The Influence of Knowledge and Leadership on Clinical Risk Management with Patient Safety Culture as an Intervening Variable at PMI Hospital

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ABSTRACT

The lack of the leadership function in monitoring and evaluation, the littled training on patient safety is suspected to have resulted in a low safety culture and clinical risk management. This study aims to determine the influence of transformational leadership, patient safety knowledge and culture on clinical risk management at PMI Hospital. Design of a cross-sectional study, 138 nurses in August 2024. Simple random sampling technique, the indepertional transformational leadership; the dependent variable of clinical risk management, and the intervening variable of patient safety culture. Descriptive analysis shows that PMI Hospital has nurses who have high knowledge of patient safety targets, with a charismatic leadership style, and a communical active patient safety culture. The results show that knowledge of patient safety goals, transformational leadership, and patient safety culture simultaneously and partially have a significant effect on clinical risk management so that high knowledge, charismatic leadership, and communicative patient safety culture are proven to encourage improvements in clinical risk management at PMI Hospital.

Keywords: risk management, patient safety, leadership, knowledge

1. Background

Over the past two decades, patient safety has become a central concern for health 23 eorganizations globally. Clinical risks can never be completely eliminated (Vincent, 2006), while the risk of patient death due to preventable med 31 accidents is very high in developing countries. (World Health Organization, 2014). The main locus of patient safety is in the microsystem, namely the environment where services take place, the spearhead where patient and surse interactions occur, where safety failures occur and patients are harmed. Nurses as a whole at all levels and areas of practice have a great responsibility in reducing and if possible preventing the occurrence and impact of adverse events in the context where theywork. (Vincent, 2010)

One way to address this challenge is the establishment of a clinical risk management system (Briner et al., 2013), because accreditation and clinical governance alone are not enough in building clinical risk management, what is needed is quality improvement and safe practice through the integration of effective clinical risk management into organizational processes. (Farokhzadian et al., 2014). The Indonesian Red (15)s Hospital has been fully accredited for the umpteenth time in 2022, but in the initial assessment of clinical risk management at the PMI Hospital, there was no incident reporting systemin the form of a book, an incident report form in the form of an online/web-based system, an incident report form in the patient's medical record, and a weekly incident reporting review. There was no weekly assessment of incident reporting activities, while 16 incidents were obtained from 2022 hospital quality committee report. The patient safety culture at the Indonesian Red Cross Hospital has not been achieved in terms of the expectations and actions of managers who support patient safety, feedback and communication regarding errors and non-punitiveresponses, there are still several quality indicators that have not been achieved in 2022, namely non-compliance of medical service officers with several actions related to patient safety goals, including identification compliance, hand washing compliance, compliance with efforts to prevent the risk of injury due to patient falls.

The purpose of this study was to analyze the influence of nurses' knowledge of patient safety goals and transformational leadership style on clinical risk management with patient safety culture as an intervening variable in the inpatient unit of the Hospital.Indonesian Red Cross.

2. Research Method

This research was conducted with Cross-sectional study des [21], in August 2024. Participants were registered nurses in the inpatient unit of PMI Hospital. This research protocol has been approved by the Ethics Committee Esa Unggul University and Indonesian Red Cross Hospital and written consent was obtained from all research participants.

Data collection

Based on the analysis result of 138 respondents surveyed, most of the nurses have age limit more than 25 to 35 years (n = 138, 48%). Also, most of them have experience more than 10 to 15 years in the same hospital (n = 138, 36%) indicating that they have sufficient experience and time to provide care to patients and work in the same environment. The sample survey is considered appropriate to generate responses about the constructs being studied. Statistics show that among the nurses, who responded to the questionnaire survey 79% were female. The nurses 86% have D3 education as the basic qualification to work in the hospital.

We included only registered nurses because this study addressed a high-level nursing ork domain that typically involves only registered nurses. Nurses with less than one year of clinical experience were considered too experienced toprovide relevant information about research-related variables.

Potential participants were approached by the principal investigator or by the research facilitator attheir institution and the purpose of the study was explained. Those who met the inclusion criteria agreed to participate...

