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## Correlation between nurse knowledge and attitude with hand hygiene compliance

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Original Article

### **ABSTRAGT**

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Backround: World Health Organization (WHO) stated that nosocomial infection cause 1,4 million death every day in the world in 2010. Indonesia has a high incidence of infection nosocomial within ten public hospitals in 2010, where the rate was between 6-16% with an average 9,8%. Nurses are expected to have the knowledge and attitude in the implementation of hand hygiene because education and behavior are the factors involved in performing hand hygiene

**Objective:** The purpose of this research is to determine the relationship between nurses' knowledge and attitudes with hand hygiene compliance in Nur Hidayah Hospital, Bantul.

Methods: This research was an analytic observational study with the cross-sectional design. The variable of this research is knowledge, attitude, and hand hygiene compliance of nurses, with the research used questionnaire and checklist sheet. Analysis of data was done using analysis univariate and bivariate (Chi-square) test.

Result: The research indicated there was a connection between knowledge and hand hygiene (P= 0,002; 95% CI) and also there is a connection between attitude and compliance of hand hygiene (P= 0,003;95% CI) at Nur Hidayah Bantul hospital. Those show that attitude is a risk factor. Conclusion of hand hygiene connection the tween churses' knowledge and attitude with hand hygiene compliance at Str. Hidayah Bantul hospital.

Latar Belakang: World Health Organization (WHO) menyebutkan bahwa infeksi nosokomia menyebabkan 1,4 jura kematian setiap hari di dunia pada tak 20 2010. Di Indonesia, pada tah 12 2010 ada 10 pendidikan rumah sakil umum yang terjadi pada kasus injeksi nosokomial yang tinggi yaiti 6-16% dengan rata rata 9,8%. Perawat diharapkan memilik pengetahuan dan sikap yang tinggi baik dalam pelaksunaan kebersil 71 tangan karena pengetahuan dan sikap merupakan faktor risiko dalam melakukan kebersihan tangan. Tujuan penelitian ini adalah ur 19 mengetahui hubungan antara pengetahuan dan sikap dengan kepatuhan kebersih 7 tangan perawat di Rumah Sakit Nur Hidayah di Bantul.

**Tujuan Penelitian:** Tujuan penelitian ini adalah un<mark>19</mark> mengetahui hubungan antara pengetahuan dan 17 pp perawat dengan kepatuhan kebersihan tangan di Rumah Sakit Nur Hidayah, Bantul.

**Metode:** Jenis penelitian ini adalah observasional analitik dengan desain cross sectional. Variabel penelitian 11 adalah sikap pengetahuan dan kepatuhan kebersihan tangan perawat dengan jumlah responden 40. Instrumen penelitian ini menggunakan kuesioner dan lembar daftar periksa. Analisis data menggunakan analisis uji univariat dan bivariat (Chi-square).

Hasil: Terdapat hubungan yang signifikan antara pengetalan dan kebersihan tangan (P=0,002; 95% CI) dan hubungan sikap dan kepatuhan kebersihan tangan (P=0,003;95% CI) di RS Nur Hidayah Bantul.

Hal in menunjukkan bahwa variabel sikap adalah 9 ktor risika p. Sp. GS Sp. Sp. GS Kesim pular Terdapat hubungan yang bermakna antara per tahuan dan sikap perawat dengan kepatuhan hand hygiene pada perawat di RS Nur Hidayah Bantul.

#### INTRODUCTION

Hospital, as a place of treatment, is also a health care facility that can be a source of infection. Nosocomial infections can occur in patients, health workers, and to everyone who comes to the hospital. Infections in health care center can be transmitted or obtained through health workers, patients, carrier status visitors, or because of hospital conditions.¹ Prevention and control are the most significant challenges in health services. Increased cost to overcome healthcare-related infection is a big concern for patients and healthcare professionals. One simple step of eliminating these infections and oth 16 infections is proper hand washing.²

Hand hygiene significantly reduces the number of disease-causing microorganisms and minimizes cross-contamination.<sup>3</sup> Hand washing is the initial and closing procedure performed by nurses in providing nursing care. This action can eliminate most of the microorganisms present in the skin.<sup>4</sup> The recognition of the nurses themselves must also support the application of handwashing and awareness in carrying out the correct Standard Operational Procedure (SOP) for nurses, to protect themselves and even patients with the prectious material. The habit of handwashing in hospitals is a fundamental behavior in the effort of preventing cross infection.<sup>5</sup>

In 2010 as many as ten general education hospitals in Indonesia recorded the incidence of nosocomial infections by 6-16% (mean 9.8%). In developing countries like Indonesia, the rat 130 f nosocomial infections is much higher. Nosocomial infections are high due to lack of supervision, poor prevention practices, inappropriate use of limited resources and overcrowded hospitals. Research conducted in two major cities in Indonesia shows that the

incidence of nosocomial infections ranges from 39% -60%. A preliminary study showed that and the majority of nurses did not follow the hand hygiene and washing procedure.

