# **Singapore Healthcare** Management 2019

# "To Improve Performance in Nursing **Assessment for All SGH Nursing Students** to A Median of 90% Within 12 Months"

Siti Norbayah Binte Seman, Karen Ooi Seow Yin, Azlinah Binte Mohamed Kassim, Chen Zhengyong, Umma Sali Mah D/O Sheik Davood SingHealth Alice Lee Institute of Advanced Nursing



Create checklist for

Feedback template

Create a standard

N

easy reference

for students

# Background

The primary responsibility of SingHealth Alice Lee Institute of Advanced Nursing is to meet the learning needs of the nursing students while delivering safe care to patients.

Evaluation of nursing students' skill is important to bridge the gap between theory and practice. In the current situation, students show insufficient improvement in skill performance even after feedback by Clinical Instructors (CIs).

# **Interventions / Initiatives**

Measuring tools for the rubrics

eate checklist for easy reference

Voice/video recording of feedback

### **Brainstorming**

**Prioritization Matrix (Fig 4)** 

Silent brainstorming using post-it notes

No reference

material giver

to students.

after verbal

feedback

Each member brainstormed multiple solutions for each root causes. These were then grouped together **Solutions** 

Note taking for students on their strength and weakness.

Create feedback ruler scale of 1-10 (students)

• 4 solutions were chosen by the team (Fig 4)

## **Mission Statement**

To improve performance in nursing assessment for all SGH nursing students to a median of 90% within 12 months

- 2 weeks using APIE checklist (Fig 1)
- result (Fig 2)

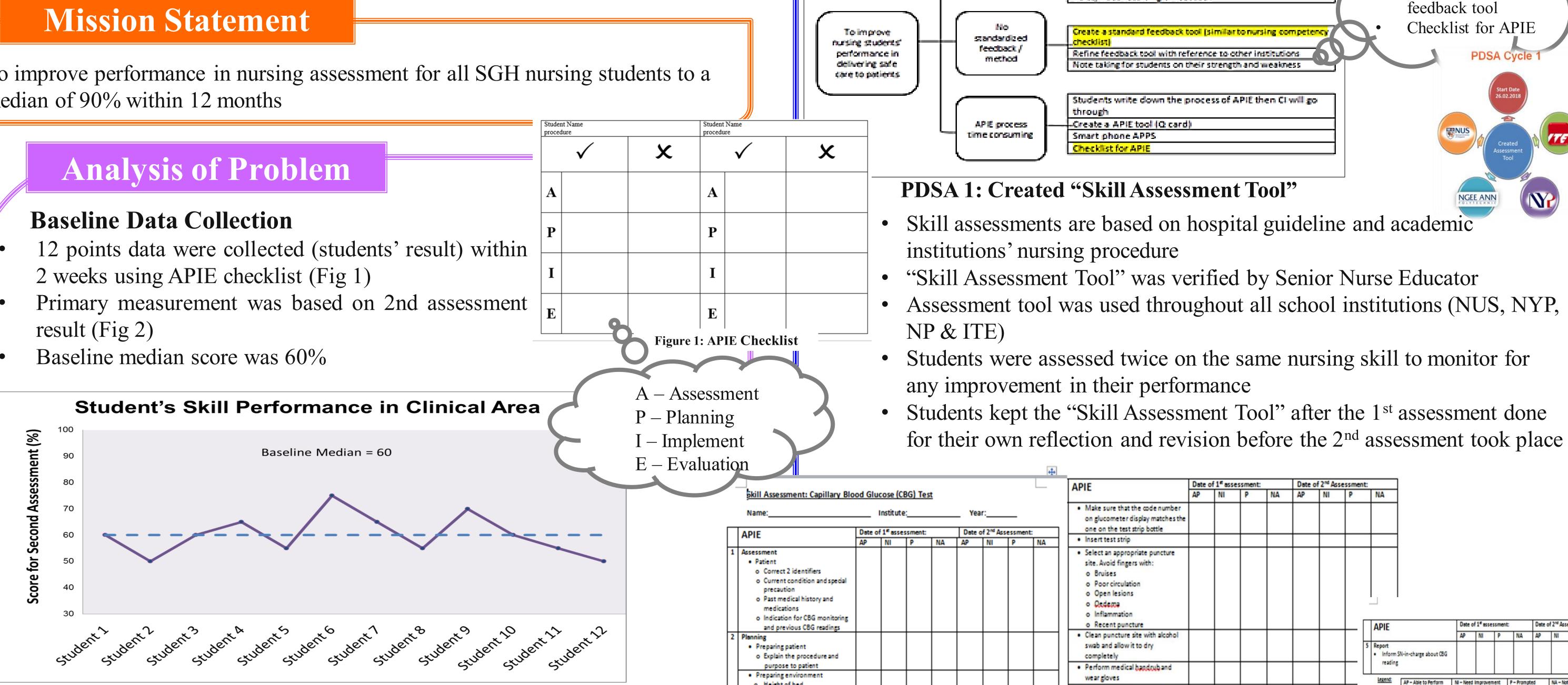
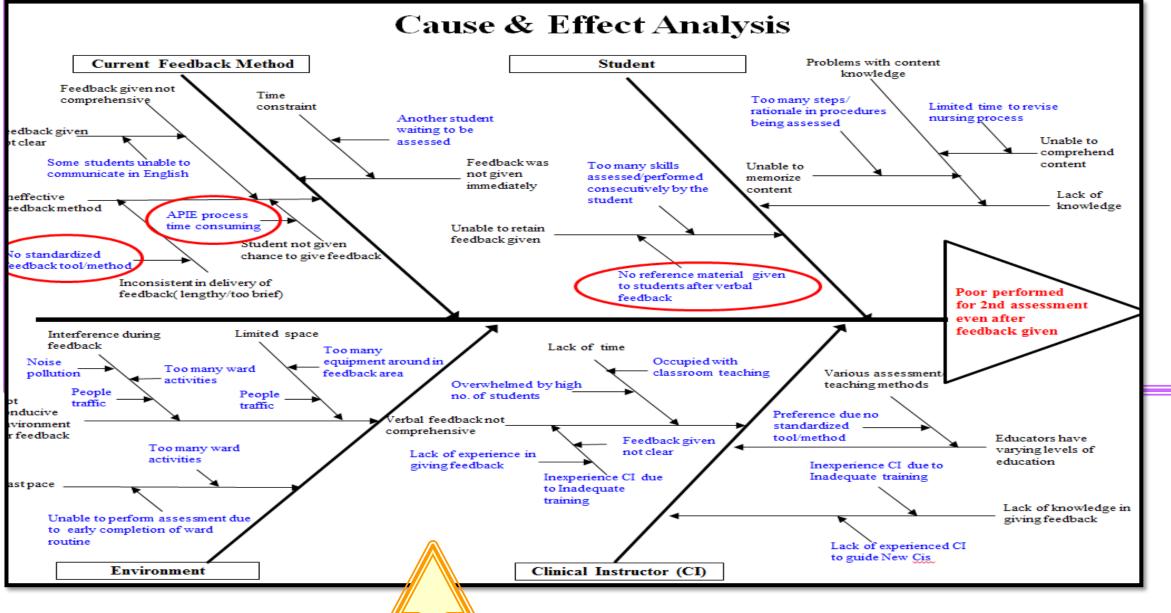


