

CHI Learning & Development (CHILD) System

Project Title

Improving Ng Teng Fong General Hospital (NTFGH) Stroke MBI Workflow for Patient Care

Project Lead and Members

Project lead: Nur Hafizah Mohd Amin

Project members: Kelly Chan, Fadhlina Hassan, Maznah Marmin, Sheryl Yong, Patricia

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Organisation(s) Involved

Ng Teng Fong General Hospital

Healthcare Family Group Involved in this Project

Allied Health

Applicable Specialty or Discipline

Neurology, Physiotherapy, Occupational Therapy

Aims

Only **52%** of MBI data were completed for Stroke Integrated Care Pathway (ICP) monitoring between Apr 2018 to Mar 2019. This is below the hospital's target of 100% for completion of data. As of Jan 2019: Our short-term goal was to reach **70%** completion by 31 Dec 2019.

Background

See poster appended/below

Methods

See poster appended/ below



CHI Learning & Development (CHILD) System

Results

See poster appended/ below

Lessons Learnt

Collaboration amongst relevant stakeholders in aligning expectations & standards of a team-based care delivery was crucial in enabling this project.

Conclusion

Standardization of early referral and MBI documentation to AHS to enhance functional recovery of stroke patients.

Project Category

Care Continuum, Inpatient Care, Rehabilitative Care

Keywords

Modified Barthel Index, functional outcomes

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IMPROVING NTFGH STROKE MBI WORKFLOW FOR PATIENT CARE

MEMBERS: HAFIZAH AMIN, KELLY CHAN, FADHLINA HASSAN, MAZNAH MARMIN, SHERYL YONG, PATRICIA LIM, LYON LOO, ABDUL RASHID JAILANI

SAFETY
QUALITY
PATIENT
EXPERIENCE



Define Problem, Set Aim

Modified Barthel Index (MBI)					
Chair/bed transfers					
Ambulation Stair climbing Ambulation (wheelchair) Toileting Bowel control Bladder control					
			Bathing		
			Dressing Personal hygiene		

MBI is an objective tool that tracks the functional recovery of stroke patients.

This include all ischemic & hemorrhagic stroke patients admitted & discharged from NTFGH.

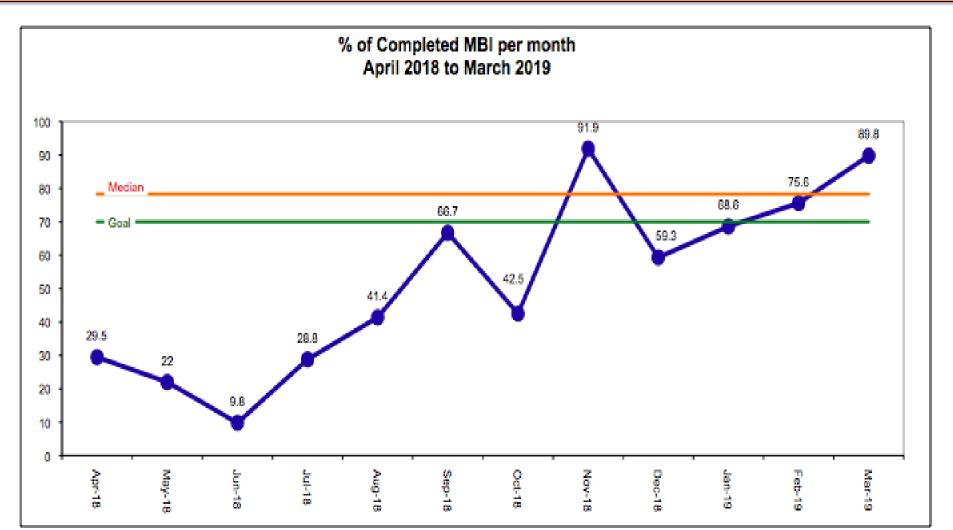
An incomplete MBI makes it difficult to prognosticate duration of rehabilitation & discharge destination for patients.

Unnecessary time is also spent to trace incomplete data retrospectively.