### **METHODS**

This study is an observational analytic study with cross sectional approach. We used total sampling. The inclusion criteria were all nurse who worked in RS Nur Hidayah and willing to participate. Exclusion crite 24 were all nurse who were on leave. Fourty respondents who met the issusion and exclusion criteria were analyzed. Instruments used in this research were questionnaire and checklist. Questionaire was used to measure the knowledge and attitude of the subjects. Knowledge Questionaire had Cronbach's alpha value 0,63, which consist of 19 items, including 13 favourable questions and 6 unfavourable questions. For favourable questions, 1 is the score for yes and score 0 is for answering no. While for unfavourable questions, score 0 is for answering es and 1 is for opposites answer. If the total score was < average (<17), subject was categorized as low knowedge If the total score was ≥ average (≥17), subject was classified as high.

Attitude questionnaire had Cronbach's alpha value 0,944 which consisted of 15 item, including 11 favourable questions and unfavourable questions. Favourable questions were scored 5 for highly agree (SS), 4 for agree (S), 3 for in doubt (R), 2 for disagree (TS), 1 for highly disagree (STS). And for unit vourable questions were scored 1 for highly agr<sub>45</sub>(SS), 2 for agree (S), 3 for in doubt (R), 4 for disagree (TS), and 5 for profoundly disagree (STS). If the total score was < average, subjects get in as poor categorization(<65), while if the score was ≥ average, subjects were categorized as good (≥65). The checklist was used to asses nurse's compliance on practicing hand hygiene based on SOP of Nur Hidayah Bantul hospital.

Statistical analysis was done using univariate and bivarate analysis. Bivariate analysis used was Chi-square test, in which independent variables were knowledge and attitude, while dependent

riable was hand hygiene compliance. Statistical analysis using Chi-Square with Confident Interval (CI) 95% significance ( $\alpha$  = 0,05).

Statistical analysis was done using univariat and by by a tanalysis. Bivariat analysis used was chi-square test, in which independent variables were knowledge and attitude, while dependent riable was hand hygiene compliance. Statistial analysis using Chi-Square with Confident Interval (CI) 95% significancy ( $\alpha = 0.05$ ).

### RESULTS Subject Demographic

Subject demographic is presented in Table 1. The present study showed that female nurses have better compliance (21 of 32 female nurses (65,6%) compared to male nurses (62,5). The age group with better compliance is those >30

years old (100%). All subjects graduated with a diploma, however, only 24 nurses had good hand hygiene compliance. Nurses with ≥2 years of working experience had better compliance (17 perawat) 63%). Only 17 nurses from a total of 27 nurses who had joined nosocomial infection workshop, had good compliance (65,4%). Error (45)

Present study found that nurses with high knowledge (score ≥ 17) were 23 (57,5%), which is more than those with poor knowledge (42,5%). Nurses with the good attitude (score ≥ 65) were 25 (62,5%) which is more than poor attitude (37,5%). Nurses hand hygiene compliance in Nur Hidayah Bantul hospital who had good compliance with score ≥ 44 were 24 (60%), which is more than poor compliance (40%) (Table 2).

Table 1. Subject demographic in Nur Hidayah Bantul hospital

No	Article Error (ETS)  Variable	Compliance				
No	variable	Poor		Good		
1	Gender	N	%	N	%	
	a. Male	3	37,5	5	62,5	
	b. Female	11	34,4	21	65,6	
2	Age 12					
	a. 22-24 years old	5	71,5	2	28,6	
	b. 25-27 years old	6	33,3	12	66,	
	c. 28-30 years old	4	36,4	7	63,6	
	d. 31-33 years old	0	0	3	100	
	e. 34-36 years old	0	0	1	100	
3	Education					
	a. <mark>SPK</mark>	0	0	0	0	
	b. D3 Sp. (55)	16	40	24	60	
	c. S1	0	0	0	0	
4	Working Experience					
	a. <2 Years	6	56	7	54	
	b.≥2 Years	10	37	17	63	
5	Nosocomial infection workshop					
	a. Never	7	50	7	50	
	b. Yes	9	34,6	17	65,4	

Table 2. Knowledge and Attitude with Hand Hygiene compliance of nurses Nur Hidayah Bantul hospital

