

## **Project Title**

Using 6S Methodology to Improve Patient's Bedside Cabinet

## **Project Lead and Members**

Project Lead: Yee Sook Yan

Project Members: Hoh Wan Chin, Rosnah Binte S Roselee, Aina Syuhadah, May Thwe

Oo, Su Myat Mon, Lizette A Flores

## **Organisation(s) Involved**

Jurong Community Hospital

## **Healthcare Family Group(s) Involved in this Project**

Nursing

## **Applicable Specialty or Discipline**

Community Nursing

## **Project Period**

Start date: 20 Jul 2023

Completed date: 4 Aug 2023

## **Aims**

To reduce time spend for nurses to perform diaper change for patient to 5 minutes in rehabilitation ward by 31st August 2023.

## **Background**

See poster appended/ below

## **Methods**

See poster appended/ below

## **Results**

See poster appended/ below

## **Lessons Learnt**

(1) 6S concept can help to standardize and tidy up patient's cabinet effectively. (2) Ward staff need to be involve and reinforce to sustain the changes. (3) Time taken of diaper changing save and improve quality of patient care. (4) With the right process and placement of consumable items, nurses can save time in diaper changing.

## **Conclusion**

See poster appended/ below

## **Project Category**

Care & Process Redesign

Quality Improvement, LEAN Methodology, Workflow Redesign

Productivity, Time Saving

## **Keywords**

6S- Community Hospital

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

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# USING 6S METHODOLOGY TO IMPROVE PATIENT'S BEDSIDE CABINET

MEMBERS: YEE SOOK YAN(LEAD), HOH WAN CHIN, ROSNAH BINTE S ROSELEE, AINA SYUHADAH, MAY THWE OO, SU MYAT MON, LIZETTE A FLORES.

- SAFETY
- QUALITY
- PATIENT EXPERIENCE
- PRODUCTIVITY
- COST

## Define Problem, Set Aim

### Problem/Opportunity for Improvement

Nurses spent an average of 8 minutes to perform diaper change for patients at the bedside from the preparation of requisites to completion of diaper change.

### Aim

To reduce time spend for nurses to perform diaper change for patient to 5 minutes in rehabilitation ward by 31<sup>st</sup> August 2023.

## Establish Measures

Outcome Measure: Time taken for nurses to change diaper.

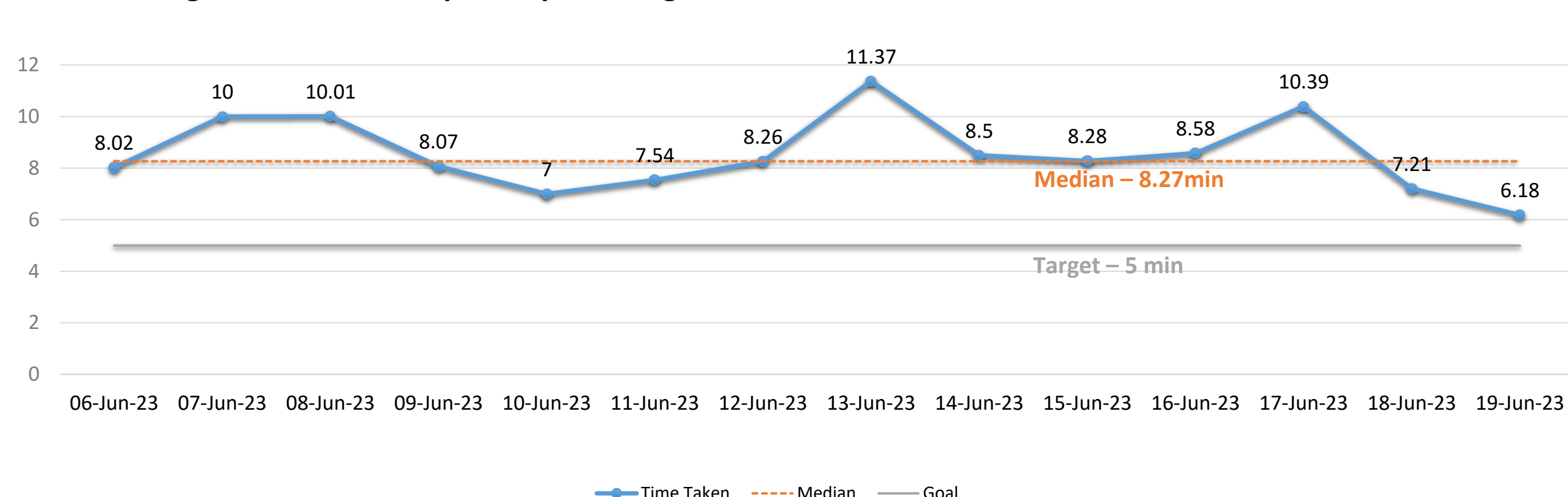
Process Measure: 1. Time taken to source for patient's consumable items.  
2. Time taken to retrieve patient's consumable items from Clean Utility or order from life hub.

