

INFLUENZA & PNEUMOCOCCAL VACCINATIONS FOR MYELOMA AND LYMPHOMA IN-PATIENTS

Adj. Asst. Prof. Allison Tso Ching Yee Department of Haematology



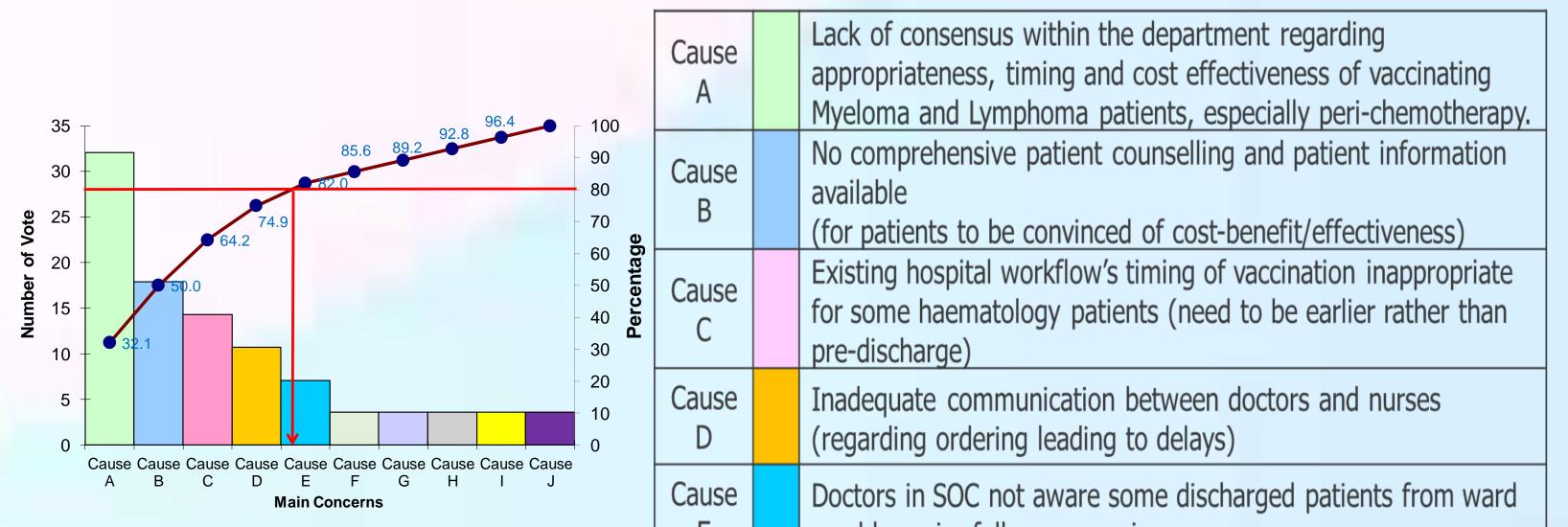
Adding years of healthy life

Mission Statement

To increase the uptake of influenza and pneumococcal vaccinations in eligible* newly diagnosed lymphoma and myeloma in-patients, from current 17% to 100%, over a period of 6 months.

*Exclusion Criteria:

- Allergic to vaccine(s) composition
- Concurrent sepsis or haemodynamic instability (assessed by medical team)
- Patients who are already up to date with their vaccination(s)
- If patient will receive Rituximab within 2weeks or already on Rituximab (no pneumococcal vaccine until >6months after last Rituximab dose - but patients can still proceed with Flu



Pareto Chart

vaccine)