No	Missing "Variable	Total (n)	Percentage (%)
1	Knowledge		
	a. Low	17	42,5
	b. High	23	57,5
2	Attitude		
	a. Poor	15	37,5
	b. Good	25	62,5
3	Hand Hygiene compliance		
	a. Poor	6	40
	b. Good	24	60
	Total	40 Miss	sing "," 100

### Correlation between Knowledge with Hand Hygiene Compliance

hospital are as follow:

Article Error

The results of statistical analysis using Chi-Square between knowledge and hand hygiene

Table 3. Correlation between knowledge with hand hygiene compliance in nurses Nur Hidayah Bantul hospitable Error (183)

	Compliance				10 Total			DD.	
Knowledge	Poor		Good		iotai		P value	RP (95 % CI)	
	N	%	n	%	n	%		(20 70 00)	
Low (mean <17)	12	75	5	20,8	17	42,5		4,059 1,582-10,412	
High (mean ≥17)	4	25	19	79,2	23	57,5	0,002		
Total	16	100	24	100	40	100			

Based on Table 3, nurses who had low knowledge and poor compliance were 75%, which is larger than nurses who had high knowledge and poor compliance (25%). Nurses who had low knowledge and good compliance were even less (20,8%) compared to those who had high knowledge and good compliance (79,2%). Subjects with low knowledge have 4,059 higher chances of poor compliance compare to those with the high level of knowledge (95% CI: 1,582-10.412 p-value 0,002). This result shows that knowledge affects hand hygiene compliance in Rumah Sakit Nur Hidayah Bantul.

### The Correlation between Attitude and Hand Hygiene Compliance

Table 4 shows that nurses with poor attitude and compliance towards hand hygiene (68,7%) were more than those who had good attitude but poor compliance (31,25%). Nurses who had poor attitude but good hand hygiene (16,7%) were less than those who had good attitude and compliance (83,3%). Nurses who had poor attitude is 3,667 times higher risk of poor compliance compare to those with good attitude (95% CI: 1,581-8,054 p value = 0,003). This result showed that, attitude affects the compliance of

Table 4. The Correlation between attitude with hand hygiene compliance of nurses in Nur Hidayah Bantul hospital.

	Compliance				Total		10	RP
Knowledge	Poor		Good		iotai		P value	(95 % CI)
	N	%	n	%	n	%	'	(** /* **)
Poor (Mean <65)	11	68,75	4	16,7	15	37,5		0.445
Good (Mean ≥65)	5	31,25	20	83,3	25	62,5	0,003	3,667 1,581-8,504
Total	16	100	24	100	40	100		

hand hygiene practice in Nur Hidayah Bantul hospital.

### DISCUSSION

The present study shows a significant correlation between knowledge and hand hygiene compliance, which is a risk factor. Lower knowledge subjects are at 4,059 higher risks of having poor compliance compared to more top knowledge subjects. This is statistically significant (95% CI; p-value =0,002), so the conclusion is the knowledge affects hand hygiene compliance in Nur Hidayah Bantul hospita

The analysis shows that there is a correlation between nurse's knowledge with hand hygiene compliance. The better understanding is affected by a lot of factors. The fi 22 factor is nurses' education level, in which the higher the level of education the better they comprehend information. Knowledge is closely related to education, where the better one's education, the broader their insight is expected. On the contrary, the lower their education the less information is obtained.8 The present study shows, all subjects are diploma graduates, 24 nurses or 60% of the research subject complied to hand hygiene protocol. Education level also affects information comprehension, for instance when they were informed about five steps of hand hygiene protocol by WHO standard if the education level is better then they can receive and apply information better as well?

The second factor is the length of work

experience Nurses with more extended working experience will have better knowledge of infection prevention because they are used to the hospital environment. The present study shows that nurses who have work for  $\geq 2$  years have better hand hygiene compliance, in which 17 subjects or 63%. The nurse who has work for the longest time has better knowledge on the prevention of nosocomial infection in the hospital

The third factor is involved in the workshop. Workshops will enhance nurses' knowledge on the prevention of nosocomial infection. The present study shows that nurses who have to attend workshops are better at doing hand hygiene protocol, which is 17 more or 65,4%. Training acts as a source of information, which can give broader insight into their way of thinking or the use of reasoning and critical thinking, therefore will increase their sense of problemsolving. The researcher argues that workshop is beneficial to support their knowledge of nosocomial infection.<sup>9</sup>

Table 3 showed that most nurses have good knowledge, in which from 17 nurses with poor knowledge only five (20,8%) have good compliance on hand hygiene protocol. While from 23 nurses with good knowledge, only 19 nurses (57,5%) have good compliance on hand hygiene protocol. Knowledge or cognition is an essential aspect of forming one's action. This knowledge can also affect one's behavior.<sup>10</sup>

Based on field analysis done with the Head of Infection Prevention and Control (Pencegahan

dan Pengendalian Infeksi/PPI), workshops on nosocomial infection have been programmed. Nurses who are known often do not follow the hand hygiene protocol during the five moment, are suggested or mandatory to take the workshops. These workshops aim to provide knowledge and experience about nosocomial infection which will be applied in the hospital settings, therefore nurses are expected to comply in the hand hygiene protocol.

