

# Turnover Intention Factors among Private Hospital Nurses in Indonesia

*by* Hardisman 78

---

**Submission date:** 09-Jul-2020 03:25PM (UTC+0800)

**Submission ID:** 1355317455

**File name:** Hardi\_Rindu\_et\_al.pdf (327.59K)

**Word count:** 3155

**Character count:** 18082

# 1 Turnover Intention Factors among Private Hospital Nurses in Indonesia

RINDU<sup>1</sup>, SYUKRI LUKMAN<sup>2</sup>, HARDISMAN DASMAN<sup>3</sup>, HAFIZURRAHMAN<sup>4</sup>, ADANG BACHTIAR<sup>5</sup>

## 1 ABSTRACT

**Introduction:** The most critical problem faced by the health care system is the shortage of workers. This phenomenon is due to the release of employees.

**Aim:** To determine turnover intention and factors behind turnover intention among private hospital's nurses who worked in Jakarta, Indonesia.

**Materials and Methods:** This cross-sectional study was conducted from March to September 2018 in two private hospitals in Jakarta, Indonesia, involved 97 nurses. Data were collected by employing a set of self-administered structured questionnaires and were analysed using Partial Least Square-Structural Equation Modelling (SEM-PLS technique).

**Results:** The results showed that there was a significant negative influence on organisational commitment to turnover intentions (-0.496). The higher the nurse's organisational commitment, the lower was the nurse turnover intention. The better the job characteristics of nurses, the lower was the nurse turnover intention (-0.213). There was a significantly positive influence of job characteristics on job satisfaction (0.499). The higher the job satisfaction of nurses, the higher was the organisational commitment (0.374).

**Conclusion:** The findings show that the influence of nurses' work commitment has the greatest direct influence in influencing the turnover intention. Hospital need to increase nurses' organisational commitment through their job satisfaction.

**Keywords:** Health care facilities, Manpower, Services

## INTRODUCTION

The globalisation of the economy in the world requires every profit and non-profit organisation to compete with each other for resources and markets. This situation also applies to the hospital industry. Changes are so fast, requiring hospitals to survive among competitors that will emerge at any time, therefore, hospitals must fulfill the demands to be able to respond to these changes. The lack of nursing and the high rate of nurse turnover are symptoms of many health care problems in hospitals around the world [1]. In Indonesia, the nurse turnover rate in private hospital is quite high, which is more than 10% each year (above the normal limit). It means that the hospital management faces a problem especially in the field of nursing human resources [2]. This is supported by a survey report on nursing facilities conducted by the American Health Care Association (AHCA) in 2012; the average turnover of workers working in nursing facilities amounted to 43.9 percent. This research is strengthened by research conducted [3]. It shows that turnover is also a major problem in hospital in Canada with an average turnover rate of 19.9%. In 2020, it is estimated that there will be a shortage of nearly 1 million nurses in the United States, this is due to the growth of the healthcare industry that continues to exceed the needs of available nurses and increase turnover numbers in the future [4]. The growth of private hospital in Indonesia is increasing; data about the number of hospital changes every day and increases every year by approximately 7% [5]. This condition risks nurses' turnover from one hospital to another.

Globally, the rate of nurse's turnover ranges from 10-21% a year [6]. A high turnover rate has a negative impact on hospital, such as the training cost that has been invested in nurse, management, financing, high cost for nurse re-recruiting and retraining, so turnover affects the service quality [7]. Factors that influence turnover intentions are job characteristics, perceptions, leadership, organisational commitment and job satisfaction [8,9]. The tendency of turnover and disparities in the job satisfaction

also occurred in Indonesian hospital context, especially in the capital city and other big cities. The purpose of this study was to determine 1 factors affecting turnover intention of nurse in private hospital in Jakarta, Indonesia.

## MATERIALS AND METHODS

This study used 1 quantitative correlation design with cross-sectional approach. The study was conducted from March to September 2018 at two private Type C (the first level of referral hospital) hospitals in Jakarta, the Capital City of Indonesia. The sampling method was purposive sampling. This research was approved by the National Ethical Committee (206/KEP/FK/2017). Informed consent was taken during data collection, which was considered aspect of data collection procedures, voluntary, and confidentially.

Respondents in this study were 97 nurses.

**Inclusion criteria:** Working in a private hospital, having at least 1 year of nursing experience, providing care for patients in high-risk service units' emergency room, inpatient care rooms, intensive care units, neonatal intensive care units, and surgery and haemodialysis rooms.