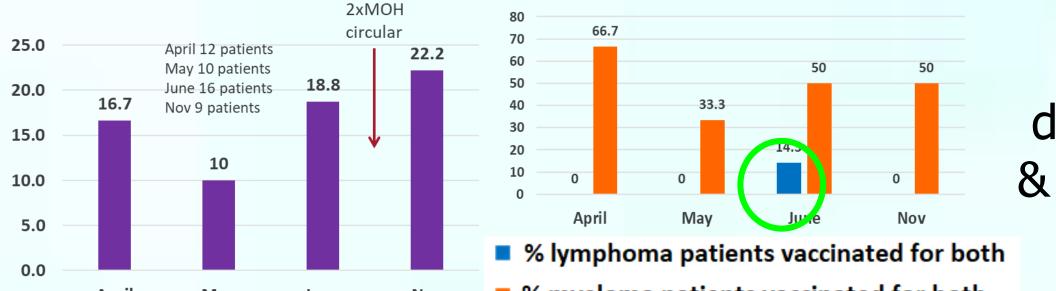
• Palliative patients with life expectancy $\sim \leq 3$ months

NB. Platelets <50 (can administer vaccines s/c, not an absolute contraindication)

Team Members

	Name	Designation	Department	Role
1.	Adj. Asst. Prof. Allison Tso	Consultant	Haematology	Leader
2.	Tan Yien Ling	Senior Pharmacist	Pharmacy	Member
3.	Sia Beng Yi	Senior Pharmacist	Pharmacy	Member
4.	Dr Batac Jireh Ann Landingin	Medical Officer	Haematology	Member
5.	Kelly Tan	Medical Social Worker	Care & Counselling	Member
6.	Liu Yunxia	Asst. Nurse Clinician	Nursing	Member
7.	Wu Qiong	Staff Nurse (Jnr)	Nursing	Member

Evidence for a Problem Worth Solving



Only **17%** newly diagnosed myeloma & lymphoma patients in TTSH were vaccinated !

Implementation

ROOT CAUSE	INTERVENTION	DATE OF IMPLEMENTATION	
Cause A : Lack of consensus within the department re: appropriateness, timing and	PDSA 1 Dept level debate, consensus, implement	1 st March 2018	
cost effectiveness of vaccinating Myeloma and Lymphoma patients,	eness of Myeloma and PDSA 2a		
especially peri-chemotherapy	PDSA 2b Nurses sharing	17 th April 2018	
Cause B : No comprehensive patient counselling and pt			
info available (for pts to be	Workflow + Visual cues	9 th May 2018 10 th May 2018	
convinced of cost- benefit/effectiveness)	PDSA 4 Pharmacy screening + intervention/recommend		
Cause E : Doctors in SOC no aware some discharged patients from ward would require follow-up vaccines	t PDSA 5a : Create new workflow for in patients to receive follow-up vaccine in SOC	28 th Mar 2018	
Prevenar13 ≥ 8 weeks apart PPSV 23	PDSA 5b : Visual reminder of out patient follow-up vaccine workflow	25 th May 2018	

