### Endoscopy on call duty work process:

P1 and/or P2 and/or

P3 endoscopy cases

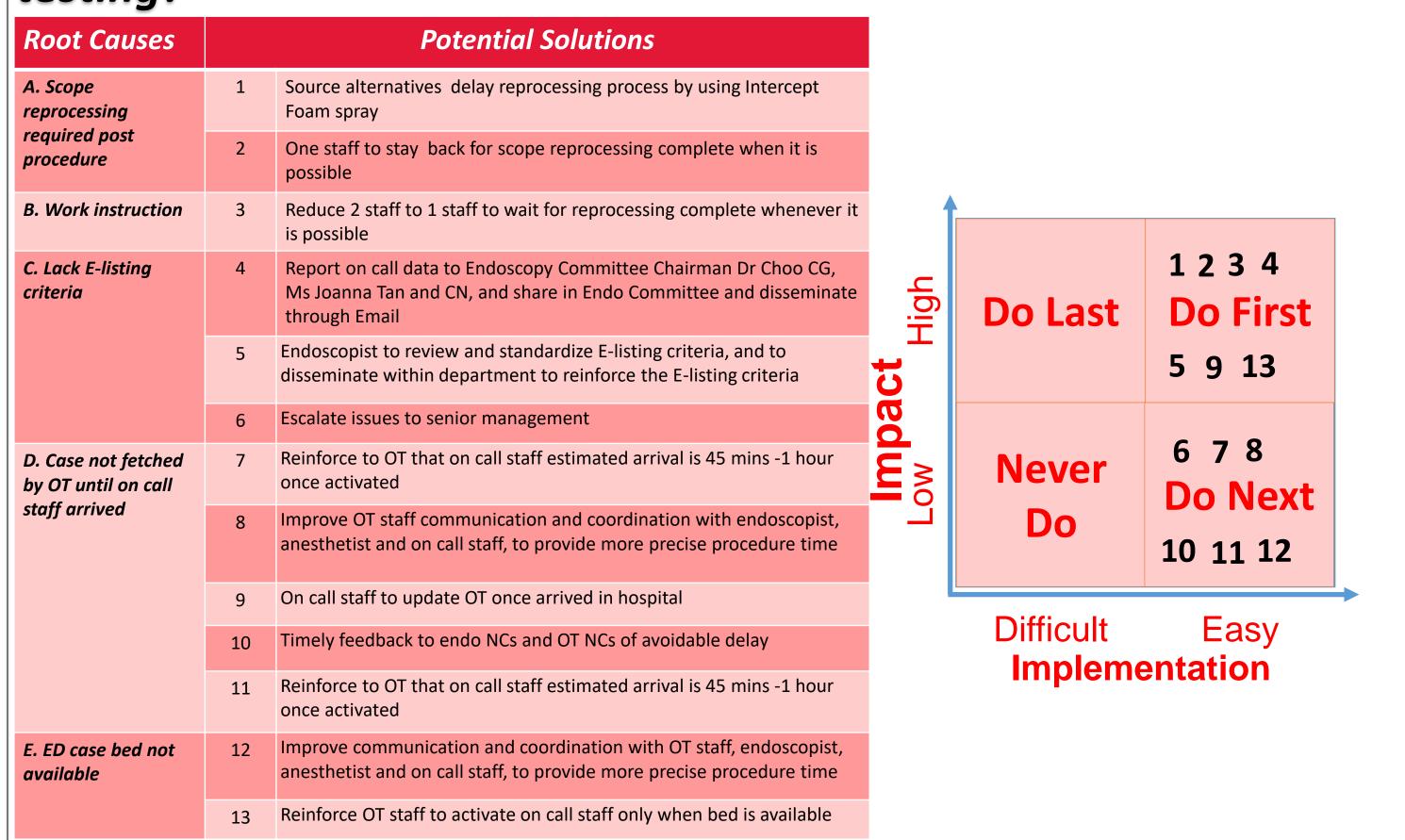
listed in OT





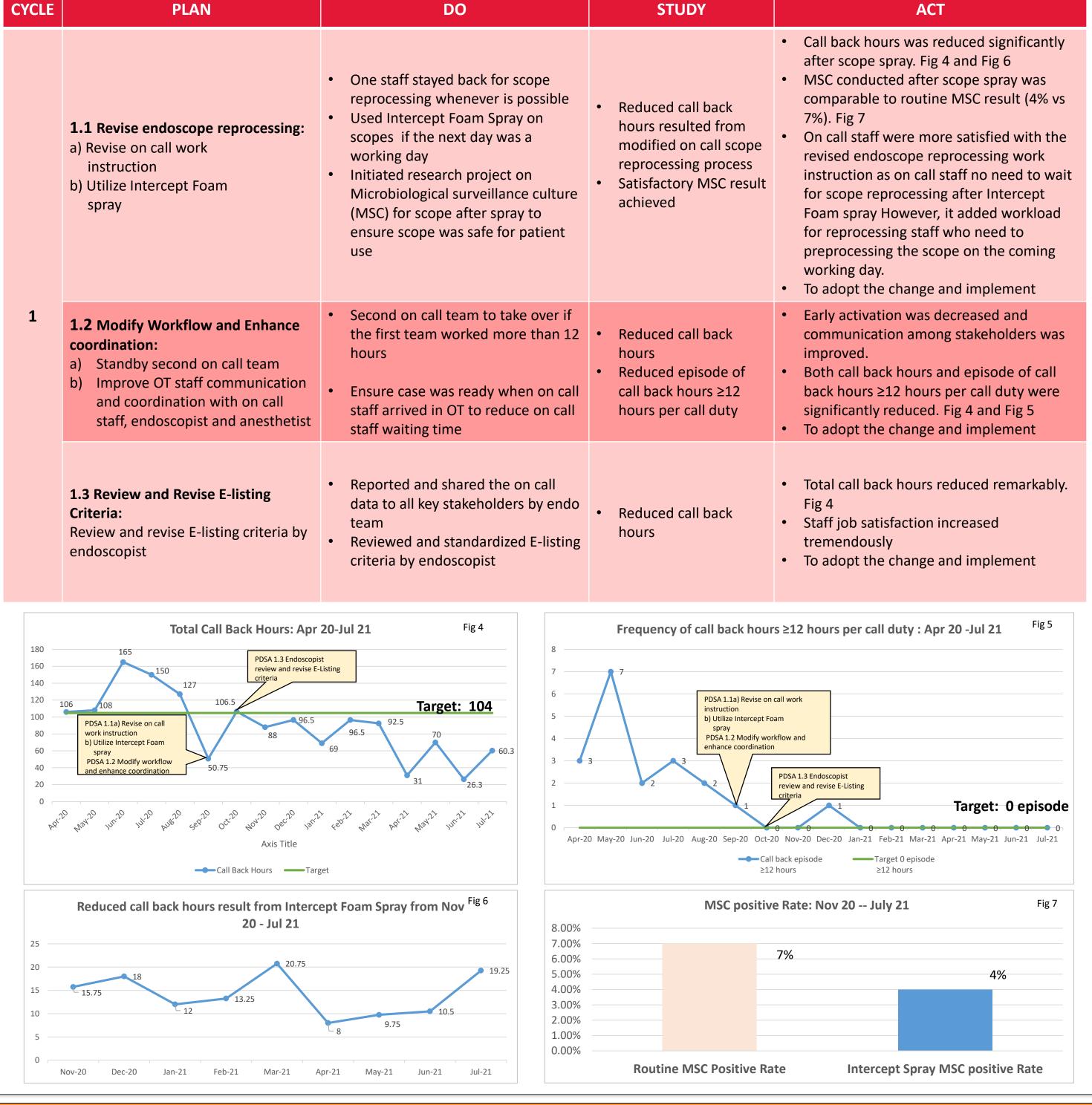
# Select Changes

What are all the probable solutions? Which ones are selected for testing?



# Test & Implement Changes

How do we pilot the changes? What are the initial results?



# Spread Changes, Learning Points

### What are/were the strategies to spread change after implementation?

Endoscopy on call process is complex and complicated. Reduce avoidable call back hours requires systematic approach and all key stakeholders' involvement. Staff work commitment, management support and collaborative effort will render sustainable change. Intercept Foam spray is useful however it demands clinical testing for its safe use. Research project of the impact of Intercept Foam on endoscope Microbiological test is ongoing and received good interim result. The final result is planned to publish next year.

### What are the key learnings from this project?

Staff wellbeing is paramount to achieve safe and effective care for patients. Successful change requires effective communication and collaboration among departments.



**Work instruction** 

Lack of E-listing

criteria

Case not fetched by

OT until on call staff

ED case bed not

Reprocessing

planning and

communication

Reduced bed

17%

Scope reprocessing required post

procedure

0.5



Scope cabinet does

not support shelf life

10%

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