CHI Learning & Development (CHILD) System



Project Title

Improving Nurses and Patient Care Associates' Compliance to Speech Therapy Electronic Meal Ordering System (EMOS) Comments

Project Lead and Members

Project lead: Chang Huey Fang

Project members: Wendy Sim, Ruth Yeoh

Organisation(s) Involved

Ng Teng Fong General Hospital

Healthcare Family Group Involved in this Project

Allied Health, Nursing

Applicable Specialty or Discipline

Nutrition & Dietetics

Aims

The Speech Therapy Department intends to increase Nurses and PCAs' compliance to ST EMOS comments to above 92% from Feb 2020 onwards to improve the safety of dysphagic patients. 92% was selected as a realistic short-term goal as we work towards our final target of 100%.

Background

See poster appended/below

Methods

See poster appended/ below

Results

See poster appended/ below



CENTRE FOR HEALTHCARE INNOVATION.

Lessons Learnt

Education sessions during roll call, provision of reference sheets, coupled with feedback of errors were effective in increasing nursing and PCAs' compliance to ST EMOS comments to above 92%.

Analysis of limitations can guide future system changes (change specific EMOS comment given persistent error).

Conclusion

See poster appended/ below

Project Category

Care & Process Redesign

Value Based Care, Safe Care, Adherence Rate

Training & Education

Keywords

Standardised EMOS comments

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[Restricted, Non-sensitive]

IMPROVING NURSES AND PATIENT CARE ASSOCIATES' COMPLIANCE TO SPEECH THERAPY EMOS COMMENTS

MEMBERS: CHANG HUEY FANG, WENDY SIM, RUTH YEOH

Define Problem, Set Aim

Problem/Opportunity for Improvement

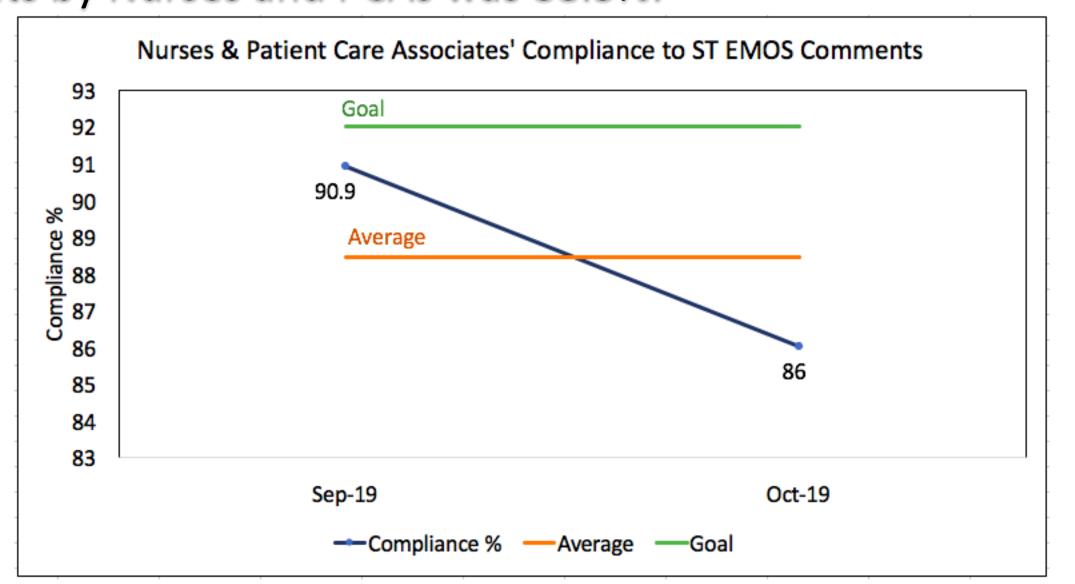
In NTFGH and JCH, Speech Therapists (STs) type out ST Electronic Meal Ordering System (EMOS) comments on EMOS to further restrict diet consistencies served to dysphagic patients. Non-compliance to ST EMOS comments when ordering diet on EMOS compromises patient safety as there is a risk of aspiration and subsequently aspiration pneumonia when patients receive incorrect diet consistencies. The average compliance rate to ST EMOS comments by Nurses and Patient Care Associates (PCAs) when ordering on EMOS between Sep and Oct 2019 was 88.5%.

