

Project Title

Improving Post Stroke Depression Screening Rate using Hospital Anxiety Depression Scale (HADS)

Project Lead and Members

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Project members: Dr Elaine Jumalon, Dr Li Hanzhi, Dr Yong Kuan Yew, Dr Domineck Ramos, Dr Chua Chi Siong, Dr Kelvin Koh, Ms Jasmine Chua, Ms Sofiah Binte Saharudin

Organisation(s) Involved

Jurong Community Hospital

Healthcare Family Group(s) Involved in this Project

Medical

Applicable Specialty or Discipline

Neurology

Aims

JCH C10 Stroke Rehabilitation Unit to achieve post stroke depression screening rate using HADS within 2 working days from <10% to 80%, for all newly admitted stroke admissions to C10, by mid October 2021. This is to allow better detection and early treatment of post stroke depression.

Background

See poster appended/below

Methods

See poster appended/below



Results

See poster appended/ below

Lessons Learnt

a) Multi-modality approaches using smartphase clerking template, structured regular

ward based orientation program, visual reminders on computers were effective in

improving the post stroke depression screening rate with sustainable results.

b) There will be a need to review future strategies if post stroke depression screening is

to be rolled out to the rest of JCH wards to ensure sustainability and ease of

administration.

c) There will also be a need to review translation of HADS into other languages to aid in

its administration.

Conclusion

See poster appended/below

Project Category

Care & Process Redesign

Safe Care, Adherence Rate

Keywords

Post Stroke Depression Screening, Hospital Anxiety Depression Scale

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IMPROVING POST STROKE DEPRESSION SCREENING RATE USING HOSPITAL ANXIETY DEPRESSION SCALE (HADS)

MEMBERS: DR ELVINA TAY, DR ALVIN ONG, DR ELAINE JUMALON, DR LI HANZHI, DR YONG KUAN YEW, DR DOMINECK RAMOS

SPONSORS: DR CHUA CHI SIONG, DR KELVIN KOH

FACILITATORS: MS JASMINE CHUA, MS SOFIAH BINTE SAHARUDIN

Define Problem, Set Aim

Problem/Opportunity for Improvement

Screening for post stroke depression using a validated tool was conducted in fewer than 10% of stroke patients who were admitted to C10, JCH stroke rehabilitation unit, between October-November 2020.

Canadian Best Practice Recommendations 2015 stated that all patients with stroke should be screened for depressive symptoms, given the high prevalence of depression post-stroke and the stroke evidence for treating symptomatic depression post stroke. The early identification and treatment of post stroke depression is crucial as post stroke depression can affect functional outcomes.

<u>Aim</u>

JCH C10 Stroke Rehabilitation Unit to achieve post-stroke depression screening rate using HADS within 2 working days from <10% to 80%, for all newly admitted stroke admissions to C10, by mid October 2021. This is to allow better detection and early treatment of post-stroke depression.

Project Scope

JCH doctors to screen all new stroke patients who are admitted to JCH C10 Stroke Rehabilitation Unit for post-stroke depression, using the Hospital Anxiety and Depression Scale, within 2 working days.

 Inclusion Criteria
 All new stroke patients admitted to JCH C10 Stroke

Rehabilitation unit

Exclusion Criteria

- Old stroke history (diagnosed > 6 months ago)
- Re-admitted cases to C10 with HADS screened prior
- Medical instability within 2 working days of admission
- Severe aphasia and speech difficulties
- Significant psychiatric history of depression,
- Inability to follow 1 step commands and patients in disorders of consciousness (i.e. coma, vegetative state and minimally consciousness).
- consciousness (i.e. coma, vegetative state and minimally conscious state).

