

INCREASING PERCENTAGE OF CORRECT MEDICATION ADMINISTRATION VIA NASOGASTRIC TUBE IN HOSPITAL KAJANG

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4.2 PARETO CHART

Factors Contributing To Low Percentage of Correct

1. SELECTION OF OPPORTUNITIES FOR IMPROVEMENT

Prescribing medication incompatible with nasogastric tube (NGT) and administrating medication incorrectly via NGT lead to lower therapeutic effect and increase risk of adverse events.1 These subsequently increase morbidity, mortality² and hospitalization cost.¹

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1.1	PRIORITIS	ATION	1 (DF	PF	ROI	BL	ΕN	
	PROBLEM			S	М	Α	R	Т	SCORE
Low percenta administration	age of correct via NGT in Hosp	medicati ital Kajai	ion ng	38	37	36	38	39	188
Poor timing administration	of HAART in ward in Hospit	medicati tal Kajan	ion g	37	29	35	30	30	161
High perce prescription a Kajang	entage of fter office hour	discharg in Hosp	jed ital	29	30	32	31	38	160
High return of floor stock from ward in Hospital Kajang			24	28	26	34	36	148	
	SCORE	1	- :	2 3		4		5	
MEMBERS	INDICATION	Very Low	Low		Fair		High		Very High

1.2 REASON FOR SELECTION

S SERIOUSNESS

Low percentage of correct medication administration via NGT reduces medication effectiveness, increases adverse effects, causes various interactions, clogs feeding tube and possibly lead to mortality3,4

MEASURABLE Μ Percentage of correct medication administration via NGT can be measured

APPROPIATENESS Α

Increasing percentage of correct medication administration via NGT can prevent compromising medication physicochemical and pharmacological. Thus, it ensures the treatment safety and efficacy1

REMEDIABLE R

elated to NG

Lack of

Integrated program with active involvement of a multidisciplinary team approach can contribute to substantial improvement⁵ TIMELINESS

This study can be completed within a short period of time

1.3 PROBLEM STATEMENT

	(Therapeutic Range: 50-100mcg/ml)	22 nd Feb 2019
A patient admitted due to breakthrough seizure	Crushed Tablet Sodium Valproate → TDM level Sodium Valproate 20mcg/mL (sub-therapeutic)	Changing to Syrup Sodium Valproate → TDM level Sodium Valproate 74mcg/mL (within therapeutic)

2 weeks pilot study (1/7/2019-12/7/2019) was conducted in Hospital Kajang. 0% medication was administered via NGT correctly

1.4 LITERATURE REVIEW



No local NG

medication

training





medication administration via NGT at home

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TECHNIQUE			eniversal earliping					
STUDY PERIOD			Pre-Remedial: July 2019 – September 2019 Cycle 1: October 2019 – March 2020 Cycle 2: March 2020 – August 2020					
			Medication administered via NGT					
EXCLUSION CRITERIA			Incompatible NGT medication which the alternative is not available in Ministry of Health (MOH)					
	3.2	DA	TA COLLECTION T	OOL				
NO	TOOL		AIM	SUBJECT				
1 C A	Dbservational Audit Form	To corr via I	Fo determine percentage of 210 NGT correct medication administration medication via NGT administra ICU					
2 S A C	Self- Administered /alidated Questionnaire	To assess the 132 doctors, • knowledge on NGT medication compatibility and administration steps Incurrent • contributing factors of problems avareness on • awareness on compatibility • medication for NGT patient display display						
4. ANALYSIS AND INTERPRETATION 4.1 PRE-REMEDIAL STUDY								
AUDIT FORM			QUESTIONNAIRE					
Percentage of correct medication administration via NGT is 0%		1	Knowledge on NGT Mec	dication, % 54.2 Administration steps				
NONE			46.9% NGT medication					
medication administration via NGT fulfill the 9 steps correctly		5	Awareness on Compatibility of Medication for NGT Patients, % 41.1 41.1 50 00000000000000000000000000000000000					
Oral medications were prepared and crushed together			Never pay Seldom So attention So 41.1% respondents aler medication compatil	metimes Yes, Everytime t about NGT bility				

Quasi-experimental

Universal Sampling

Intensive Care Unit (ICU) Hospital Kajang

STUDY DESIGN

STUDY SETTING

SAMPLING

complication

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