

CHI Learning & Development (CHILD) System

Project Title

Create Awareness & Cost Saving On AAMI Level II Gown Usage in Ward B13

Project Lead and Members

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Organisation(s) Involved

Ng Teng Fong General Hospital

Healthcare Family Group Involved in this Project

Healthcare Administration, Nursing

Applicable Specialty or Discipline

Infection Control

Aims

To decrease the usage of AAMI Level IV yellow gowns in ward B13s and to reduce the cost with an alternative type of gowns by 50% within a year.

Background

See poster appended/below

Methods

See poster appended/below

Results

See poster appended/ below



CHI Learning & Development (CHILD) System

Lessons Learnt

To constantly source for alternatives that can aid in the reduction of cost for supplies.

Ring fence the supply AAMI level IV gowns for pandemic situations, airborne and highly infectious cases.

Conclusion

See poster appended/ below

Project Category

Training & Education, Team Based Learning

Keywords

Awareness, Reduce Cost, Barrier Gown Usage, Appropriate PPE use

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CREATE AWARENESS & COST SAVING ON AAMI LEVEL II GOWN USAGE IN WARD B13

NC SARATHAMANI R, NC ZAITON AB, SSN YVONNE S, SSN GEETA R AND SSN MA ROTHESSA

QUALITY PATIENT EXPERIENCE

SAFETY

- **✓ PRODUCTIVITY**
- √ COST

Define Problem, Set Aim

Opportunity for Improvement

Ward B13s (MRSA Ward) had the highest usage of the AAMI level IV yellow gowns. From April 2019 to March 2020, the total cost for the yellow gowns in Ward 13s was SGD 2940. In order to decrease the usage of AAMI level IV gown, AAMI level II gowns can be used an alternative. The AAMI level II gown, which has a lower cost, can be used by healthcare staffs when performing care for MDRO patients and for housekeeping duties.

Define the scope

MMD statistics showed that Ward B13s (MRSA Ward) had the highest usage of the AAMI level IV yellow gowns. Thus, we embarked on a journey to look for alternative gowns with good productivity and low costs. **Aim**

To decrease the usage of AAMI Level IV yellow gowns in ward B13s and to reduce the cost with an alternative type of gowns by 50% within a year.

<u>Abbreviations:</u> MRSA-methicillin-resistant staphylococcus aureus

AAMI-Association of the advancement of Medical Instrumentation

Establish Measures

Outcome Measures

The cost of yellow and blue gown usage in ward B13

Process Measures

Number of blue gown (Total number of blue gown usage per month)
Number of yellow gown (Total number of yellow gown usage per month)

Balancing Measures

Monitor the pre and post yellow gown usage

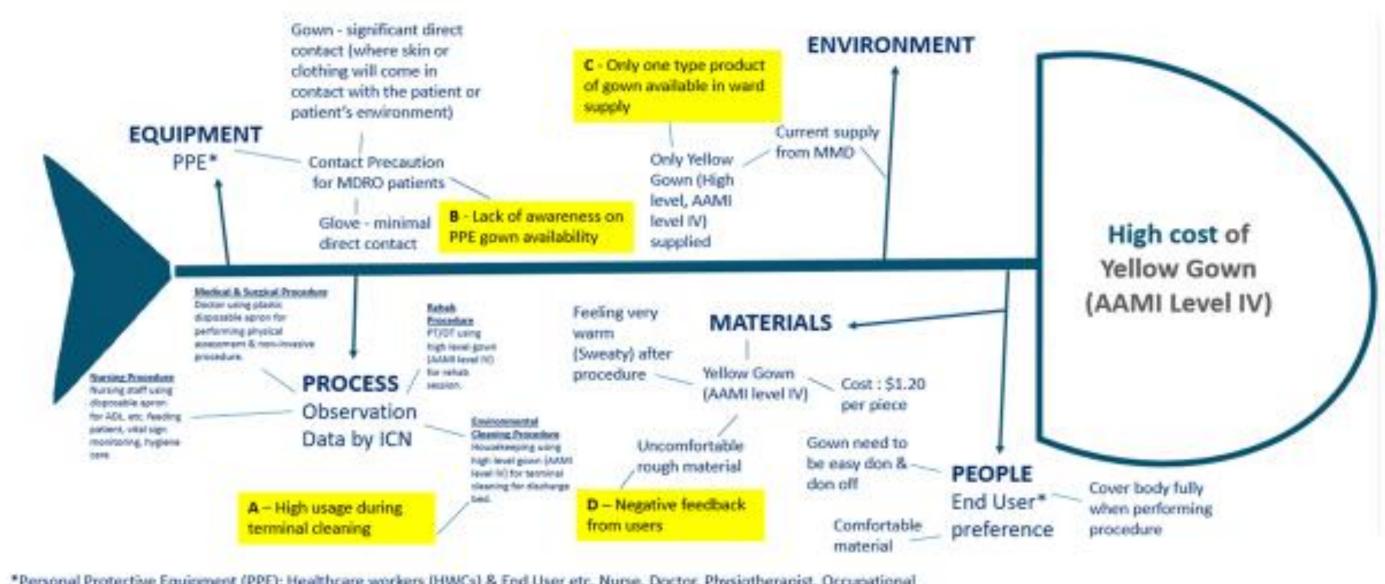


Cost of Yellow gown usage in MRSA Ward B13 April 2019 – March 2020



Analyse Problem

Problem Analysis (root cause)



