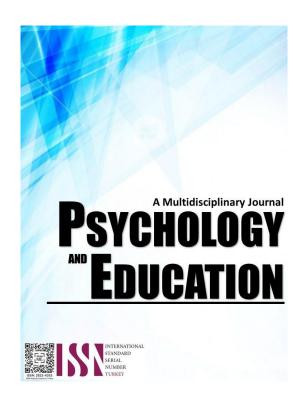
# NURSE MANAGER COMPETENCE, WORK ENVIRONMENT, AND STAFF NURSE JOB SATISFACTION IN PRIVATE HOSPITALS OF CAGAYAN DE ORO CITY



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# Nurse Manager Competence, Work Environment, and Staff Nurse Job Satisfaction in Private Hospitals of Cagayan de Oro City

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## Abstract

Nurse manager competence and the work environment are recognized as critical determinants of nurse job satisfaction, yet limited evidence exists in Philippine private hospitals. This study examined their influence on staff nurse job satisfaction in Cagayan de Oro City. A descriptive-correlational design was employed with 206 staff nurses selected through proportionate stratified random sampling. Data were collected using modified versions of the Managerial Competence Scale, the Practice Environment Scale of the Nursing Work Index (PES-NWI), and the Job Satisfaction Survey. Findings revealed that staff nurses perceived nurse managers as highly competent in both leadership (M = 3.76, SD = 1.076) and management skills (M = 3.73, SD = 1.034). The work environment was generally favorable (M = 3.81, SD = 0.963), with collegial relationships rated highest (M = 4.18, SD = 0.721) and staffing/resources lowest (M = 3.37, SD = 1.142). Job satisfaction was also high (M = 3.67, SD = 1.034), with intrinsic motivation ("I like doing the things I do at work," M = 4.06, SD = 0.909) scoring highest, while salary (M = 3.12, SD = 1.376) was lowest. Correlation analysis revealed significant positive associations among job satisfaction, nurse manager competence, and work environment, with the strongest correlations found in participation in hospital affairs (r = 0.886, p < 0.001) and staffing/resources (r = 0.841, p < 0.001). Regression analysis revealed four significant predictors: participation in hospital affairs ( $\beta = 0.552$ ), staffing/resources ( $\beta = 0.348$ ), leadership skills ( $\beta = 0.153$ ), and work relationships ( $\beta = 0.552$ ). 0.097), which collectively explained 85.2% of the variance (adjusted  $R^2 = 0.852$ ). The study emphasizes the importance of competent leadership, participatory governance, and adequate resources to enhance nurse satisfaction and retention in private hospitals.

Keywords: nurse manager competence, work environment, job satisfaction, staff nurses, healthcare

# Introduction

Findings from this study are expected to contribute both theoretically and practically. They will enrich nursing management literature by focusing on private healthcare settings, while also offering practical insights for hospital administrators seeking to improve nurse retention and engagement. In a broader sense, the study highlights the importance of fostering competent nurse leaders, participatory governance, and adequate resourcing—elements consistently identified in recent studies (Arevalo et al., 2025; de la Cruz et al., 2024; Rezapour et al., 2024; Yasin et al., 2021). These efforts aim not only to boost job satisfaction but also to ensure the delivery of sustained, high-quality care and a resilient nursing workforce.

This study, therefore, aims to examine the influence of nurse manager competence and the work environment on job satisfaction among staff nurses in private hospitals in Cagayan de Oro City. Specifically, it evaluates staff perceptions of management and leadership skills, the work environment—including foundations of care, interpersonal relationships, staffing adequacy, and governance—and their combined impact on job satisfaction.

Private hospitals in the Philippines face unique challenges such as limited resources, high patient-to-nurse ratios, and more business-oriented governance models. These conditions may shape how nurse managers exercise competence and how staff nurses perceive their work environment. International evidence also reinforces this concern; for instance, an analytical cross-sectional study in Iran found a strong positive correlation (r = 0.933, p < 0.001) between nurse manager competence and nurse job satisfaction, as well as an inverse correlation with turnover intentions (Rezapour et al., 2024). This highlights that managerial competence and workplace support are not just organizational issues but also determinants of workforce stability.

Extensive literature has established that positive work environments improve professional commitment and reduce turnover. For example, a literature review confirmed that supportive environments encompassing collaboration, fair staffing, recognition, and leadership significantly enhance satisfaction and decrease resignation rates (Yasin et al., 2021). In the Philippines, the leadership traits of nurse managers have also been shown to influence staff commitment and satisfaction, highlighting the role of mentoring and participatory leadership in strengthening staff loyalty and the quality of care (de la Cruz et al., 2024). Despite these findings, most scholarship focuses on public hospitals, leaving private healthcare institutions relatively underexplored.

