



## **THE RELATIONSHIP BETWEEN THE IMPLEMENTATION OF PATIENT SAFETY OBJECTIVES AND PATIENT SAFETY INCIDENTS**

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### **ABSTRACT**

According to *World Health Organization* (WHO) Medical errors can be caused by human factors. Adverse patient safety incidents were related to surgical procedures (27%), medication errors (18.3%), and treatment-related infection errors (12.2%). Whereas in Europe, the incidence of patients with infection risk is as much as 83.5% and evidence of medical errors shows 50-72.3%. The purpose of this study was to analyze the magnitude of the relationship between the implementation of patient safety goals and patient safety incidents at Salak Hospital, Bogor City. This research used descriptive analytic method with cross sectional research design. The population of this study were nurses and the sample size was 50 respondents. This research was conducted in December 2022 at Salak Hospital, Bogor City. Bivariate analysis using Chi Square. Based on the results of univariate analysis, it was found that the implementation of patient safety goals was appropriate for as many as 23 respondents (46.0%). patient safety incident. Bivariate analysis showed that there was a relationship between the implementation of patient safety goals and patient safety incidents with a p value of 0.049 (p value <0.05). There is a relationship between the independent and dependent variables. And based on these results, it is hoped that nurses will implement patient safety goals correctly in order to minimize the occurrence of patient safety incidents that can harm patients.

**Keywords:** Implementation, safety goals, safety incidents

### **INTRODUCTION**

Permenkes RI No 11 (2017) Patient Safety is a system that makes patient care safer, including risk assessment, patient risk identification and management, incident reporting and analysis, ability to learn from incidents and their follow-up, as well as implementation of solutions to minimize risks and prevent injuries caused by mistakes resulting from carrying out an action or not taking the action that should have been taken.<sup>1</sup>

*World Health Organization* (WHO) Declare patient safety is a serious global public health problem. Medical errors can be caused by human factors. Adverse patient safety incidents are related to surgical procedures (27%), medication errors (18.3%), and related infection errors care (12.2%) (WHO, 2017). Whereas in Europe, the incidence of patients with a risk of infection is as much as 83.5% and evidence of medical errors shows 50-72.3%.

Reports on patient safety incidents in Indonesia by province show that of the 145 incidents reported, 55 cases (37.9%) occurred in the DKI Jakarta area. Meanwhile, based on the type, there were 69 cases (47.6%) of near misses (KNC), 67 cases (46.2%) of KTD and 9 other cases (6.2%).

Based on the results of the preliminary study that the researchers conducted at Salak Hospital, Bogor City, it was found that where 7 out of 10 nurses implemented patient safety goals such as accurate patient identification, effective communication, and increased drug safety to watch out for, 3 out of 10 nurses had almost had a patient safety incident that was



almost wrong in administering the drug, because not carrying out the implementation of safety goals correctly, this shows that the implementation of patient safety goals has not been fully carried out by every nurse.

The Patient Safety goal is to drive specific improvements in patient safety. The objectives highlight problematic parts of health care and describe evidence and solutions based on evidence-based consensus and expertise on these issues. Recognizing that good system design is intrinsically to provide safe and high-quality health care, the general objective is to focus on holistic solutions wherever possible. In the process of achieving these goals, 3

A Patient Safety Incident (IKP)/Patient Safety Incident is any event or situation that can result in or has the potential to result in harm (illness, injury, disability, death, etc.) that should not have happened.

