

### CHI Learning & Development (CHILD) System

#### **Project Title**

Improving Staff Satisfaction of Perceived Workload in the ICU

#### **Project Lead and Members**

Project lead: Ms Lee Qi Carin

Project members: Tung Saw Meng, Ma May Htwe Lwin, Khaing New Ko, Mohammad

Ikhwan Bin Mohammad

#### Organisation(s) Involved

IHH Healthcare

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

Healthcare Administration

#### **Applicable Specialty or Discipline**

**Healthcare Administrators** 

#### **Project Period**

Start date: Feb 2023

Completed date: Aug 2023

#### **Aims**

To improve staff satisfaction of perceived workload of ICU RNs by 10% within 6 months.

#### **Background**

Gleneagles ICU is a multi-disciplinary combination of ICU and High Dependency patients. Current workload measurement is based solely on department census. Staff to patient assignment relies heavily on the experience and competence of the shift in-charge.



### CHI Learning & Development (CHILD) System

#### Methods

See poster appended/below

#### **Results**

Post-test results shows overall improvement against the pre-test results as follows:

- Difficulty assigning staff to patients fairly reduced from 85% to 60%.
- Difficulty justifying their decisions reduced from 80% to 53.4%.
- Satisfaction with their assignments improved from 42.9% to 55.3%.
- Assignments were done fairly improved from 50% to 57.9%.

#### Conclusion

See poster appended/below

#### **Project Category**

Organisational Leadership

Human Resource, Staff Wellbeing

#### **Keywords**

Registered Nurses, Staff Satisfaction, Ishikawa Diagram, Nurses burnout, Acuity Trend Tool, Quality Improvement

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# Improving Staff Satisfaction of Perceived Workload in the ICU



Team Members

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## ■ 1. PROBLEM Statement

# Registered Nurses (RNs) in the ICU have given feedback regarding overwhelming workload and unfair staff to patient assignments.

## ■ 3. AIM Statement & TARGET

To improve staff satisfaction of perceived workload of ICU RNs by 10% within 6 months.

## ■ 2. BACKGROUND Information

Gleneagles ICU is a multi-disciplinary combination of ICU and High Dependency patients. Current workload measurement is based solely on department census. Staff to patient assignment relies heavily on the experience and competence of the shift in-charge

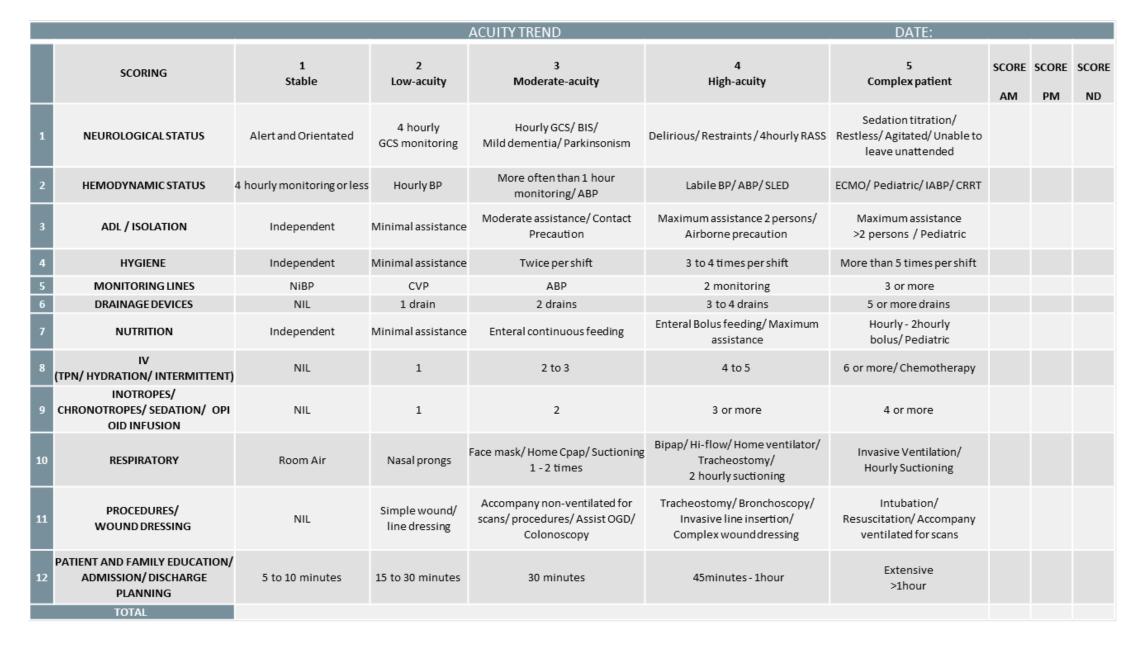
## ■ 4. MEASURE & INDICATOR

We conducted a pre-test to measure their dissatisfaction and collected qualitative data for some of their reasons for dissatisfaction

## ■ 5. CHANGE STRATEGY

We conducted a root cause analysis using an Ishikawa diagram and narrowed down the significant causes as a lack of objective patient data, no measurement of patient acuity, no categorisation of nurses according to their competencies, and nursing burnout. We also did a literature review, of which many studies have proven effectiveness of patient classification systems and incorporating measurements of patient acuity when accounting for manpower allocation and workload distribution. In conclusion, there was a need to establish a patient acuity measurement tool.

In February 2023, PDSA cycle 1, we started using the Acuity Trend tool. After data analysis, we concluded that each RN should be given a total maximum patient acuity score of 50. We achieved 100% compliance of tool utilisation. In PDSA cycle 2, we focused on shift in-charge RNs, reinforcing usage of the scores to distribute workload, and calculate manpower required per shift. To eliminate the need for tedious calculations, patients were categorised into 6 categories, according to their scores.



## ■ 6. RESULTS

Post-test results shows overall improvement against the pre-test results as follows:

- Difficulty assigning staff to patients fairly reduced from 85% to 60%.
- Difficulty justifying their decisions reduced from 80% to 53.4%.
- Satisfaction with their assignments improved from 42.9% to 55.3%.
- Assignments were done fairly improved from 50% to 57.9%.

## **7. LESSONS LEARNT**

This was a Quality Improvement Project (QIP). To achieve reliability and validity of the tool to better convince more institutions to adopt this tool, this project could have been implemented as a pretest-posttest research study with content validation of the tool.