The effective management of nursing personnel is vital to delivering high-quality patient care, with nurse manager competence and the work environment emerging as key determinants of staff nurse job satisfaction. Nursing is both physically and emotionally demanding, and organizational factors such as leadership, staffing adequacy, and collaborative culture significantly influence motivation and retention. In the Philippine context, job satisfaction among nurses remains a pressing concern due to understaffing, resource shortages, and turnover intentions. Recent studies have emphasized that the way nurse managers exercise leadership and implement human resource management practices directly affects nurse morale and job satisfaction (Arevalo et al., 2025).

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#### **Research Questions**

This study aimed to investigate the impact of nurse manager proficiency and the work environment on job satisfaction among staff nurses. Specifically, the study sought to answer the following questions:

- 1. What is the level of nurse manager competence in terms of:
  - 1.1. management skills, and
  - 1.2. leadership skills?
- 2. What is the level of work environment among staff nurses, in terms of:
  - 2.1. foundations in quality care,
  - 2.2. work relationships,
  - 2.3. staffing and resources, and
  - 2.4. participation in hospital affairs?
- 3. What is the level of job satisfaction among staff nurses?
- 4. Is there a significant relationship between staff nurses' job satisfaction, nurse manager competence, and work environment?
- 5. Which of the variables singly or in combination is the best predictor of job satisfaction among staff nurses?

# Methodology

# Research Design

This study employed a descriptive-correlational and causal design to investigate the impact of nurse manager competence and the work environment on staff nurses' job satisfaction. The descriptive design helped identify existing workplace conditions (Siedlecki, 2020), while the correlational design explored relationships among variables (Seeram, 2019). The causal design assessed direct effects between variables to understand how changes in managerial competence and the work environment influence job satisfaction (Bloomfield & Fisher, 2019), providing a comprehensive framework for addressing the study's objectives.

# Respondents

The study included regular, full-time staff nurses employed for more than six months in the selected hospitals. Nurses on probation (less than three months), relievers, trainees, and those with health concerns were excluded or allowed to withdraw. Out of a total population of 440 staff nurses, a sample size of 206 was determined using the Raosoft sample size calculator.

A proportionate stratified random sampling method was employed, treating each hospital as a stratum to ensure representation based on the population's original distribution (Rahman et al., 2022).

Table 1. Distribution of population and sample of participants in the study

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Stratum	Population	Sample
Hospital A	151	71
Hospital B	79	37
Hospital C	160	75
Hospital D	50	23
Total	440	206

#### Instrument

The study employed a structured survey comprising three parts, adapted from standardized instruments. The first part was based on the Managerial Competence Scale by Gunawan et al. (2019), originally a 43-item tool developed in Indonesia. To ensure relevance and brevity, items with a Cronbach's alpha above 0.650 were retained, resulting in 19 items categorized into management skills (9 items) and leadership skills (8 items). The second part adapted the Practice Environment Scale of the Nursing Work Index (PES-NWI) by Lake et al. (2024), which assesses nurses' perceptions of their work environment. It includes four subscales: Foundations of Quality Care (9 items), Work Relationships (6 items), Staffing and Resources (10 items), and Participation in Hospital Affairs (8 items). The third part fully adopted the 18-item Job Satisfaction Survey by Spector (2022), which has been widely used in various nursing studies (Ngoc et al., 2024; Serafin et al., 2019). All sections employed a 5-point Likert-like scale, enabling respondents to express their levels of agreement and ensuring standardized and quantifiable responses across the measured constructs. Since these tools originated from foreign contexts, the final instrument was subjected to content validation by two study experts and a nurse administrator. Revisions were made to enhance clarity and appropriateness. A pilot test with 30 nurses, excluded from the main sample, was conducted to assess reliability. Cronbach's alpha values ranged from 0.907 to 0.989 across all subscales, indicating high internal consistency. Cronbach's alpha is an appropriate reliability measure for cross-sectional studies (Park, 2021), while validity ensures that the tool accurately measures the intended concepts (Heale & Twycross, 2015).

#### Procedure

Prior to data collection, the investigator obtained approval from the College Dean, the University Research Office, and the Liceo

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Research Ethics Board (LREB). Ethical clearance ensured that all protocols complied with study standards. Approval was then secured from the participating hospitals through formal letters of intent. Regular staff nurses, full-time employees with at least six months of service, were included, while probationary staff, relievers, trainees, and those with health concerns were excluded.

