

NCID ICU Retrieval Process for Intubated Patients (Sustainability Phase) **Ms Lim Voon Ping**

NCID ICU



Adding years of healthy life

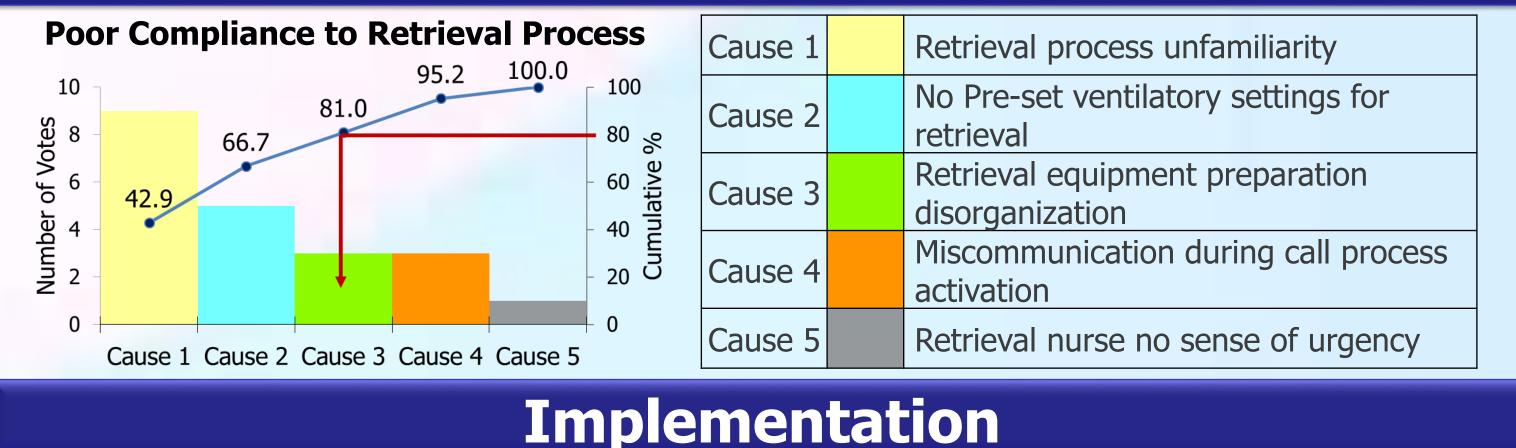
Mission Statement

improve compliance to NCID Protocol for retrieval of intubated 10 patients by retrieval team from 46% to 100% over a sustained period

Team Members

	Name	Designation	Department
Team Leader	Lim Voon Ping	Senior Nurse Clinician	NCID ICU
Team	Li Caihua	Nurse Clinician	NCID ICU
Members	Nichole Tan Xiu Lang	Assistant Nurse Clinician	NCID ICU

Pareto Chart



Lee Wan Lih	Senior Staff Nurse	NCID ICU
Ling Ging Poh	Senior Staff Nurse	NCID ICU
Emelin Tan Pei Xin	Senior Respiratory Therapist	Respiratory Therapy

Mentor: Ms Yu Liang

Sponsors: Dr Benjamin Ho & Ms Lorraine Tan

Evidence for a Problem Worth Solving

Proogh et al. Critical Care (2015) 19:62 DOI 10.1186/s13054-015-0749-4	(equipment)	safety and to transfer	lower incide	er retrieval: ence of technical problem ents with fewer and less Critical Care (2015) Vol 19
<i>Am J Crit Care</i> . 2011 March ; 20(2): 153–162. doi:10.4037/ajcc2011478.		nts during i	intra-hosp	ital transport is a <u>high</u>
Adverse Clinical Events During Intrahospital Transport by a Specialized Team: A Preliminary Report Ricky Kue, MD, MPH, Paul Brown, NREMT-P, Chyrl Ness, RN, and James Scheulen, MI	adverse events	ransfer team	n can potent	tially reduce the number of
PA-C	 Causes of adverse 	ributing suc	h as <u>inadeq</u>	rial with mainly human uate preparation, failure to ognition.
				Am J Crit Care (2011) Vol 20
Baseline Data on	Month Total no. of Detrious	Jul	Aug	
Compliance to Retrieval	Total no of Retrieval Met	4	14 6	Baseline Median

Compliance to Retrieva	
Protocol from	
July to August 2019	

Month	Jul	Aug
Total no of Retrieval	4	14
Met	2	6
Not Met	2	8
% of Compliance	50%	42.85%