*Personal Protective Equipment (PPE); Healthcare workers (HWCs) & End User etc. Nurse, Doctor, Physiotherapist, Occupational Therapist, Housekeeper; Infection Control Nurse (ICN)

Problem Analysis (Potential solution)

ROOT CAUSE	POTENTIAL SOLUTION		
Root Cause A High usage of level IV gowns during terminal cleaning.	1	Alternative gowns for cleaning procedures	
Root Cause B Lack of awareness on PPE gown availability	2	Provide education on appropriate use for different gowns	
	3	Review the PPE selection workflow for improvement	
Root Cause C Only one type of gown is available.	4	Source for alternative gowns	
	5	Provide more types of gown	
Root Cause D Negative feedback from users	6	Gather feedback from users	
	7	Provide continuous education on proper gown usage in infection control practices	

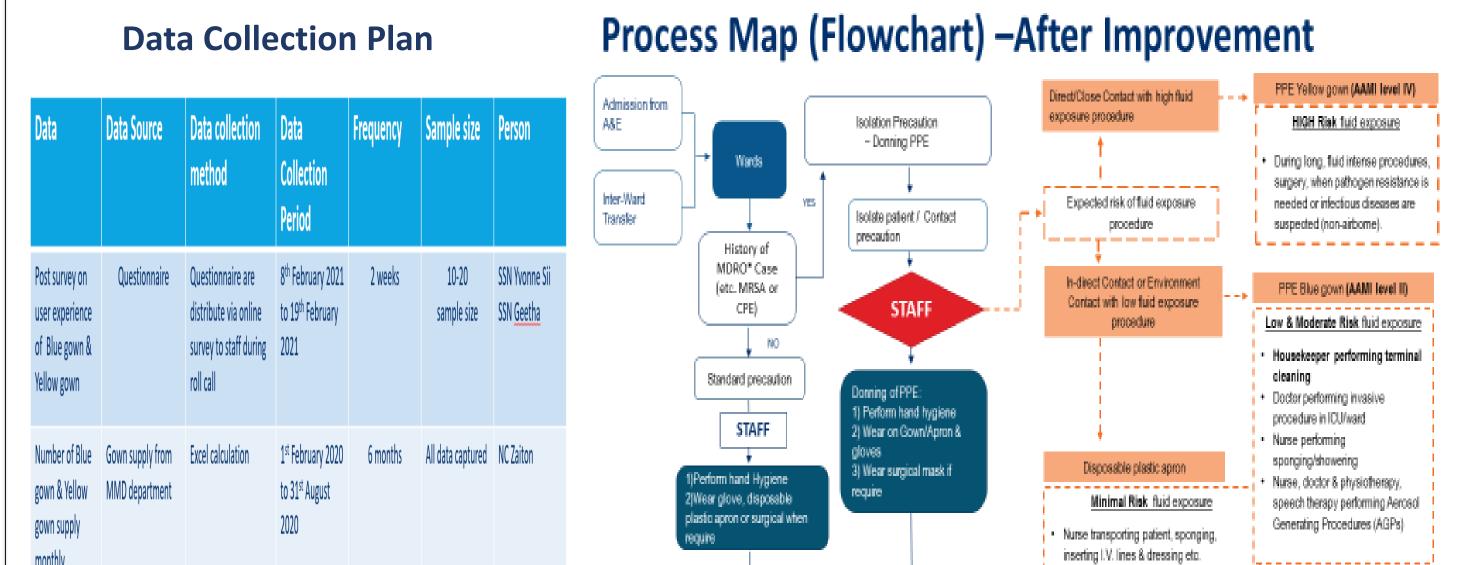
Pareto chart

Select Changes

Review current PPE selection workflow for improvement and conduct user feedback session. Identify alternative gowns with lower cost for cost saving. Provide group teaching for staffs in ward B13s on the PPE selection workflow.

Potential solution	Interventions	Measurement				
 Review the PPE selection workflow for improvement Provide feedback session from user experiences 	 Introduce a revised workflow & print out a poster to paste on the nursing counter for reference 	 Document feedback session – roll call 				
 Availability of alternative gowns for cleaning procedures Source out and review for alternative gowns with lower cost Provide availability of different gown supplies 	Introduce the PPE blue gown (lower cost & AAMI level II)	 Monitor monthly numbers of the PPE gown (Blue gown & Yellow gown) top-up by MMD 				
 Provide continues education on proper gown usage in infection control practice 	 Small group teaching during roll calls Sustaining behaviour change in ward B13 – audit & roll call 	 Number of staff attendance during teaching session –roll call 				