Aim

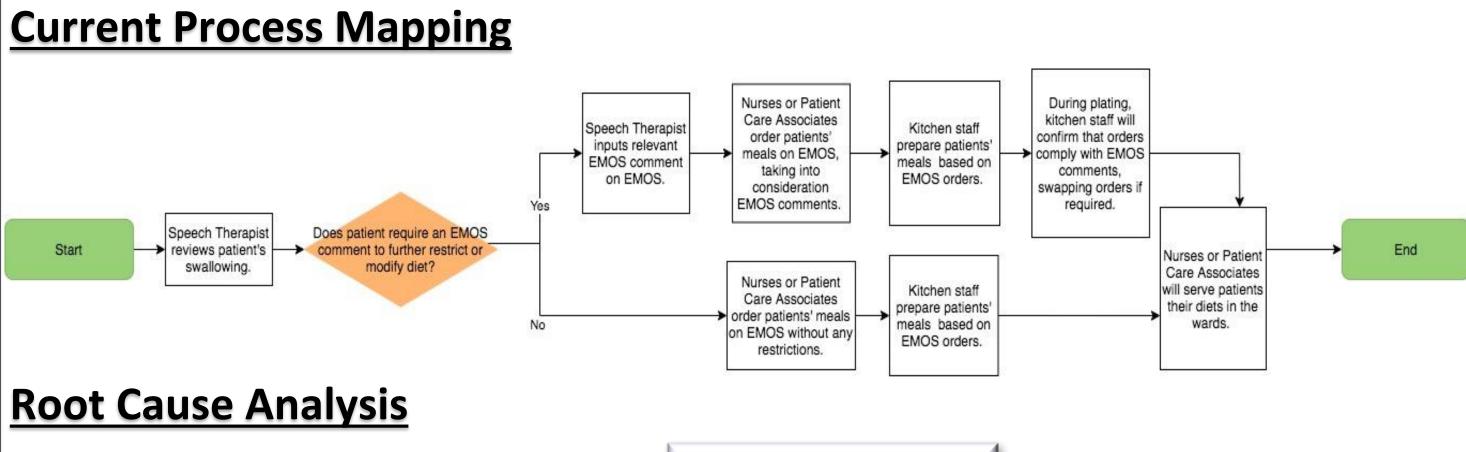
The Speech Therapy Department intends to increase Nurses and PCAs' compliance to ST EMOS comments to above 92% from Feb 2020 onwards to improve the safety of dysphagic patients. 92% was selected as a realistic short-term goal as we work towards our final target of 100%.

