

## **Project Title**

Fall Prevention in Rehab Wards

## **Project Lead and Members**

Project lead: NC Sreelekha Nair

Project members: SSN Satria Ayu Bin Ramjudi, SSN Sinny Sebastian, SSN Kristine Daet.

Dr Low Yee Hong, SEN Priya Rajendran, PT Sheyin, UNM Magdalene Lim( sponsor)

## **Organisation(s) Involved**

Tan Tock Seng Hospital

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

Nursing, Medical, Allied Health

## **Applicable Specialty or Discipline**

Rehabilitation Medicine

## **Project Period**

Start date: September 2019

Completed date: February 2021

## **Aims**

To reduce inpatient fall rate in Rehab Wards from current fall rate of 1.8/1000 patient days to 1.0/1000 patients days

## **Background**

See poster appended/ below

## **Methods**

See poster appended/ below

## **Results**

See poster appended/ below

## **Lessons Learnt**

Every healthcare worker plays a part in fall prevention.

## **Conclusion**

See poster appended/ below

## **Additional Information**

NHG Quality Improvement Award 2021: Developing a Flexible & Sustainable Workforce (Merit Award)

## **Project Category**

Care & Process Redesign

Quality Improvement, Value Based Care, Safe Care, International Patient Safety Goal

## **Keywords**

Improvement Tools, Affinity Diagram, Pareto chart, Plan Do Study Act, , Root Cause Analysis, High Fall Risk Cubicle, Reduce the Risk of Patient Harm Resulting from Falls

## **Name and Email of Project Contact Person(s)**

Name: Sreelekha Nair

Email: sreelekha\_nair@ttsh.com.sg

**Ms Sreelekha Nair**  
Rehab at Ang Mo Kio (AMK)

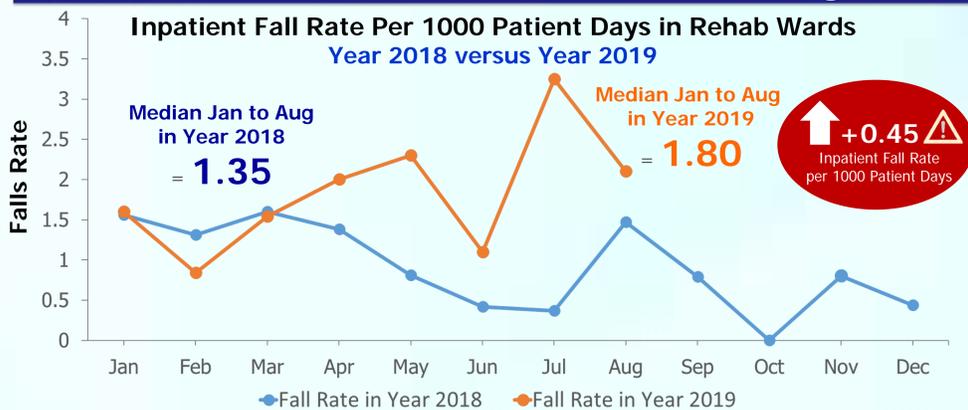
## Mission Statement

To reduce inpatient fall rate in Rehab Wards from current fall rate of 1.8/1000 patient days to 1.0/1000 patients days in 6 months