**Exclusion criteria:** The nurses that refused to consent for the study were excluded.

This research used the following instruments:

1. Turnover Intentions with 9 questions [10]:
  - Thoughts of quitting (T1)
  - Intention to quit (T2)
  - Intention to search for another job (T3)
2. Job characteristics with 21 questions [11]:
  - Skill variations (JC1)
  - Identity task (JC2)
  - Meaning task (JC3)
  - Autonomy (JC4)
  - Feedback (JC5)

3. Job satisfaction with 20 questions [12]:
  - Intrinsic satisfaction (JS1)
  - Extrinsic satisfaction (JS2)
4. Organisational commitment with 16 questions [13]:
  - Affective Commitment (OC1)
  - Continuance Commitment (OC2)
  - Normative Commitment (OC3)

The study instrument was questionnaire that had been modified from a previous study containing 66 questions [2]-[13]. Measurement category of respondent's distribution used five point Likert Scale ranging from (1) "strongly disagree" to (5) "strongly agree".

## STATISTICAL ANALYSIS

The data were analysed through SEM-PLS technique. The results indicated that the measurement reliabilities using Cronbach's coefficient, all of which are above 0.6 (range 0.69-0.88), which means it has good reliability and the measurement validity using square root of Average Variance Extracted (AVE) where, each construct had values above 0.50 (range 0.77-0.90) which means that each construct is valid [14].

## RESULTS

The largest proportion of the respondents were females (78.4%), in the 25-35 age group (78.4%), with Diploma level of education (72.2%), and had worked for 1-3 years in their current hospital (29.9%), as seen in [Table/Fig-1]. All indicators on the model have a loading of more than 0.50 so all indicators were included in this study [Table/Fig-2].

Background characteristics	n	%
<b>Gender</b>		
Male	21	21.6
Female	76	78.4
<b>Age</b>		
Below 25	19	19.6
25-35	44	45.7
36-45	22	22.7
46-55	11	11.3
Over 55	1	1.0
<b>Education</b>		
Diploma	72	72.2
Bachelor	13	13.2
Profession	12	12.4
<b>Length of working</b>		
Less than a year	13	13.4
1-3 years	29	29.9
4-6 years	20	20.6
7-10 years	10	10.3
Over 10 years	25	25.8

[Table/Fig-1]: Distribution of the percentage of participant.

Variable	Effect size	Rating
Organisational commitment	0.265	Medium
Job characteristics	0.040	Small
Job satisfaction	-0.018	Small

[Table/Fig-2]: Calculation of effect size.  
\*Partial Least Square-SEM test

Bootstrapping was performed in Smart PLS to obtain the standardised path coefficients, standard errors, and t-values in order to assess the significance of each hypothesised relationship. [Table/Fig-3] showed that H1, H2, H3, H5, H6 are supported except

Hypothesis	Path coefficient	T-statistics	Decisions
Job characteristics→intentions (H1)	-0.213	4.309	Supported
Job characteristics→Commitment organisation (H2)	0.184	3.626	Supported
Job characteristics→Job satisfaction (H3)	0.499	6.588	Supported
Job satisfaction→Turnover intentions (H4)	0.067	0.869	Not supported
Job satisfaction→Commitment organisation (H5)	0.374	3.178	Supported
Commitment organisation→Turnover intentions (H6)	-0.496	4.587	Supported

[Table/Fig-3]: Summary of hypothesis testing.  
\*Partial Least Square-SEM test

H4 which is not supported. Effect size serves as a practical guide to interpret the practical importance of a specific relationship [15]. This could be done by examining the  $f^2$  effect size that is calculated annually [14], and the formula was  $f^2 = R^2_{included} - R^2_{excluded} / 1 - R^2_{included}$ . The rule of thumb stated that the  $f^2$  values of 0.02, 0.15 and 0.35 represent small, medium, and high effect size, respectively [16]. Based on the rule thumb, it can be interpreted that organisation commitment had a medium effect on turnover intention amounting 26.5% and it had a small effect on job characteristics and job satisfaction amounting 4% and 2%.

