

# National Quality Improvement Conference

## Managing Longstayers at NTFGH

Dr Norhisham Main (Project Lead)  
<norhisham\_main@nuhs.edu.sg>



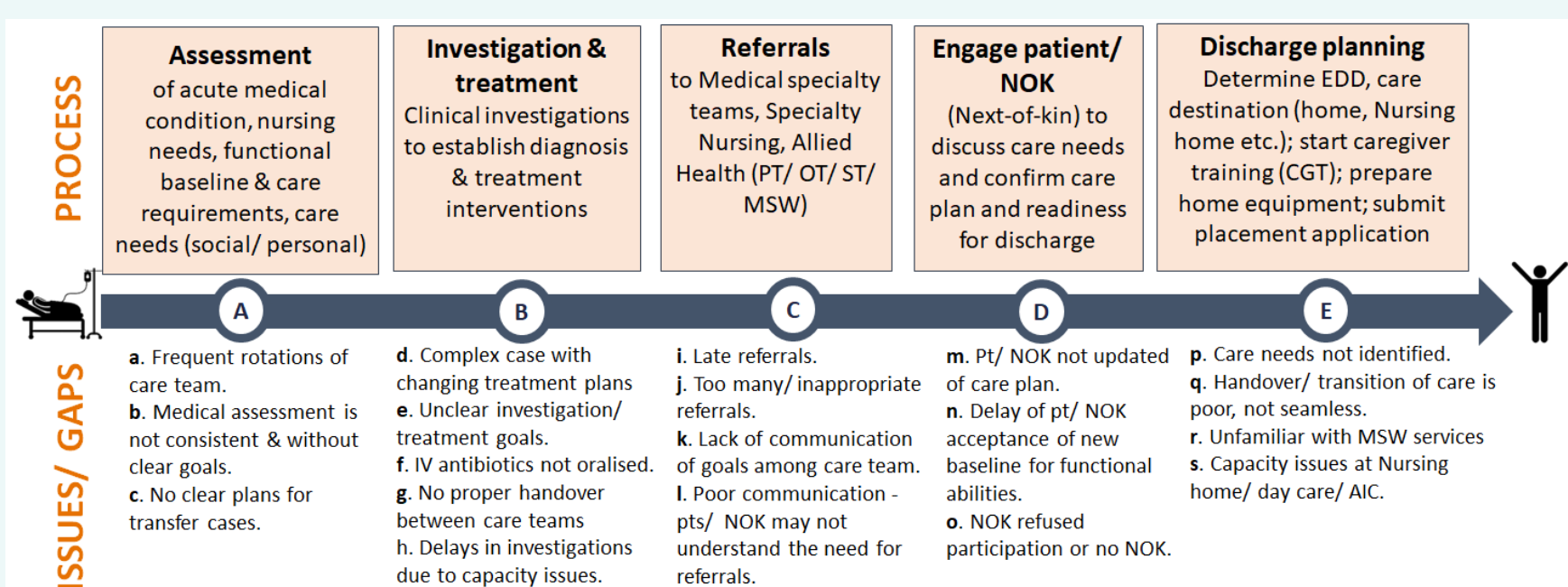
Mr Pang Lu Kiat (Project Manager)  
<pang\_lu\_kiat@nuhs.edu.sg>