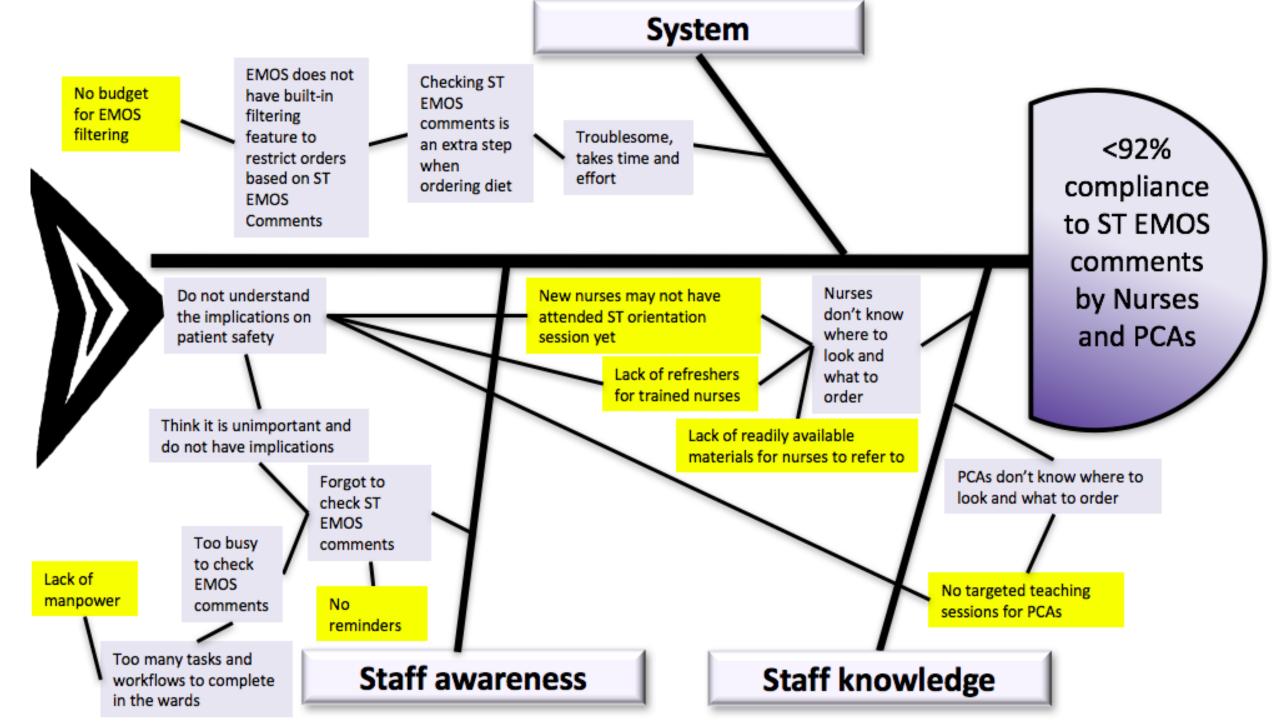
Establish Measures

Between Sep and Oct 2019, the average compliance rate to ST EMOS comments by Nurses and PCAs was 88.5%.

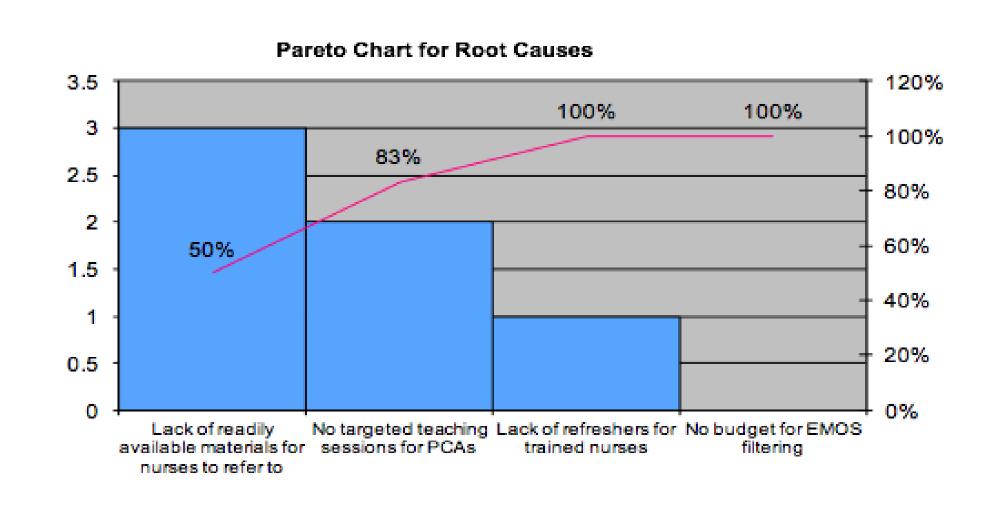


Analyse Problem





Pareto Chart







SAFETY
QUALITY
PATIENT
EXPERIENCE

□ PRODUCTIVITY□ COST☑ TEAMWORK☑ COMMUNICATION

Select Changes

| Root causes | Potential solutions | Priority ranking | _ | 4 5 | 1 2 | |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------|
| Lack of readily available materials for nurses to refer to | To provide laminated EMOS comments reference sheets to put up around each ward for Nurses and Patient Care Associates to refer to when ordering diets on EMOS. | 1 | act | Do Last 6 Never Do | Do Firs 3 Do Nex | |
| No targeted teaching sessions for PCAs | To include PCAs in an adapted ST nursing orientation training sessions (which also covers EMOS comments). | 4 | Hard Easy Implementation | | | |
| | All Ward STs to conduct once-off short education session focussing on EMOS comments during ward roll calls . | 2 | ST EMOS Comments Reference Sheet for Nurses and PCAs Diet ST comments in EMOS What this means Regular/ (ST DD/MM/YY: no mixed consistencies e.g. watermelon, mui fan) Do not order: - mui fan - bee hoon soto | | | |
| Lack of refreshers for trained nurses | All Ward STs to conduct once-off short education session focussing on EMOS comments during ward roll calls . | 3 | | DD/MM/YY: allow normal DD/MM/YY: no pasta) DD/MM/YY: congee/porric DD/MM/YY: congee/oats | rice) No act Do not dge/oats only) Do not only) Do not porrid | |
| | To conduct ST nursing refresher training sessions for ward nurses in all wards. | 5 | (ST_pude | DD/MM/YY: no tofu, steam | ned egg, Do not egg or No act | t order tofu, steame pudding ion required t order ice cream or |
| No budget for EMOS filtering | To request for budget for EMOS filtering | 6 | | | | |