Balancing Measure: Cost taken to prepare items for standardization of consumables.

## Analyse Problem

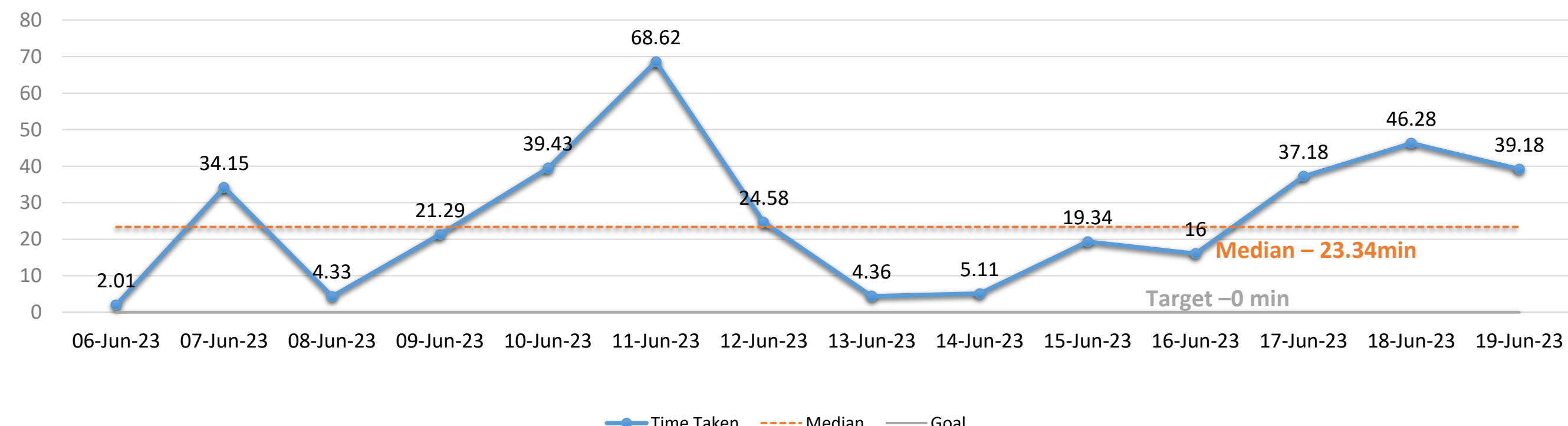
### Outcome measure

Average time in minute per diaper change at bedside in ward C4 & C10 from 6 Jun – 19 Jun 2023

