

Malaysia Antimicrobial Resistance (MyAMR) Conference 2024

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Unite Against Antimicrobial Resistance (AMR): Fight Resistance with Evidence



QUALITY ASSURANCE PROJECT : IMPROVING ENVIRONMENTAL CLEANING QUALITY OF PATIENT ZONE AT WARD 1 HOSPITAL KAJANG

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1.SELECTION OF OPPORTUNITIES FOR IMPROVEMENT

1.1 INTRODUCTION

Environmental cleaning is a key component of standard precautions, in the healthcare environment. The role of environmental cleaning is to reduce the number of infectious agents that may be present on surfaces and minimize the risk of transfer of microorganisms from one person or object to another, thereby helps reducing healthcare associated infection in healthcare settings.

1.2 SMART CRITERIA

3. ANALYSIS AND INTERPRETATION

Verification study done in year 2023 among 156 discharge beds in general ward Hospital Kajang, found out that only 41% of discharged bed cleaned appropriately (n=64). Shortfall includes incorrect dilution of disinfectant, not following standard of manual cleaning method and lack of supervision and feedbacks.

No.	Process	Criteria	Standard	Pre remedial
1.	Dilute Detergent & Disinfectant Solution	1. Correct use of detergent	100%	100%
		2. Correct		

5. EFFECT OF CHANGES

Post interventions, identified patient zone area was assessed using fluorescent gel to ensure that all areas being cleaned using a modified healthcare environment cleaning audit checklist. found out that 92% of the samples had good environmenta cleaning quality.

No -	Process	Criteria	Standa rd	Pre remedi al	Post remedi al (cycle 1)	Post remedial (cycle 2)
1.	Dilute Detergent &	1. Correct use of	100%	100%	100%	100%