## **RESEARCH METHODS**

This type of research is Analytical Research with a quantitative approach using a Cross Sectional design or design. Analytical research is research that tries to explore how and why health phenomena occur. Then analyze the dynamics of the correlation between phenomena, both between risk factors and effect factors, between risk factors and between effect factors

This research design uses cross sectional, cross sectional is research that aims to get an overview by studying the dynamics of the correlation between factors and effects, using approaches, observations or data collection at one time (point time approach). This means that each research object is only observed once and the measurement of the character status or subject variables at the time of examination.<sup>4</sup>

Variables are behaviors or characteristics that give different values to something. <sup>4</sup> In this study there are two variables, namely the independent variable and the dependent variable. the independent variable is the variable that influences or causes the change or the emergence of the dependent (dependent) variable. <sup>5</sup> The independent variable in this study is Implementation of Patient Safety Goals. The dependent variable is the variable that is affected or becomes the result, because of the independent variable. <sup>5</sup> The dependent variable in this study is the Patient Safety Incident.

This research was conducted at the Salak Hospital, Bogor City and the time of the study that is, it shows the time the research was conducted where the data was obtained. WThe research was carried out on December 1-3, 2022.

The research results were analyzed by univariate and bivariate. Univariate analysis is presented in the form of a frequency distribution which includes the frequency of Implementation of Patient Safety Goals with Patient Safety Incidents at Salak Hospital, Bogor City in 2022. Furthermore, bivariate analysis was carried out to determine the relationship between Implementation of Patient Safety Goals and Patient Safety Incidents at Salak Hospital, Bogor City in 2022.

In this study the location of the research was in Salak Hospital, Bogor City. Data collection in this study used a random sampling technique with a total of 50 respondents.

## RESEARCH RESULT

**Table 1. Characteristics of research subjects based on gender**

No	Gender	Frequency	Percentage (%)
1	Man	35	70.0
2	Woman	15	30.0
	Total	50	100

Source: Processed Results of SPSS 21

Based on table 1, the frequency distribution of respondents shows that out of 50 nurses the frequency of characteristics of the most respondents based on female sex was obtained as many as 35 nurses with a percentage of 70.0%.

**Table 2. Characteristics of research subjects based on age**

No	Age (Years)	Frequency	Percentage (%)
1	< 25 years	26	52.0
2	26-35 Years	15	30.0
3	>36 Years	9	18.0
	Total	50	100

Source: Processed Results of SPSS 21

Based on table 2 of the frequency distribution based on nurses at Salak Hospital, Bogor City, the results showed that from 50 nurses, characteristic frequency data were obtained the most respondents based on the age of nurses <25 years were 26 nurses with a presentation of 52.0%.

**Table 3 Frequency Distribution of Respondents Based on Education**

No	Education	Frequency	Percentage (%)
1	Nurse	12	24.0
2	S1	4	8.0
3	D3	34	68.0
	Total	50	100

Source: Processed Results of SPSS 21

Based on table 3 the frequency distribution of the respondents shows that out of 50 nurses frequency data obtained based on nurse education at Salak Hospital, Bogor City, most respondent characteristic frequency data based on D3 nurse education as many as 34 nurses with a presentation of 68.0%.



**Table 4 Frequency Distribution of Respondents Based on Years of Service**

No	Years of service	Frequency	Percentage (%)
1	< 1 year	2	4.0
2	1-15 Years	45	94.0
3	>16 Years	3	6.0
	Total	50	100

Source: Processed Results of SPSS 21

Based on table 4 the frequency distribution of respondents based on years of service shows that out of 50 nurses the frequency data obtained from the characteristics of the most respondents based on the working period of 1-15 years as a nurse with a percentage of 94.0%.

**Table 5. Frequency Distribution of Implementation of Patient Safety Goals at Salak Hospital**

No	Implementation of Patient Safety Goals	Frequency	Percentage (%)
1	In accordance	23	46.0
2	It is not in accordance with	27	54.0
	Total	50	100

Source: Processed Results of SPSS 21

Based on table 5 Frequency distribution Implementation of Patient Safety Goals at Salak Kota Hospital Bogor In 2022, the results of the study show that from 50 nurses obtained frequency distribution data Implementation of Patient Safety Goals with the appropriate category as many as 23 nurses with a percentage of 46.0%.