Measuring instrument

The questionnaire ascertained information onnurse demographics (gender, age, nursing education, and nursing experience), (b) clinical risk management, (c) patient safety culture, (d) knowledge patient safety goals, and (e) transformational leadership.

Two tools were used for clinical risk management data collection, namely a structured observation checklist and a questionnaire. These checklists were developed by researchers based onliterature (Farokhzadian, 2014), ficludes 25 items to observe the current program and measurements to devilop CRM systems, such as incident reporting, and various other aspects of CRM (Table 4). This checklist is based on "yes" or "no" answers; no value answers are used, so validation is not necessary.

The questionnaire was adopted from Zabolli, 2011 Department & Health Service Management at Baqiyatallah University in Tehran, The questionnaire consisted of 45 items divided into six sections, namely

1) knowledge, understanding and recognition of staff towards CRM (eight questions); 2) CRM implementa 1 n status (seven questions); 3) policies and procedures (seven questions); 4) evaluation of CRM1 raining status (eight questions); 5) CRM position in the hospital (six questions); and 6) monitoring, analysis, evaluation and risk control status (nine questions). The questionnaire was developed based on a 1-point Likert scale. A total of 43 questionnaires were valid (r coefficient>0.3601, n=30). Its reliability was assessed using Cronbach's alpha coefficient (α = 0.983).

Patient safety was measured using sops version 2.0 (AHRQ, 2021). This instrument

consists of 10 subscales and 32 items. The 10 instruments consist of (a) teamwork, (b) staffing and work rhythm, (c) organizational learning, (d) error response, (e) support from superiors and clinical leaders, (f) error communication (g) openness of communication, (h) incident reporting, (i) management support, (j) hand-off and information exchange. 21 valid statements were obtained (coefficient r> 0.3601, n = 30) and were reliable. with Cronbach's alpha (α = 0.770).

Transformational leadership questionnaire was developed by researchers based on literature (Avolio & 23 ss, 2004). It consists of 37 items. The 4 parts of the instrument are positive responses of transformational leadership such as (a) idealizer influence, (b) inspirational motivation, (c) intellectual stimulation, (d) indipidual consideration. 34 valid questionnaires were obtained (r coefficient>0.3081, n=39). Reliability was assessed using Cronbach's alpha coefficient (α =0.935).

The patient safety target knowledge questionnaire was developed by researchers based on literature (Anderson & Krathwolh, 2001). It consists of 4 subscales and 18 items. The 4 parts of the instrument are factual, conceptual, procedural, and metacognitis knowledge. 14 items out of 34 questionnaires were valid (r coefficient>0.3081, n=39). Its reliability was assessed using Cronbach's

alpha coefficient ($q_{39} = 0.806$).

c. Statistical Analysis

Data were analyzed using IBMSPSS version

18. Pearson correlation was calculated for the relationship between be main factors. Regression analysis helps to provide an estimate of the relationship between variables and the impact of independent variables on the outcome variables in a population. Therefore, regression analysis is used for the variables of interest. Descriptive statis 2 al analysis on the variables of transformational leadership style and clinical risk management was carried out through the three box method analysis (Ferdinand, 2014) to determine the condition of each research instrument, the following quality ranges were formed which were divided into three quality interval ranges with the following calculations:

Index value: {(F1x1)+(F2x2)+(F3x3)+(F4x4) }/4

Information:

F = Frequency of respondents who answered question items (1,2,3,4)

Upper_limit = 138x4/4 = 138 Lower limit = 138x1/4 = 34.5

Analytical statistics were conducted to study the causal relationship between variables and test hypothess systematically in this study, the analysis tools used were path analysis using independent sample t-test and analysis of variance (ANOVA).

3. Results

3.1 Respondent Characteristics

Based on the analysis result of 138 respondents surveyed, most of the nurses have age limit more than 25 to 35 years (n = 138, 48%). Also, most of them have experience more than 10 to 15 years in the same hospital (n = 138, 36%) indicating that they have sufficient experience and time to provide care to patients and work in the same environment. The sample survey is considered appropriate to generate responses about the constructs being studied. Statistics show that among the nurses, who responded to the questionnaire survey 79% were female. The nurses 86% have D3 education as the basic qualification to work in the hospital.