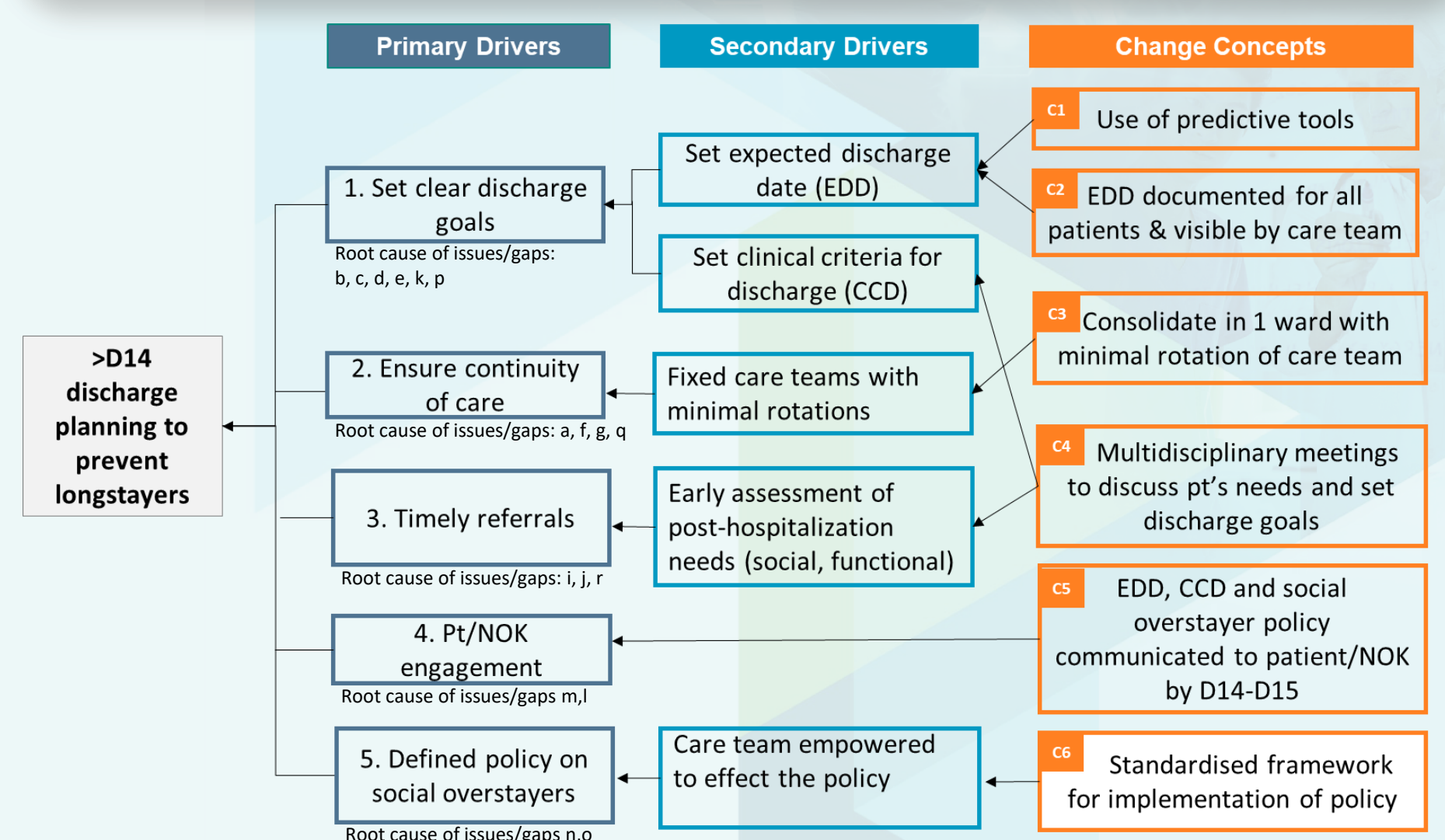
### Problem Statement

While only 3% of all inpatients are longstayers (LOS > 21 days), they occupied 1 in 4 beds. Managing longstayers reduces unnecessary prolonged hospital stays & improve patient outcomes. It also optimise BOR and reduce ALOS for the hospital.