**Table 6. Frequency Distribution of Patient Safety Incidents at Salak Hospital, Bogor City**

No	Patient safety incident	Frequency	Percentage (%)
1	No Incidents	31	62.0
2	Incident Happened	19	38.0
	Total	50	100

Source: Processed Results of SPSS 21

Based on table 6 Frequency distribution Patient Safety at Salak Kota Hospital Bogor In 2022, the results of the study show that from 50 nurses obtained frequency distribution data Patient safety incident with no incident category as many as 31 nurses with a percentage of 62.0%.

**Table 7. Relationship between Implementation of Patient Safety Goals and Patient Safety Incidents**

Implementation of patient safety goals	Patient safety incident				Total		P Value	OR
	Not occur		Happen					
	F	%	F	%	F	%		
Not occur	18	36.0	5	10.0	23	46.0	0.049	3,343
Happen	14	28.0	13	26.0	27	54.0		
Total	32	64.0	18	36.0	50	100		

Source: Processed Results of SPSS 21

Based on table 7 the results of the analysis of the implementation of patient safety goals with patient safety incidents with 50 respondents, bivariate analysis with the Chi Square test, it is known that of the 50 implementations of patient safety goals did not occur with patient safety incidents not occurring with a frequency of 18 (36.0%).

The statistical test results obtained a p value = 0.049, which means the p value <0.05. So the null hypothesis is rejected and the researcher's hypothesis is accepted. So that there is a relationship between the implementation of patient safety goals and patient safety incidents at Salak Hospital, Bogor City in 2022.

The odds ratio (OR) shows a value of 3.343, which means that implementing patient safety goals in an appropriate category has an opportunity value for patient safety incidents 3 times better than nurses with implementation of patient safety goals in an inappropriate category, which means the more according to the implementation of patient safety goals, the less incidents of patient safety occur.

## DISCUSSION

### A. Univariate

#### 1. Implementation of Patient Safety Goals

Based on table 5 it can be seen that of the 50 respondents who implemented the Patient Safety Goals as many as 23 nurses with a percentage of 46.0%.

Implementation is the implementation of an action plan that is determined with the intention that the client's needs are met optimally which includes aspects of improving, maintaining and restoring health by involving the client and family.

The Patient Safety goal is to drive specific improvements in patient safety. The objectives highlight problematic parts of health care and describe evidence and solutions based on evidence-based consensus and expertise on these issues. 6

The results of this study are in line with research conducted by Clara Atika Cahyani (2019) with the title "Relationship of Implementation of Patient Safety Goals with Patient Safety Incidents in the Emergency Room at Marine Hospital Cilandak and Dr. Mintohardjo DKI Jakarta" the results of his research showed that based on the Implementation of Patient



Safety Goals, the majority of nurses carried out the Implementation of Patient Safety Goals according to 21 nurses (56.8%).

The argument from the researchers was that from the results obtained there were more implementations of appropriate patient safety goals by 23 respondents out of a total of 50 respondents because the results of the statements on the questionnaire items that the researchers had distributed were known to nurses. by providing care according to what must be done, the better the knowledge and experience of a nurse, the more effective the care provided.

## **2. Patient Safety Incidents**

The results of research conducted by researchers at Salak Hospital, Bogor City, showed that patient safety incidents with 50 respondents occurred in 19 respondents (38.0%).

Patient Safety Incident (IKP)/Patient Safety Incident is any event or situation that may result in or has the potential to result in harm (illness, injury, disability, death, etc.) unintentional and conditions that result in or have the potential to result in preventable injury to the patient. 7 Patient safety incidents can be in the form of KTD, KNC, KTC and KPC.