Figure 2: 2<sup>nd</sup> Assessment Baseline Data

### Ishikawa diagram

- Ishikawa diagram was used to identify the cause and effect analysis (Fig 3)
- Pareto analysis was conducted twice to determine the crucial 20% of root causes causing majority of the problem.



APIE	Date o	f 1ª asse	essment:		Date of 2 <sup>nd</sup> Assessment:				ן ר	one on the test strip bottle			 	-				
	AP	NI	P	NA	AP	NI	Ρ	NA	1	<ul> <li>Insert test strip</li> </ul>								
Assessment     Patient     o Correct 2 identifiers     o Current condition and special     precaution     o Past medical history and     medications										<ul> <li>Select an appropriate puncture site. Avoid fingers with:</li> <li>Bruises</li> <li>Poor circulation</li> <li>Open lesions</li> <li>Oedema</li> <li>Inflammation</li> </ul>								
<ul> <li>Indication for CBG monitoring</li> </ul>										o Recent puncture	1			l r	APIE	Date of 1" assessment:	Date of 2 <sup>nd</sup> Asse	essment:
and previous CBG readings 2 Planning	<u> </u>		+	+		+	+	+		Clean puncture site with alcohol	+	+	 	+-	APIE	AP NI P N		P NA
Preparing patient     o Explain the procedure and     purpose to patient										swab and allow it to dry completely Perform medical bandrub and					5 Report • Inform SN-in-charge about CBG reading			
<ul> <li>Preparing environment</li> </ul>								<u> </u>	11	weargloves	1			1 1				
<ul> <li>Height of bed</li> <li>Patient's position</li> <li>Sufficient lighting</li> <li>Switch off fan</li> </ul>										Prick patient's finger with lancet     and discard lancet into puncture-     resistant container immediately					Legend: AP - Able to Perform	NI – Need Improvement P – Pr Self-Assessment Ruler	rompted NA – Not	t Applicable
<ul> <li>Preparing requisites         <ul> <li>Clean glucometer</li> <li>Bottle of test strips</li> <li>Disinfectant-impregnated wipes</li> <li>Clean procedure COW</li> <li>Puncture-resistant container</li> <li>Disposable kidney dish with</li> </ul> </li> </ul>										<ul> <li>Hold glucometer with strip pointing downwards and place a drop of blood to the front edge of the strip</li> <li>Apply cotton ball or gauze to puncture site to stop bleeding</li> <li>Discard test strip as biohazard</li> </ul>						Revendention	v ta ↓ heiga / den (	
<ul> <li>Non-sterile disposable</li> </ul>										waste	1					120		
Gloves											+	+	 	+	Date of 1" Assessment:	Date of 2 <sup>nd</sup> Asse	A REAL PROPERTY AND A REAL	
<ul> <li>Lancet</li> <li>Alcohol swab</li> </ul>										<ul> <li>Place glucometer on patient's</li> </ul>	1				Areas of Improvement	Areas of Improv	ement	
<ul> <li>Alconol swab</li> <li>Cotton ball or gauze</li> </ul>										cardiac table	+	+	 	+				
Self	<u> </u>	+	+	+	+	+	+	+	+	<ul> <li>Remove gloves and perform hand</li> </ul>	1							
<ul> <li>Knowledge of prescribed insulin or oral <u>hypoglycae.mic.agent(s)</u>, if any</li> <li>Competent in doing CBG test</li> <li>Knowledge of glucometer function</li> </ul>										<ul> <li>bisinfect glucometer with disinfectant-impregnated wipes.</li> <li>Ensure that test strip port is tilted towards the floor when deaning it.</li> <li>Perform hand hygiene</li> </ul>								
3 Implementation	<u> </u>	<del>                                      </del>	+	+	<u> </u>	+	<u> </u>	+	11	<ul> <li>Inform patient about CBG reading</li> </ul>	+			+				
Perform medical bandrub     Check expiry date of test strips and     put one into the kidney dish     Scan barcode on Staff Card										Administer anti-diabetic medications, if prescribed     Dock glucometer at base station as soon as possible					+			
<ul> <li>Verify patient's identity by asking for patient's name and NRIC number</li> </ul>										Evaluation • Ensure that CBG reading is reflected in SCM Insulin Flowsheet								