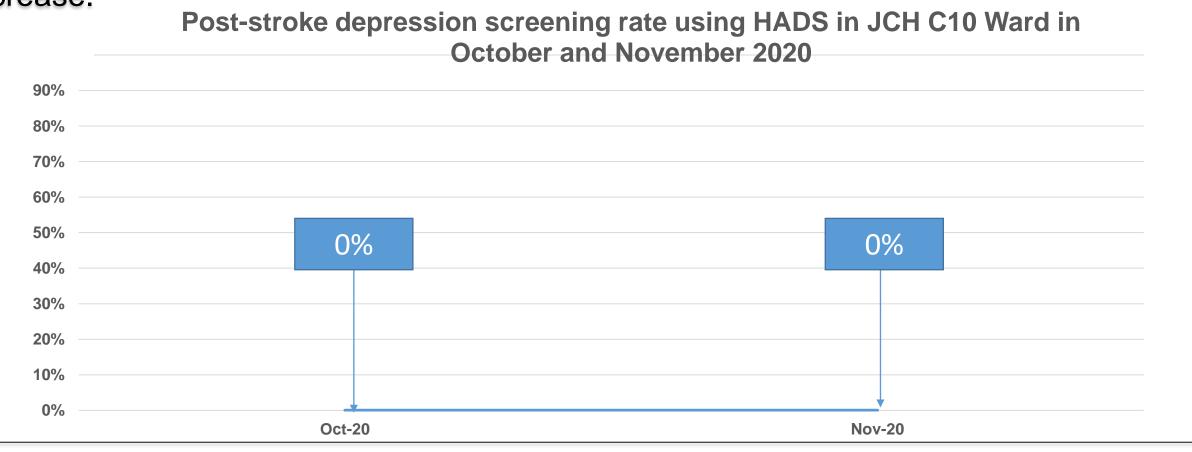
Establish Measures

What was your performance before interventions?

Outcome Measure: Average post stroke depression screening rate amongst stroke patients during their inpatient stay.

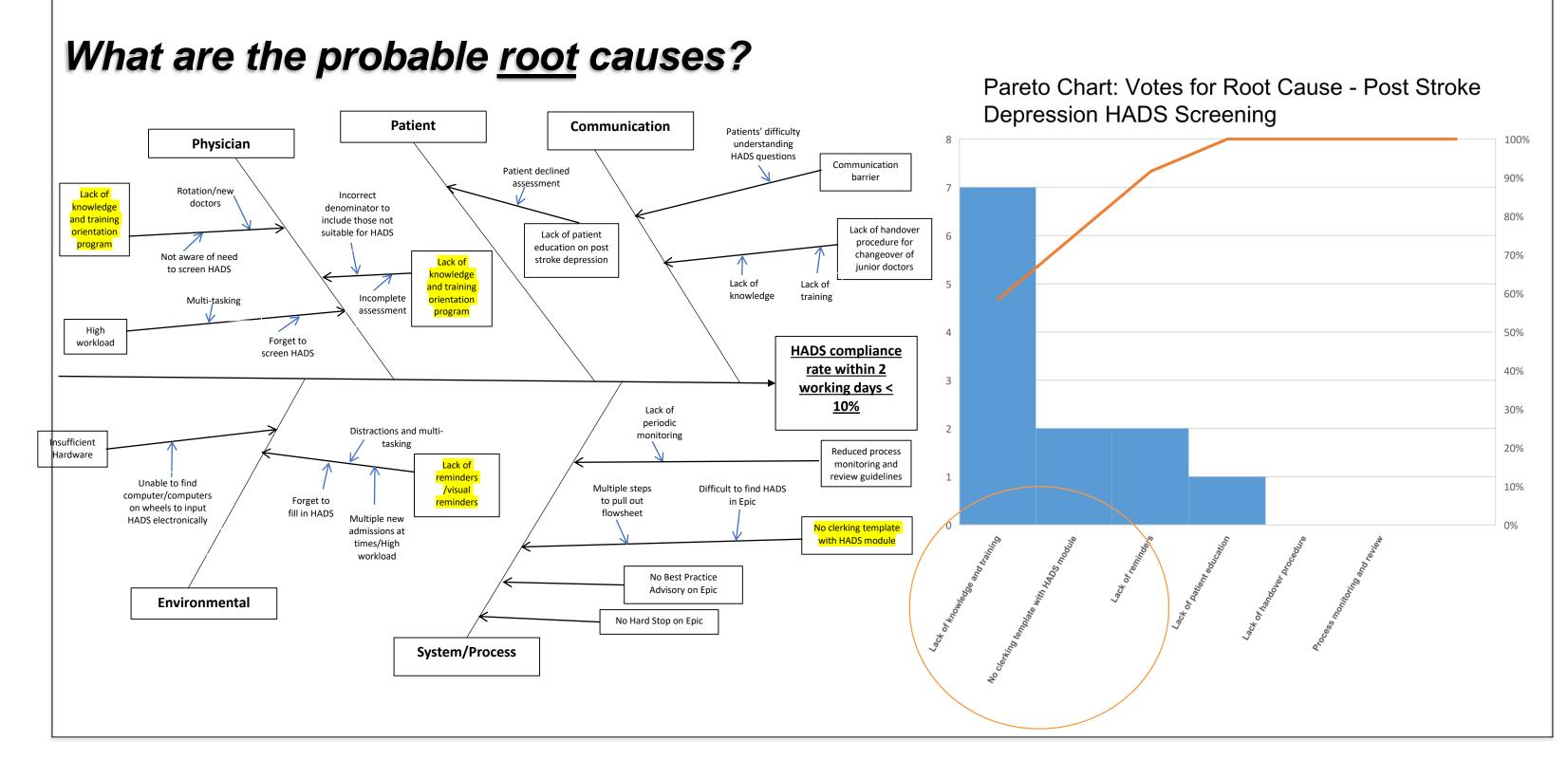
Process Measure: The percentage of all newly admitted stroke patients to C10, whom meet exclusion and inclusion criteria, with HADS score calculated within 2 working days and documented correctly in inpatient flowsheet.