A nurse is a professional when they have the appropriate knowledge, skills, and ethical conduct. The knowledge aspect can always improved with continuous workshops and education for all employees on all element of infection prevention protocols. Pencegahan dan Pengendalian Infeksi (PPI) said that they give motivation to their nurses in the hope of increasing hand hygiene compliance and to form a disciplined attitude and compliance. The continuous monitoring is also expected from the PPI to maintain good hand hygiene compliance of the nurse.

Nur Hidayah Bantul hospital has posters of hand hygiene protocol installed on every nurse ward to increase their nurse's knowledge and compliance. The aim of these posters implies to remind the nurses at all time in case they forget the standard operating procedure and five moments for hand hygiene which they had got during their study or workshops.

During observation, we had not found any posters of five moment hand hygiene protocol in any of the patient's ward. Posters installed to remind the nurses are still insufficient because they were only present in two nurse station. This insufficiency can hinder the nurse from doing the hand hygiene protocol because they might forget the indication or technique of the standard hygiene.<sup>12</sup>

Bivariate analysis regarding nurse's attitude and compliance of doing the hand hygiene protocol showed that p-value of attitude variable is 0,003 (p <0,05), consequently Ha is accepted, and Ho rejected. Those indicated that there is the significant correlation between attitude and

and hygiene compliance, which means that attitude is a risk factor.

Subjects with the por attitude are in 3,667 higher risks of poor hand hygiene compliance compared to those with the good attitude. The result is statistically significant with 95% CI 1,581-8,054 p-value = 0,003, which means that attitude is the factor that affects the implementation of hand hygiene protocol in Nur Hidayah Bantul hospital.

The results of analysis showed a correlation between attitude and hand hygiene compliance because more nurses have the good attitude. Nurses with the positive attitude are more likely to wash their hand according to the protocol.13 Nurses with better attitude are, mostly, also those with longer working experience, which include 17 nurses or 63%. The longer the working experience, the stronger their personal experience, thus increase their compliance by doing the hand hygiene protocol. The length of working experience will also determine one's attitude and performance, The more extended of the working experience, the better their attitude because they become more accustomed to their work.14

Table 5 shows that most nurses have a good attitude, in which from 15 nurses with the poor attitude only 4 (16,7%) had good compliance, while from 25 nurses with good attitude 20 (83,3%) had good compliance. This result shows that good attitude will affect their compliance, even though not every nurses' with the good attitude has good compliance, while the majority of nurse's with poor attitude also had poor compliance.

Attitude will help people reach their goals. Thus they will act positively or negatively, therefore there was a nurse that felt capable or incapable of wash their hand according to the protocols.<sup>13</sup> Through attitude, we comprehend the process of consciousness that determines concrete action and actions that might be done by individuals in their social life.<sup>8</sup>

RNur Hidayah Bantul hospital has the facilities and infrastructure to support good hand hygiene, for instance running water, soap,

towel, or disposable tissues. These facilities and infrastructure will help support nurses' attitude to comply with hand hygiene protocol, and they are located in every ward. An attitude might not automatically materialize into behavior or action (over behavior). Because attitude shows an actuality and connotation of the suitability between reaction and stimulus, the facility becomes one of supporting condition for the realization of an attitude into action. 10 World Health Organization stated that the standard facilities and infrastructures of hand hygiene protocol ares running water, soap, towel or disposable tissue, and alcohol-based antisept c.15 Alcohol-based antiseptic should always be present in health facility.16

### CONCLUSION

The present study shows that there is a significant correlation between knewledge and hand hygiene compliance, and there is also a significant correlation between nurses' attitude and hand hygiene compliance. Routine workshops or education are very important for nurses who had or had not attend any workshop in Nur Hidayah Bantul hospital in order to control and prevent the nosocomial infection especially hand hygiene. Increase awareness is needed for every paramedic to maintain and increase knowledge and attitude, as well as hand hygiene compliance correctly and accordingly.

Hopefully, the result of this study can applied as a basis for further research about hand hygiene where other confounding factors can be analyzed, such as the level of education and workshop of nurses in Nur Hidayah Bantul hospital.