## Results

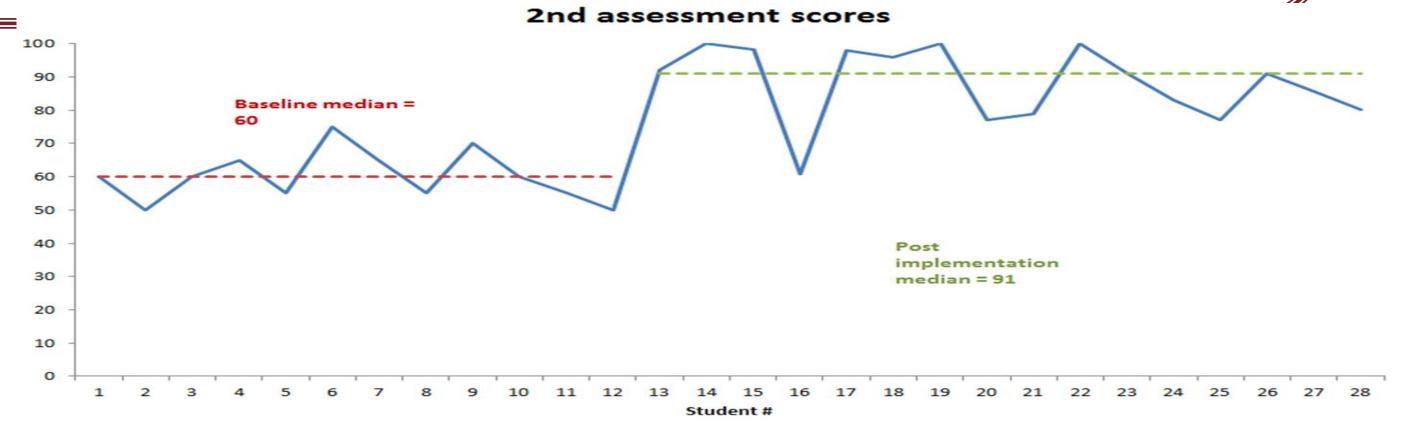
- Students' performance showed improvement to a median of 90%
- Students display more confidence during the 2nd assessment
- Students' feedback on the skill assessment checklist:
  - Easy to follow through and understand the process

### **Top Causes:**

- No reference material given to students after verbal feedback
- No standardized feedback tool / method
- APIE process is time consuming

### Aid them to reflect and revise on the area of improvement

- The tool is effective and beneficial for them
- Survey collected from CIs
  - Easy to use and saves time
  - Consistency between different CIs evaluation
  - Able to compare between 2 assessment
  - Student able to self-reflect on the skill



### **Team members**

• Brief other clinical instructors and Nurse Educators on assessment tool checklist

Sustainability

- Implement assessment tool checklist for other clinical skills e.g.  $\bullet$ administration of nebulizer, oxygen therapy, insulin and etc. Orientation for new CI  $\bullet$
- Monitor the progress and review checklist for improvement