

Association between nursing care performance with perception of financial rewards, career development and supervision



Ayu Ratih Cempakasari,^{1*} Ni Made Sri Nopiyani,² Dyah Pradnyaparamitha Duarsa²

ABSTRACT

Background and purpose: The performance of nurses in providing care to patients is an important component for patient satisfaction and healing. Nurse's performance is determined by many factors. This study aims to determine the association between nurse performance in providing nursing care with education, nurse perceptions of financial rewards, career development opportunities, and supervision of the ward head.

Methods: A cross-sectional survey was conducted on all nurses (164 people) at inpatient wards of Tabanan General Hospital. Data collection was carried out using a self-administered questionnaire in April 2018. Bivariate analysis was performed using chi-square test, and multivariate analysis was conducted using multiple logistic regression to determine the adjusted odds ratios.

Results: The results showed that the mean score of nursing care performance was 70.17 from a maximum score of 80. All independent variables were found to be associated with nurse performance, namely perceptions of career development opportunities (AOR=1.6; 95%CI: 1.03-1.3; p=0.01), financial rewards (AOR=1.1; 95%CI: 1.01-1.2; p=0.03) and supervision of the ward chief (AOR=1.1; 95%CI: 1.01-1.2; p=0.02).

Conclusion: Nurses' perceptions of financial rewards, career development opportunities, and supervision of the ward chief are associated with nursing care performance. Provision of rewards, career development and supervision need to be considered in the efforts to improve nurse performance.

Keywords: performance of nursing care, financial rewards, career development, supervision

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¹Public Health Postgraduate Program, Faculty of Medicine, Udayana University,

²Department of Public Health and Preventive Medicine, Faculty of Medicine, Udayana University

INTRODUCTION

The quality of health services remains a global challenge in both developed and developing countries.¹ The better public awareness of their health, the higher the demands of the community for quality of health services including hospital services.² Nurses are the main health human resource in hospitals that determine the quality of service due to their intensive interaction with patients.³ However, the provision of nursing care is often perceived inadequate by patients, families, and other health workers.⁴ Assessment of nurse performance in providing care is an important feedback for improving the quality of care.⁵ The results of studies on factors related to nurse performance have been widely published, but those that specifically examine nurses performance in nursing care are still limited in Indonesia.⁶⁻¹⁰

This study aims to determine the performance of nurses in providing nursing care as well as its association with education levels, financial rewards, career development opportunities and supervision of the ward chief.

METHODS

A cross-sectional survey was conducted at Tabanan District Hospital. The hospital is a type B public

teaching hospital for medical doctors, nurses and other health professionals. The hospital has 164 nurses in charged for inpatient wards. The educational backgrounds of the nurses at Tabanan General Hospital consisted of high school, diploma and bachelor. Nurses with diploma and bachelor backgrounds have similar responsibilities in terms of providing care for the patients, while those with high school background are responsible to assist nurses with higher level of education.

Respondents of the study were all nurses at the inpatient wards. The other eligibility criteria are those who had worked at least 6 months, were willing to be respondents, were not continuing their education and were not holding structural position. Data collection was carried out using a self-administered questionnaire in April 2018. The questionnaire consisted of five parts, namely socio-demographic characteristics, nurses' perceptions of financial rewards, career development opportunities, supervision of the ward chief and nursing care performance. Perceptions of financial rewards and career development opportunities were measured through eight statements. The perception of supervision of the ward chief consisted of 10 statements. Meanwhile, the nursing care performance was explored through 20 statements. Each statement had four alternative

*Correspondence to: Ayu Ratih Cempakasari, Public Health Postgraduate Program, Faculty of Medicine, Udayana University, ayuratihcempaka@gmail.com

responses. For financial rewards and career development opportunities there were four possible responses namely "strongly disagree" given a score of 1, "disagree" given a score of 2, "agree" given a score of 3, and "strongly agree" given a score of 4. Whereas in the nurse performance and supervision of the ward chief, responses "never" given a score of 1, "sometimes" given a score of 2, "often" given a score of 3 and "always" given a score of 4.

The scores of each statement are summed up to obtain the total score for each variable, namely the total score of perceptions of financial rewards, career development opportunities, supervision of the ward chief and nursing care performance. Furthermore, the total score of each variable is categorized into "good" and "poor" with a cut-off point of mean from the total score.