## Team Members

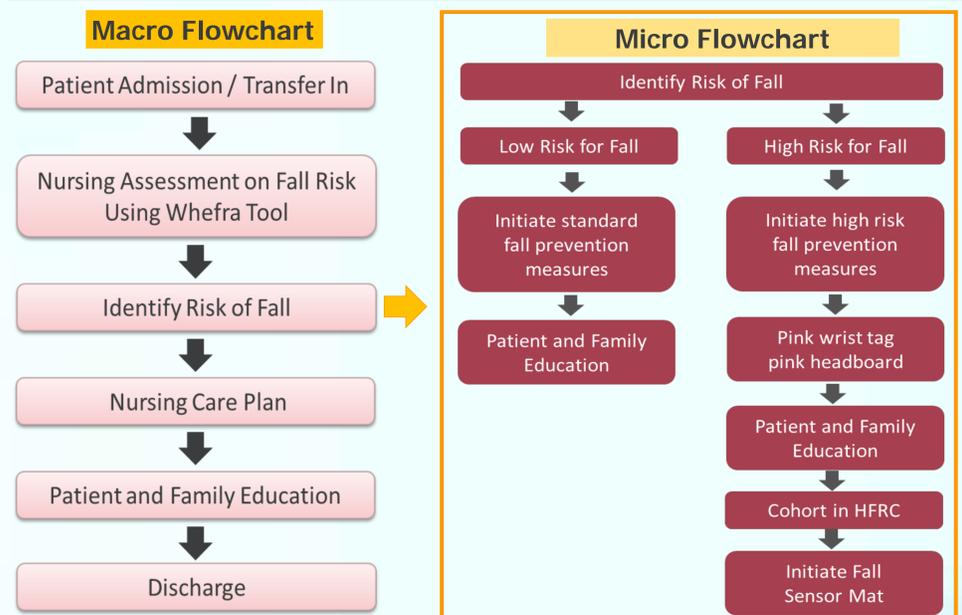
	Name	Designation	Department
<b>Team Leader</b>	Ms Sreelekha Nair	Nurse Clinician	Previous at Rehab @ AMK Present at Level 7
<b>Team Members</b>	Mr Satria Ayu Bin Ramjudi	Senior Staff Nurse	Rehab @ AMK
	Ms Sinny Sebastian	Senior Staff Nurse	Rehab @ AMK
	Ms Kristine Daet	Senior Staff Nurse	Rehab @ AMK
	Dr Low Yee Hong	Senior Resident	Rehab @ AMK
	Ms Priya Rajendran	Senior Assistant Nurse	Rehab @ AMK
	Ms Tan Sheyin	Physiotherapist	Rehab @ AMK
<b>Sponsor</b>	Ms Magdalene Lim	Senior Nurse Manager	Rehab @ AMK
<b>Mentor</b>	Ms Goh Lee Lee		