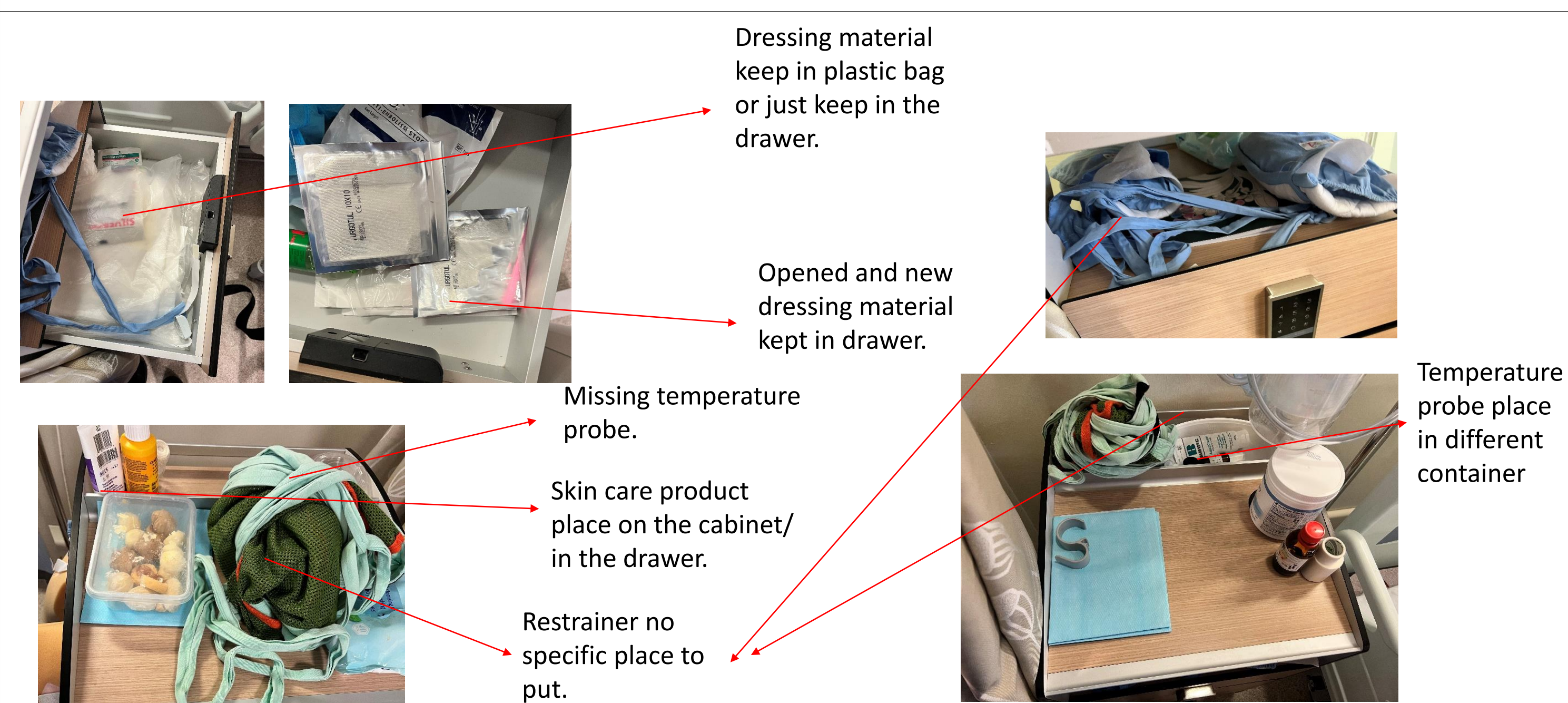
