

THE RELATIONSHIP BETWEEN THE WORK ENVIRONMENT AND JOB SATISFACTION OF NURSE ANESTHETISTS IN HOSPITALS, CENTRAL JAVA-BALI

By Ari kundari et al

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Original Research Article

THE RELATIONSHIP BETWEEN THE WORK ENVIRONMENT AND JOB SATISFACTION OF NURSE ANESTHETISTS IN HOSPITALS, CENTRAL JAVA-BALI

Ni Nyoman Ari Kundari Dewi¹, I Ketut Swarjana^{2*}, IGNM Kusuma Negara³, Yustina Ni Putu Yusniawati⁴

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^{1,2,3,4}Faculty of Health, Institute of Technology and Health Bali

Abstract

Background:

Nurse anesthetists as medical personnel have an important role in the continuity of work in the operating room. Although they have considerable responsibility and role, no research has focused on the job satisfaction of nurse anesthetists. In addition, no literature review has shown low job satisfaction among nurse anesthetists.

Objectives:

This research aimed to determine the relationship between the work environment and job satisfaction of nurse anesthetists in hospitals.

Methods:

This research used a quantitative method with a cross-sectional design through an online survey. The population of this research covered all nurse anesthetists working in hospitals in Central Java and Bali, of which 108 respondents were selected as the sample using a simple random sampling. The data were collected using questionnaire and analyzed using inferential statistics, namely chi-square, to determine the relationship between the work environment and job satisfaction of nurse anesthetists.

Results:

This research showed that a total of 60 respondents (55.6%) had a high category of job satisfaction. In addition, the work environment factor ($p=<0.001$) significantly affected the job satisfaction of nurse anesthetists.

Conclusion:

Hospital management must strengthen the commitment related to the sense of belonging to employees by considering the work environment factor that can affect the job satisfaction of nurse anesthetists in hospitals.

Keywords: Job satisfaction, Work environment, Nurse anesthetist

INTRODUCTION

Anesthesiology is one of the most tensing medical disciplines with high responsibilities and stresses because it manages life-threatening scenarios (Sanfilippo *et al.*, 2017). The existing phenomenon indicates that nurse anesthetists often do not pay attention to standard operating procedures for patients who will undergo anesthesia. This explanation is consistent with a finding that low quality of treatment refers to more medication errors and less vigilance in monitoring patients in anesthesiology (Oliveira Jr *et al.*, 2013). One of the professions working in the surgical unit and becoming part of anesthesiology is a nurse anesthetist. According to Bacha *et al.* (2015), the quality of treatment is directly influenced by job satisfaction. Therefore, job satisfaction is important to investigate (Fentie *et al.*, 2018). In this regard, hospital management must take into account the job satisfaction of employees, especially nurse anesthetists.

The research data showed a low level of job satisfaction among nurse anesthetists. A study suggested that the overall proportion of nurses' job satisfaction reached 43.6%, indicating low job satisfaction (Ayalew and Workineh, 2019). Likewise, Zhou *et al.* (2018) found that only 48.2% of nurses were satisfied with their jobs. Other supporting data show that anesthetists have a low level of job satisfaction.¹³ A similar study found that less than half (42.5%) of anesthetists were satisfied with their jobs, indicating low job satisfaction (Kibwana and Roosmalen 2018). Similarly, Fentie *et al.* (2018) confirmed that the overall job satisfaction of nurse anesthetists reached 46.9% (included in a low category of job satisfaction).

Job satisfaction is important for health professionals because it directly affects their professional practice (Silva *et al.*, 2017). Another study found that 46.1% of surgical unit nurses intended to quit their jobs due to job dissatisfaction (Sojane *et al.*, 2016). According to Sansoni (2016), job

dissatisfaction leads to nurses' resignations from hospitals. Given the facts described above, it is important to learn the relationship between the work environment and job satisfaction of nurse anesthetists in hospitals. Hence, this research is highly necessary due to the absence of previous studies discussing and focusing on the job satisfaction of nurse anesthetists in hospitals in Central Java and Bali. Based on these problems³⁵ the researchers were interested in examining the relationship between the work environment and job satisfaction of nurse anesthetists in hospitals.