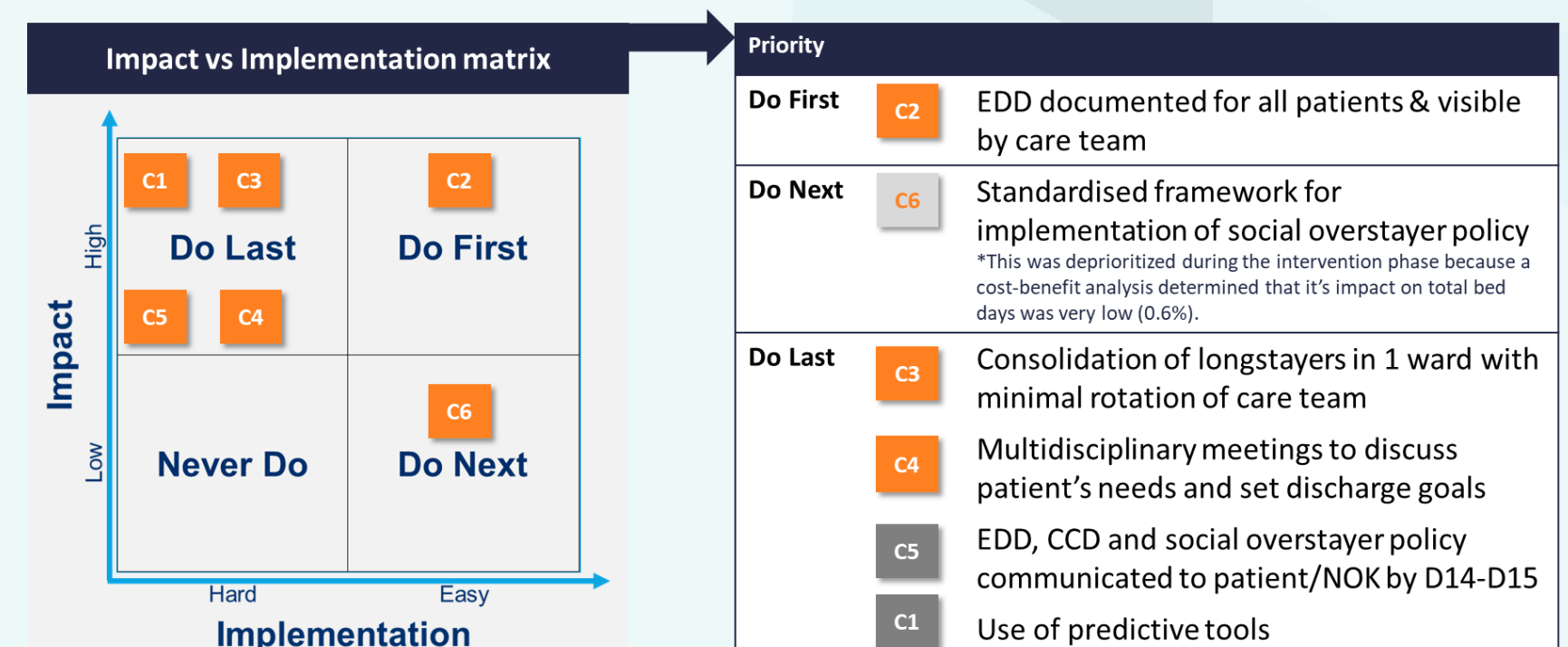
Issues/ Gaps were identified & grouped into root causes/ primary drivers.



### Potential Solutions



Change concepts were generated using a driver diagram (above) & prioritized for implementation (below).



### Project Aim

30% reduction of total bed-days of longstayers from Medicine by Dec 2022.

Type of measure	Measure	Monitoring frequency	Baseline
<b>Outcome</b>	Total bed-days of discharged Longstayers	Monthly	3,170 bed-days / mth
<b>Process</b>	Inflight longstayers	Weekly	60
<b>Balancing</b>	30 day readmission	Quarterly	12.6%

### Lessons Learnt

Starting with the end in mind - The team was mindful to create system level changes (e.g. create new workflows, processes) & to mainstream interventions to ensure long term sustainability.

Teamwork makes the dream work - This project worked because we have a multi-disciplinary team who believed in the goal of the project. Our team members were open & willing to share their thoughts, & often challenged the status quo which led to better solutions.



### Outcomes & Impacts

- Upon successful implementation of the interventions,
- Total bed-days of patients in C7,C8 & C9 (pilot) wards was 36% lower compared to all other General Medicine (control) wards.
  - 564 bed-days were saved each month as a result.
  - Results continued to be sustained in the control phase in FY23.

