

## CHI Learning & Development System (CHILD)

### **Project Title**

Supervised Feeding in the Geriatric Ward

### **Project Lead and Members**

Project Lead: Jasmine Boo Pei Ling

Project members: Dr Castillo Baby Clemencia Gonda, Yong Xing Tong, Florence Tang

Mei Ai, Parveen Kaur Nijer, Elamparo Ingelyn Inciong & Ong Siew Chen

## Organisation(s) Involved

Tan Tock Seng Hospital

## **Project Period**

Start date: 01-2018

Completed date: 08-2018

#### **Aims**

To increase the percentage of patients who receive supervised feeding in a Tan Tock Seng geriatric ward (7C) from 15.5% to 100% in 6 months during lunch time

#### Background

Dependence for oral feeding is a significant predictor of pneumonia (Langmore et al, 1998; Terpenning et al, 2001). Choking incident/ sentinel event 10 years ago led to the establishment of supervised feeding guidelines: Patients who requires compliance to use of swallow strategies, patients who are impulsive and at risk of choking due to cognitive or behavioural issues. Ground sensing from the department that supervised feeding was not carried out as per ordered. Currently observed in the wards: Patient self-feeding, fed by family and nurses not available at bedside observing entire meal.



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#### Methods

Team identify the cause of the ward not following the supervised feeding guideline and the top 3 cases are: Feeding guideline unclear about who can feed, lack of knowledge on supervised feeding and there no written guidelines or protocol on supervised feeding. Intervention were then introduced to tackle the causes. Firstly, to reinforce guidelines and increase awareness via in-service training and weekly roll call. Next, guidelines rolled out to STs to guide recommendations of supervised versus assisted feeding.

#### Results

With the intervention, the team achieved 100% supervised feeding from the original median of 15.5% in 1 month of intervention. Based on weekly number of inappropriate recommendations, the number from 6 drop to 1 with estimation to save inappropriate recommendation costing of \$11K per year. However, the perfect percentage lasted for a month before it declines again, this suggest more intervention or reminder is needed.

#### **Lessons Learnt**

See poster appended/ below

#### Conclusion

Having perfect percentage for the ward to take up supervised feeding was achievable with interventions in place. Constant reminders and effort are needed to ensure every patients who needed supervised feeding receive it.

### **Project Category**

Quality Improvement, Process Improvement, Safety

## Keywords

Quality Improvement, Process Improvement, Pareto Chart, Cause and Effect Diagram, Safe Care, Cost Savings, Allied Health, Nursing, Geriatric Medicine, Tan Tock Seng



# CHI Learning & Development System (CHILD)

Hospital, Speech Therapy, Supervised Feeding, Swallowing Intervention, Feeding Protocol

# Name and Email of Project Contact Person(s)

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# SUPERVISED FEEDING IN THE GERIATRIC WARD

# **N**ational Healthcare Group

Ms Jasmine Boo Pei Ling **Department of Speech Therapy** 

Adding years of healthy life

### **Mission Statement**

To increase the percentage of patients\* who receive supervised feeding+ in a geriatric ward (7C) from 15.5% to 100% in 6 months during lunch time

- Inclusionary criteria: Lunch period from 1130-1300
- Exclusionary criteria: Not in wards (eg. away for scans/downstairs with family), NBM status or currently being seen by ST for meal-time assessment.
- \* Patients who have supervised feeding ordered by ST/ Doctor on Aurora
- + Supervised feeding: Ordered on Aurora & SN/RN observing and supervising the patient's entire meal

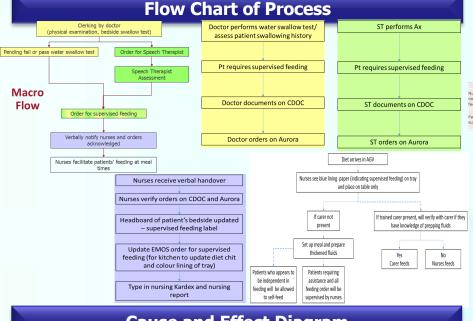
Team Members					
	Name	Designation	Department		
Team Leader	Jasmine Boo Pei Ling	Senior Speech Therapist	Speech Therapy		
Team Members	Dr Castillo Baby Clemencia Gonda	Medical Officer	Geriatric Medicine		
	Yong Xing Tong	Speech Therapist	Speech Therapy		
	Florence Tang Mei Ai	Speech Therapist	Speech Therapy		
	Parveen Kaur Nijer	Senior Staff Nurse	Level 7		
	Elamparo Ingelyn Inciong	Assistant Nurse	Level 7		
	Ong Siew Chen	Nursing Educator	Nursing Service		