Table 1. Respondent Characteristics

Category	Amount	Percentage

Man	30	21%
Woman	108	79%
Amount	138	100%
Respondents b	y Age	
Category	Amount	Percentage
< 25 Years	30	21%
>25–35 Years	66	48%
>35 Years	42	31%
Amount	138	100%
Respondents I	Based on Last I	Education
Category	Amount	Percentage
D3	118	86%
S1	20	14%
Amount	138	100%
Respondents I	Based on Work	Period
Category	Amount	Percentage
15 years	39	28%
>5 – 10 Years	26	19%
Respondents F	Based on Work	Period
>10–15 Years	50	36%
>15 Years	23	17%
Amount	138	100%

3.2. Observation Data

Table 2 describes the CRM program in the Indonesian Red Cross Hospital. Based on the 2017 McKinsey risk management model, the level of clinical risk management is at an early stage (11 of the 25 clinical risk management indicator items are not yet available).

Table 2.Clinical Risk Management Assessment of PMI Hospital Bogor 2023

No	Indicator	Thereis	There isn'tany
1	7 Risk management committee and team	V	
2	Quality improvement 7 mmittees, teams andoffices	N	
3	Patient safety committee and team	V	
4	Patient safety staff andofficers	V	
5	Risk Manager	V	

6	Educational program &cultura		1./
U	development (Educationa		\ \
	program &culture building)	1	
7		V	
7	Management of patient	ľ	
	complaints	,	
8	Nosocomial infection control	√	
	7 ogram		ļ.,
9	Adverse drug reactions(ADRs)		V
	reporting system 7		,
10	Safety action plan (safety action		V
	plan)		
11	Forms of blood and blood	V	
	product complications		
12	Licensing and accreditationbody	V	
	1		
13	Incident reporting form	V	
14	Incident reporting is not abook		V
15	Online and web-based		V
	reporting forms		
16	Incident report form inpatient		V
-	file		ľ
17	Patient safety information system		V
	(PSIS)		
18	Patient safety reportingsystem		V
	(PSRS)		
19	Review incident ports weekly		V
		V	,
20	Sentinel event root cause analysis	ľ	
21			V
21	Failure mode and effects		[v
	analysis (FMEA)		,
22	Administrative medical cart		V
23	Drug packaging labeling	√	
24	Individual drug distribution	V	
	system		
25	Electronic system formedication	√	

3.3 Descriptive statistics

Descriptive statistical analysis using the threebox method on the Clinical Risk Management variable The results of the analysis per indicator, the highest index is at M 2 with an index of 124.25, a high category that is in the dimension of risk management knowledge level, while the lowest is in the knowledge level dimension on indicator M1 (Every patient with long bed rest often has decubitus ulcers.) with an index of 86.20 with a moderate category. The results of the analysis per dimension, the highest is in the risk management position ditansion with an average index of 114.3 in the high category and the lowest dimension is the status of organizing and the status of risk management teaching with an average index of 103.7 are in the medium category. Overall, the clinical risk management variable is in the high category because it has an average index of 107.12

Descriptive statistical analysis using the three box method on the patient safety culture variable. The results of the analysis per indicator, the highest index is in indicator C6 (staff

will remind if they find their superiors taking actions that can be risky to patient safety) with an index of 106.75 with a high category which is in the dimension of openness of communication while the lowest is in indicator A11 (staff in this room work longer in meeting the quality standards of service to patients.) the dimension of staff arrangement & work rhythm with an index of 68.25 with a low category The results of the analysis per dimension, the highest is in the dimension of openness of communication with an average index of 104.50 with a high category and the lowest dimension is in Handsoff & information exchange with an average index of 97.38 with a medium category. Overall, the patient safety culture variable is in the medium category because it has an average index of 93.20.

