

## Mission Statement

Increasing the percentage of geriatric inpatients' influenza vaccine status upon discharge from ward B56, from 15% to 75% within 6 months.

## Team Members

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## Evidence for a Problem Worth Solving

Influenza vaccine uptake within Asia is generally low, and a systematic review focused on Asian countries reported a median uptake of 14.9% among the general population and 37.3% among high-risk groups – far below the **WHO target of 75%**

National vaccination coverage rate in Singapore for adults >50 years old: 14-20%

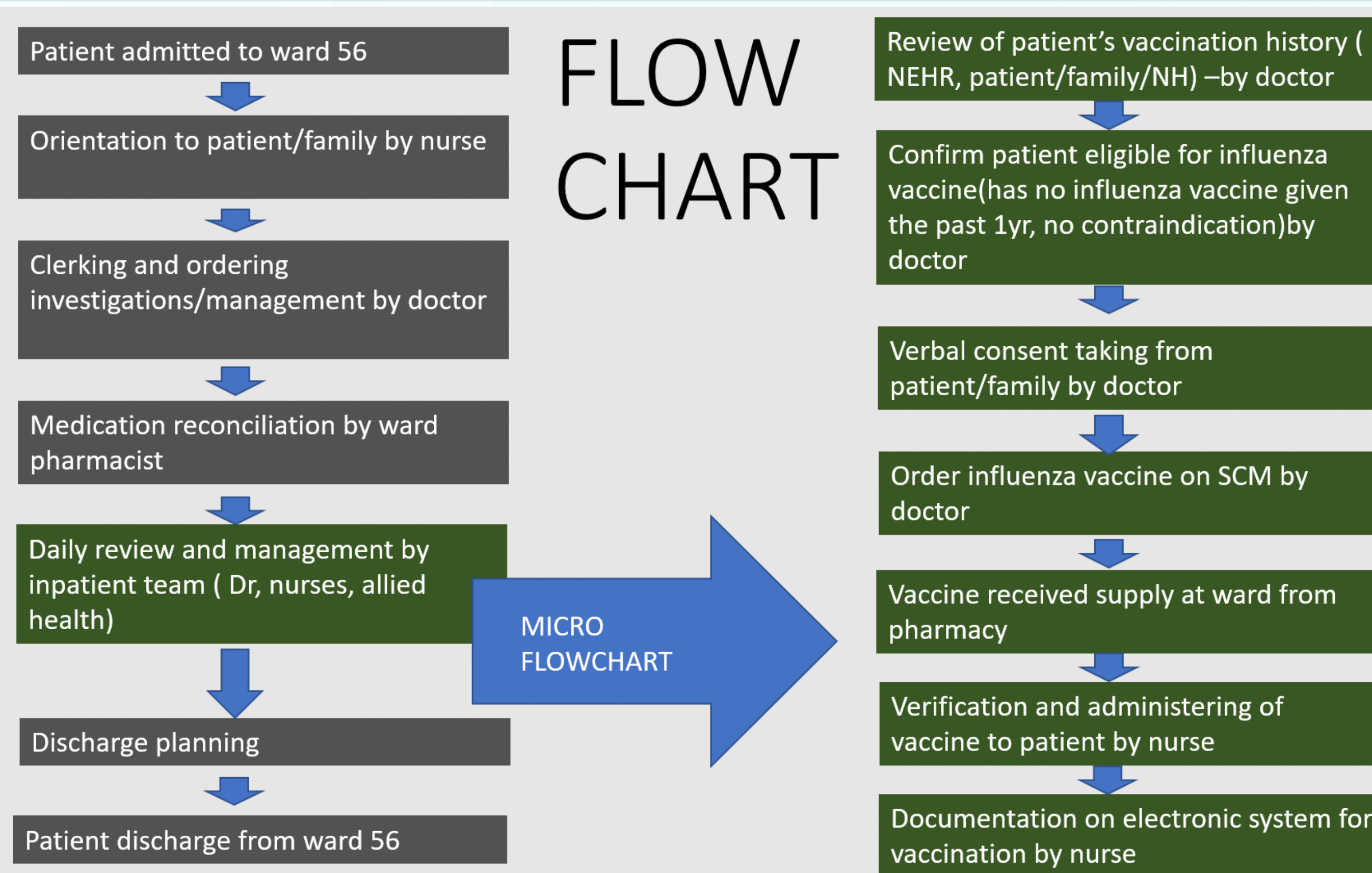
## Current Performance of a Process

Singapore National Adult Immunization Schedule (NAIS) recommends 1 dose influenza vaccine annual or per season for adults age 65 years and above.