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Establish Measures



Process Measure:

% of monthly completed premorbid, admission & discharge MBI

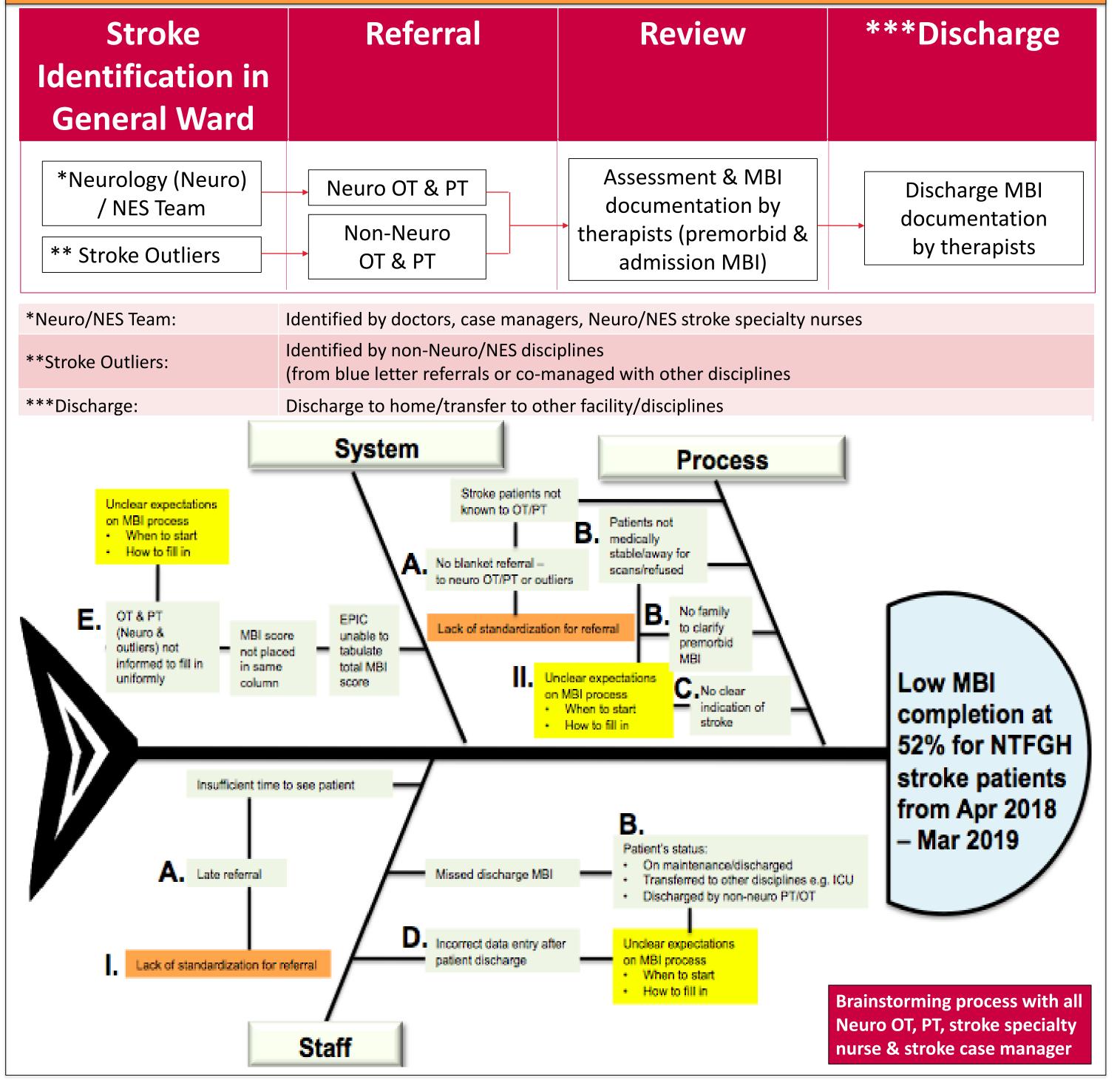
Balancing Measure:

Increase in therapists' time for other direct patient-related tasks

Outcome Measure:

% of monthly completed MBI data

Analyse Problem



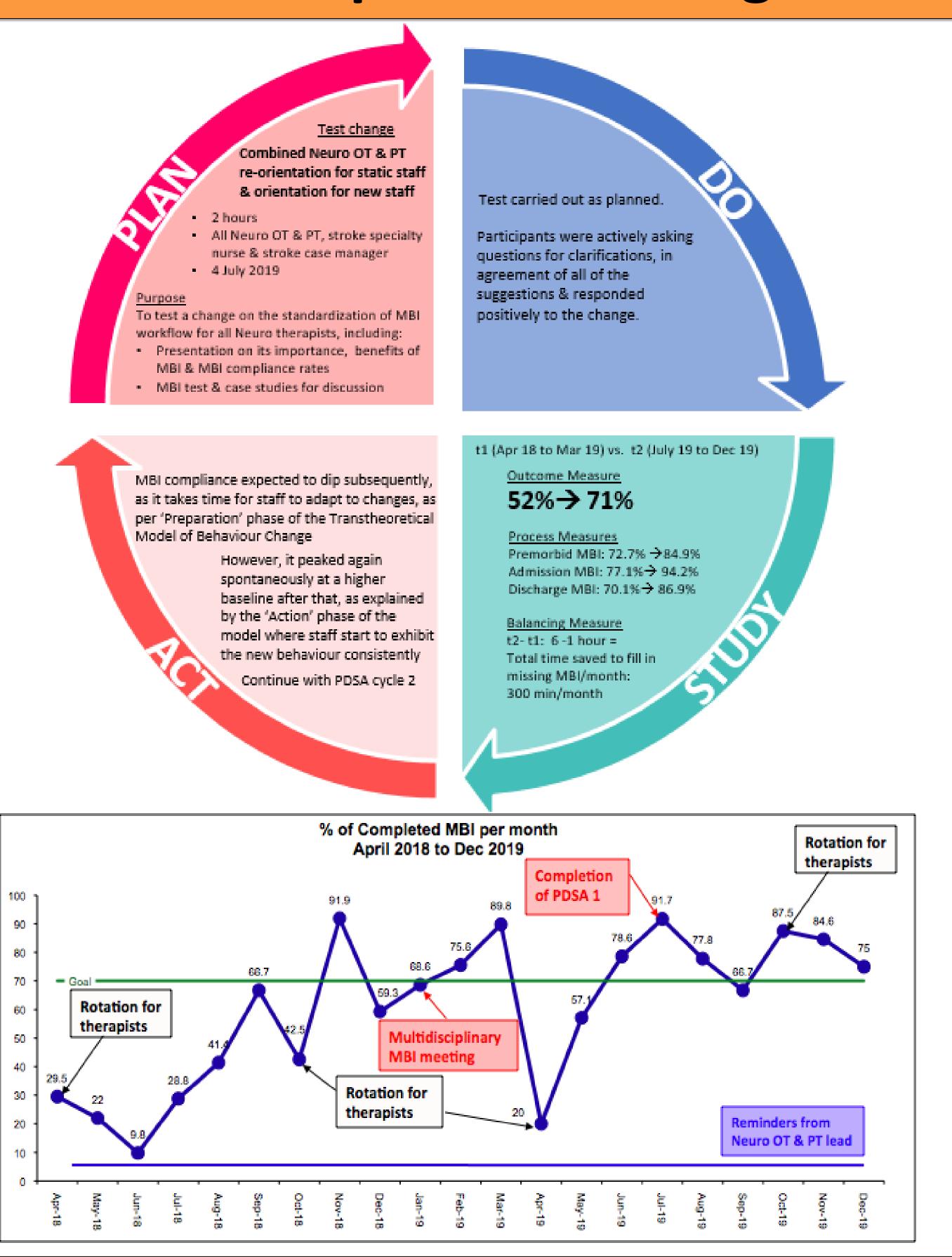
Ng Teng Fong General Hospital



Select Changes

Root Cause		Solution		
I.	Lack of standardization for referral	 Consensus reached during a multidisciplinary Neuro doctors to refer to therapists early Ensure blanket referrals to both OT & PT fo 		
Ro	Root Cause Solutions			
II.	Unclear expectations on MBI process	 Standardization on MBI documentation for Net Expectations & indications for scoring What to do in common & atypical patient s Therapists to have their own patient list & other the list to prevent missing discharge MBI do 	cenarios drag all new referrals into	
D. • Coordination a		 Therapists to check with stroke case management whether patient has a stroke, if diagnosis of the control of the		
		 Coordination amongst Neuro OT & PT on a patient discharge 	ccurate data entry upon	
		 Neuro OT & PT lead to inform non-Neuro the fill in MBI Coordination amongst Neuro OT & PT in scorect tabulation 		
		 Combined Neuro OT & PT re-orientation fo for new staff 	r static staff & orientation	

Test & Implement Changes



Spread Changes, Learning Points

Possible strategies to spread changes after implementation include:

- Continue PDSA cycle 2, but for a longer duration up to 1 year, with re-orientation at every 3 months mark of rotation for sustainability.
- If sustainable, apply to other outcome measures e.g. One-Rehab outcomes.

Key learnings from this project:

 Collaboration amongst relevant stakeholders in aligning expectations & standards of a team-based care delivery was crucial in enabling this project.