Balancing Measure: For increasing the percentage of newly admitted stroke patients to C10 with HADS score administered, staff satisfaction does not decrease and time required for admission clerking does not significantly increase.



Analyse Problem

What is your process before interventions? Start HADS score not New admission to Jurong Community documented/captured in **Hospital Ward** system Doctor examine and assess patient nput HADS score in correct flowsheet and score filed Patient medically stable Suitable patient not No clear inclusion/exclusion criteria Post Stroke Depression screened for post for suitability of post stroke screening done using HADS stroke depression depression screening

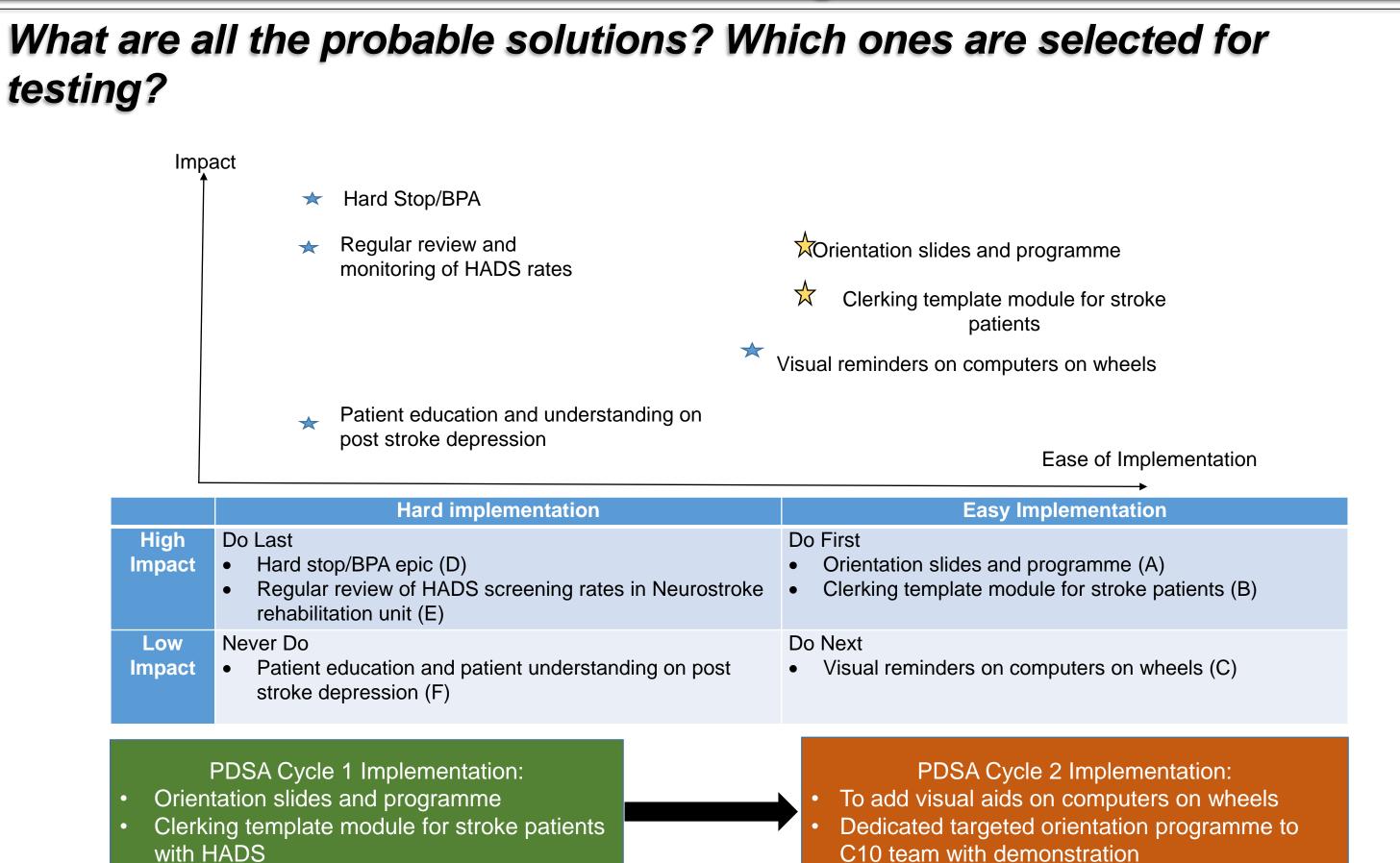






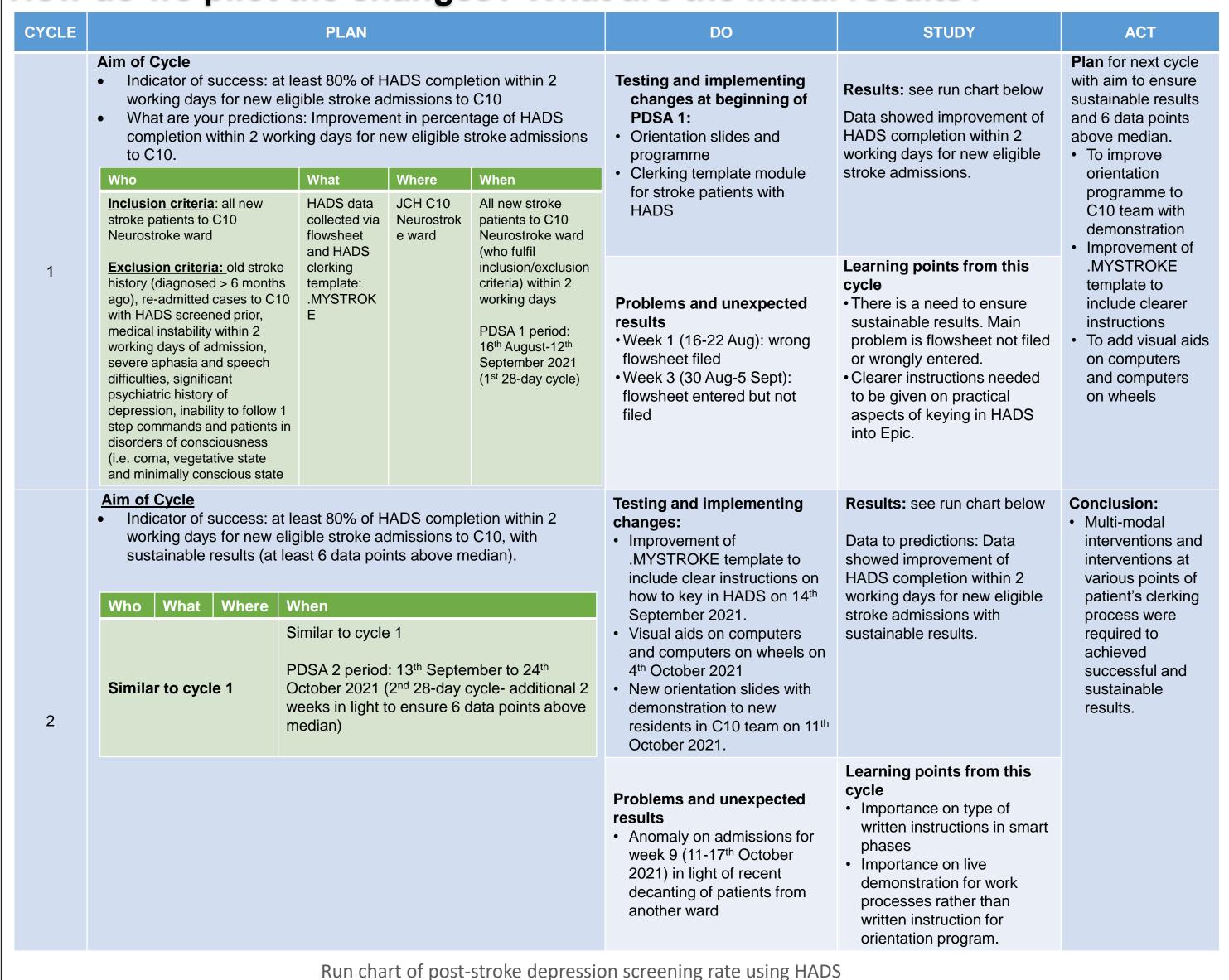
□ SAFETY □ PRODUCTIVITY ✓ QUALITY □ COST □ PATIENT EXPERIENCE