The results of this study are in line with research conducted by Clara Atika Cahyani (2019) with the title "Relationship of Implementation of Patient Safety Goals with Patient Safety Incidents in the Emergency Room at Marine Hospital Cilandak and Dr. Mintohardjo DKI Jakarta" the results of his research showed based on Patient Safety Incidents that the number of patient safety incidents reached 10 respondents (27%),

The argument from the researcher is that from the results obtained there were 19 respondents out of a total of 50 respondents. From the results of the analysis of patient safety incident questionnaire items, respondents were able to provide appropriate statements on related statement items, To improve quality and safety there is a latent or difficult to change condition that may become apparent at times where the consequences of an incident are only when "misjudgment" aligns or adapts to other system variables such as work overload and distractions, poorly designed equipment installations, and fast and busy schedule in serving patients. . Management factors determine and influence the quality of health services, including the occurrence of patient safety incidents.

## **B. Bivariate**

The relationship between the implementation of patient safety goals and patient safety incidents with a total of 50 respondents, bivariate analysis with the Chi Square test, it is known from 50 respondents that the implementation of patient safety goals did not occur with patient safety incidents occurring with a frequency of 27 (54.0%).

Implementation of patient safety goals is the implementation of action plans to avoid unexpected events or harm to patients and to encourage specific improvements in patient safety.

A patient safety incident is any unintentional event and condition that results or has the potential to result in preventable injury to a patient.

This is in line with research conducted by Clara Atika Cahyani (2019) with the title "Relationship of Implementation of Patient Safety Goals with Patient Safety Incidents in the Emergency Room at Marine Hospital Cilandak and Dr. Mintohardjo DKI Jakarta" There is a



significant relationship between the implementation of patient safety goals and patient safety incidents with a correlation coefficient of 0.009.

Based on the results of research conducted by researchers, there is a relationship between the implementation of patient safety goals and patient safety incidents. Due to the implementation of solutions to minimize risks and injuries caused by errors due to carrying out an action that should have been taken.

## **CONCLUSION**

From the results of the study it can be concluded as follows

1. It is known that out of 50 respondents implementing patient safety goals at Salak Hospital, Bogor City in 2022, there were 23 respondents (46.0%) who had appropriate implementation of patient safety goals.
2. It is known that from 50 respondents the results were 19 respondents (38.0%) of patient safety incidents that occurred.
3. There is a relationship between Implementation of Patient Safety Goals and Patient Safety Incidents at Salak Hospital, Bogor City in 2022 with a p value of 0.049 (p value <0.05).

## **SUGGESTION**

Based on the results of this study, there are several suggestions that can be conveyed by researchers, including:

1. For educational institutions  
To provide input for the development of science, especially nursing management science related to the implementation of patient safety goals with patient safety incidents.
2. For Salak Hospital, Bogor City  
As input knowledge, especially regarding the implementation of patient safety goals with patient safety incidents.

## **BIBLIOGRAPHY**

1. Republic of Indonesia Ministry of Health. Regulation of the Minister of Health number 11 of 2017 concerning Patient Safety. Jakarta: RI Ministry of Health; 2017.
2. WHO Global Patient Safety Challenge: Medication Without Harm. Geneva: World Health Organization; 2017 (<http://apps.who.int/iris/bitstream/10665/255263/1/WHO-HIS-SDS-2017.6-eng.pdf?ua=1&ua=1>)
3. Nursalam & Ferry Efendi. 2008. Education in Nursing, Salemba Medika, Jakarta.
4. Sugiyono. 2016. Quantitative, Qualitative and R&D Research Methods. Bandung: PT Alfabeta.
5. Nursalam. 2016. Nursing Science Research Methods: A Practical Approach. New York: Salemba Medika.
6. Minister Of Health Of The Republic Of Indonesia (2008) 'Minimum Hospital Service Standards', Minister Of Health Of The Republic Of Indonesia Number: 129/Menkes/SK/II/2008.
7. Republic of Indonesia Ministry of Health. (2011), Hospital Accreditation Standards, Cooperation of the Directorate General of Health Efforts, Ministry of Health of the Republic of Indonesia with the Hospital Accreditation Commission (KARS), Jakarta.