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	Baseline Median		
	= 46%		

CAUSES	INTERVENTIONS	IMPLEMENTATION DATE	
Cause 1:	PDSA 1a:	15 Aug 2019	
Retrieval process	Refresher Training on Retrieval Workflow	13 Aug 2019	
unfamiliarity	PDSA 1b:		
	Role expansion of RN to include ventilator alarm safety check	7 Sep 2019	
	PDSA 1c:		
	Walk through retrieval route and coverage location with all retrieval nurse	23 Sep 2019	
Cause 2:	PDSA 2a:	12 Oct 2010	
No Pre-set ventilator	Implement Pre-set ventilator settings for retrieval	12 Oct 2019	
settings for retrieval	PDSA 2b:	20.0 + 2010	
	Revise ventilator checking pictorial guide	20 Oct 2019	
Cause 3:	PDSA 3a:		
Retrieval equipment preparation disorganisation	Use of a pre-prepared retrieval trolley 7 No		
Cause 4:	PDSA 4a:		
Miscommunication during call activation process	Create standard retrieval information slip for Nurse In Charge	15 Nov 2019	
Results			
% of Compliance to	o Retrieval Protocol of Intubated Patient by Retrieval Tea Period: July 2019 to February 2022	am in NCID	
A 1c: Walk through the val route and location Retrieval Team	PDSA 2a: Implement Pre-set ventilator settings for retrieval PDSA 2b: Revise Ventilator Retrieval suspended from mid Feb till Jul 2020 due to COVID-19	Post-Intervention (Aug 2020 - Feb 2022)	