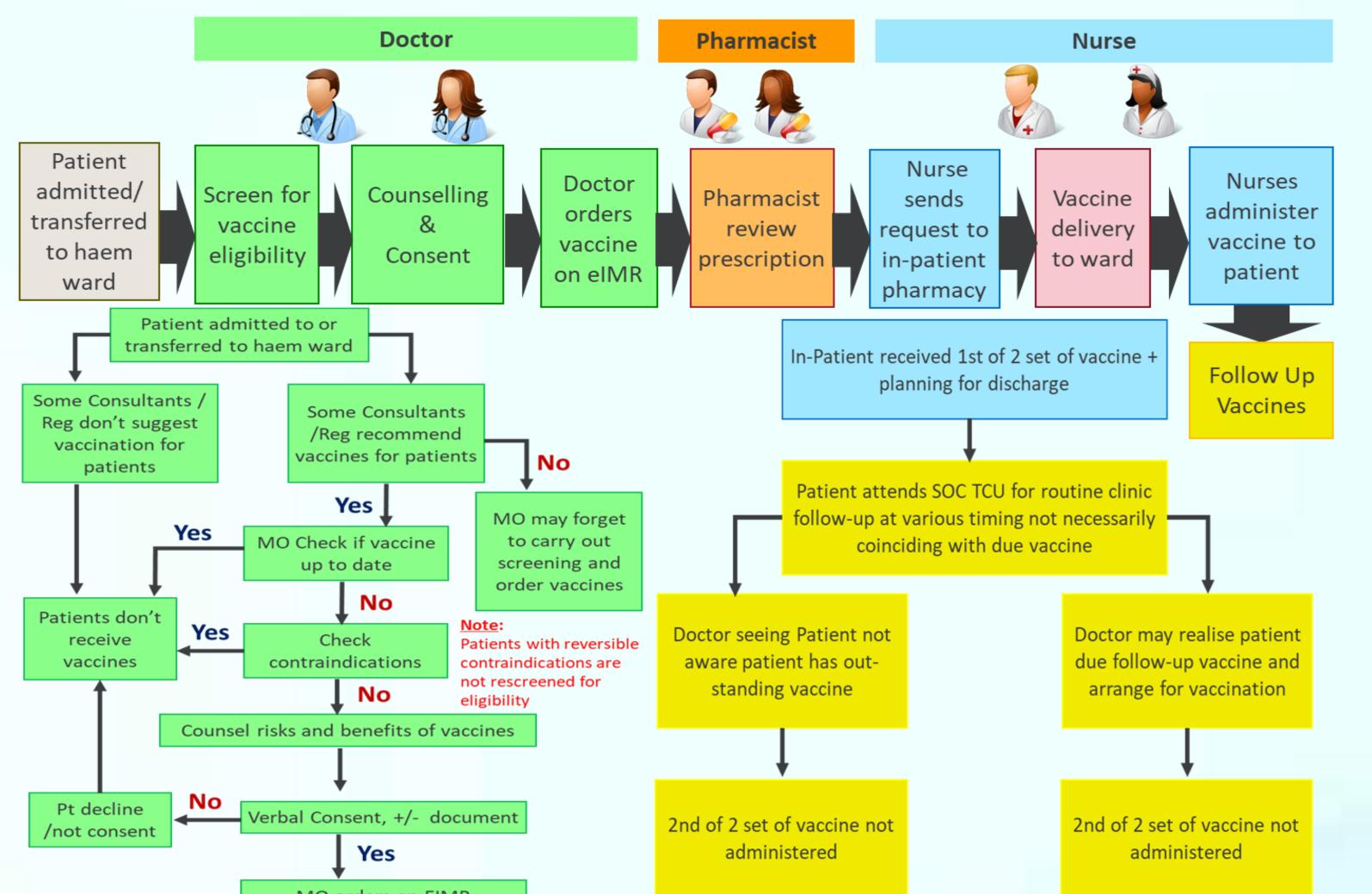
Results

Uptake of Influenza & Pneumococcal Vaccinations in

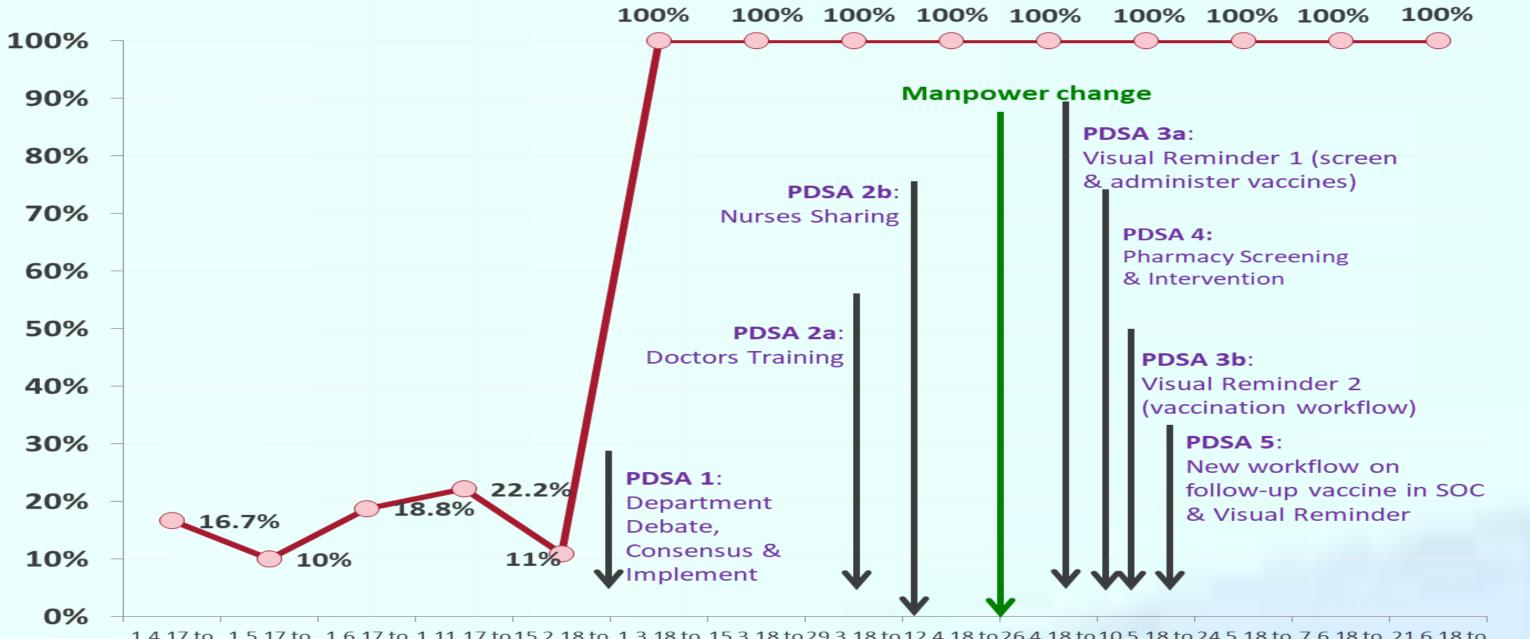
pril May June Nov **Science Science Sci**

Haematology In-patient Audit April-June & Nov 2017

Flow Chart of Process

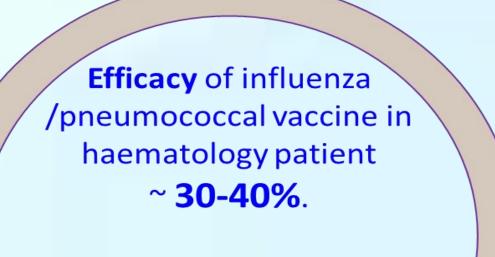


Newly Diagnosed Lymphoma and Myeloma In-Patients



1.4.17 to1.5.17 to1.6.17 to1.11.17 to1.5.2.18 to1.3.18 to1.5.18 to29.3.18 to12.4.18 to26.4.18 to10.5.18 to24.5.18 to24.5.18 to21.6.18 to30.4.1731.5.1730.6.1730.11.1728.2.1814.3.1828.3.1811.4.1825.4.189.5.1823.5.186.6.1820.6.184.7.18