Surveys were administered in a designated room after informed consent was obtained. A 10-minute time limit was given to complete the survey, with the investigator present to address any queries. Completed responses were coded, secured, and submitted to the university statistician for analysis, ensuring accuracy and adherence to ethical data handling practices.

#### **Data Analysis**

To analyze the data, both descriptive and inferential statistics were employed. For Problems 1 (assessing nurse manager competence) and 2 (evaluating the nurses' work environment), means and standard deviations were computed to summarize the central tendency and variability of the responses. For Problem 3 (determining the relationship between nurse manager competence, work environment, and job satisfaction), Pearson's Product-Moment Correlation was used to assess the strength and direction of linear relationships between variables (George & Mallery, 2018). Finally, for Problem 4 (examining the predictive effects of nurse manager competence and work environment on job satisfaction), multiple linear regression was conducted to identify the influence of independent variables and their sub-components on the dependent variable (Maulud & Abdulazeez, 2020).

The selection of these statistical tools is supported by existing literature. O'Hara et al. (2019) and Baek et al. (2019) employed correlation analysis to investigate the relationship between leadership and job satisfaction among nurses. Similarly, Jankelova and Joniakova (2021), and Akinwale and George (2020), applied multiple regression to examine how leadership styles and work environment factors predict job satisfaction levels in healthcare settings.

#### **Ethical Considerations**

This study adhered to ethical principles safeguarding participants' rights, autonomy, and well-being. Informed consent was obtained after the study's purpose, procedures, and voluntary nature were fully disclosed. Participants were given sufficient time to make a decision, encouraged to seek clarification, and assured of their right to withdraw at any stage without consequence. Confidentiality and anonymity were strictly maintained by coding responses and excluding identifying information. All data were securely stored with restricted access and responsibly disposed of after use. Ethical clearance was secured from the Liceo Research Ethics Board (LREB).

#### **Results and Discussion**

The tables below present, analyze, and interpret the data gathered, addressing the specific problems of the study.

#### Level Proficiency of Nurse Managers in terms of Management Skills and Leadership Skills.

Table 2. Summary of Mean Scores for the Level of Nurse Manager Competence

Nurse Manager Competence	Mean	SD	Description	Interpretation
Management Skills	3.73	.958	Agree	High
Leadership Skills	3.76	1.076	Agree	High
Overall Mean	3.75	1.017	Agree	High

Legend: 5 (4.51–5.00) – Strongly Agree: Very High Work Environment | 4 (3.51–4.50) – Agree: High Work Environment | 3 (2.51–3.50) – Neutral: Moderately High Work Environment | 2 (1.51–2.50) – Disagree: Low Work Environment | 1 (1.00–1.50) – Strongly Disagree: Very Low Work Environment

As shown in Table 2, staff nurses perceived nurse managers as highly competent, with overall competence rated high (M = 3.75, SD = 1.017). Leadership skills (M = 3.76) scored slightly higher than management skills (M = 3.73), indicating that staff valued leaders who could inspire, guide, and support their teams. This suggests that nurses place a strong value on leaders who are approachable, supportive, and able to provide a vision that extends beyond administrative tasks. Competent leaders foster an environment of trust and professional growth, which is crucial in retaining staff nurses in private hospital settings where staff turnover is common. Previous studies confirm that transformational leadership enhances staff satisfaction by empowering nurses and reducing burnout (Labrague et al., 2020). De la Cruz et al. (2024) further demonstrated in Philippine hospitals that nurse managers with strong leadership traits are instrumental in improving staff commitment. This suggests that, beyond technical management, the relational aspects of leadership are crucial to nurses' daily experiences and long-term retention.

Condition of Work Environment among Staff Nurses in terms of Foundation in Quality Care, Work Relationships, Staffing and Resources, and Participation in Hospital Affairs.

Table 3 summarizes staff nurses' perceptions of their work environment. The work environment received an overall positive rating (M = 3.81, SD = 0.963), with collegial relationships scoring the highest (M = 4.18, SD = 0.721). This highlights the importance of teamwork and collaboration in ensuring a supportive culture that sustains morale, especially in high-pressure hospital environments. Foundations of quality care (M = 3.93) and participation in governance (M = 3.75) were also viewed favorably, underscoring that nurses appreciate when care delivery is aligned with professional standards and when they are engaged in decision-making.