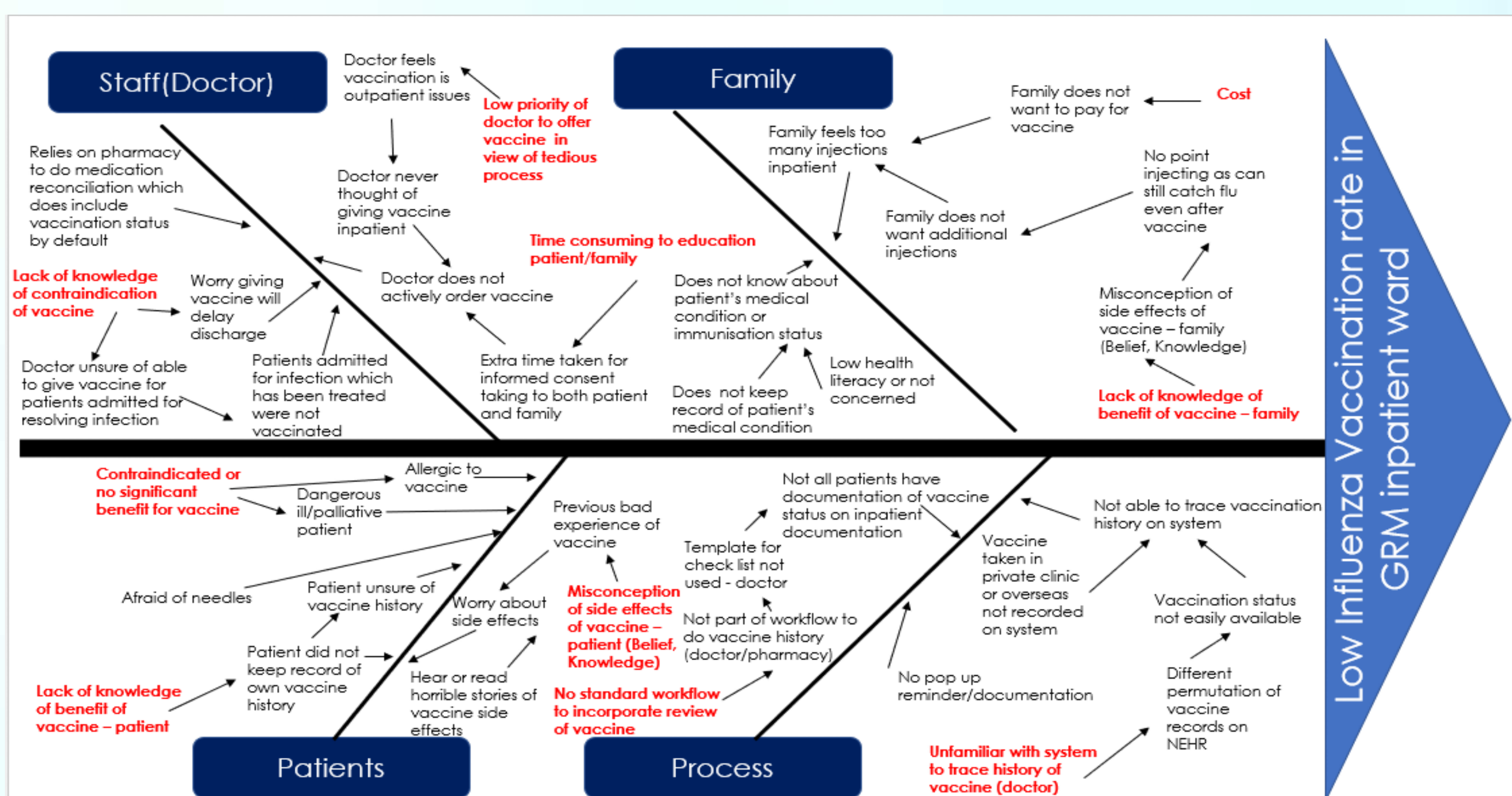
Low influenza vaccination rate in GRM inpatient wards ( 0-2 patients per week: 0-8%)

Prevalence: 9-30% (average: 15.3%) of patients at GRM ward B56 with up-to-date influenza vaccination status (June20-Jan 21).