Objective(s): to determine the relationship between the work environment and job satisfaction of nurse anesthetists in hospitals.

METHODS

Study Design

This research used a quantitative method with a cross-sectional design and a simple random sampling.

Setting

This research was conducted in all public and private hospitals in Central Java and Bali. The data were collected from February to April 2021.

Research Subject

The population of this research covered 664 nurse anesthetists working in hospitals in Central Java and Bali. Using a simple random sampling technique, 108 respondents were selected as the sample. The inclusion criteria in this research include: 1) Nurse anesthetists who worked in hospitals in Central Java and Bali, both public and private hospitals, and 2) Nurse anesthetists who had worked for more than four years. Meanwhile, the exclusion criterion was: 1) Nurse anesthetists who did not provide feedback.

Instruments

The questionnaires distributed in this research were developed based on a literature review consisting of three parts. The first part

requested the respondents to identify their general characteristics consisting of age, gender, education, job tenure, and workplace. The second part was related to the respondents' job satisfaction, while the third part was related to the respondents' work environment, each of which contained 10 items with the entire questionnaire Cronbach's alpha of > 0.7, indicating strong reliability.

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Data Analysis

The data obtained were then analyzed using descriptive statistics in frequency and percentage to describe the respondents' general characteristics, including age, gender, education, job tenure, work²⁵ and job satisfaction. Furthermore, a chi-square was also used to test the relationship between work environment and job satisfaction using SPSS version 20.

Ethical Consideration

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This research has received ethical approval from the ethics committee of Institute of Technology and Health Bali Number: 04.0259/KEPITEKES -BALI/III/2021.

RESULTS

Table 1 presents the following information. Most respondents were over 36 years old, with a total of 104 respondents (96.3%). In addition, most respondents were male, with a total of 99 respondents (91.7%). As for the educational background, most of the respondents graduated with a bachelor's degree, with a total of 56 respondents (51.9%). For job tenure, a total of 101 respondents (93.5%) had worked in the field of anesthesia services for more than 11 years. For the workplace, 98 respondents (90.7%) had worked in public hospitals.

Table 1. The Respondents' General Characteristics (n = 108)

General Characteristics	n (%)
Age (year)	
27 – 35	4 (3.7)
≥ 36	104 (96.3)
Gender	
Male	99 (91.7)
Female	9 (8.3)
Education	
Associate's Degree	52 (48.1)
Bachelor's Degree	56 (51.9)
Job Tenure (year)	
5 – 10	7 (6.5)
≥ 11	101 (93.5)
Workplace	
Public Hospitals	98 (90.7)
Private Hospitals	10 (9.3)

Figure 1 shows that the number of respondents with high job satisfaction reached 60 respondents (55.6%).

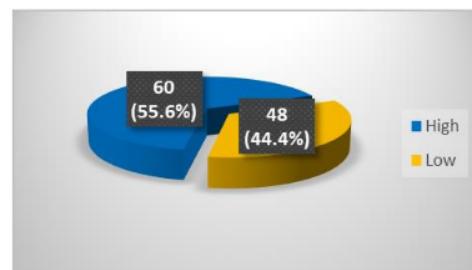


Figure 1. Job Satisfaction of Nurse Anesthetists in Hospitals (n = 108)

The results of the bivariate analysis¹¹ using a chi-square, as presented in Table 2, showed that the work environment had a significant effect on job satisfaction with a p-value of < 0.001.