Descriptive statistical analysis using the three box method on the knowledge variable. The results of the analysis per indicator, the highest index is in indicator P17 (index 128.5) in the high category in the conceptual knowledge dimension while the lowest is in indicator P9 (index 73) in the medium category in the procedural knowledge dimension. The results of the analysis per dimension, the highest is in the conceptual knowledge dimension (average index 116.5) with a high category while the lowest dimension is in the procedural knowledge dimension (average index 89.35. with a medium category. Overall, the knowledge variable about patient safety targets is in the high category with an average index of 104.4.

Descriptive statistical analysis using the three box method on transformational leadership variables, The results of the analysis per indicator, the highest index is in indicator K11 with an index of 111.50 (high category). inspirational motivation dimension while the lowest is in indicators K28 & K35 with an index of 77 (medium category). individual consideration dimension. The results of the analysis per dimension, the highest is in the ideal influence/charisma dimension with an index of 104.63 (high category). and the lowest dimension is in the dimension intellectual influence with an index of 95.61 (moderate category). Overall, the transformational leadership style variable falls into the moderate category with an average index of 78.94.

Testing the hypothesized model

The results of the heteroscedasticity test showed that the leadership and culture variables did not show symptoms of heteroscedasticity (Sig >0.05) while knowledge showed symptoms of heteroscedasticity Sig 0.015 (<0.05), so therespondent data was reduced, and respondents no.

25 <i>Mo</i>	odel	Unsta diz Coeffi s	ed	Standar dized Coefficie nts Beta	t	Si g.
	Const ant)	5.03 5	5.35 1		- .94 1	.3 48
1	leader ship	.026	.039	.057	.67 5	.5 01
	knowl e dge	.468	.189	.208	2.4 75	.0 15
	culture	.029	.059	.041	.48 6	.6 27

Table 3. Results of Heteroscedasticity Test 1 a. Dependent Variable: management

Source: Primary Data, processed with SPSS 18

The results of the heteroscedasticity test show that all variables do not show symptoms of heteroscedasticity with a sig. value >0.05. This means that there is no correlation between the size of the data and the residual so that if the data is enlarged it will not cause the residual (error) to be even greater, so the path analysis model is suitable for use.

a. Dependent Variable: management

3.5. Path Analysis Test

Path analysis was conducted using the multiple regression method through the SPSS version 18 program to see the influence of independent 55 and 126 were selected.

Coefficients	26				
Model	Unstand	dardi	Standardiz		
	zed		ed	t	Sig.
	Coeffici	ients	Coefficient		Dig.
			S		
		Std.			
	B	Error	Beta		
1 (Constant)	56,923	8.104		7,024	.000
leadership	067	.059	097	1.143	.255
knowledge	.309	.294	.090	1,052	.295
Culture	.118	.089	.114	1,337	.183

Table 4. Results of Heteroscedasticity Test 2 variables on dependent variables.

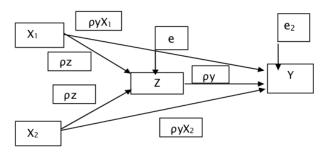


Figure 4.3 Path Diagram Model of Variables X1,X2, Z and Y

A. Testing the Relationship Between Variables

Before conducting path analysis, the author first conducted a correlation analysis to determine thenature of the relationship between each variable studied. The probability value

is le 16 han 0.05 (Sig. < 0.05) indicating that the correlation between variables is significant and the relationship between variables is directly proportional, meaning that an increase in one variable will be followed by an increase in another variable. While determining the closeness of the relationship uses criteria based on:

 $0.00 \le \rho \le 0.25$: Very small relationship(negligible)

 $0.25 \leq \rho < 0.50$: Quite strong relationship

 $0.50 \le \rho < 0.75$: Strong relationship

 $0.75 \le \rho < 1$: Very strong relationship

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Based on all the correlation tests and significance tests conducted, the results of the correlation analysis between variables can be summarized as follows.