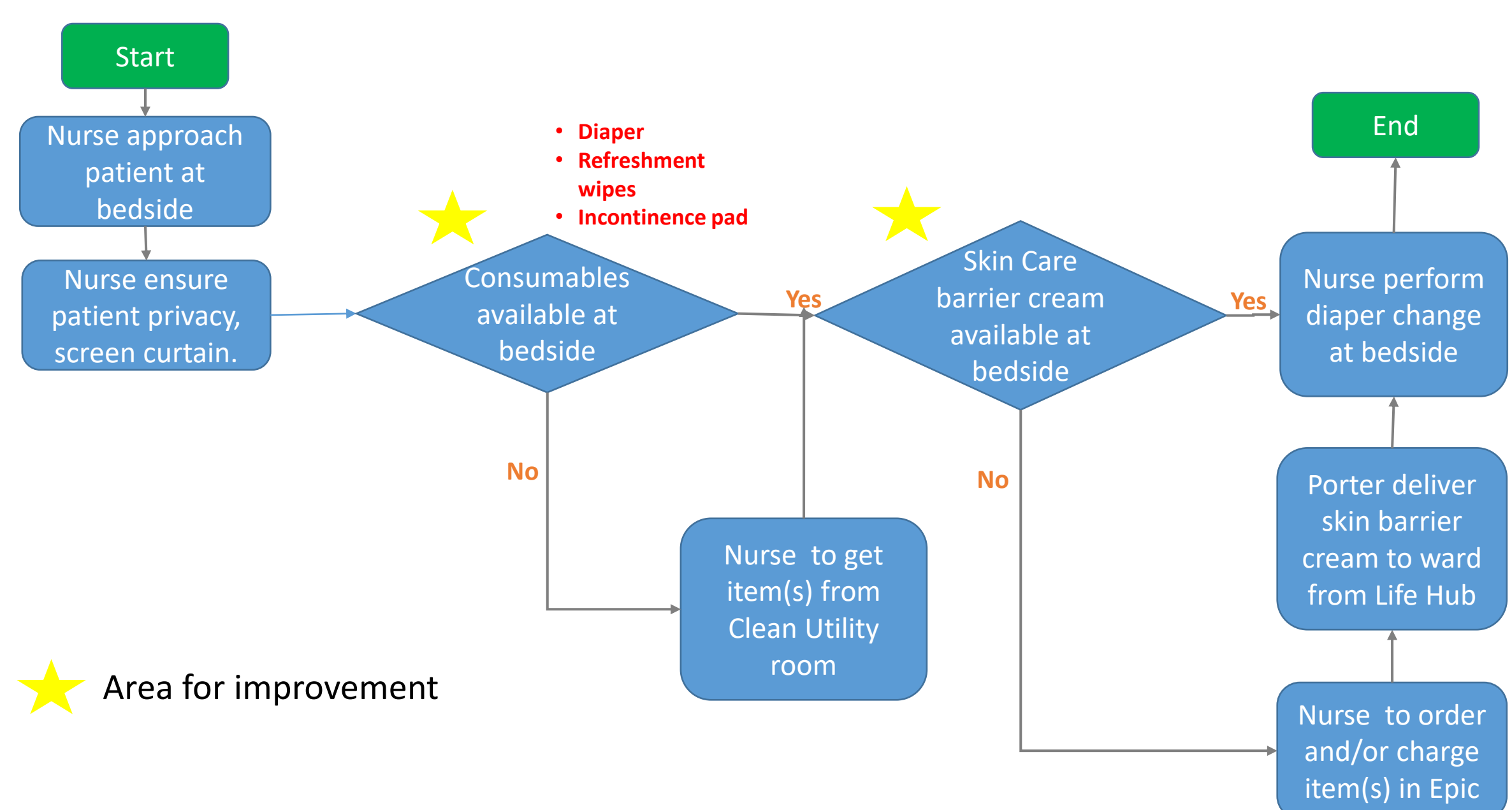


