

CHI Learning & Development (CHILD) System

Project Title

Simulated Critical Care Physiotherapy Training to Improve Staff Knowledge And Confidence

Project Lead and Members

Project Lead: Preetha Kamath

Project Members: Vivien Lee Jie Qi, Lim Kian Chong

Organisation(s) Involved

Ng Teng Fong General Hospital

Healthcare Family Group(s) Involved in this Project

Allied Health

Applicable Specialty or Discipline

Physiotherapy

Aims

The aim of this quality improvement project is to improve the knowledge and confidence levels of newly joined physiotherapists covering critical care unit to at least a score of 3/5 in 8 months.

Background

See poster appended/below

Methods

See poster appended/below

Results

See poster appended/ below



CHI Learning & Development (CHILD) System

Lessons Learnt

The use of a simulator and seeing actual patients are both beneficial in developing confidence. Reading materials enhance learning and allows for easy future reference.

Conclusion

See poster appended/below

Project Category

Training & Education

Education Platform (Virtual Learning Platform)

Keywords

Critical Care Unit, Physiotherapy, Simulation,

Name and Email of Project Contact Person(s)

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SIMULATED CRITICAL CARE PHYSIOTHERAPY TRAINING TO IMPROVE STAFF KNOWLEDGE AND CONFIDENCE