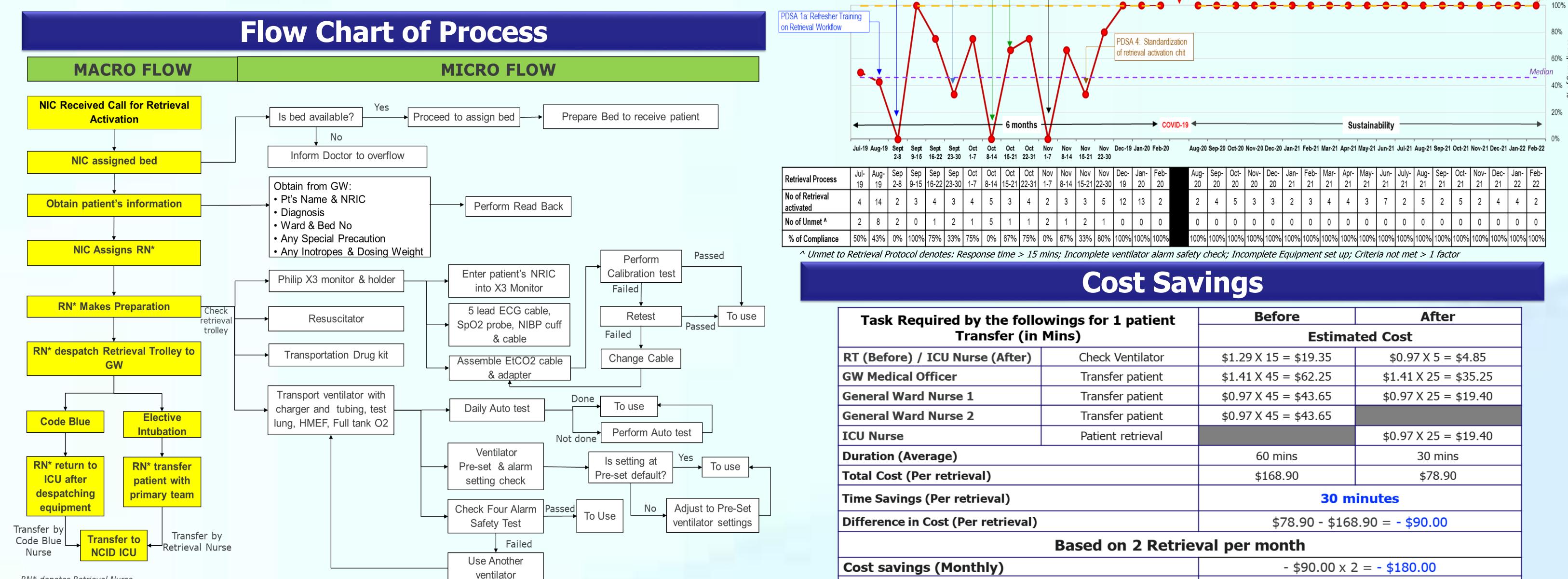
46%

PDSA 3: Use of a pre-

prepared retrieval trolley

checking pictorial guide

100%

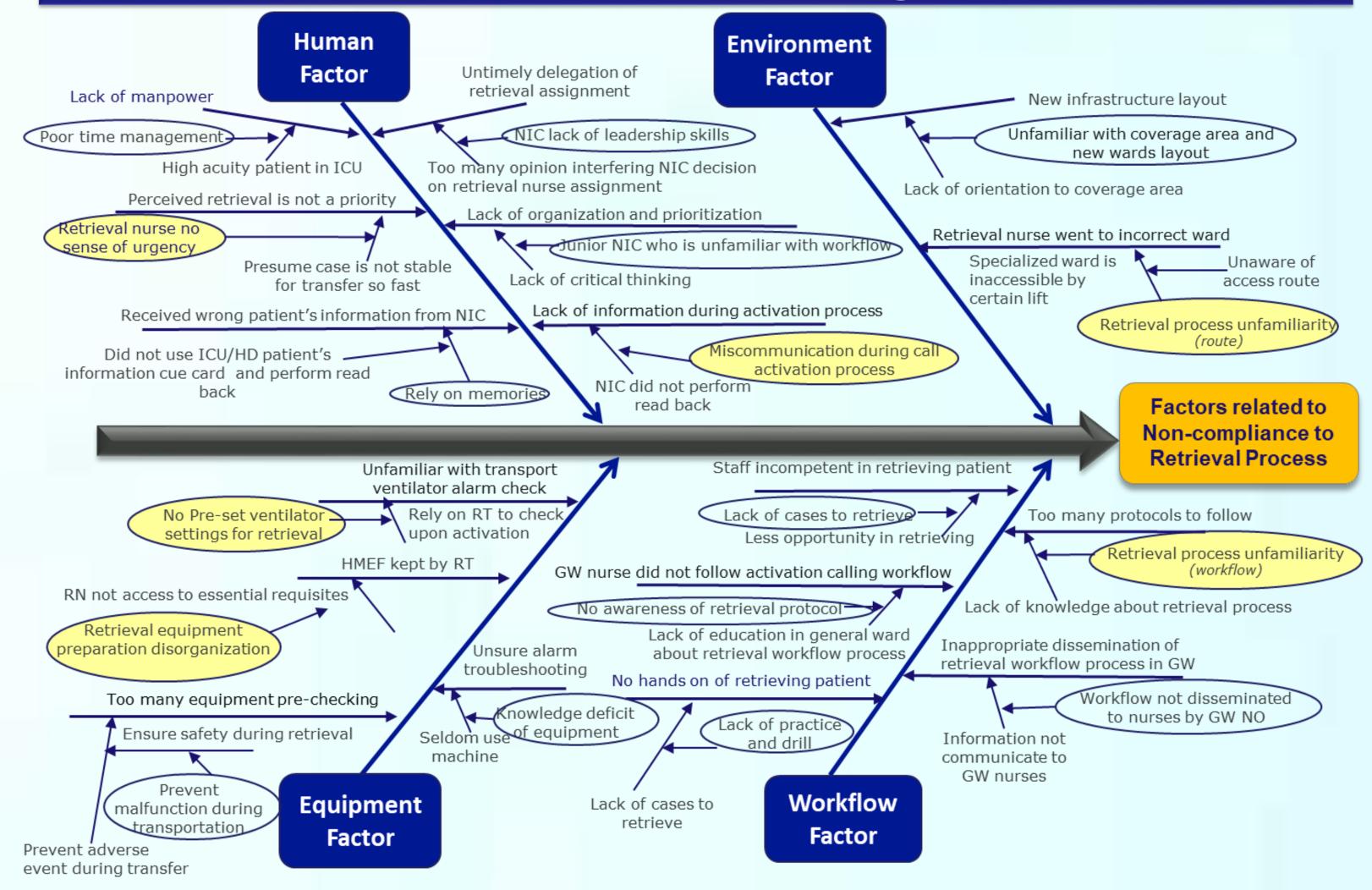


with Retrieval Team

atety check

PDSA 1b: Role expansion of RN to include ventilator alarm

Cause and Effect Diagram



Cost savings (Annualised)	- \$180.00 x 12 = - \$2160.00
Time savings (Annualised)	30 x 2 x 12 = 720 min (12 hours)

Lessons Learnt

- 1. Enhanced communication between various platform
- 2. Buy in!!
- 3. Working as a team
- 4. Commitment to a changing behaviour both as an individual and to the organization
- 5. Conducting weekly drill is challenging yet it empowered the ICU staff with higher efficiency in care

Strategies to Sustain

- 1. Continue to review each retrieval through retrieval log, evaluate and monitor gaps if any.
- 2. Staff compliance to the protocol
- 3. Maintain routine of frequent retrieval drill for staff and provide debriefing session
- 4. Continue engagement with general ward team to provide updates on areas performed well or share any concerns to improve patient's safety
- 5. Include retrieval drill as part of NCID ICU unit-based competency for new staff