100%

100%

100%

100%

100%

53%

62.5%

69%

70%

0%

80%

73%

80%

73%

60%

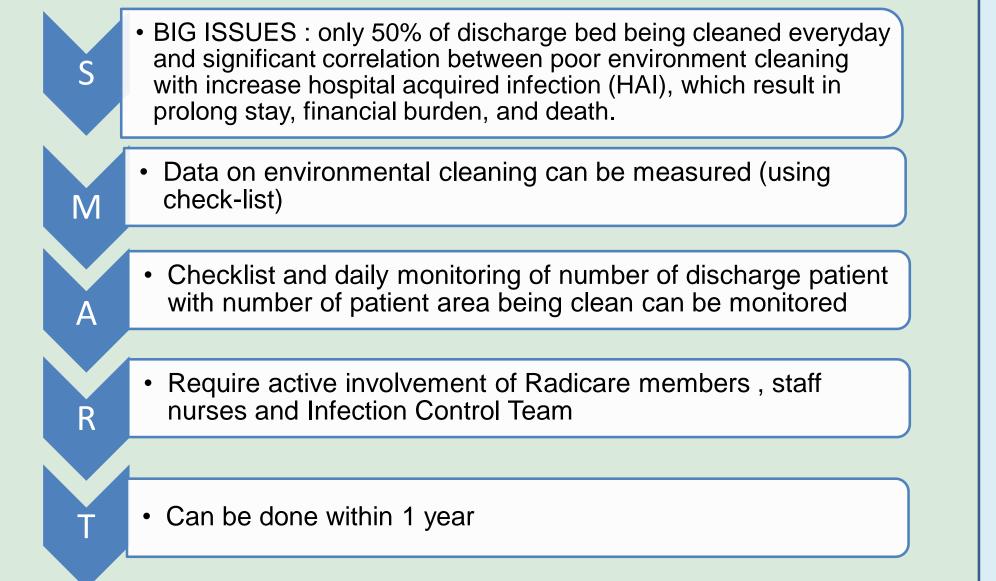
100%

92%

98%

92%

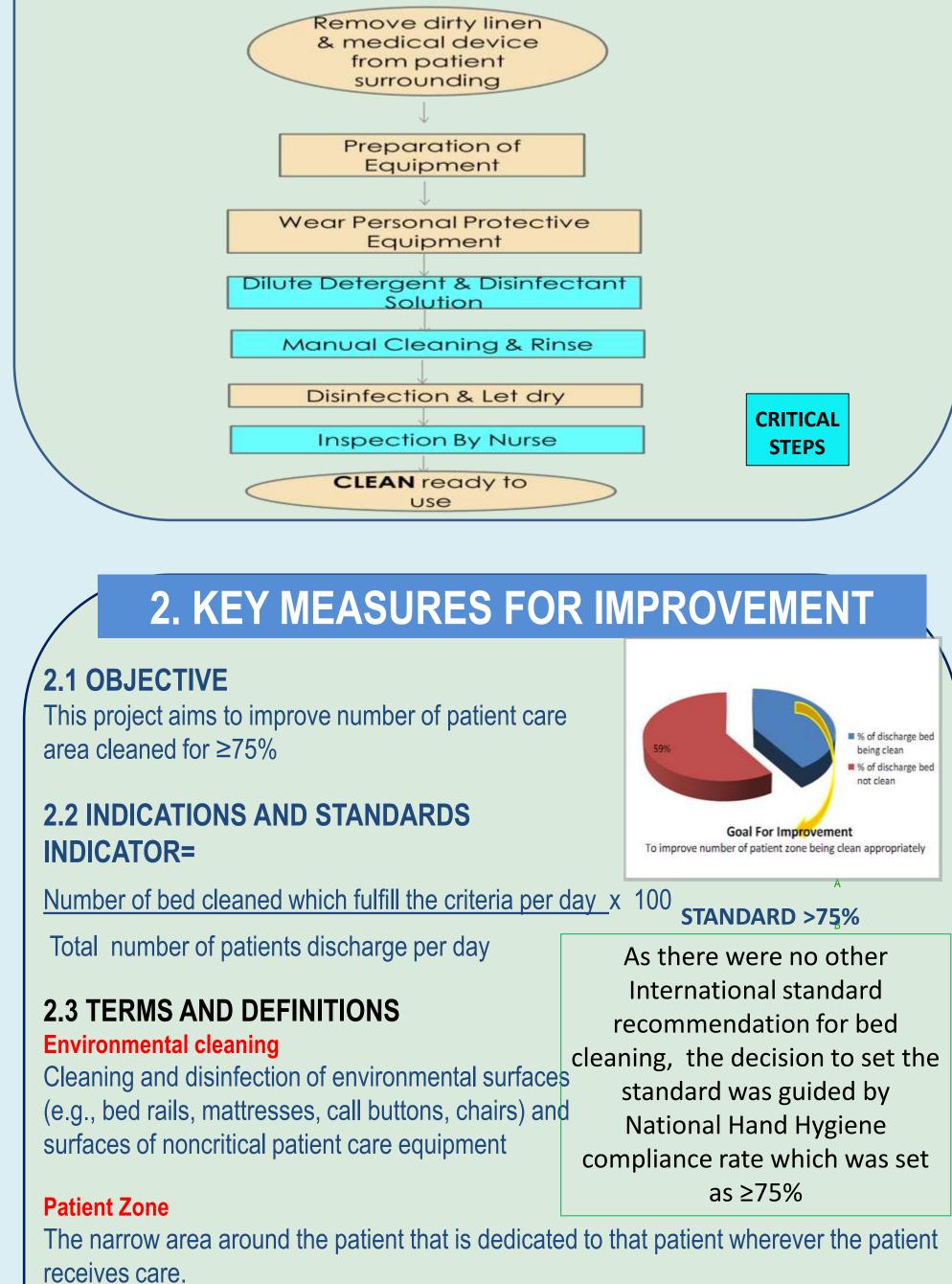
90%



1.3 OPPORTUNITY STATEMENT

Poor environmental cleaning quality in patient care area after a patient's discharge in ward 1 Hospital Kajang might increase risk of microorganism transmission especially MDRO to next patient occupying the bed. Multiple factors including manpower, system and work process weakness, lack of awareness, communication issue and current working culture contributed to this problem. Our aim of this study is to reduce risk of microorganisms transmission in Ward 1 Hospital Kajang.