Cost Savings



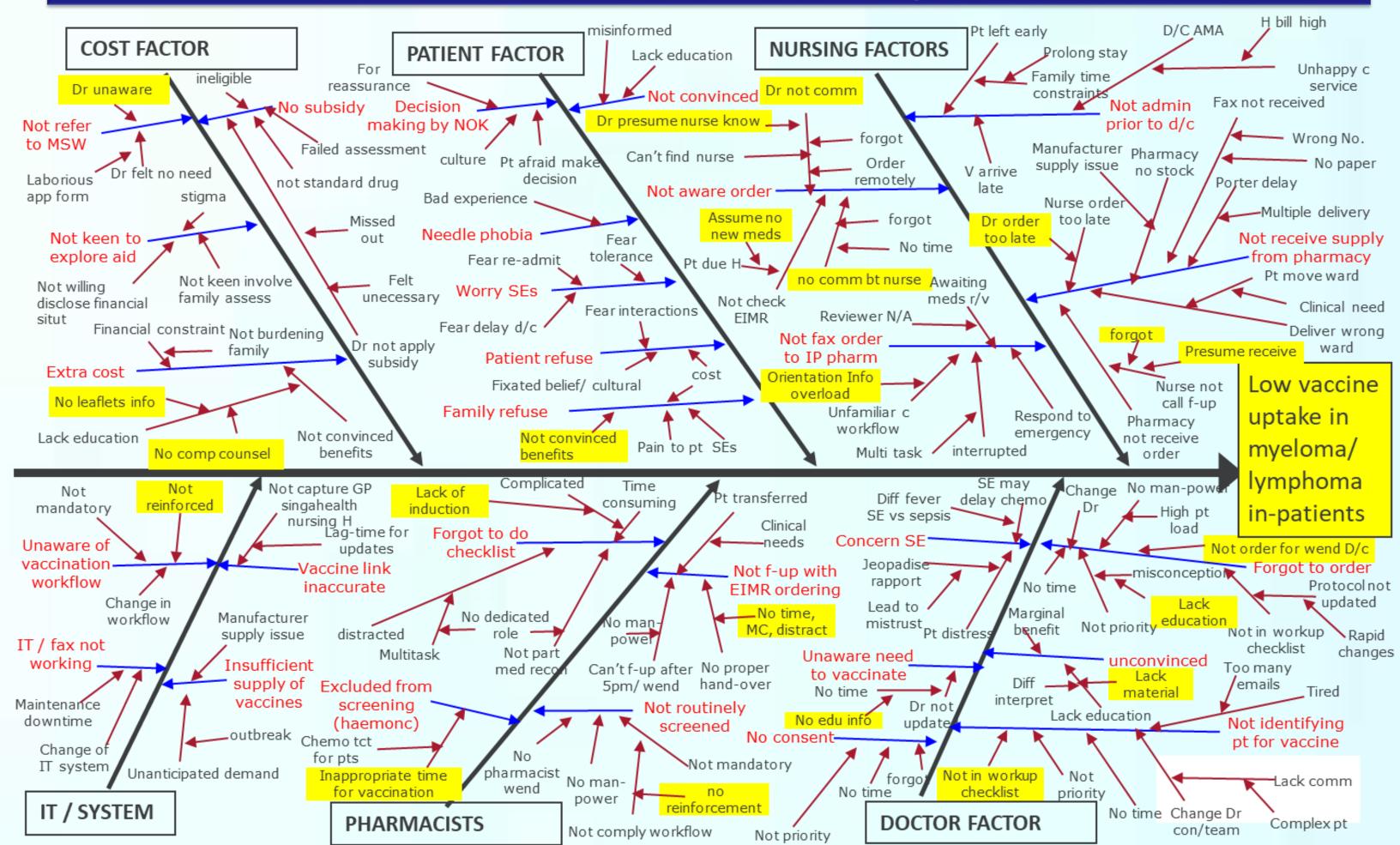
Hence can only **prevent up**

LOS Reduction ~ 4,451 bed days

Annualized Cost

MO orders on EIMR

Cause and Effect Diagram





Lessons Learnt

This CPIP project has united the interests of stakeholders to a) improve performance by having shared goals, b) deliver quality care, c) improve patients' experiences and d) reduce net healthcare costs. CPIP contributes towards a "value-based health care system" which is critical to the sustainability and future competitiveness of our hospitals.

Strategies to Sustain

- Solid systemic changes in place
- Conduct regular audits, give encouragement
- Share results with stakeholders
- Prompt identification & rectification of reasons for failing