### Process measure

Average time in minute to source patient's consumable items from clean utility or life hub in ward C4 & C10 from 6 Jun – 19 Jun 2023

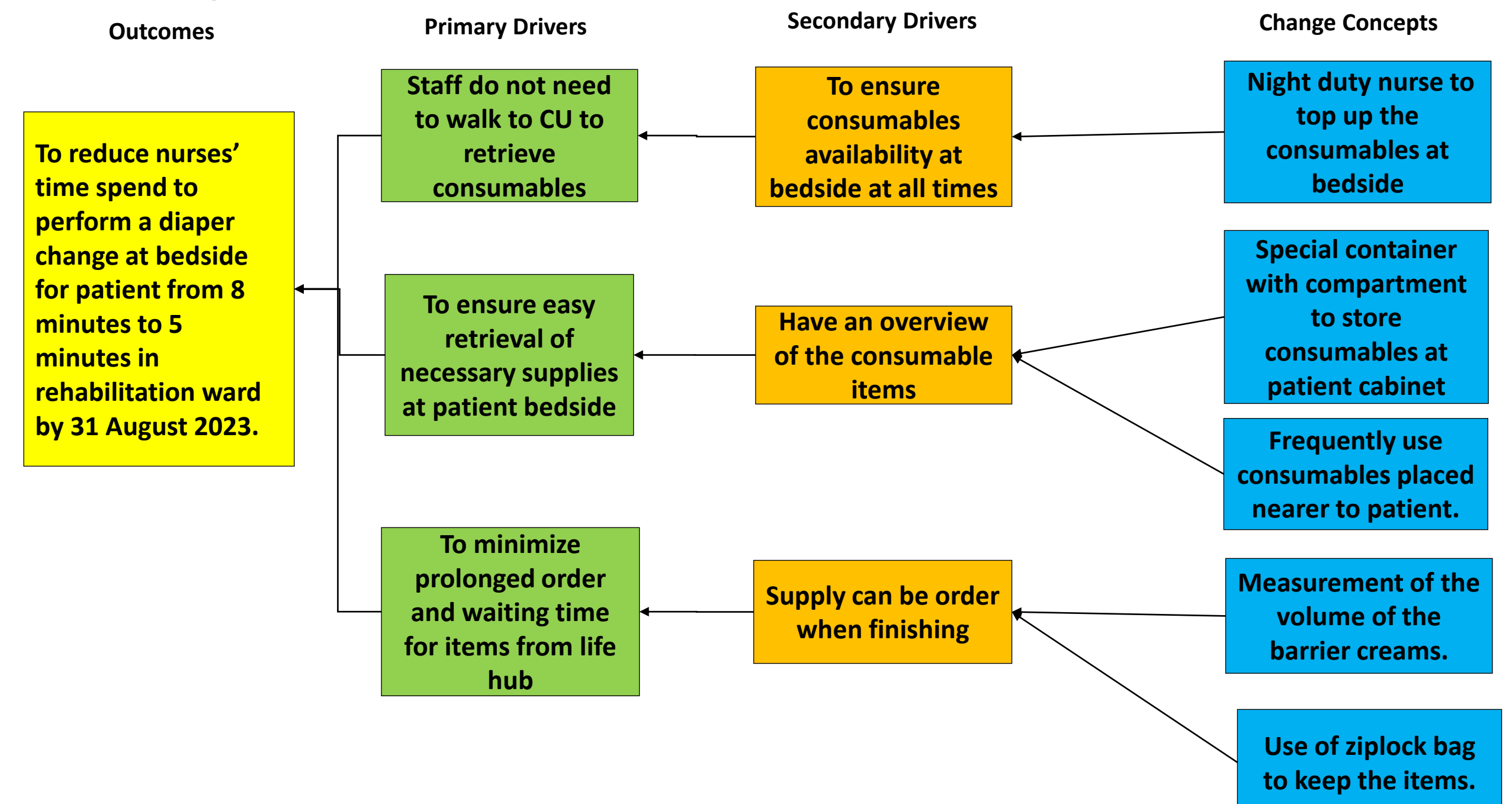


### Diaper Changing Process Chart

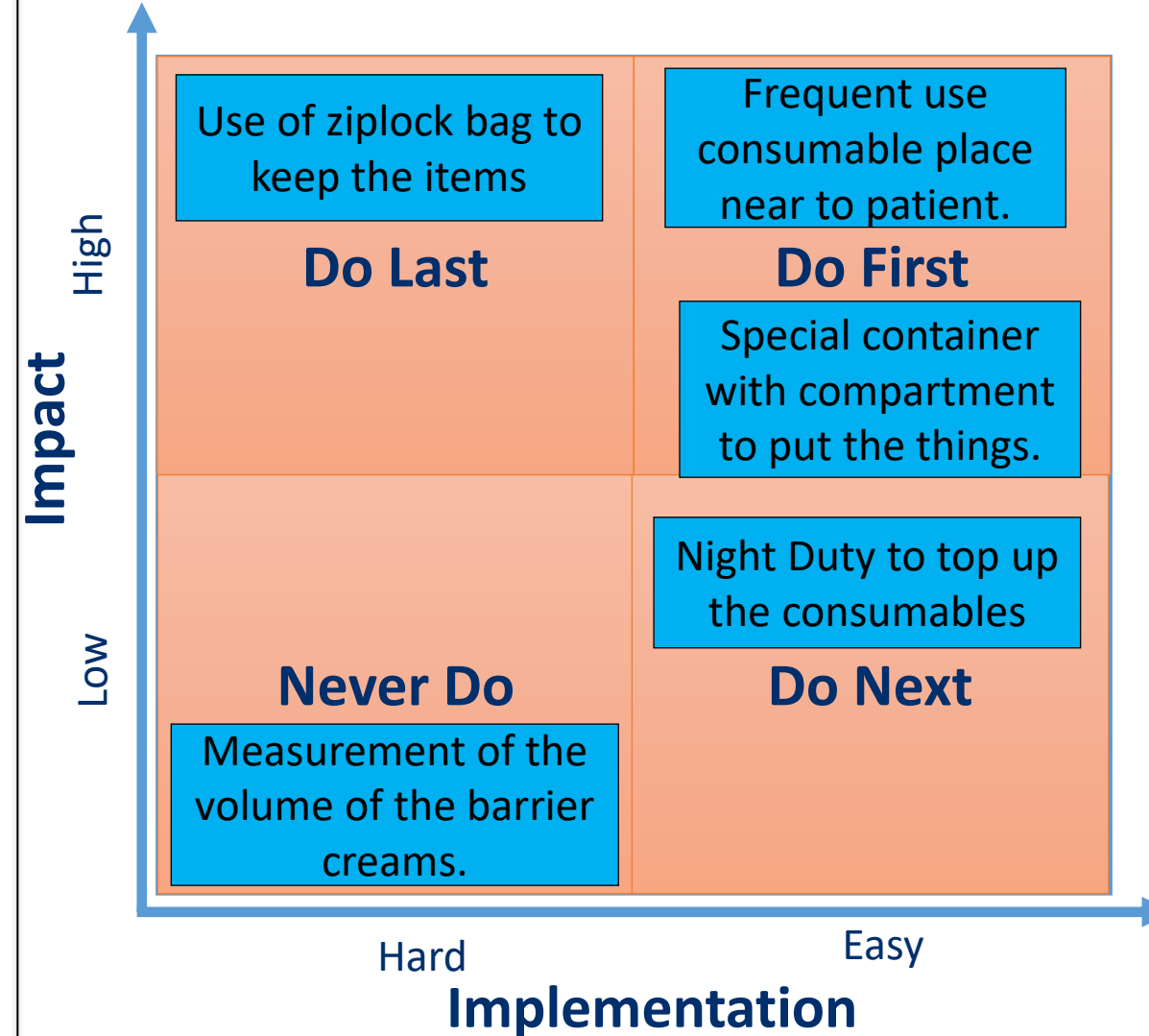


## Select Changes

### Driver Diagram



### Select Change Ideas



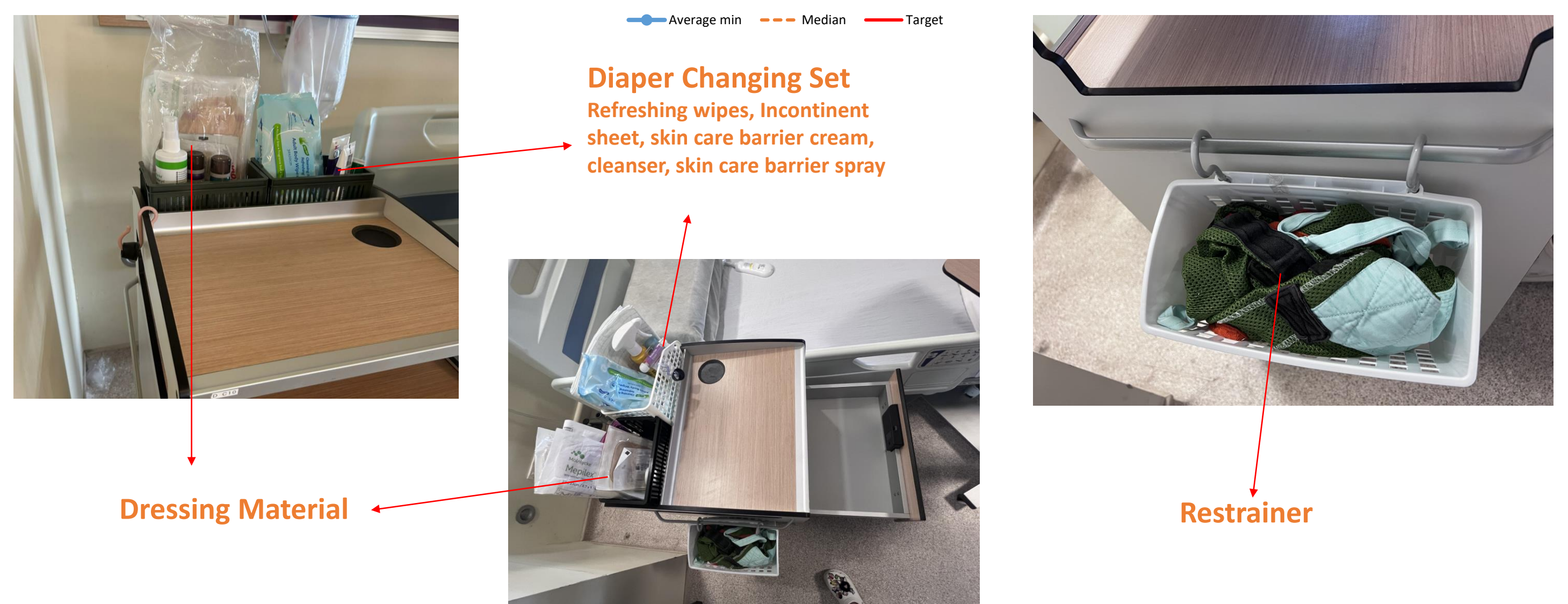
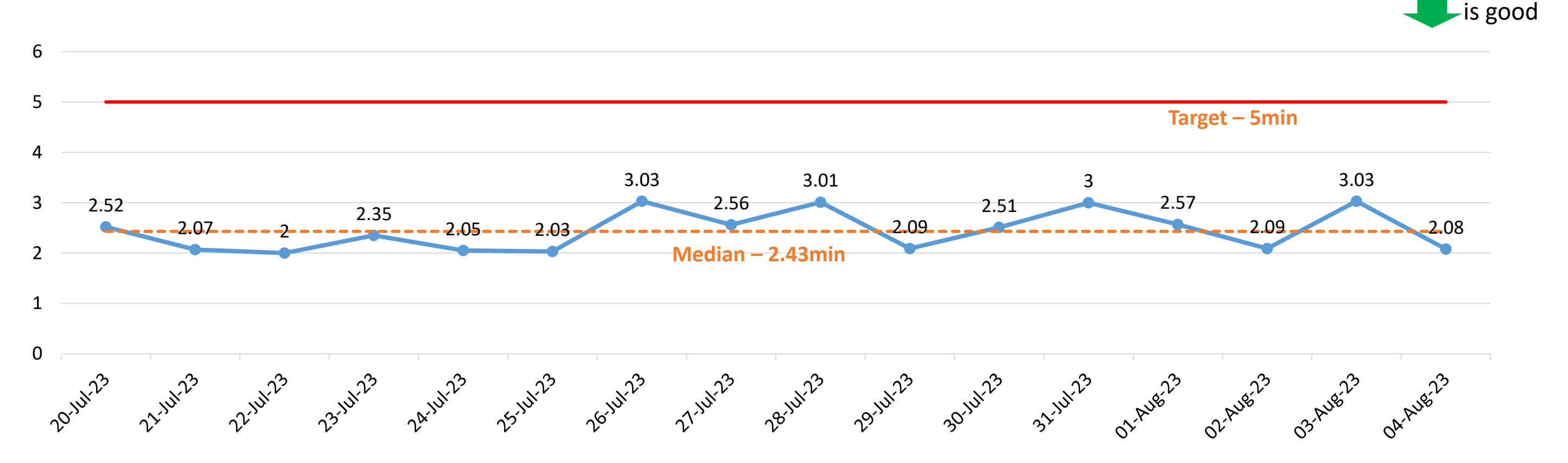
### 5S system in Patient's cabinet



## Test & Implement Changes

Cycle	Plan: "What will happen if we try something different?"	Do: "Let's try it."	Study: "What happened?"	Act: "What's next?"