The summary of hypothesis testing shown in [Table/Fig-3] indicates the following:

1. Hypothesis 1 (H1)-there was a significant negative correlation between Job Characteristics to Turnover Intentions (t-value  $\geq 1.96$ )
2. Hypothesis 2 (H2)-there was a significant positive correlation between Job Characteristics to Commitment Organisation (t-value  $\geq 1.96$ )
3. Hypothesis 3 (H3)-there was a significant positive correlation between Job Characteristics to Job Satisfaction (t-value  $\geq 1.96$ )
4. Hypothesis 4 (H4)-there was a non-significant positive correlation between job satisfaction to turnover intentions (t-value  $\leq 1.96$ ).
5. Hypothesis 5 (H5)-there was a significant positive correlation between Job Satisfaction to Commitment Organisation (t-value  $\geq 1.96$ )
6. Hypothesis 6 (H6)-there was a significant negative correlation between Commitment Organisation to Turnover Intentions (t-value  $\geq 1.96$ )

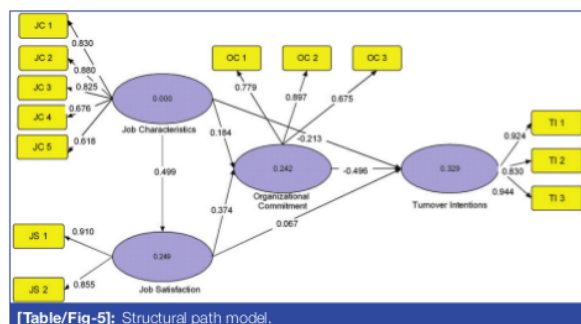
In [Table/Fig-4], all the indicator of variables have loading factors of more than 0.50 and fitted well to the model, the results of AVE in each construct have values more than 0.50, which means that each construct is valid and also the CR (Composite Reliability) and Alpha Cronbach have values more than 0.70, which means it has good reliability [14]. In addition, the  $R^2$  value of turnover intention is 0.3288, which can be interpreted that variability of the turnover intention construct that can be explained by the variability of job characteristics, job satisfaction, and organisational commitment is 32.88% while 67.12% has been explained by other variables excluding those researched through this study.

PLS path modelling estimation for this research is shown in [Table/Fig-5]. By looking at the diagram the following preliminary observations can be made:

1. Explanation of target endogenous variable variance:
  - (i) The coefficient of determination  $R^2$ , is 0.329 for the Turnover Intentions endogenous latent variable. This means that the three latent variables (Job Characteristics, Job Satisfaction, and Organisational commitment) moderately [17] explain 32.9% of the variance of Turnover Intentions;

Variable	Indicator	Loading	AVE	CR	Cronbach's alpha	R <sup>2</sup>
Job characteristics	Skill variety	0.8295	0.5964	0.8790	0.8277	
	Task identity	0.8802				
	Task significance	0.8250				
	Autonomy	0.6763				
	Feedback	0.6175				
Job satisfaction	Intrinsic	0.9098	0.7795	0.8759	0.7203	0.2493
	Extrinsic	0.8551				
Organisational commitment	Affective	0.7791	0.6226	0.8300	0.6935	0.2423
	Continuance	0.8974				
	Normative	0.6750				
Turnover intention	Thoughts of quitting	0.9241	0.8116	0.9279	0.8838	0.3288
	Intention to quit	0.8299				
	Intention to search for another job	0.9445				

**[Table/Fig-4]:** Summary of constructs items loading, AVE, CR, Cronbachs Alpha, R-Square.  
\*Partial Least Square-SEM test



**[Table/Fig-5]:** Structural path model.

- (ii) Job Characteristics and Job Satisfaction together explain 24.2% of the variance of Organisational commitment;
  - (iii) Job Characteristics explain 24.9% of the variance of Job Satisfaction.
2. Inner model path coefficient sizes:

The inner model suggest that Organisational commitment has the strongest effect on Turnover Intentions (0.496), followed by Job Characteristics (-0.213) and Job Satisfaction (0.067).

## DISCUSSION

This study had revealed that job characteristics and commitment organisation are related to turnover intention, which is consistent to another research that showed that the impact of an employee's organisational commitment results in a feeling of conformity and attachment between goals, individual values and goals and values [18]. Increased work involvement due to high organisational commitment also has an impact on the effectiveness of nursing services [19]. Another study among nurses working in hospitals under the jurisdiction of the Royal Thai Army, found that staff nurse job characteristics had a low level of positive correlation with job satisfaction and organisational commitment.

Job characteristics did not only have an impact on job satisfaction and organisational commitment, but also on work stress and the quality of worklife [8].

This study also demonstrated that job characteristics is positively related to commitment organisation and job satisfaction. These findings support the previous finding in Iranian hospital that showed well-designed job characteristics can help employees of the hospitals (physicians, nurses, and administrative staff) to remain committed to the company, but on the contrary, if the characteristics of the work are poor, then it is likely that employees will be less committed to the company, thus as result they choose to look for alternative jobs with better job characteristics in other companies [9].

