

# **Frequency of**

# **Swallowing Intervention** for Patients with Nasogastric Tube **Ms Chok See San Department of Speech Therapy**



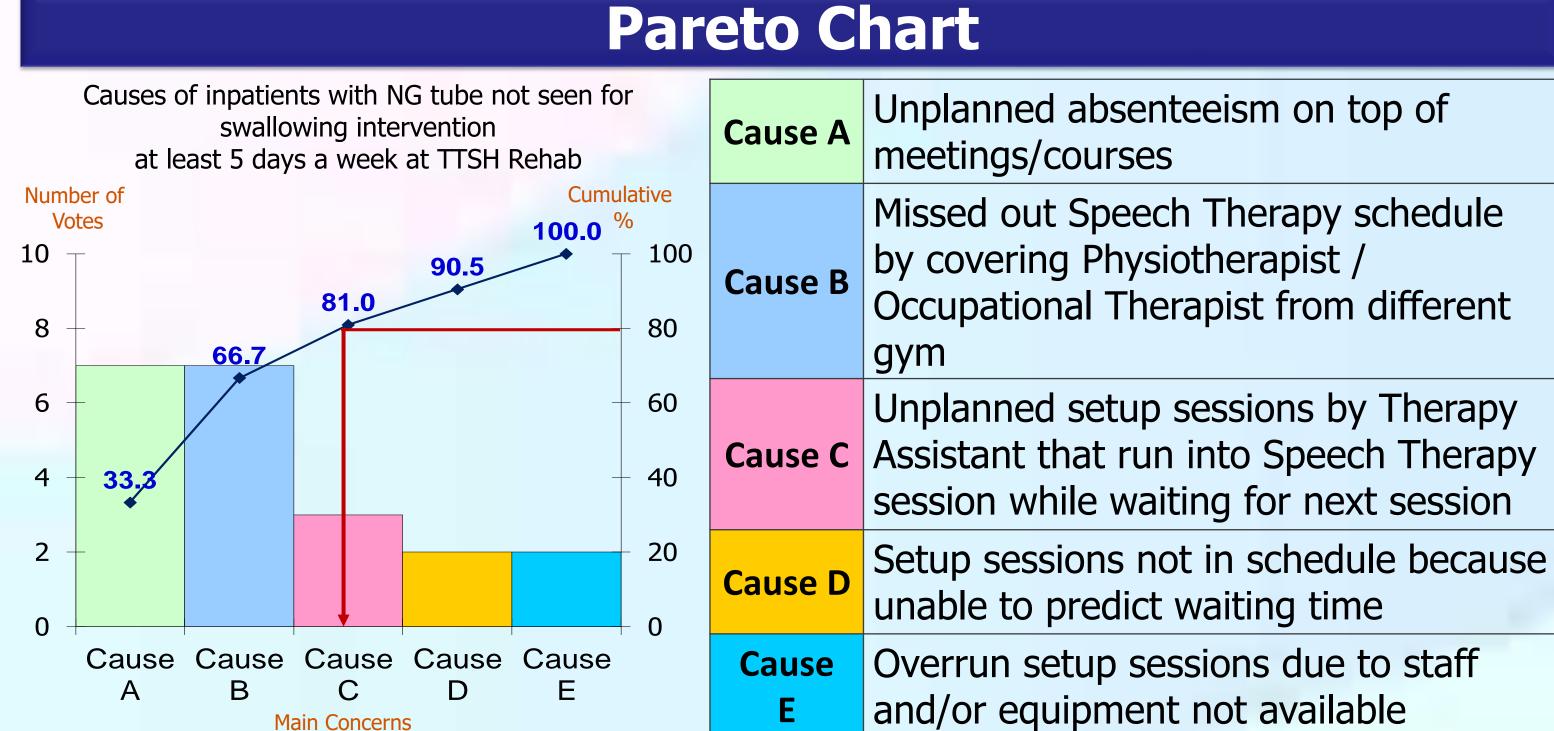
Adding years of healthy life

### **Mission Statement**

To improve percentage of \*eligible inpatients with nasogastric (NG) tube at TTSH Rehab Centre who receive swallowing intervention at least 5 days a week from <50% to 100% within 6 months