## Evidence for a Problem Worth Solving

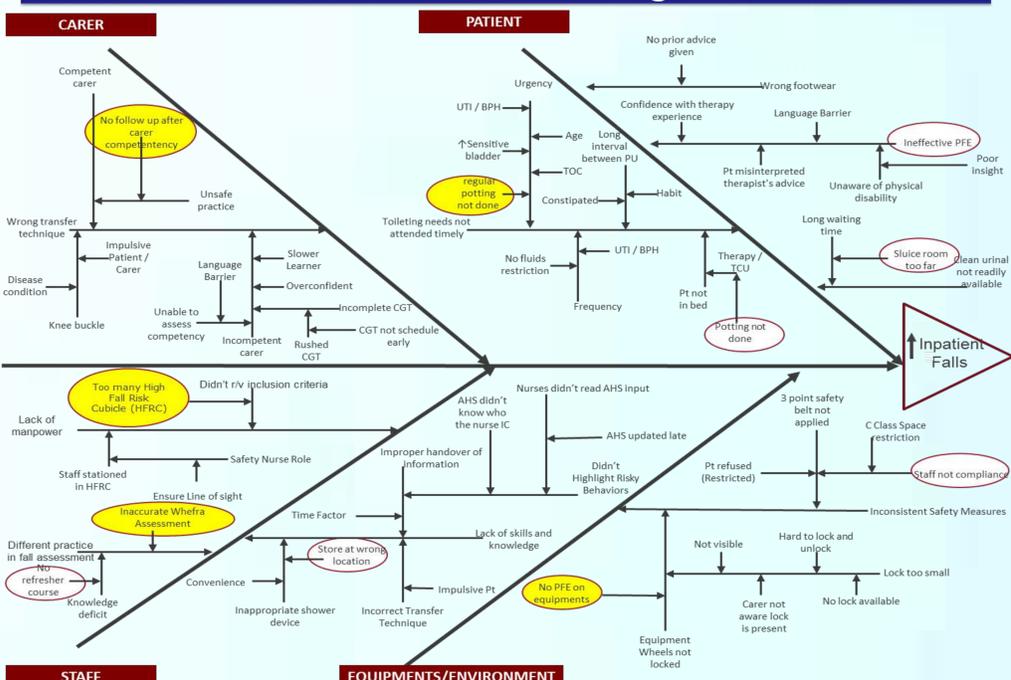


TTSH inpatient fall rate target = **1.0/1000 patients days**

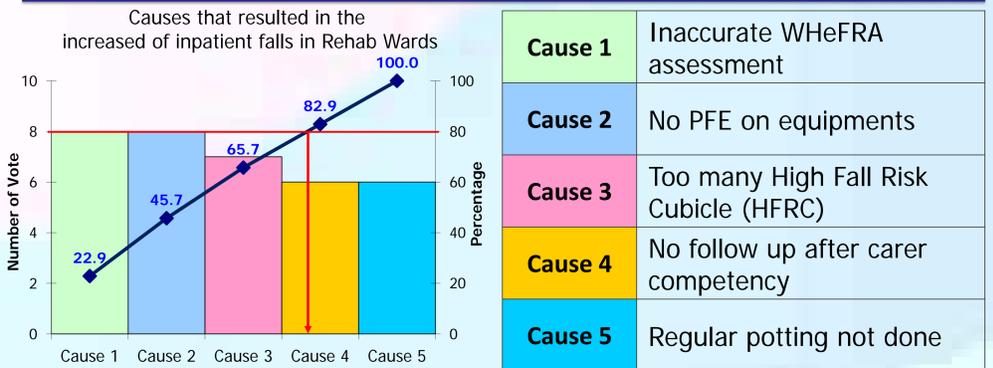
## Flow Chart of Process



## Cause and Effect Diagram



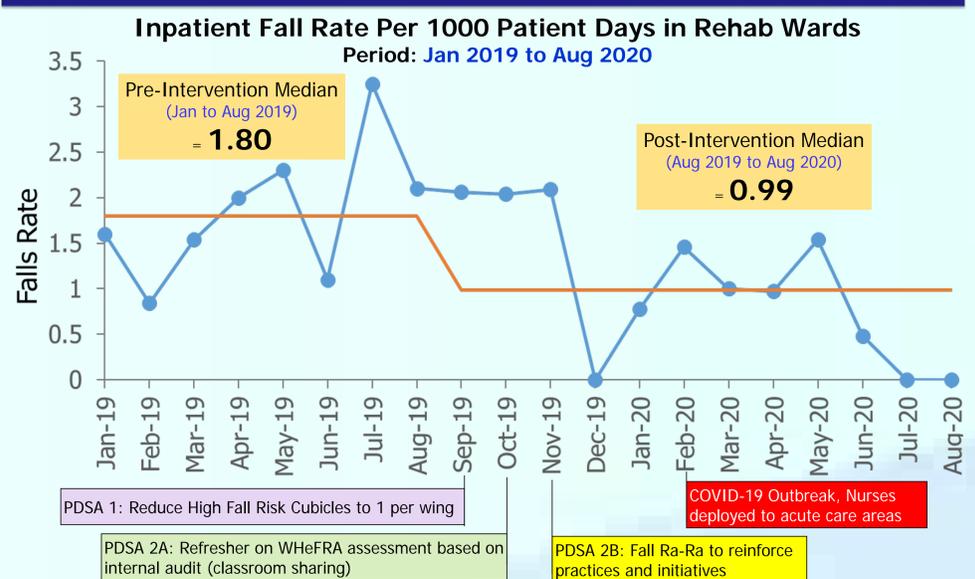
## Pareto Chart



## Implementation

Root Cause	Intervention
<b>Cause 3:</b> Too many High Fall Risk Cubicle (HFRC)	<b>PDSA 1:</b> Reduce High Fall Risk Cubicles to 1 per wing Implementation Date: 1 Sep 2019
<b>Cause 1:</b> Inaccurate WHeFRA Assessment	<b>PDSA 2A:</b> Refresher on WHeFRA assessment based on internal audit (classroom sharing) Implementation Date: 2 Oct 2019  <b>PDSA 2B:</b> Fall Ra-Ra to reinforce practices and initiatives Implementation Date: 1 Nov 2019

## Results



## Cost Avoidance

	Year 2018	Year 2019	Year 2020
<b>Number of Level 3 Injury related to Falls</b>	1	0	0
<b>Impact</b>	Patient stayed in hospital for another 3 weeks then transferred to Nursing Home	-	-
<b>Cost Avoidance</b>	(3 weeks x 7 Days) x \$1,114 = <b>\$23,394</b>		

**Note:** Unit Cost for Inpatient Stay Per Day Per Patient in TTSH = \$1,114

## Problems Encountered

1. Need to do multiple sharing to reach out to large group of nurses
2. Every healthcare workers play a part in fall prevention

## Strategies to Sustain

1. Continue monthly random audit on WHeFRA documentation
2. Unit based orientation for new joiners in the department on new initiatives for compliance
3. Active screening and cohorting of high fall risk patients to fall risk cubicle
4. 6 Monthly Fall Ra-Ra