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Table 3. Summary of Mean Scores for the Condition of Work Environment among Staff Nurses

Work Environment	Mean	SD	Description	Interpretation
Foundations in Quality Care	3.93	.922	Agree	High
Work Relationships	4.18	.721	Agree	High
Staffing and Resources	3.37	1.142	Neutral	Moderately
				High
Participation in Hospital Affairs	3.75	1.068	Agree	High
Overall Mean	3.81	.963	Agree	High

Legend: 5 (4.51–5.00) – Strongly Agree: Very High Work Environment | 4 (3.51–4.50) – Agree: High Work Environment | 3 (2.51–3.50) – Neutral: Moderately High Work Environment | 2 (1.51–2.50) – Disagree: Low Work Environment | 1 (1.00–1.50) – Strongly Disagree: Very Low Work Environment

However, staffing and resources were rated lowest (M = 3.37, SD = 1.14), reflecting systemic issues with nurse-patient ratios and limited resources. Poor staffing not only lowers satisfaction but also endangers patient safety by increasing errors and fatigue. Arevalo et al. (2025) confirmed that staffing and HR management practices strongly predict job satisfaction in private hospitals in the Philippines. Therefore, while nurses value collegiality, it cannot compensate for systemic deficiencies in staffing and support.

#### Job Satisfaction among Staff Nurses

Table 4. Level of Job Satisfaction of Staff Nurse

n SD 3 1.198	Description	Interpretation
1.198		
	Agree	High
1.173	Agree	High
1.229	Neutral	Moderate High
5 1.204	Agree	High
3 1.230	Agree	High
7 1.309	Neutral	Moderate High
1.123	Agree	High
7 1.180	Agree	High
1.069	Agree	High
3 1.078	Agree	High
2 1.194	Agree	High
1.216	Agree	High
1.198	Agree	High
2 1.376	Neutral	Moderate High
1.190	Agree	High
.909	Agree	High
7 1.034	Agree	High
	1.173 1.229 1.204 1.230 7 1.309 1.123 7 1.180 6 1.069 1.078 2 1.194 1.216 1.198 2 1.376 1.190 6 .909	1.173 Agree  1.229 Neutral 1.204 Agree 1.204 Agree 1.309 Neutral 1.123 Agree 1.180 Agree 1.180 Agree 1.180 Agree 1.180 Agree 1.194 Agree 1.216 Agree

Legend: 5 (4.51–5.00) – Strongly Agree: Very High Work Environment | 4 (3.51–4.50) – Agree: High Work Environment | 3 (2.51–3.50) – Neutral: Moderately High Work Environment | 2 (1.51–2.50) – Disagree: Low Work Environment | 1 (1.00–1.50) – Strongly Disagree: Very Low Work Environment

Table 4 reveals that job satisfaction was generally high (M = 3.67, SD = 1.034), reflecting that nurses derive meaning from their work. Intrinsic motivation was a major strength, with the highest indicator being "I like doing the things I do at work" (M = 4.06, SD = 0.909). This indicates that nurses are dedicated to their profession and derive fulfillment from their roles. They also valued patient appreciation (M = 3.86) and peer competence (M = 3.83), indicating that recognition from patients and colleagues reinforces their professional identity. Conversely, extrinsic factors were sources of dissatisfaction, with salary (M = 3.12) and nurse-to-patient ratios (M = 3.47) scoring the lowest. This suggests that while nurses are intrinsically motivated, systemic issues, such as inadequate pay and overwhelming workload, continue to undermine their satisfaction. Yasin et al. (2021) noted that job satisfaction is maximized when both intrinsic and extrinsic needs are met. Lu et al. (2019) also emphasized that dissatisfaction with compensation is a recurring global issue. Thus, intrinsic motivation sustains commitment, but inadequate extrinsic rewards pose long-term risks for retention.

## Significant Relationship Between Staff Nurses' Job Satisfaction and Nurse Manager Competence and Work Environment

Table 5 presents the correlation analysis between staff nurses' job satisfaction and variables related to nurse manager competence and the work environment. All variables were positively correlated with job satisfaction (p < .05). The strongest correlations were participation in hospital affairs (r = .886) and staffing/resources (r = .841). This indicates that satisfaction is highest when nurses feel empowered to participate in decision-making and perceive sufficient staff and resources to perform their duties effectively. Leadership competence was also positively correlated, indicating that effective managers make a significant contribution to employee satisfaction.

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Table 5. Correlation Analysis between Staff Nurses' Job Satisfaction and Nurse Manager Competence and Work Environment

Variables	Job Sati	isfaction	Remarks	
variables	R-value	P-value		
Nurse Manager Competence				
Management Skills	.734**	.000	Significant	
Leadership Skills	.777**	.000	Significant	
Work Environment				
Foundations in Quality Care	.752**	.000	Significant	
Work Relationships	.666**	.000	Significant	
Staffing and Resources	.841**	.000	Significant	
Participation in Hospital Affairs	.886**	.000	Significant	

<sup>\*\*.</sup> Correlation is significant at the 0.01 level (2-tailed).