Table 2. Bivariate Analysis of the Relationship between Work Environment and Job Satisfaction of Nurse Anesthetists in Hospitals (n = 108)

Variable	Job Satisfaction		<i>p</i> -value
	High f (%)	Low f (%)	
Work Environment			
Good	31 (81.6%)	7 (18.4%)	< 0.001
Not Good	29 (41.4%)	41 (58.6%)	

DISCUSSION

The findings in this research are almost consistent with Mileto & Barbara (2014) that the respondents' level of job satisfaction was high (53.6%). Similarly, Blaauw *et al.* (2013) show that the majority of respondents (52.1%) are satisfied with their jobs in hospitals in South Africa. Job satisfaction refers to one's good attitude and feeling towards his job. That is, a positive 10d pleasant attitude towards a job indicates job satisfaction (Desalegn *et al.*, 2015). Someone achieving high job satisfaction tends to be more productive and creative in the occupied 128d of work. In contrast, Khunou, S.H., and Maselesele (2016) suggested that the majority of professional nurses (79.3%) were dissatisfied with their jobs.

In this research, the work environment significantly affected job satisfaction. The work environment referred to in this case is the physical work environment. Therefore, the driving factor for job satisfaction is a healthy work environment (Friese and Himes-110is, 2013). This research also found that the work environment was positively correlated with job satisfaction. In other words, 130 better the work environment, the higher the respondents' job satisfaction. It can happen because the work environment is more likely to influence the respondents' mood in doing their jobs. Therefore, the work environment greatly impacts jobs and one's intention to carry out

his duty. This is in line with the theory stating that the work environment directly affects employees' emotions (Silitonga, 2020).

Furthermore, the work environment (in this case referring to the physical work environment, such as adequate medical facilities and equipment in the workplace) can cause the respondents to feel comfortable. A conducive work environment with adequate facilities and complete medical equipment can also provide a sense of pleasure and allow the respondents to feel satisfied with their jobs to work optimally. This is strengthened by some research stating that the work environment positively affects job satisfaction (Al-hamdan *et al.*, 2016; Bhandari *et al.*, 2015; Kibwana and Roosmalen, 2018; Oliveira *et al.*, 2017).

CONCLUSION

The work environment has a significant effect on job satisfaction. In other words, a better work environment can increase the job satisfaction of nurse anesthetists.

SUGGESTIONS

Hospitals, especially the management, are expected to continuously pay attention to employee job satisfaction by improving the work environment, particularly medical facilities and equipment.

ACKNOWLEDGMENT

We would like to thank all respondents who participated in this research and Institute of Technology and Health Bali for supporting the research.

DECLARATION OF CONFLICTING INTEREST

We strictly declare that we have consented and have no conflict of interest.

FUNDING

This research was carried out using funding from the authors themselves.

AUTHOR CONTRIBUTION

Ni Nyoman Ari Kundari Dewi: Initiated the main idea, made a proposal, arranged permission and research ethics, collected and analyzed data, and prepared research manuscripts