Table 5. Summary of Correlation Analysis Result

	coeffi cient of correl ation i	Sig.	Nature of Relatio nship
X1 with X2	378**	.000	Strong, Positive and Significa nt Enough
X1 with Z	.498**	.000	Strong, Positive and Significa nt Enough
X2 with Z	367**	.000	Strong, Positive and Significa nt Enough
X1 with Y	.495**	.000	Strong, Positive and Significa nt Enough
X2 with Y	.432**	.000	Strong, Positive and Significa nt Enough
Z with Y	.603**	.000	Strong, Positive and Significa nt (X1) and

Source: Data Processing Results, 2024

B. The Influence of Knowledge (X1) and Transformational Leadership (X2) on Patient Safety Culture (Z)

Structural Path Analysis Equation 1 ($Z = \rho zX1 + \rho zX2 + \varepsilon 1$)

Table 6 Structural Path Analysis Coefficients 1

Model	Unstanda Coeffici B	ents	Standardi z <mark>ed</mark> Coefficien ts Bet a	t	Sig.
(Constant) Pengetahu an Kepemimpi na n	67.083 .637 .292	7.422 .119 .110	.420 .208	9.039 5.339 2.647	.000 .000 .009

a. Dependent Variable: Culture Model Summary

Model	R	R Square	RSquare	Std. Errorof the Estimat
1	.534	.285	.275	e 7.241

- a. Predictors: (Constant), Leadership, Knowledge From the table of coefficients of structural pathanalysis 1 above, we get:
- a. Standardized β (X1-Z); ρ zX1 = 0.420b. Standardized β (X2-Z); ρ zX2= 0.208
- c. Residual coefficient (e1) = 1- R2 = 1 0.285 =0.715 So the equation of structural path 1 is:

 $Z = \rho z X 1 + \rho z X 2 + e 1$

Safety culture = .420 Knowledge + .208 Leadership + .715

The model summary table above obtained one path analysis model with a determination coefficient value (Adjusted RSquare) of 0.275. This shows that by using the path 30 alysis model obtained, the nurse's knowled 42 variable about patient safety targets (X1) and transformational leadership style (X2) have an influence on changes in the patient safety culturary variable.

- (Z) . The Influence of Knowledge (X1), Transformational Leadership Style (X2) and Patient Safety Culture (Z) on Clinical Risk Management (Y)
- C. Structural Path Analysis Equation 2 (Y = $\rho yX1 + \rho yX2 + \rho yZ + e2$)
- 6able 7. Structural Path Analysis Coefficients 2

a. Dependent Variable: MRK

Model Summary

Model	R		djusted <mark>R</mark> Square	Std. Erro r of the Estim ate
1	.668	.446	.434	11,533

a. Predictors: (Constant), Culture, Leadership, Knowledge

From the table of coefficients of the structural pathanalysis 2 above, we get:

- a. Standardized β (X1-Y); ρ yX1 = 0.208
- b. Standardized β (X2-Y); ρ yX2 = 0.197
- c. Standardized $\beta(Z-Y)$; $\rho yZ = 0.427$
- d. Residual coefficient (e2) = 1 R2 = 1 0.446 = 0.554

So the equation of the 2 structural paths is:

 $Y = \rho y \hat{X}1 + \rho y X2 + \rho y Z + e^2$ Clinical risk management = 0.208 Knowledge + 0.197 Leadership + 0.427 Culture + e2

The summary model table above obtained one path analysis model with a determination coefficient value (Adjusted RSquare) of 0.446. This shows that by using the path analysis model obtained where the nurse's knowledge variable about patient safety targets (X1), transformational leadership style (X2), and patient safety culture (Z) have an influence on changes in the Clinical Risk

	Coeffici ents		and a rdize d Coeff i cients	t	Sig.
	В	Std. Error	Beta		
(Consta nt)	- 11,139	14,976		744	.458
Knowle dge	.569	.20	.208	2,721	.007
Leaders hip	.498	.18 0	.197	2,763	.007
Culture	.770	.13 7	.427	5.618	.000

Management variable (Y) of 0.446.