### CONFLICT OF INTEREST

We declare that there is no conflict of interest.

### Acknowledgement

Non declare

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- **Sp.** This word is misspelled. Use a dictionary or spellchecker when you proofread your work. **Proofread** This part of the sentence contains an error or misspelling that makes your meaning unclear. **Sp.** This word is misspelled. Use a dictionary or spellchecker when you proofread your work. **Sp.** This word is misspelled. Use a dictionary or spellchecker when you proofread your work. **Frag.** This sentence may be a fragment or may have incorrect punctuation. Proofread the sentence be sure that it has correct punctuation and that it has an independent clause with a complete subject and predicate. **Sp.** This word is misspelled. Use a dictionary or spellchecker when you proofread your work. **Sp.** This word is misspelled. Use a dictionary or spellchecker when you proofread your work. **Sp.** This word is misspelled. Use a dictionary or spellchecker when you proofread your work. ETS **Article Error** You may need to remove this article. **Sp.** This word is misspelled. Use a dictionary or spellchecker when you proofread your work. **Sp.** This word is misspelled. Use a dictionary or spellchecker when you proofread your work. **Proper Nouns** You may need to use a capital letter for this proper noun. **Sp.** This word is misspelled. Use a dictionary or spellchecker when you proofread your work. ETS **Sp.** This word is misspelled. Use a dictionary or spellchecker when you proofread your work. **Sp.** This word is misspelled. Use a dictionary or spellchecker when you proofread your work. **Sp.** This word is misspelled. Use a dictionary or spellchecker when you proofread your work.
- Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.
- **Sp.** This word is misspelled. Use a dictionary or spellchecker when you proofread your work.

- Article Error You may need to use an article before this word.

  S/V This subject and verb may not agree. Proofread the sentence to make sure the subject agrees with the verb.

  Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.

  Article Error You may need to use an article before this word.

  Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.

  Article Error You may need to use an article before this word. Consider using the article the.
- Missing "," Review the rules for using punctuation marks.
- **Confused** You have used either an imprecise word or an incorrect word.
- **Proofread** This part of the sentence contains an error or misspelling that makes your meaning unclear.
- Article Error You may need to use an article before this word.
- Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.
- Article Error You may need to use an article before this word.

PAGE 3

- Article Error You may need to use an article before this word.
- Sentence Cap. Review the rules for capitalization.
- (ETS) Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.
- (ETS) Sp. This word is misspelled. Use a dictionary or spellchecker when you proofread your work.
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Missing "," Review the rules for using punctuation marks.

Missing "," Review the rules for using punctuation marks.

**Article Error** You may need to use an article before this word.

**Prep.** You may be using the wrong preposition.

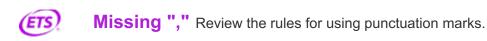
**Prep.** You may be using the wrong preposition.

**Article Error** You may need to use an article before this word. Missing "," Review the rules for using punctuation marks. **Article Error** You may need to use an article before this word. **Proper Nouns** You may need to use a capital letter for this proper noun. **Proofread** This part of the sentence contains an error or misspelling that makes your meaning unclear. **Sp.** This word is misspelled. Use a dictionary or spellchecker when you proofread your work. **Confused** You have used either an imprecise word or an incorrect word. **Prep.** You may be using the wrong preposition. **Article Error** You may need to use an article before this word. Wrong Article You may have used the wrong article or pronoun. Proofread the sentence to make sure that the article or pronoun agrees with the word it describes. **Possessive** Wrong Article You may have used the wrong article or pronoun. Proofread the sentence to make sure that the article or pronoun agrees with the word it describes. **Possessive** Wrong Article You may have used the wrong article or pronoun. Proofread the sentence to make sure that the article or pronoun agrees with the word it describes. Missing "," Review the rules for using punctuation marks.

Article Error You may need to use an article before this word. Consider using the article the.

**Article Error** You may need to remove this article.

Missing "," Review the rules for using punctuation marks.



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- Run-on This sentence may be a run-on sentence.
- Article Error You may need to use an article before this word.
- Article Error You may need to use an article before this word.
- Sentence Cap. Review the rules for capitalization.
- **Frag.** This sentence may be a fragment or may have incorrect punctuation. Proofread the sentence be sure that it has correct punctuation and that it has an independent clause with a complete subject and predicate.
- **Prep.** You may be using the wrong preposition.
- (ETS) Article Error You may need to use an article before this word.
- Missing "," Review the rules for using punctuation marks.
- Article Error You may need to use an article before this word.
- Verb This verb may be incorrect. Proofread the sentence to make sure you have used the correct for of the verb.

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