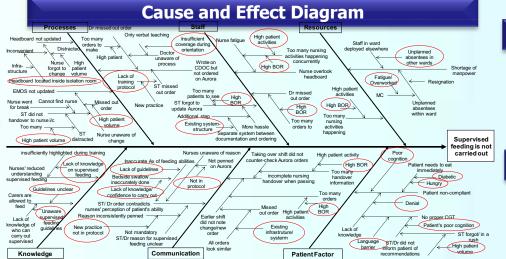
#### Sponsor: Zenne T'ng Kuan Chen (Head of Department, Speech Therapy)

#### **Evidence for a Problem Worth Solving**

- Dependence for oral feeding is a significant predictor of pneumonia (Langmore et
- al, 1998; Terpenning et al, 2001) Choking incident/ sentinel event 10 years ago led to the establishment of supervised feeding guidelines:
  Patients who requires compliance to use of swallow strategies
- > Patients who are impulsive and at risk of choking due to cognitive or behavioural issues
- Ground sensing from the department that supervised feeding is not carried out as per ordered. Currently observed in the wards:
- Patient feeding self
- > Fed by family
- > Nurses not available at bedside observing entire meal

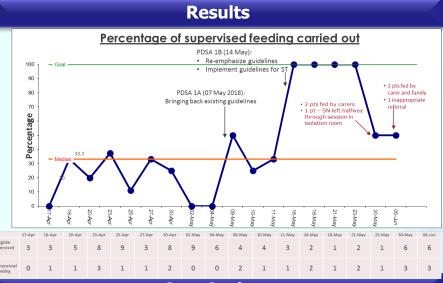






# **Pareto Chart** Cause 3 Supervised feeding guidelines unclear about who can feed Lack of knowledge covered during nurses training No written guidelines/protocol for ST/Drs on when to order supervised feeding Cause Cause Unaware of supervised feeding guidelines High bed occupancy rate No protocol to tell STs to write reasons for supervised feeding on Aurora Cause Cause Cause Cause Cause Cause 3 10 9 4 2 1 8

Implementation				
CAUSE / PROBLEM (refer to Pareto Chart)	INTERVENTION	DATE OF IMPLEMENTATION		
Cause 3: Feeding guideline unclear about who can feed  Cause 10: Lack of knowledge on supervised feeding (from survey administered earlier — nurses are not fully aware of why, when and who to carry out supervised feeding)	To bring back existing guideline recommendation with the aim to reinforce guidelines and increase awareness though: -In-service training -Roll call for the week	07 May 2018 (PDSA cycle 1A)		
Cause 9:  No written guidelines/protocol for ST/Drs on when to order supervised feeding	Guidelines rolled out to STs to guide recommendations of supervised versus assisted feeding	14 May 2018 (PDSA cycle 1B)		



Cost Savings				
	Pre-Intervention	Post-Intervention		
No. of Inappropriate Recommendation (Per Week)	6	1		
Total No. of Inappropriate	6 x 52	1 x 52		
Recommendation (Annualized)	= 312	= <b>52</b>		
Estimated Cost of Inappropriate	312 x \$43.65	52 x \$43.65		
Recommendation (Annualized)	= \$13,681.80	= \$2,269.80		
Cost Avoidance for Inappropriate	\$2,269.80 - \$13,681.80			
Recommendation (Annualized)	= <b>-\$11,412.00</b>			

## **Lessons Learnt**

- Team coordination and the importance of teamwork
- Flexibility and to embrace change

  - Multi-voting over watsapp
    Deviation from original problem found
- Time management
- Perseverance through panel feedback
- Useful tools that may be extended to other aspects of work CPIP project does not just end here .....

# **Strategies to Sustain**

- ST to train carers to carry out supervised feeding:

  Identify key family members/main carers

  Train carers in 2 sessions
- Supervised feeding champion in the ward (Nurse)
- Train-the-trainer program for supervised feeding
   Empowering nurses to be able to train carers to carry out supervised feeding
   Certifying competency
   Implementation for intake/output chart to record who fed patient to facilitate data collection