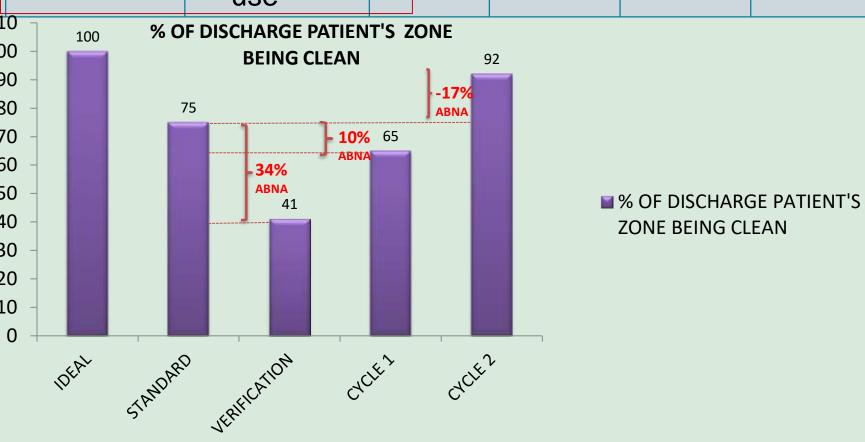




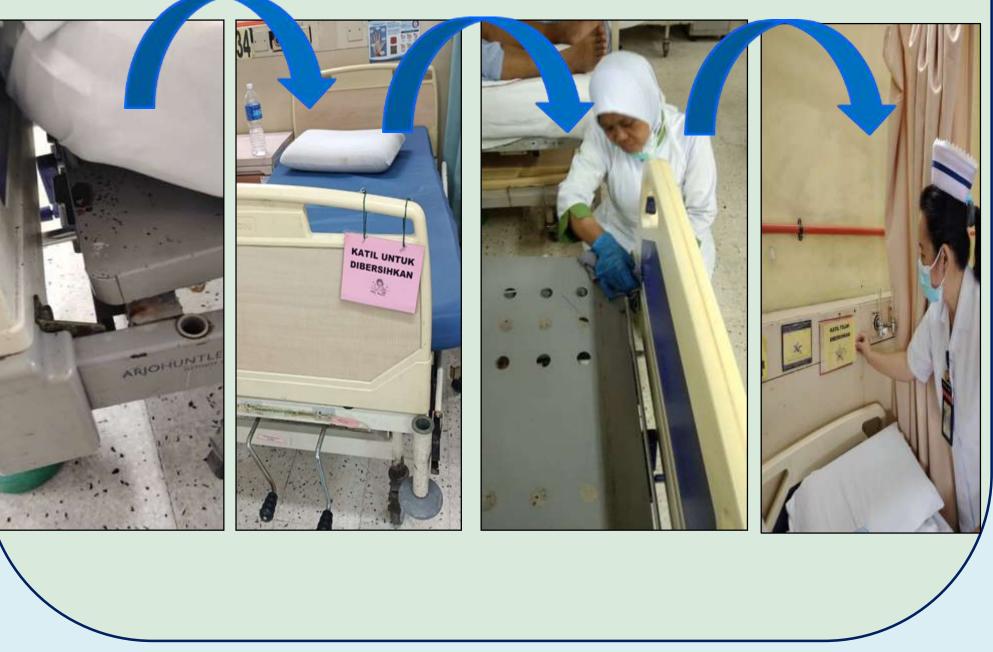
				ect ion of ifectant	100%	0	53%		Detergent & Disinfectant Solution	use of detergent	
2.	Man & Rii	with		le dirt	100%	6	70%			2. Correct dilution of disinfecta nt	
			clea	ern	100%	6	65%	2.	Manual Cleaning & Rinse	 Remove visible dirt with detergent Using 'S' pattern 	
3.		ection by e or ward ager	visib clea 1. Clea	ent zone ly ned ned area	100%		70% 0%			cleaning method from clean area to dirty area	
		4. STRAT	and for n	g label tag ready ext use OR CH	ANGE	S		3.	Inspection by Nurse or ward manager	1. All area at patient zone visibly cleaned	
Proces	SS	Shortfa		Strate Intervei		т	ime frame			1. Cleaned area	
Dilute disinfectant		 Ratio of water and disinfectant being use 		 Provision of measuring cup 		Oct 23 – Mac 24 Oct 23 – Mac 24			GRAPH FOR	tag ready	
				2. Dilution visual ai				10	20 - 00 20 - 00	PF DISCHARGE PATIEN BEING CLEAN	
Manual cleaning a rinse	nd	 Not using ' pattern clean method. Not followi sequence from area to clean 	ing ng m dirty	 Series of practica training sessions cleaners 	l s to	Oct	23 – Mac 24		70 - 50 - 50 - 40 - 30 - 20 - 10 - 0 - 10 - 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Inspection nurse	h by	1. Lack of sup	ervision	 Bed clear tagging Visual inst of the area fluorescent markers an light 	spection by		23 – Mac 24 23 – Mac 24	Po fro qu mi er	2 CONCLUSION ost interventions, i om 41% to 65% du ality of discharge croorganisms from vironment, increation tient care.	N rate of discharge uring first cycle and d patient's zone b m one person or c	pa nd bei ob
	Fraining to	Radicare staff		ILMIS KERLA 8 MENCELAP AASAM TUMPANAN DASAM/ ESACING DOMINISTRE AM	SURATAN PENCUCIAN ZON PESA AHAAN KIMMA SURATAN BAHAN SAVCINA DONI X 1 PREMISERT I TABLET SUMMERT I TABLET	SURATAN AIR Suiten X 5 Lutta X 1 Suites X 1 Suites X 1	A COMPANY OF COMPANY			KATIL UNTUK DIBERSIHKAN	
E		PEMANTAUAN					ALTING FALTURE	1	ARJOHUMTLE	- derSiHKAN	