\*Eligible inpatients with NG tube: No changes in medical conditions, not on NG tube > 6 months, willing to participate in swallowing intervention.

| Team Members |      |             |            |  |
|--------------|------|-------------|------------|--|
|              | Name | Designation | Department |  |
|              |      |             |            |  |

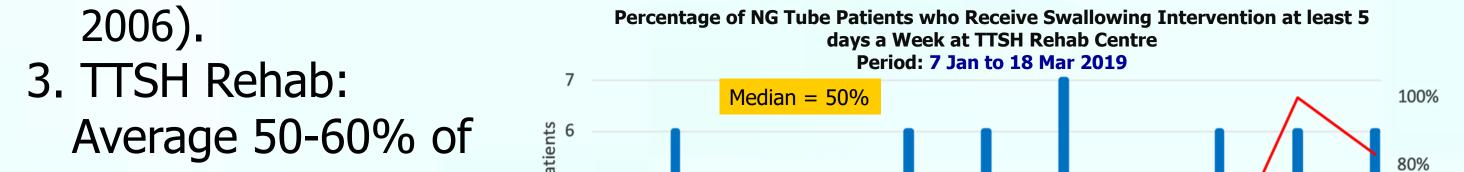


| leam Leader     | Ms Chok See San         |      | Speech Therapist                | Speech Therapy |
|-----------------|-------------------------|------|---------------------------------|----------------|
| Team<br>Members | Ms Ng Seok Kheng        |      | Speech Therapist<br>(Unit Head) | Rehab Centre   |
|                 | Ms Koh Kai Ting         |      | Speech Therapist                | Rehab Centre   |
|                 | Ms Tay Wan Yi           |      | Healthcare Assistant            | Rehab Centre   |
|                 | Ms Lim Yoke Sim         |      | Physiotherapist                 | Rehab Centre   |
|                 | Dr Jocelyn Thio Mei Lin |      | Rehab Physician                 | Rehab Centre   |
|                 | Ms Nooryati Binte Yaya  |      | Therapy Assistant               | Rehab Centre   |
| Sponsor         | Ms Sharon Sew Woan Y    | 'een | Head of Service                 | Rehab Centre   |
|                 |                         |      |                                 |                |

**Mentor/Sponsor**: Ms Zenne Tng Kuan Chen (Head of Service, Speech Therapy)

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

- 1. Most stroke patients recover from dysphagia within first 4 weeks, although 15% of them may develop long term swallowing difficulties (Enteral Tube Feeding for Dysphagic Stroke Patients, 2015).
- 2. High-intensity therapy was associated with an increased proportion of patients who returned to a normal diet by 6 months (Behavioral Intervention for dysphagia in acute stroke: a randomized controlled trial,