This study demonstrated that job satisfaction is positively related to commitment organisation which is highly consistent with previous studies in Vietnamese hospital nurses, that was explained by the fact that the interactions with leaders and peers creates a positive workplace relationship and thereby enhances employee's psychological attachment to the organisation [20].

## Limitation(s)

The process of licensing research in hospitals was quite difficult and not all hospitals want to be researched, because they think that was a confidential data. Also, data collection were entrusted to the head of HRD and taken by pre-determined time, it was a challenge during field study to make sure that the participants were convenient in providing reliable information. The study only focused on of three variables, namely job characteristics, job satisfaction and organisational commitment, while other factors affecting nurse turnover intentions were not studied.

## CONCLUSION(S)

In conclusion, it has been empirically shown that organisational commitment is the biggest effect to turnover intention. Therefore, policy makers in hospital must build work commitment to nurses, especially on the affective in order to have a feeling of attachment and loyalty to prevent nurses turnover the hospital.

## Acknowledgement

Ministry of Research, Technology and Higher Education of the Republic of Indonesia funded this research.

## REFERENCES

- [1] Rahman SM, Ali NA, Jennings L, Seraji MHR, Mannan I, Shah R, et al. Factors affecting recruitment and retention of community health workers in a newborn care intervention in Bangladesh. *Hum Resour Health* [Internet]. 2010;8(12):01-14. Available from: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2875202/>.
- [2] Prihanjana IPL. Recommendations for reducing employee turnover rate using push and pull factor analysis. *J Adm Heal Policy* [Internet] [Internet]. 2013;11(1):38-43. Available from: <http://journal.unair.ac.id/download-fullpapers-akk0178cc0867full.pdf>.
- [3] O'Brien-Pallas L, Murphy GT, Shamian J, Li X, Hayes LJ. Impact and determinants of nurse turnover: A pan-Canadian study. *J Nurs Manag*. 2010;18(8):1073-86.
- [4] Hauck A, Griffin MTQ, Fitzpatrick J. Structural empowerment and anticipated turnover among critical care nurses. *J Nurs Manag*. 2011;19(2):269-76.
- [5] Ministry of Health of the Republic of Indonesia. Number of Hospitals in Indonesia-Growth in Public Hospitals [Internet]. Information system Hospital. 2018 [cited 2019 Feb 20]. Available from: <http://sirs.yankes.kemkes.go.id/rsonline/report/>.
- [6] El Jardali F, Dimassi H, Dumit N, Jamal D, Mouro G. A national cross-sectional study on nurses' intent to leave and job satisfaction in Lebanon: Implications for Policy and Practice. *BMC Nurs*. 2009;8(3):01-13.
- [7] Mosadeghrad AM. Quality of working life: An Antecedent to employee turnover intention. *Int J Heal Policy Manag*. 2013;1(1):43-50.