PREETHA KAMATH, VIVIEN LEE JIE QI, LIM KIAN CHONG

Problem, Aim

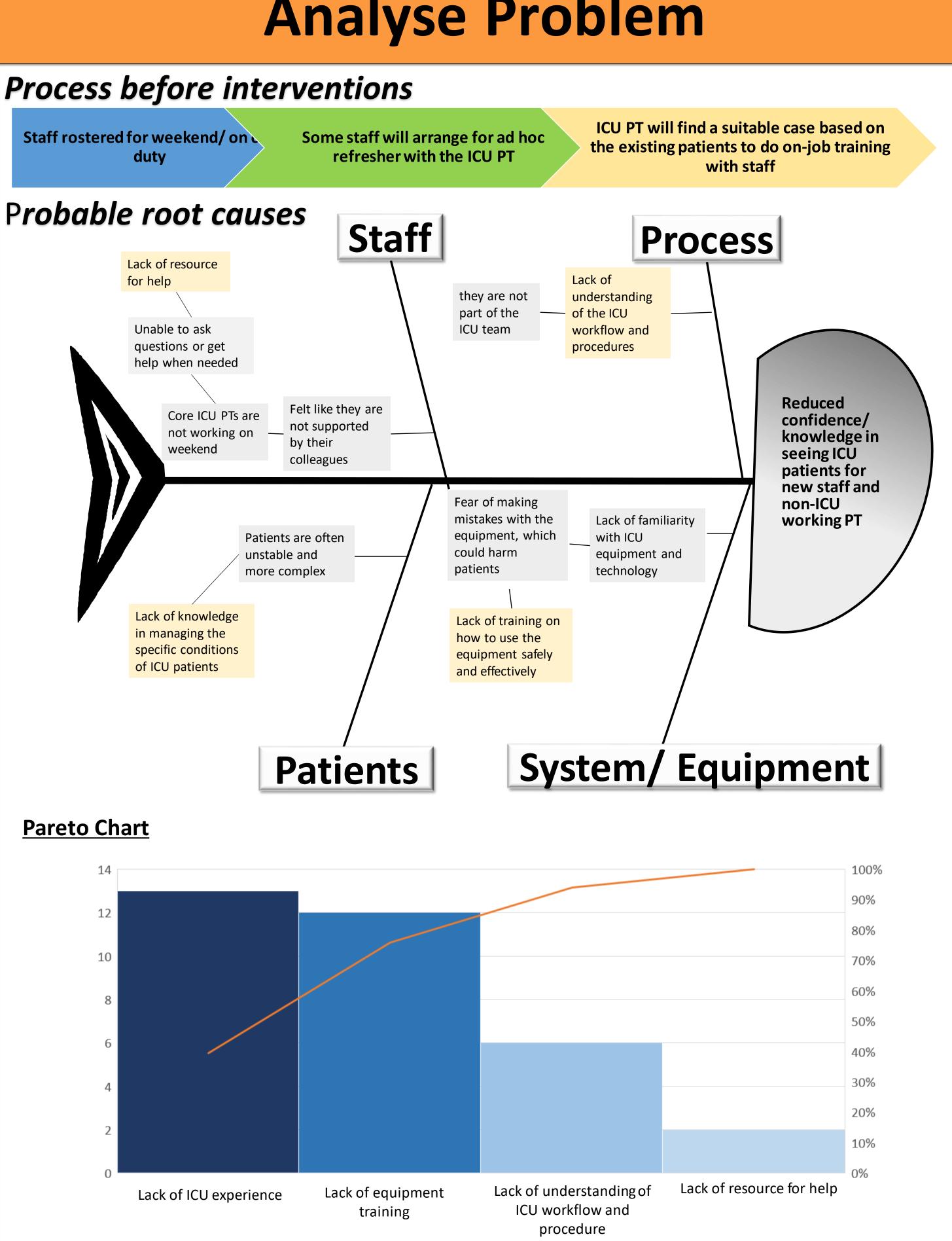
Problem/Opportunity for Improvement

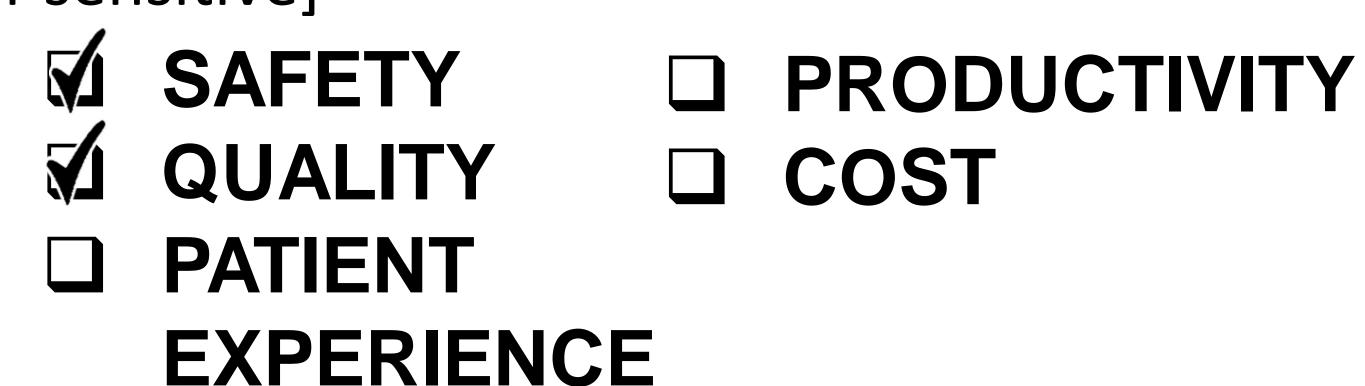
Intensive care physiotherapy is an advanced practice area that is not covered in undergraduate curriculum. Physiotherapists are rostered to cover critical care unit during on call/weekend duties. In particular, newly joined and non-ICU working Physiotherapists, unfamiliar with the ICU environment, tend to face a lot of anxiety leading to their duties.

Aim

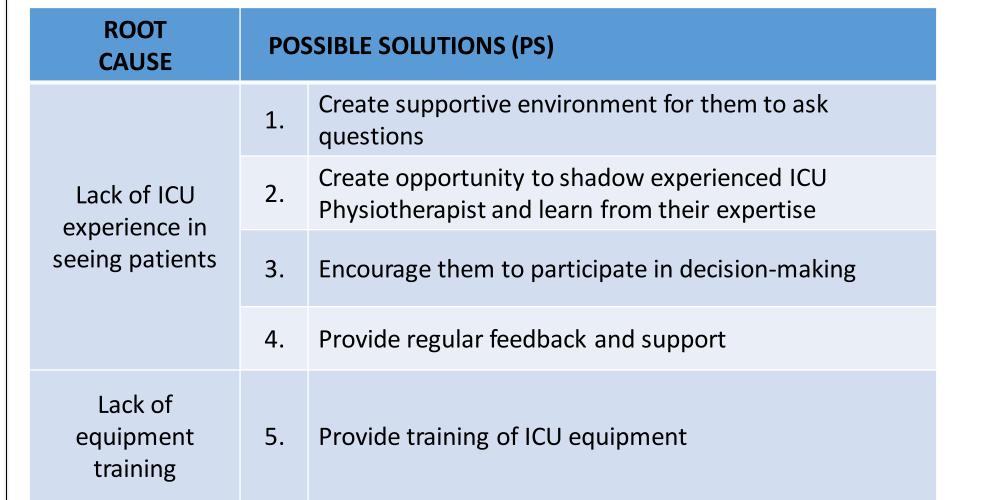
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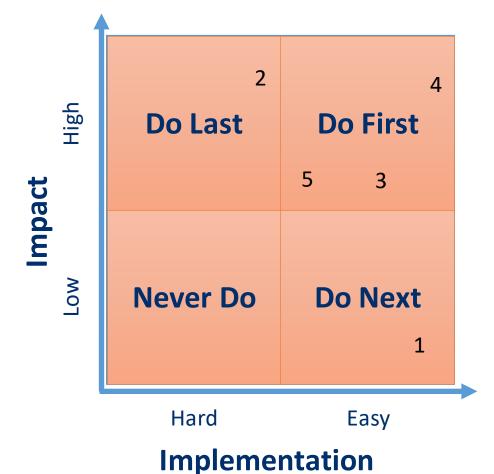
Staff self-rated confidence and knowledge scores (0 for low confidence or knowledge; 5 for high confidence and excellent knowledge) 1.9 Confidence BEFORE Knowledge BEFORE Average: 2 out of 5 for both self-rated confidence and knowledge Analyse Problem Process before interventions





Select Changes





Test & Implement Changes

CYCLE	PLAN	DO	STUDY	ACT
1 (PS 1, 3, 4, 5)	Simulation training with ICU set-up at simulation centre, followed by case practice with feedback	 Use of manikin with ETT set up to conduct suctioning practice first See a real intubated ICU patient under supervision 	 Feedback collected: Not enough intubated cases Asked for reading materials and guidelines 	 ADOPT staff are grouped or paired up. Split into 2 x 1hr session on separate days If intubated cases are not available, additional training session was arranged. Staff can Tigertext ICU PTs for support.
2 (PS 5)	Training of ICU equipment	November 2022 Introduce reading materials and photos of equipment.	Feedback collected: - Staff found it helpful to have a guide Satff requested for soft copy	 ADOPT Reading materials were printed for staff to see. Pictures of machine shared on Tigertext

Average Knowledge and Confidence Score (taken from Oct 2022 – Jun 2023)



Spread Changes, Learning Points

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

- Planning of simulation training dates were done 3 months in advance.
- Reminding the rostered staff 3 months before their scheduled duty to attend simulation training.
- Encouraged staff to attend more than 1 training if they think they need it.

What are the key learnings from this project?

- The use of a simulator and seeing actual patients are both beneficial in developing confidence.
- Reading materials enhance learning and allows for easy future reference.