The effect of error on equations 1 and 2 is as follows: Pe1 = 1 - R2 = 1 - 0.285 = 0.715; Pe2 = 1 - 0.446 = 0.554Rm2 = 1 - (Pe1)2(Pe2)2 = 1 - (0.715)2(0.446)2 = 1 - (0.511x0.198) = 0.890

The validity examination of the model through the total determination coefficient (Rm2) shows a value of 0.89. So, the total data diversity that can be explained by the model is 0.89. Influence Calculation

The Influence of Nurses' Knowledge of Patient Safety Goals (X1) on Clinical Risk Management (Y)

- a. Direct Effect: $PL(X1-Y)=\rho yX1 = 0.208$, sig 0.007
- b. Indirect Influence:

PTL (X1-Y)= $(\rho zX1) x (\rho yZ)= 0.420 x0.427=0.18$

c. Total Effect(X1-Y)= PL(X1-Y) + PTL(X1-Y)=5.52+12=17.52%

The Influence of Transformational LeadershipStyle (X2) on Clinical Risk Management (Y)

- a. Direct Effect: $PL(X2-Y) = \rho yX2 = 0.197$, sig 0 . 0 0 7
- b. Indirect Influence:

PTL $(X2-Y) = (\rho zX2) \times (\rho yZ) = 0.208 \times 0.427 = 0.089$

c. Total Effect(X2-Y)= PL(X2-Y) + PTL(X2-Y)=0.197+0.089=0.285

4. Discussion

- 4.1 significant influence of Nurses' Knowledge of Patient Safety Goals (X1), Transformational Lead 17 hip Style (X2) and Patient Safety Culture
- (Z) simultaneously on Clinical Risk Management (Y)
- Inical Risk Management (Y) is influenced by knowledge of patient safety targets (X1) and transformational leadership (X2) and patient safety culture (Z) simultaneously and significantly.
- The results of the analysis concluded that knowledge of patient safety targets, transformational leadership style, and patient safety culture simultaneously had a significant effect on clinical risk management. In this study, itcan be interpreted that simultaneously high nurse knowledge of patient safety targets, charismatic transformational leadership in the inpatient ward, and communicative patient safety culture influenced a change in clinical risk mana 46 nent.

Sevisal studies have shown the influence of safety culture. and decision-making capacity have a direct effect on patient safety and transformational leadership style can build a nursing work environment that promotes professional nursing praction thereby encouraging better patient outcomes Tangatarova, S., & Gao, Y. (2021). Also as reported in the study by Okafor et al (2015), lack of attention from owners or management, burdensome reporting processes and fear of responsibility and shame are factors causing low incident reporting. So from this study it can be concluded that leadership and reporting systems which are elements that build patient safety culture have an effect on hospital clinical safety management. From the study of Okafor et al, 2015 also stated that the frequency of error reporting can be increased dramatically by using a web-based reporting system, which is easy to use, voluntary, non-punitive system, transparent and conducts incident reviews transparently and decentralized. In this case, there is no reporting system and web-based incident reporting form which is one of the elements that builds clinical risk management at PMI Hospital.

The results of the descriptive analysis of clinical risk manager 15 ht at PMI Hospital show that nurses have understood risk management. An understanding of the 3 rganization of clinical risk management has also been formed, but an understanding of the position of clinical risk management and supervision is the evaluation, assessment and control of risk in the hospital has not yet been fully formed. The position of risk management that assesses the importance of regulations, guidelines and budget allocations that support clinical risk management activities is necessary in building the maturity of clinical risk management, including the existence of supervisory activities in the evaluation, assessment and control of risks in hospitals. Based on the division of the three phases of the evolution of the risk management model/risk management model by McKinsey, 2017, the level of clinical risk management maturity of PMI Hospital is still in the initial phase, namely the phase of building basic elements, especially regarding preparingbasic infrastructure.

4.2. The Influence of Nurse Knowledge on Objectives Patient Safety (X1) Against Patient Tofety Culture (Z)

The results of the analysis concluded that knowledge of patient safety targets has a significant influence on patient safety culture.