Data were analyzed using STATA SE 12.1. Bivariate analysis was performed with chi-square test and multivariate analysis with multiple logistic regression. Variables that have a p value of <0.25 in bivariate analysis are included in the model in multivariate analysis. In multivariate analysis, all of the independent variables, except the level of education are treated as interval scale. This study has been approved by the Ethics Committee of the Faculty of Medicine, Udayana University/Sanglah General Hospital Denpasar on April 3, 2018.

RESULTS

The socio-demographic characteristics of respondents are presented in Table 1. The age of respondents ranged from 23 to 56 years, with a median age of 32 years. The majority of respondents were female and married. As many as 61% of respondents were diploma in nursing and more than 50% of respondents were non-permanent employees. Respondents' length of working were varied from 6 months to 35 years, with a median of 10 years.

Table 2 presents the frequency distribution and descriptive statistics of respondents' perceptions of financial rewards, career development opportunities, supervision of the ward chief and nurse performance in providing nursing care. The proportion of nurses who perceived financial rewards and supervision of the ward chief as 'good' and 'poor' were almost equal. Meanwhile, in terms of career development opportunities the majority of respondents provided poor ratings.

The mean score of nurses' perceptions of financial rewards is 23.26 (SD=4.79) from a possible maximum score of 32. The lowest score in the financial reward component is the suitability between the salary received and the workload. The mean score of nurses' perceptions of career development opportunities is 24.01 (SD=3.56) from a possible maximum score of 32. The lowest score of career development opportunities is the provision of promotion to employees who participate well in trainings. The perception of the supervision had a mean score of 28.75 (SD=5.61) from a possible maximum score of 40. The lowest score was found in terms of encouragement for group discussion on nursing care by the ward chief. The mean score of nurses' perceptions of their performance in carrying out nursing care is 70.17 (SD=9.09) from a possible maximum score of 80. The performance's aspect with the lowest score is in terms of collecting data about bio-psycho-social-spiritual of patients.

Table 3 presents the results of bivariate analysis between education, perceptions of financial rewards, career development opportunities, supervision of the ward chief, age, length of work, gender, marital status, and employment with nursing care performance. Variables that have p value <0.25, namely the level of education, perceptions of financial rewards, career development opportunities and supervision of the ward chief, were included in multivariate analysis with multiple logistic regression.

Table 4 shows that the variables related to nurse performance in providing nursing care are nurses perceptions of financial rewards (AOR=1.094; 95%CI: 1.010-1.186; p=0.03), career development opportunities (AOR=1.151; 95%CI:

Table 1 Socio-demographic characteristics

Characteristics	n	%
Age (years)		
≤32	84	51.2
>32	80	48.8
Gender		
Male	22	13.4
Female	142	86.6
Length of working (years)		
≤10	90	54.9
>10	74	45.1
Marital status		
Married	145	88.4
Unmarried	19	11.6
Employment		
Civil servant	70	42.7
Non-permanent employee	94	57.3
Education		
High school	7	4.3
Diploma	100	61.0
Bachelor	57	34.8
Total	164	100.0

Table 2 Perceptions of service rewards, career development opportunities, supervision of the ward chief and nurse performance

Perceptions	No item	n (%)	Mean	SD	Min	Max
Service rewards	8		23.26	4.79	11	32
Good		80 (48.8)				
Poor		84 (51.2)				
Career development opportunities	8		24.01	3.56	12	32
Good		43 (26.2)				
Poor		121 (73.8)				
Supervision of the ward chief	10		28.75	5.61	13	40
Good		97 (59.1)				
Poor		67 (40.9)				
Nurse performance	20		70.17	9.09	44	80
Good		89 (54.3)				
Poor		75 (45.7)				
Total		164 (100.0)				

Table 3 Association between financial rewards, career development opportunities, supervision of the ward chief and nursing care performance