## Flow Chart of Process

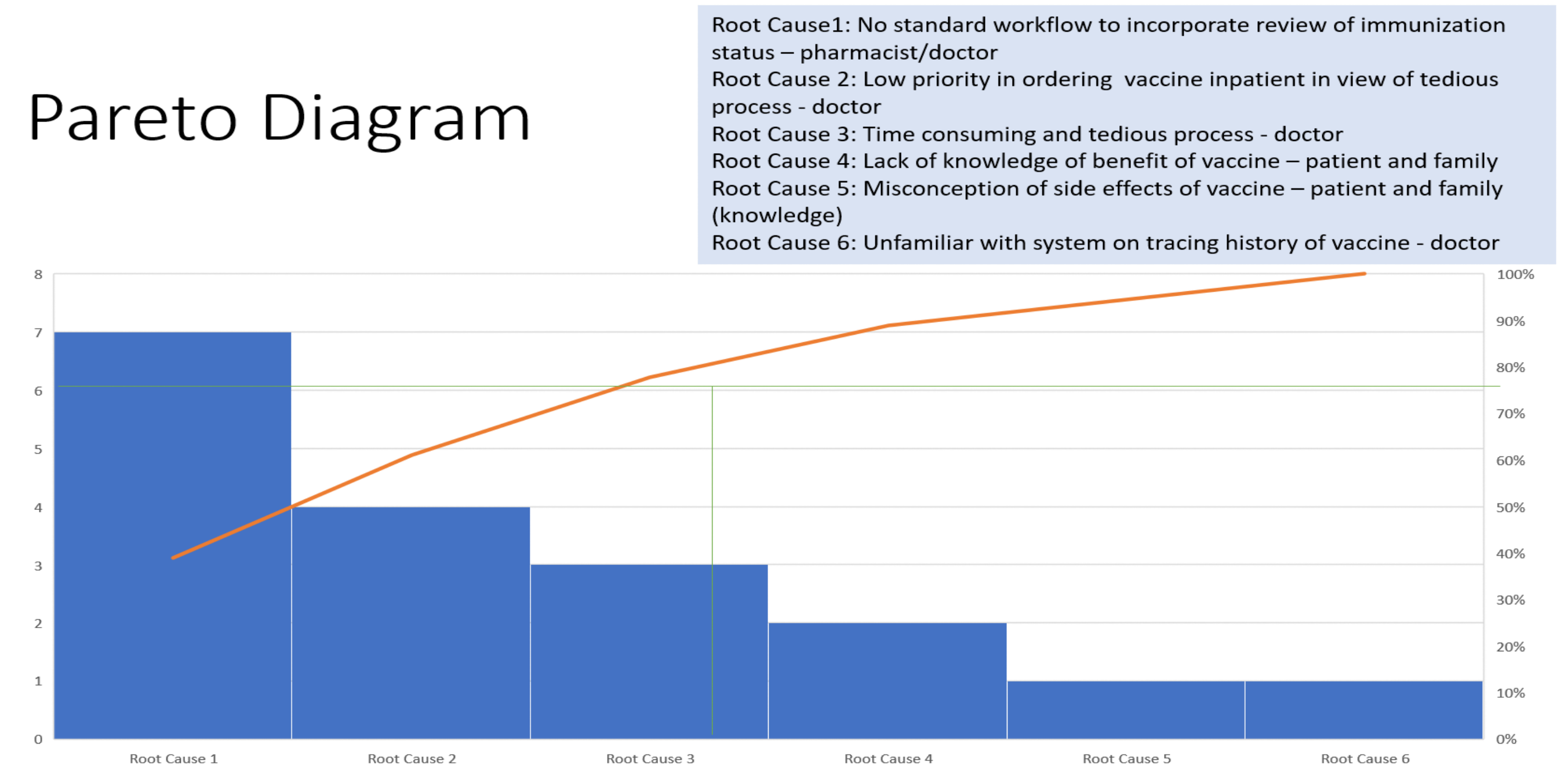


## Cause and Effect Diagram

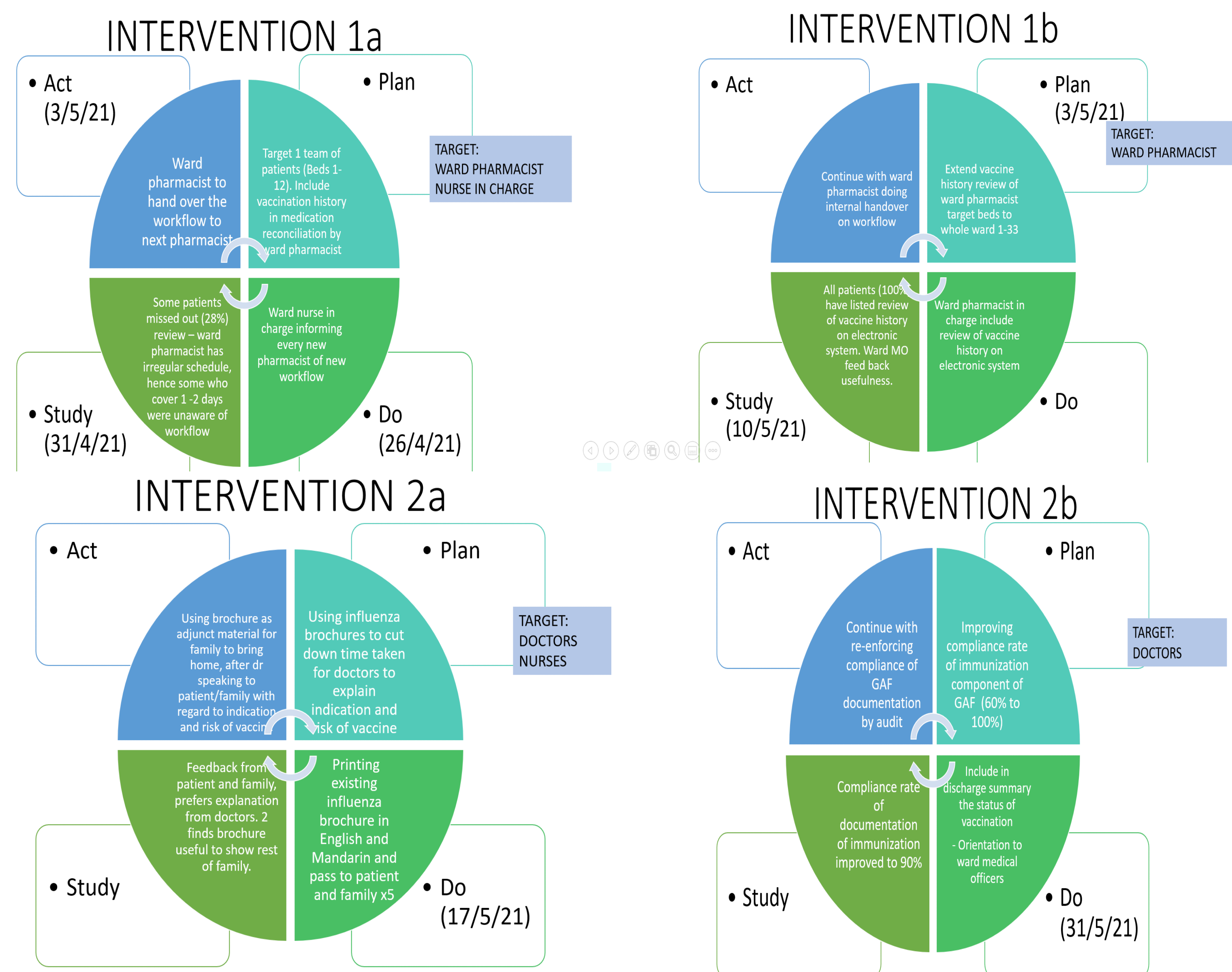


## Pareto Chart

### Pareto Diagram

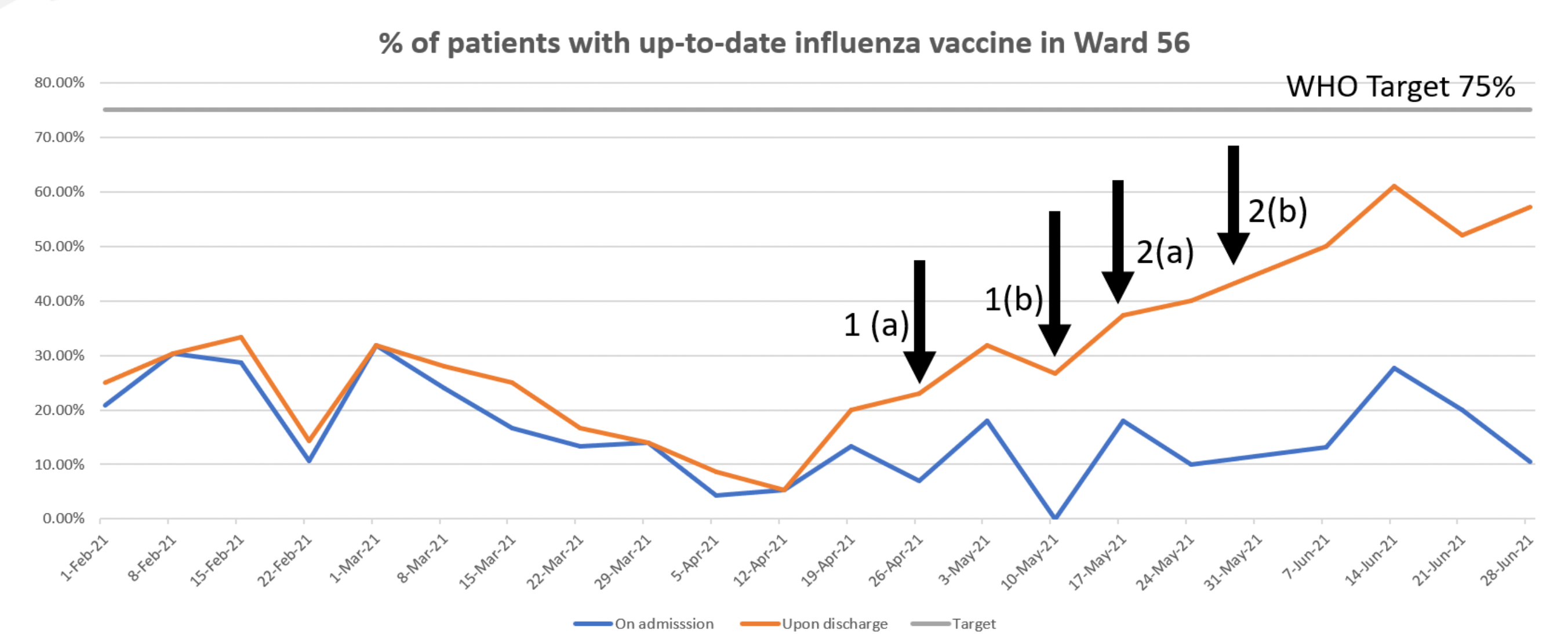


## Implementation



## Results

### FINAL RUNCHART



## Cost Savings

Influenza vaccine significantly reduces pneumonia and influenza-related hospitalization, with vaccine effectiveness of 25-53%. Study for cost effectiveness for adults aged >65 yield cost saving USD\$15,300 per quality adjusted life –year (QALY)

A review of the cost-effectiveness of adult influenza vaccination and other preventive services. N.M.Dabestani et al. Preventive Medicine, Vol, 126, September 2019

## Problems Encountered

COVID restrictions affected workflow. The target ward was converted to COVID ward in November 2021 which affected subsequent sustainability.

## Strategies to Sustain

### SUSTAINABILITY

- Incorporating Geriatric Assessment Form (GAF) into department's Medical Officer (MO) orientation (IMPLEMENTED)
  - Electronic template for GAF
  - Formalizing pharmacist workflow into SWI
- ### SPREAD
- Pneumococcal vaccination rate (IMPLEMENTED)
  - Extend to other Geriatric Medicine inpatient wards