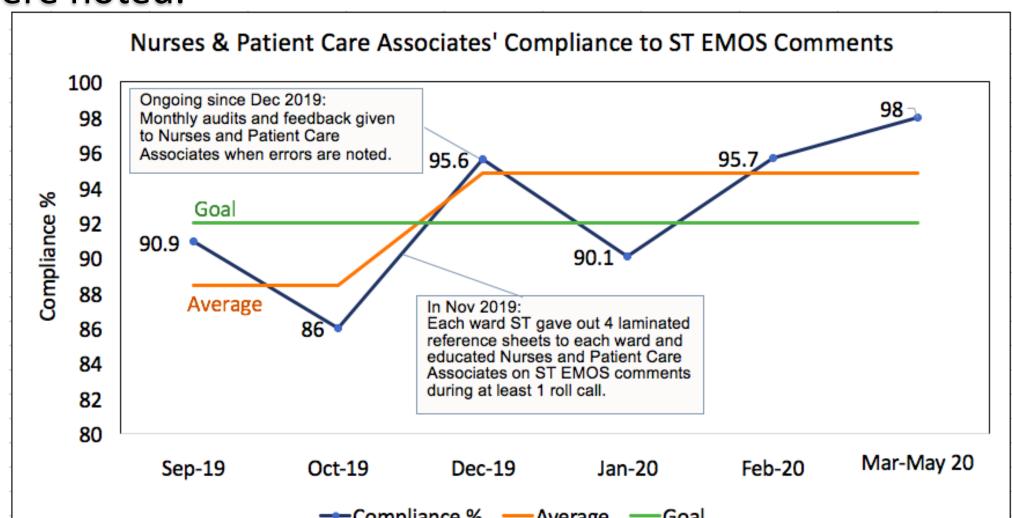
Test & Implement Changes

PLAN: The aim is to increase nursing and PCA compliance to ST EMOS comments to at least 92% by Feb 2020 through roll call education sessions in all wards and provision of reference sheets.

DO:

- In Nov 2019, Ward STs conducted education sessions for Nurses and PCAs in every ward during at least 1 ward roll call. Education session provided information such as where to check ST EMOS comments, how to interpret each ST EMOS comment, common pitfalls and implication of non-compliance on patient safety.
- During each roll call education session, Ward STs distributed 4 laminated reference sheets. These were put up around the wards, on nursing counters and COWs used to order patients' diets.
- Since Dec 2019, ongoing audit and feedback given to nurses and PCAs when errors were noted.

STUDY:



- Compliance increased to 95.7% in Feb 2020 and 98% during follow-up quarterly monitoring between Mar and May 2020. Compliance rate reached an average of 94.9% between Dec 2019 and May 2020.
- Further analysis of the nature of errors revealed that errors pertaining to 'no mixed consistencies' EMOS comment decreased from 42.1% to 0% while errors pertaining to 'congee/porridge/oats only' EMOS comment increased from 47.5% to 94.7%.

ACT:

- To continue with quarterly audits and feedback of errors. Ongoing close monitoring of compliance as dip may indicate need for repeat roll call education sessions or new maintenance strategies.
- In view of persistent errors, to replace 'congee/porridge/oats only' with 'no soft rice' when updating EMOS comments for upcoming alignment with IDDSI (International Dysphagia Diet Standardisation Initiative) in Jan 2021.
- To work on moving education sessions online to eLearning platforms for a more sustainable and efficient approach.
- To explore with relevant stakeholders regarding feasibility of building EMOS filtering based on ST EMOS comments during NGEMR transition in order to automate the ordering process and eliminate human error.

Spread Changes, Learning Points

- Education sessions during roll call, provision of reference sheets, coupled with feedback of errors were effective in increasing nursing and PCAs' compliance to ST EMOS comments to above 92%.
- Capitalising on solution that can potentially target 2 root causes can facilitate efficiency and effectiveness (i.e. roll call education session for both PCAs and nurses).
- Analysis of limitations can guide future system changes (change specific EMOS comment given persistent error).
- To collect more baseline data during project design for a more representative baseline measure.