Variable	Performance		p value
	Good n (%)	Poor n (%)	
Education			
School of Nursing	3 (42.9)	4 (57.1)	0.23
Diploma of Nursing	50 (50.0)	50 (50.0)	
Bachelor of Nursing	36 (63.2)	21 (36.8)	
Financial rewards			
Good	48 (60.0)	32 (40.0)	0.15
Poor	41 (48.8)	43 (51.2)	
Career development opportunities			
Good	35 (81.4)	8 (18.6)	<0.01
Poor	54 (44.6)	67 (55.4)	
Supervision of the ward chief			
Good	58 (59.8)	39 (40.2)	0.09
Poor	31 (46.3)	36 (53.7)	
Age (years)			
≤32	45 (53.6)	39 (46.4)	0.85
>32	44 (55.0)	36 (45.0)	
Length of working (years)			
≤10	51 (56.7)	39 (43.3)	0.50
>10	38 (51.4)	36 (48.6)	
Gender			
Male	12 (54.5)	10 (45.5)	0.98
Female	77 (54.2)	65 (45.8)	
Marital status			
Married	77 (53.1)	68 (46.9)	0.41
Unmarried	12 (63.2)	7 (36.8)	

Table 3 *Continue*

Variable	Performance		p value
	Good n (%)	Poor n (%)	
Employment			
Civil servant	39 (55.7)	31 (44.3)	0.75
Non-permanent employee	50 (53.2)	44 (46.8)	

Table 4 **Adjusted OR of education levels, perception of financial rewards, career development opportunities, and supervision by the ward chief**

Variable	Adjusted OR	95% CI		p value
		Lower	Upper	
Education				
High school of nursing	Ref			
Diploma of nursing	3.199	0.465	22.02	0.24
Bachelor of nursing	6.807	0.915	50.67	0.06
Financial rewards	1.094	1.010	1.186	0.03
Career development opportunities	1.151	1.033	1.283	0.01
Supervision by the ward-chief	1.085	1.012	1.164	0.02

1.033-1.283; $p=0.01$) and supervision of the ward chief (AOR=1.094; 95%CI: 1.010–1.186; $p=0.03$).

DISCUSSION

In this study, the mean score of nurses' performance in providing nursing care was 70.17 and as many as 54% of nurses had relatively good performance. In the study at Datoe Binangkang Hospital in Bolaang Mongondow Regency and in Sragen General Hospital, it was found that the proportion of nurses who performed well was 60%, slightly higher than the proportion found in our study.^{8,11} This difference can be caused by differences in instruments, methods, and standards used at the time of the study. In this study, the performance in data collection of patient bio-psychosocial-spiritual received the lowest scores. This is possibly due to the complexity and comprehensiveness of bio-psycho-social-spiritual data that requires extra time and lead to additional workload of nurses.¹² The results of this study indicate that an increase in nurses' perceptions of financial rewards is significantly associated with an increase in nursing care performance. The findings of this study are supported by studies in Palu, Manado, and Palembang Hospitals which also shows that financial rewards are significantly associated to the performance of nurses in hospitals.^{7,9,13} However, the opposite results were obtained from the study conducted at Sragen General Hospital which showed that the reward system was not associated with nurse performance.¹¹ This difference could be

due to the fact that the study subjects were made up entirely of civil servants while the subjects in our study consisted of civil servant and non-permanent nurses in almost the same proportion.

The results of multivariate analysis in this study also showed that an increase in perceptions of career development opportunities was related to the improvement of nursing care performance. These findings are in line with studies conducted at the A.W.Sjahanie General Hospital and Dr. Mintohardjo Military Hospital which showed that career development is associated with the performance of nurses.^{14,15} Career development opportunities are a form of self-development to improve knowledge and skills, which can be taken through formal and informal education. Career development opportunities for nurses can increase job satisfaction, increase retention, and motivate nurses to provide quality health services.^{16,17}

Nurses' perceptions of supervision of the ward chief in this study were significantly associated with nursing care performance. The results of this study are supported by studies at H. Hanafie Muara Bungu Hospital and Bethesda Gmim Tomohon Hospital which shows that there is a significant relationship between supervision and the performance of nurses in hospitals.^{18,19} Close supervision can increase enthusiasm and nurse motivation.^{18,19} Moreover, supervision is a means to improve work professionalism, knowledge and skills and can reduce work related stress.²⁰

The limitation of this study is that nursing care performance measurement is carried out through

self-assessment with a self-administered questionnaire, not by observation, so the results may not be objective.

CONCLUSION

Nurses perceptions of financial rewards, career development opportunities, and supervision of ward chief are associated to nurses performance in providing nursing care. These three factors need to be considered in the efforts to improve the nursing care performance.

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