This is in line with the study of The German Coalition for Patient Safety, 2017 which states that a safety culture can be developed and built from a constant learning process. The Institute of Medicine of the National Academies, 2004 also stated that a safety culture requires organizational understanding and knowledge and skills as an important foundation for safe practice. And at the individual level Van der Schaaf (1992) stated that organizational learning can be improved through staff education and learning. A study by Bahrami MA, 2014 in Iran also proved that a patient safety culture at the organizational level can be built and developed from a constant learning process and this can be achieved through education and learning at the individual or staff level.

In this study, the results of the descriptive analysis showed that nurses have known and understood the patient safety targets, this is the result of the implementation of education and training on patient safety targets which are carried out every year at PMI Hospital. So that nurses' knowledge of high patient safety targets influences the achievement of a communicative safety culture in the inpatient service environment of PMI Hospital.

The Influence of Patient Safety Culture (Z) on Clinical Risk Management (Y) results of the analysis concluded that patientsafety culture has a significant influence on clinical risk management.

This is in line with 15 study of The German Patient Safety Coalition, 2017 stating that one of the requirements of a clinical risk management system in a hospital is to build a positive safety culture. A study by Olii et al, 2019 in the journal of maritime 23 blic health revealed that accreditation is one of five factors identified as influencing the implementation of clinical risk management. And PMI Hospital is known to have the status of a fully accredited hospital. However, there is a study by Farokhzadian et al, 2014 which revealed that accr 32 tation and clinical governance are not enough in building clinical risk management, and this is in line with the results of research by Yasmi and Thabrany, 2015 which stated that the patient safety culture at Karya Bhakti Pratiwi Hospital Bogor was proven to be lacking even though the hospital 111 been accredited.

So that a communicative patient safety culture influences the increase in the level of clinical risk management establishment of PMI Hospital which is still at the basic level or in the initial/formation phase.

4.4 The Influence of Nurses' Knowledge of Patient Safety Objectives (X1) on nagementClinical Risk (Y)

The results of the analysis concluded that nurses' knowledge of patient safety targets has a

significant influence on clinical risk management. This is in linewith a study by Leotsakos A et al., 2014 in the journal of multidisciplinary healthcare, which states that it is very important to build patient safety education for healthcare professionals to get an understanding of therisks in service. The results of a study by Adibi et al, 2012 in the journal of diabetes and metabolic disorders, stated that the establishme of an effective clinical risk management system requires adequate staff education. Saud et al, 2021 is the journal of health, education and literacy stated that the continuing education factor is one of the key factors in the implementation of risk management, especially medical records. A study by Olii et al, 2019 in the journal of maritime public health stated that staffeducation is one of the factors that has been successfully identified and has a positive tendency towards the implementation of clinical risk management.

Knowledge of high patient safety targets can improve the status of clinical risk management in PMI hospitals that are at the basic level or in the initial/establishment phase of clinical risk management.

The Influence of Transformational Leadership Style(X2) on Patient Safety Culture (Z) The results of the analysis concluded that transformational leadership style has a significant influence on clinical risk management.

This is in line with a study by valinda et al, 2013 in the journal of nursing management which found that there was an influence of the lead of the room on the implementation of patient safety culture 45 \ study by Bahrami et al, 2014 revealed that there was a factor causing the weakness of patient safety culture in teasting hospitals, namely the lack of integrated policies due to policy-making factors and managerial initiative 17 n the system. A study by Habibi et al, 2017 in the Iranian Red Crescent Medical Journal stated that the largest dimension of the problem of patient safety culture in Iran compared to Turkey and the United States was at the managerial level. Rizk20 D. et al, 2022 in the journal of accounting and business economic applications found that interprofessional collaboration and transformational leadership had a positive and significant effect on work motivation and patient 34 ty. Mistry, et al, 2020 in the Indian Journal of Forensic Medicine and Toxicology stated that there was a very strong relationship between transformational leadership and patient safety. Seljemo et al, 2020 in BMC Health Services Research, stated that tisnsformational leadership style is an important factor in efforts to create and maintain a good patient sany culture in nursing homes. With charismatic transformational leadership at PMI Hospital, a high level of patient safety culture will be built in the hospital.