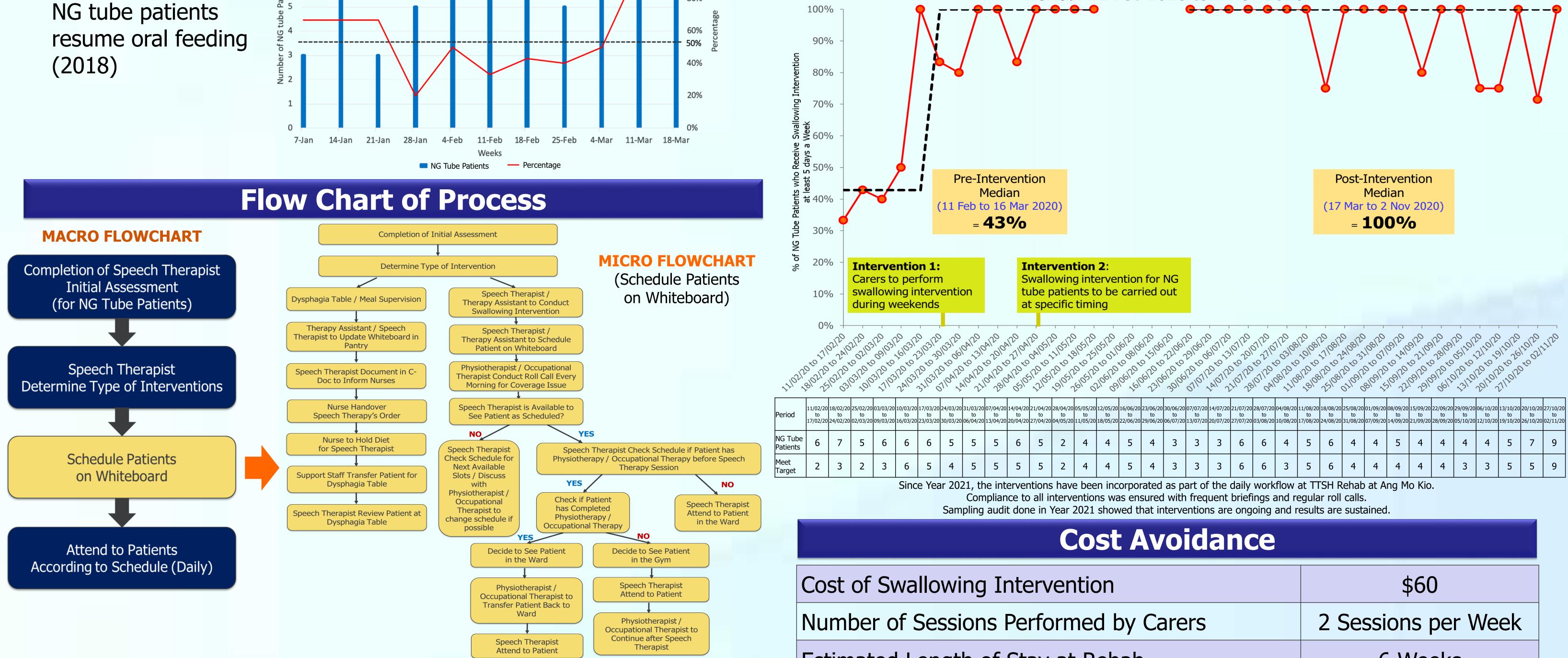
and/or equipment not available

#### Implementation

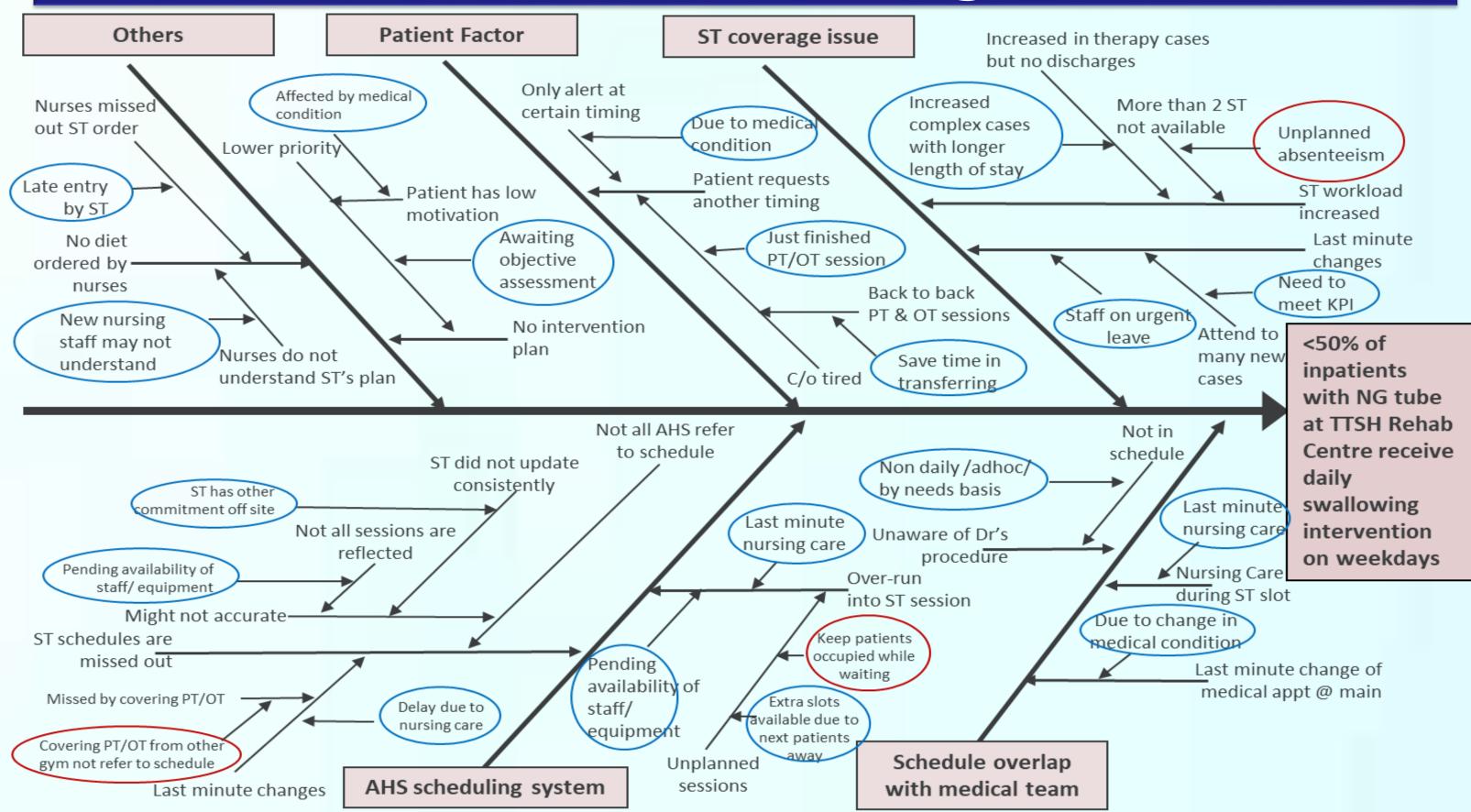
| Root Cause  | Intervention   | Implementation<br>Date |
|---|--|------------------------|
| <b>Cause A</b> : Unplanned absenteeism on top of meeting/courses  | Intervention 1:<br>Carers to perform<br>swallowing<br>intervention during<br>weekends                            | 18 Mar 2019            |
| <b>Cause B</b> : Missed out Speech Therapy<br>schedule by covering Physiotherapist /<br>Occupational Therapist from different gym<br><b>Cause C</b> : Unplanned setup sessions by<br>Therapy Assistant that run into Speech<br>Therapy session while waiting for next session | Intervention 2:<br>Swallowing<br>intervention for NG<br>tube patients to be<br>carried out at<br>specific timing | 22 Apr 2019            |

#### Results

Percentage of NG Tube Patients who Receive Swallowing Intervention at least 5 days a Week at TTSH Rehab Centre Period: 11 Feb 2020 to 2 Nov 2020



# **Cause and Effect Diagram**



| Cost of Swallowing Intervention  | \$60                |  |  |  |  |
|--|---------------------|--|--|--|--|
| Number of Sessions Performed by Carers   | 2 Sessions per Week |  |  |  |  |
| Estimated Length of Stay at Rehab  | 6 Weeks             |  |  |  |  |
| Average Number of NG Tube Patients Per Week  | 5                   |  |  |  |  |
| Potential Cost Avoidance in 6 weeks:<br>$$60 \times 2 \times 6 \times 5$<br>= <b>\$3,600</b>   |                     |  |  |  |  |
| Lessons Learnt   |                     |  |  |  |  |
| <ol> <li>Discussion via WhatsApp - not as efficient as what we thought it<br/>would be</li> <li>Assumptions made - all team members understand the workflow</li> </ol> |                     |  |  |  |  |

3. Multiple communications to different stakeholders are needed

## **Strategies to Sustain**

- 1. Share the outcomes of project with various stakeholders
- 2. Discuss with Therapy Assistant Coordinators to involve other Therapy Assistants in this program
- 3. Continuous results monitoring. Reassess periodically. Seek Feedback.