Test & Implement Changes



Patient Contact

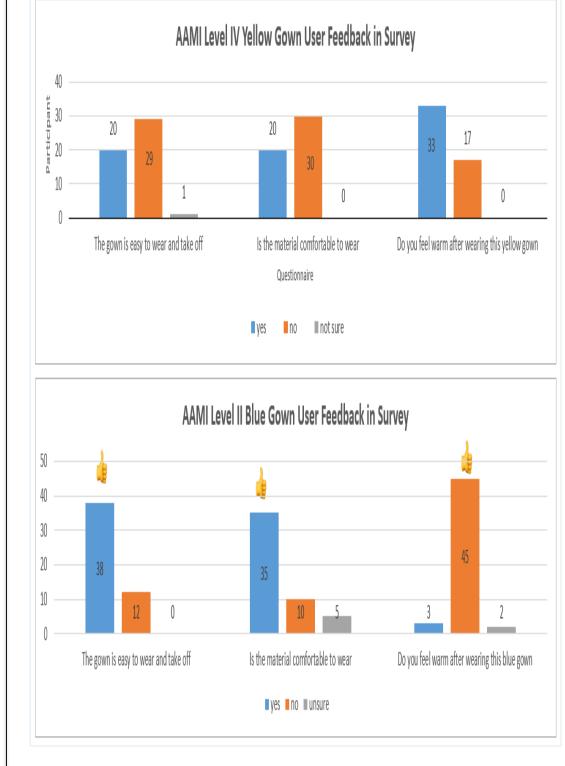
/Environment

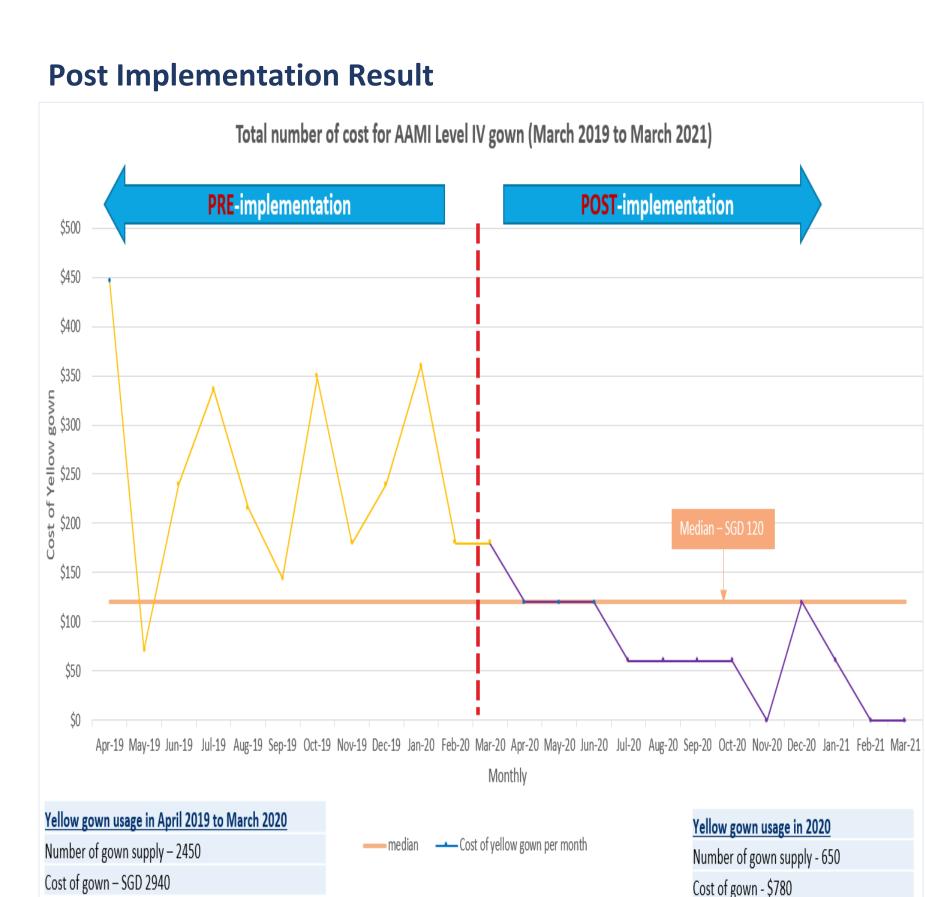
Multiple Drug Resistance (MDRO); Personal Protective Equipment (PPE)

Patient Contact

/Environment

Post Implementation Result- Survey





Doctor performing blood draw, Insening L1

Spread Changes, Learning Points

What are the strategies to spread change after implementation?

- MMD to increase the supply for AAMI level II gowns.
- Introduce / email to nursing team regarding the availability of AAMI level II gowns for order.
- ICNs can conduct sessions to all health care staffs regarding the use and availability of AAMI level II gowns.

What are the key learnings?

- To constantly source for alternatives that can aid in the reduction of cost for supplies.
- Ring fence the supply AAMI level IV gowns for pandemic situations, airborne and highly infectious cases.