I Ketut Swarjana: Analyzed data and prepared research manuscripts

IGNM Kusuma Negara: Analyzed data and prepared research manuscripts

Yustina Ni Putu Yusniawati: Analyzed data and prepared research manuscripts

ORCID

Ni Nyoman Ari Kundari Dewi: 0000-0003-2845-3733

I Ketut Swarjana: 0000-0002-5975-1680

IGNM Kusuma Negara: 0000-0002-3448-6307

Yustina Ni Putu Yusniawati: 0000-0002-1566-0242

REFERENCES

- Al-hamdan Z., Manojlovich, and Tamima. 2016. "Jordanian Nursing Work Environments , Intent to Stay , and Job." 1–8. doi: 10.1111/jnu.12265. 20
- Ayalew, Emiru, and Yinager. 2019. "Job Satisfaction and Associated Factors among Nurses in Bahir Dar City Administrative ." *BMC Research Notes* 1–5. doi: 10.1186/s13104-019-4363-4.
- Bacha A.M., Grassiotto, Goncal 19, Higa, Carvasan, Machado, Cacique. 2015. "Job Satisfaction of Nursing Staff in a University Hospital." 68(6):819–26. doi: 10.1590/0174-7167.2015680619i.
- Bhandari T., Xiao, and Belan. 2015. "Job Satisfaction of Overseas-Qualified Nurses Working in Australian Hospitals." 64–75. doi: 10.1111/inr.12146.
- Blaauw D., Ditlopo, Maseko, Chirwa, Mwisingo, Bidwell, Thomas and Normand. 2013. "Comparing the Job Satisfaction and Intention to Leave of Different Categories of Health Workers in Tanzania, Malawi, and South Africa." 9716. doi: 10.3402/gha.v610.19287. 14
- Desalegn N., Akalu, and Haile. 2015. "Ethiopian Anesthetists Job Satisfaction Level and Factors Affecting their Level of Job Satisfaction." 3(5):17–24. doi: 10.11648/j.ja.20150305.11. 9
- Fentie D. Y., Ashagrie, and Kasahun. 2018. "Job Satisfaction and Associated Factors among Anesthetists Working in Amhara National Regional State , Northwest Ethiopia , May 2017: A Multicenter Cross-Sectional Study." 2018:1–7. doi: 10.1155/2018/6489674.
- Friese, Christopher R., and Laurel Himes-ferris. 2013. "Nursing Practice Environments and Job Outcomes in An 34 atory Oncology Settings." 43(3):149–54. doi: 10.1097/NNA.0b013e318283dc3f. 3
- Khunou, S.H., and Maselesele, M. 2016. "Level of Job Satisfaction amongst Nurses in the North-West Province , South Africa : Post 3cupational Specific Dispensation." 1–10. doi: 10.4102/curations.v39i1.1438.
- Kibw 13, Sharon, and Jos Van Roosmalen. 2018. "Job Satisfaction among Anesthetists in Ethiopia — a National Cross - Sectional Study." (July 2017):1–11. doi: 10.1002/hpm.2573.
- Miletto, Lisa, and Penprase Barbara. 2014. "Job Satisfaction Among Certified Registered Nurse Anesthetists :" 2(1).
- Oliveira E., Ba 22,sa, Andolhe, Eiras, and Padilha. 2017. "Nursing Practice Environment and Work Satisfaction in Critical Units." 70(1):73–80. doi: 10.1111/ANE.0b013e3182917da9.
- Oliveira Jr., Chang, Fitzgerald, Almeida, Castro-Alves, Ahmad S., and McCarthy. 2013. "The Prevalence of Burnout and Depression and Their Association with

- Adherence to Safety and Practice Standards: A Survey of United States Anesthesiology Trainees." 117(1):182–93. doi: 10.1213/ANE.0b013e3182917da9.
- 12 Sanfilippo F., Noto, Foresta, Santonocito, Palumbo, Arcane, Maybauer D., Maybauer M. 2017. "Incidence and Factors Associated with Burnout in Anesthesiology: A Systematic Review." 2017. doi: 10.1155/2017/8648925.
- 18 Sansoni J., Caro, Marucci, Sorrentino, Mayner, and Lancia. 2016. "Nurses' Job Satisfaction: An Italian Study." 58–69. doi: 10.7416/16016.2085.
- Silitonga, Eddy S. 2020. *Peningkatan Kinerja SDM Melalui Motivasi, Kepemimpinan, Komitmen Dan Lingkungan Kerja*. Yogyakarta: Penebar Media Pustaka.
- Silva V., Velasque, and Tonini. 2017. "Job Satisfaction in an Oncology Nursing Team." 70(5):988–95. doi: 10.1590/0034-7167-2016-0422. 4
- Sojane J., Klopper, and Coetzee. 2016. "Leadership, Job Satisfaction and Intention to Leave among Registered Nurses in the North West and Free State Provinces of South Africa." 1–10. doi: 10.4102/curationis.v39i1.1585.
- 2 Zhou H., Han, Zhang, Sun, Hu L., Hu G., Wu S., Zhao, Jiang and Liu Y. 2018. "Job Satisfaction and Associated Factors among Medical Staff in Tertiary Public Hospitals: Results from a National Cross-Sectional Survey in China." doi: 10.3390/ijerph15071528.

Cite this article as: Dewi, N.N.A.K. (2023). The relationship between the work environment and job satisfaction of nurse anesthetists in hospitals, Central Java-Bali. Nurse and Health: Jurnal Keperawatan, 12(2), 20-25. <https://doi.org/10.36720/nhjk.v12i2.398>

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