

Project Title

Reducing interventions related to post-consult medication requests at pharmacy

Project Lead and Members

Project lead: Huang Yu-chu, Vera, Senior Pharmacist Project members: Tan Min Feng, Senior Pharmacist

Organisation(s) Involved

Ng Teng Fong General Hospital

Project Period

Start date: 2018

Completed date: Apr 2019

Aims

To reduce the median number of interventions for patient-requested medications by 50% for Orthopaedic Clinic within 6 months starting from August 2018.

Background

See attached

Methods

See attached

Results

See attached

Lessons Learnt

We have learnt that starting with one area, tackling one issue at a time is important. It is a good experience of learning. Many quality improvement tools were used. Visual chart acts as a visual cue to prompt patients to ask about such medications and



CHI Learning & Development System (CHILD)

facilitate communication between patient and physician. Expanding use of customized visual charts to other clinics after extracting list of common medications requested at pharmacy post-consult will reduce incidences further. However, sometimes some patients' requests are rejected by doctors, especially those requesting more pain killers in Orthopaedic Clinic. In this respect, educating patients on the short-term nature of acute medications may be useful, as some patients may have the wrong impression that all medicines need to be taken regularly.

Conclusion

See attached

Additional Information

Visual chart is not a direct answer to reduce patient requests, and it does not solve all the root causes. However, it is an aid for clinic service, so it is well accepted by doctors and patients. This is the reason that it is workable.

Overall, the usage of visual chart improves the communication between doctors and patients during consultation, and it reduces the incidences that patients request medication after consultation at pharmacy.

Project Category

Care Redesign, Workforce Transformation

Keywords

Care Redesign, Workforce Transformation, Quality Improvement, Improvement Tool, Fishbone Diagram, Plan Do Study Act, Outpatient Pharmacy, Orthopaedic, Waiting Time, Workflow Improvement, Patient Journey, Patient Satisfaction, Ng Teng Fong Hospital, Visual Charts, Post Consultation, Medication Request

Name and Email of Project Contact Person(s)

Name: Huang Yu-chu, Vera

Email: Vera_huang@nuhs.edu.sg

REDUCING INTERVENTIONS RELATED TO POST-CONSULT MEDICATION REQUESTS AT PHARMACY

VERA HUANG YU-CHU, TAN MIN FENG PHARMACY DEPARTMENT, NG TENG FONG GENERAL HOSPITAL

Define Problem & Set Aim	Select Changes			
Problem Statement	Root Causes	Potential Solutions1Postor on consult room	Potential solutions were	
1 Interventions per month , of which 78 were due to patient requests (15.9%) .	doctor on request for	door to remind patient to	1) Ease of implementation,	
	acute medication	discuss their medications with their doctor before	2) Impact rate	
equested medications may be omitted due to human, system or process		leaving room	The visual chart was rated	
niscommunication and others.	between patient and		and was thus chosen for our 1 st	
nterventions due to patient-requested medications resulted in pharmacists having	doctor		PDSA Cycle.	
vere completed earlier. An additional 234 hours per month was spent on rework,	Patients remember	Visual chart of commonly	Fig 3.1: Visual Chart used in	

satisfaction were affected as a consequence.

<u>Aim</u>

To reduce the median number of interventions for patient-requested medications by 50% for Orthopaedic Clinic within 6 months starting from August 2018.

leading to longer waiting time for collection of medications. Patient and staff

Establish Measures





Initial focus on A51 Orthopaedic Clinic, the clinic with the highest number of interventions for patient-requested medications.

Clinic	Patient Request	% of Patient Request
A51 ORTHOPAEDICS	134	13.8%

character	ristics only le a	A	51 and A53 orthop	edics		orthopa			
					ORTHOPEDICS MEDICATIONS VISUAL CHART				
colour	and shape)				PARACETAMOL 500MG TAB	ANAREX (PARACETAMOL 450MG/ORPHENADRINE 35MG) TAB	PANADEINE (PARACETAMOL 500MG/CODEINE PHOS. 8MG) TAB	KETOPROFEN 2.5% GEL (FASTUM) GEL 1 month = 1 tube	
Doctor unaware of where to find drug information on intranet		2	2 Adding chartcut on					KETOPROFEN (KEFENTECH) PLASTERS 1 month= 8 packs; 1 pack = 8 plasters	
		5	doctors' desktops t	hat				Reference to the second s	
			links to hospital drug listing		ARCOXIA (ETORICOXIB) DICLOFENAC SR 75MG TAB DICLOFE 60mg Image: Arcong and arcong a		DICLOFENACEC 25MG; 50MG TAB	VACEC 25MG; 50MG TAB NAPROXEN 275MG TAB	
	Τ	est 8	& Impleme	nt C	Change	es			
CYCLE	PLAN		DO		STUI	DY		ACT	
1 (Initiated 29 th Aug 2018)	Reduce the medi number of interv for patient-reque medications for Orthopedics clini 13.5 to 6.75 (50%	an entions ested c from 6)	Visual Chart of commonly prescribed medications by Orthopaedics team	22.22 interv "Patie to 10. (-) Clin	% decrease ventions relatent Request .5) nics misplac	in median ated to " (from 13.	of Adar with 5 exec	ot and work clinic utives	
1.1 (From 7 th Jan 2019)	Increase accessit visual chart	oility of	Include display of visual chart into PSA daily opening checklist	48.15 interv "Patie to 7) (+) Vis as use purpo (-) Do or did	% decrease ventions related ant Request sual chart we ful by patien ose of comme octors unawa	in median ated to " (from 13. vas perceive ents for nunication are of char	of Mee Orth 5 doct on their ed their	eting with opaedics ors to brief ne visual ts and get r buy-in.	

orthopaedic clinic

A43 ENDOCRINOLOGY	83	8.6%	
A41 OPHTHALMOLOGY	82	8.5%	

Fig. 1.2 Distribution of interventions due to post-consult medication requests at the pharmacy

Analyse Problem



 Time is wasted due to pharmacists contacting the doctor to prescribe omitted patientrequested medications or documenting in notes if ordering for top-up on behalf of doctor.
Further time is spent amending the prescription and repeating the processes.





Spread Changes & Learning Points

What are the strategies to spread change after implementation?

- Design different visual charts, tailoring to the needs of other clinics
- Collaborate with all relevant parties to increase awareness and buy-in **What are the key learning points?**
- Identify all involved parties and inform them of the changes made
- Feedback is important in identifying problems with the "change" to facilitate improvements



Conclusions and Future Direction

- Visual chart acts as a visual cue to prompt patient to ask about such medications and facilitates communication between patient and physician.
- Educating patients on differences between chronic and acute medications and supplements can be a future intervention to consider. This reduces the misconception that all medications are to be used long term
- Expanding use of visual charts to Endocrine and Ophthalmology clinics after extracting list of common medications requested at pharmacy post-consult, will further reduce future requests.

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