Discharge

Formal release of a hospitalized individual due to conclusion of the hospitalization stay, either by death, return home, or transfer to another institution.



patient's zone being cleaned increased nd subsequently 92%. The increased in the eing clean has reduce risk of transfer of object to another by contaminated action subsequently improve quality of



3. PROCESS OF GATHERING INFORMATION

3.1 Study Design : Pre and Post Interventional Study 3.2 Duration: August 2023 – June 2024 Data collections period : Verification Study : 1st August 2023 – 31st August 2023 First cycle : Sept 2023 – Nov 2023 Second Cycle : Dec 2023 – Feb 2024 3.3 Sampling : Number of patient's discharge X Duration of study 3.4 Inclusion criteria : All patients discharged from Ward 1 3.5 Data Collection Tools :

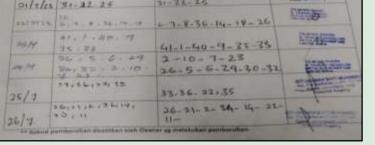
Buku rekod harian pencucian katil di Wad 1, Discharge patients zone cleaning assessment form, Healthcare Environment Cleaning Visual Assessment Form



BUKU PEMANTAUAN

PEMBERSIHAN RUANG PESAKIT KATIL/LOCKER/ CARDIAC TABLE

SELEPAS PESAKIT DISCAJ /KELUAR



Buku pemantauan pembersihan ruang pesakit selepas pesakit discaj



Bed tagging (cycle 1)



Visual inspection using fluorescent markers



Bed tagging (cycle 2)



UV light & glogerm powder kit for visual inspection

6. THE NEXT STEP

We aim to adapt these strategies to other wards.

- Regular training and provisions of privileging to the cleaners who complete the cleansing training successfully
- Routine monitoring and auditing to ensure project sustainability
- Patient Involvement: Educate patients and their families about importance of environmental hygiene and encourage them to report any concern regarding cleanliness.