- [8] Intaraprasong B, Potjanasitt S, Pattaraarchachai J, Meennuch C. Situational leadership styles, staff nurse job characteristics related to job satisfaction and organisational commitment of head nurses working in hospitals under the jurisdiction of the royal Thai army. *J Med Assoc Thail.* 2012;95(SUPPL 6):S109-19.
- [9] Faraji O, Ramazani AA, Hedaiafi P, Alabadi A, Elhamirad S, Valiee S. Relationship between job characteristics and organisational commitment: A descriptive analytical study. *Iran Red Crescent Med J [Internet].* 2015;17(11):e19815. Available from: <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=4698126&tool=pmcentrez&rendertype=abstract>.
- [10] Mobley WH, Griffeth RW, Hand HH, Meglino BM. Review and conceptual analysis of the employee turnover process. *Psychol Bull.* 1979;86(3):493-522.
- [11] Oldham GR, Hackman JR. How job characteristics theory happened. In: Smith KG, Hitt MA, editors. Oxford, UK: Oxford University Press; 2005. Pp. 151-70.
- [12] Tan TH, Waheed A. Herzberg's motivation-hygiene theory and job satisfaction in the Malaysian retail sector: Mediating effect of love of money. *Asian Acad Manag J [Internet].* 2011;16(1):73-94. Available from: <http://mpa.ub.uni-muenchen.de/30419/>.
- [13] Meyer JS and Allen Model of Organisational Commitment: Measurement Issues. *Inf J Organ Behav.* 2007;6(4):07-26.
- [14] Hair JF, Hult GT, Ringle CM, Sarstedt M. A Primer on Partial Least Squares Structural Equation Modeling (PLS-SEM) [Internet]. 2<sup>nd</sup> ed. SAGE Publications;; 2016. Available from: <http://study.sagepub.com/hairprimer2e>.
- [15] Preacher KJ, Kelley K. Effect size measures for mediation models: Quantitative strategies for communicating indirect effects. *Psychol Methods.* 2011;16(2):93-115.
- [16] Garson GD. Partial Least Squares: Regression & Structural Equation Models [Internet]. 2016<sup>th</sup> ed. North Carolina, Amerika Serikat: G. David Garson and Statistical Associates Publishing; 2016. 262 p. Available from: [https://www.smartpls.com/resources/ebook\\_on\\_pls-sem.pdf](https://www.smartpls.com/resources/ebook_on_pls-sem.pdf).
- [17] Chin WW, Marcoulides G. The Partial Least Square Approach to Structural Equation Modelling. *Adv Hosp Leis [Internet].* 1998;8(2). Available from: [www.researchgate.net](http://www.researchgate.net).
- [18] Salleh R, Nair MS, Harun H. Job satisfaction, organisational commitment, and turnover intention: A case study on employees of a retail company in Malaysia. *World Acad Sci Eng Technol.* 2012;72(6):316-23.
- [19] Alammar K, Alamrani M, Alqahtani S, Ahmad M. Organisational commitment and nurses characteristics as predictors of job involvement. *Nurs Leadersh (Tor Ont).* 2016;29(4):59-69.
- [20] Tran KT, Nguyen PV, Dang TTU, Ton TNB. The impacts of the high-quality workplace relationships on job performance: A perspective on staff nurses in Vietnam. *Behav Sci (Basel) [Internet].* 2018;8(12). Available from: [https://www.researchgate.net/publication/329186665\\_The\\_Impacts\\_of\\_the\\_High-Quality\\_Workplace\\_Relationships\\_on\\_Job\\_Performance\\_A\\_Perspective\\_on\\_Staff\\_Nurses\\_in\\_Vietnam/link/5bfb57b458515b41d0f6](https://www.researchgate.net/publication/329186665_The_Impacts_of_the_High-Quality_Workplace_Relationships_on_Job_Performance_A_Perspective_on_Staff_Nurses_in_Vietnam/link/5bfb57b458515b41d0f6).

**PARTICULARS OF CONTRIBUTORS:**

1. Master of Science, Doctoral Program of Public Health, Andalas University, Padang, West Sumatera, Indonesia.
2. Professor, Department of Economic, Andalas University, Padang, West Sumatera, Indonesia.
3. Doctor, Department of Public Health and Community Medicine, Andalas University, Padang, West Sumatera, Indonesia.
4. Doctor, Department of Public Health, Indonesia Maju School of Health Sciences, Jakarta, Indonesia.
5. Professor, Department of Public Health, University of Indonesia, Jakarta, Indonesia.

**NAME, ADDRESS, E-MAIL ID OF THE CORRESPONDING AUTHOR:**

Hardisman Dasman,  
Perintis Kemerdekaan, Padang, West Sumatera, Indonesia.  
E-mail: [hardisman@med.unand.ac.id](mailto:hardisman@med.unand.ac.id)

**PLAGIARISM CHECKING METHODS:** (Janji et al)

- Plagiarism X-checker: Mar 03, 2020
- Manual Googling: May 19, 2020
- iThenticate Software: Jun 25, 2020 (13%)

**ETYMOLOGY:** Author Origin**AUTHOR DECLARATION:**

- Financial or Other Competing Interests: As declared above
- Was Ethics Committee Approval obtained for this study? Yes
- Was informed consent obtained from the subjects involved in the study? Yes
- For any images presented appropriate consent has been obtained from the subjects. NA

Date of Submission: **Feb 20, 2020**Date of Peer Review: **Mar 24, 2020**Date of Acceptance: **May 25, 2020**Date of Publishing: **Jul 01, 2020**

# Turnover Intention Factors among Private Hospital Nurses in Indonesia

---

## ORIGINALITY REPORT

---

<b>14%</b>	<b>14%</b>	<b>7%</b>	<b>0%</b>
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS

---

## PRIMARY SOURCES

---

<b>1</b>	<b>jcdr.net</b> Internet Source	<b>10%</b>
<b>2</b>	<b>s3.amazonaws.com</b> Internet Source	<b>4%</b>

---

Exclude quotes    On

Exclude matches    < 3%

Exclude bibliography    On