1	Apply 6S system to organize patient's cabinet.	Pilot 6S system in 1 cubicle at ward C4 and C10. Data collected and recorded to find out efficiency.	Challenges on sustaining the change.	The changes is successful.
2	Time taken for diaper changing recorded.	Time recorded from locating the consumable items till finished changing diaper.	The changes successfully decrease the time taken in diaper changing.	To sustain the changes.
3	Use of tooth paste squeezer to measure the volume of barrier creams.	Bought tooth paste squeezer and apply on barrier creams to know the balance of barrier creams.	The cost of tooth paste squeezer is difficult to control and the toothpaste squeezer difficult to use.	The idea was abandon.

Average time in minute per diaper change at bedside in ward C4 & C10 from 20 Jul - 4 Aug 2023



## Spread Changes, Learning Points

### Spread Changes:

- Presented to nurse leaders and ground staff to get buying in on the implementation across JCH Wards.
- Plan and change the set up of patient's cabinet in the remaining JCH wards.
- Ensure sustainability by project's team members.

### Learning Points:

- 6S concept can help to standardize and tidy up patient's cabinet effectively.
- Ward staff need to be involve and reinforce to sustain the changes.
- Time taken of diaper changing save and improve quality of patient care.
- With the right process and placement of consumable items, nurses can save time in diaper changing.