4.6 The Influence of Transformational Leadership Style (X2) on Management Clinical Risk (Y)

The results of the analysis concluded that transformational leadership style has a significant influence on clinical risk management. This is in line with a study by Olii et al, 2019 in the maritime public health journal stating that leadership is one of the factors that has been successfully identified and has a positive tendencytowards the implementation of clinical risk management. Dehnavieh et al, 2013 in. International Journal of Hospital Research, revealed that inefficient leadership is one of the factors that affects the establishment of hospital clinical risk management. Okafor et al (2015) revealed that the lack of attention from owners ormanagement is one of the factors causing low incident reporting so that from this study it can be concluded that leadership is related to hospital clinical risk management, especially those related to the reporting system.

Through charismatic leadership, it will build and increase the level of clinical risk anagement stability at PMI Hospital from the basic/non- implementative level to the implementative level.

Conclusion

Based on the entire series of analysis results and discussions, the following conclusions can be drawn:

- 1. Knowledge of patient safety targets, transformational leadership style, and patient safety culture simultaneously have a significant influence on similar risk management so that increasing knowledge of patient safety targets, fulfilling transformational leade 48 jip style, and forming a patient safety culture simultaneously will encourage an increase in the level of clinical risk management stability 3 it PMI Bogor Hospital.
- 2. Knowledge of patient safety targets has a significant influence on patient safety culture, so that increasing nurses' knowledge of patient safety targets will encourage the formation and strengthening of a patient safety culture at PMI Bogor Hospital.
- 3. Patient safety cultureinflucional and significant towards clinical risk management so that by ensuring the formation of a patient safety culture it will be able to encourage changes in the level of maturity of clinical risk management at PMI Bogor Hospital.
- 4. Nurses' knowledge of patient safety targets has a significant influence on clinical risk management, so that by increasing nurses' knowledge of patient safety targets, they will be to build clinical risk management at PMI Bogor Hospital.
- 5. Transformational leadership style has a significant influence on clinical risk management so that transformational leadership will be able to increase the level of clinical risk management at PMI Bogor Hospital.
- Transformational leadership style has an influence and is significant to clinical risk management. So with transformational leadership, it will strengthen the patient safety culture of PMI Bogor Hospital.

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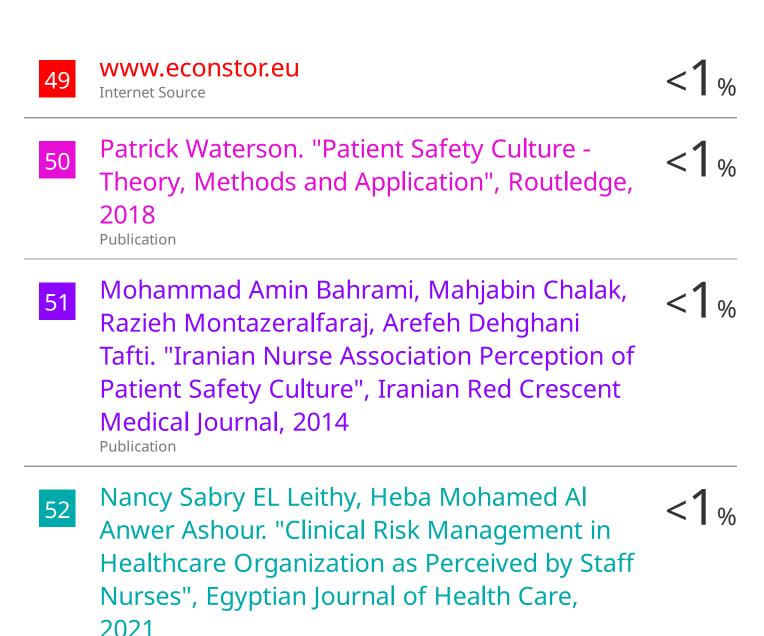
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