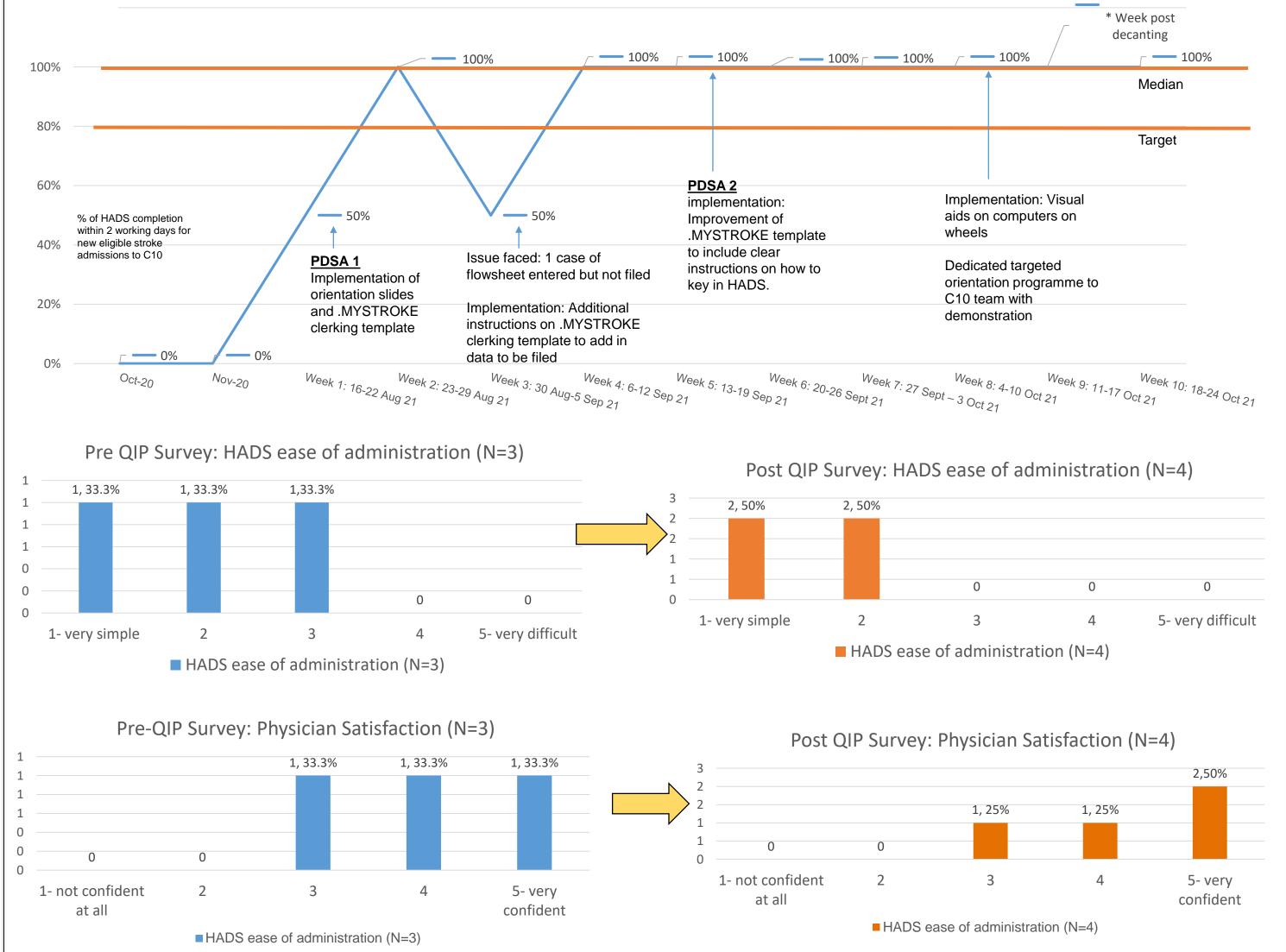
Select Changes



Test & Implement Changes

How do we pilot the changes? What are the initial results?





Spread Changes, Learning Points

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

- Presentation to QIP sponsors and department leaders
- Future presentation to PACC department to implement changes beyond JCH Neuro-stroke ward and to include poststroke depression screening as part of care plan for stroke patients in other JCH wards.
 - Potential to incorporate stroke clerking template and post stroke depression education into regular junior doctor orientation program.
- Guidelines on post stroke depression management using neurostroke EBM workgroup as a platform

What are the key learnings from this project?

- Multi-modality approaches using smartphase clerking template, structured regular ward based orientation program, visual reminders on computers were effective in improving the post stroke depression screening rate with sustainable results.
- These approaches also did not significantly affect balancing measure of clerking time and physician satisfaction.
 There will be a need to review future strategies if post stroke depression screening is to be rolled out to the rest of JCH
- wards to ensure sustainability and ease of administration.
- There will also be a need to review translation of HADS into other languages to aid in its administration.