Rezapour et al. (2024) similarly found strong correlations between managerial competence and satisfaction, while also demonstrating its inverse relationship with turnover. These findings suggest that satisfaction encompasses not only interpersonal relationships but also structural empowerment and organizational inclusivity. When nurses feel their voices matter and resources are adequate, their satisfaction and loyalty increase.

# Predictor of Job Satisfaction among Staff Nurses

Table 6. Multiple Regression Analysis of Predicting Job Satisfaction among Staff Nurses by Nurse Manager Competence and Work Environment

	Unstandar	dized Coefficients	_			_
Predictors	В	Std. Error	Stand. Coeff.	t-value	P-value	Remarks
(Constant)	.130	.173		.750	.454	Not Significant
Management Skills	035	.064	033	553	.581	Not Significant
Leadership Skills	.147	.073	.153	2.000	.047	Significant
Foundations in Quality Care	133	.083	118	-1.607	.110	Not Significant
Work Relationships	.139	.060	.097	2.307	.022	Significant
Staffing and Resources	.315	.041	.348	7.590	.000	Significant
Participation in Hospital Affairs	.535	.053	.552	10.111	.000	Significant

Note: R = .923; Adjusted  $R^2 = .852$ ; ANOVA for Regression: F = 190.75, P = .000 Dependent Variable: Job Satisfaction

Table 6 presents the multiple regression analysis (Predictors of Job Satisfaction). The regression model explained 85.2% of the variance in job satisfaction (Adj.  $R^2 = .852$ ), indicating that the chosen variables strongly predict satisfaction. Four predictors were significant: participation in hospital affairs ( $\beta = .552$ , p < .001), staffing/resources ( $\beta = .348$ , p < .001), leadership skills ( $\beta = .153$ , p = .047), and work relationships ( $\beta = .097$ , p = .022). Among these, participation in governance emerged as the strongest predictor, underscoring the value of shared decision-making in enhancing satisfaction.

This confirms that when nurses are given a voice in organizational policies and processes, they are more motivated and engaged. Staffing and resources also emerged as critical, highlighting the importance of adequate support systems in sustaining employee satisfaction. Leadership skills and work relationships, although less influential, still made significant contributions.

On the other hand, management skills and foundations of quality care were not significant predictors in the final model. This suggests that while these factors are valued by nurses and scored positively at the descriptive level, their unique influence on satisfaction diminishes when other stronger predictors, such as governance and staffing, are considered.

These findings validate international literature and resonate with Philippine studies (Arevalo et al., 2025; de la Cruz et al., 2024). The implication is clear: participatory governance, supported by adequate staffing and strong leadership, forms the foundation of nurse job satisfaction.

#### **Conclusions**

Statistical analysis confirmed that nurse manager competence and work environment significantly influenced job satisfaction. Among the predictors, participation in hospital affairs ( $\beta$  = .552) emerged as the strongest driver of satisfaction, followed by staffing/resources, leadership skills, and work relationships. These findings emphasize the importance of inclusive decision-making, adequate resourcing, and supportive leadership in sustaining nurse satisfaction. This aligns with both Philippine (Arevalo et al., 2025; de la Cruz et al., 2024) and international evidence (Rezapour et al., 2024; Yasin et al., 2021), which consistently demonstrate that empowering nurse managers and ensuring organizational support enhances staff morale and reduces turnover.

Staff nurses perceived nurse manager competence as high, particularly in leadership and management skills, reflecting confidence in their nurse managers' ability to guide effectively. The work environment was also viewed positively, with strong interpersonal relationships emerging as a key strength. However, concerns were evident regarding staffing shortages, resource limitations, and

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dissatisfaction with compensation. Item-level analysis revealed that while intrinsic motivation was strong—nurses enjoyed their work (M = 4.06) and felt valued by patients (M = 3.86)—extrinsic factors such as salary (M = 3.12) and nurse-to-patient ratios (M = 3.47) were the lowest-rated indicators, highlighting areas requiring urgent organizational attention.

Based on these findings, hospital administrators are encouraged to address staffing and resource gaps, review compensation packages, promote participatory governance, and invest in leadership development. Human resource departments and nursing service departments may prioritize nurse involvement in decision-making, ensure adequate support and resources, enhance compensation, and foster team cohesion. Communities may support healthcare institutions by advocating for improved infrastructure, raising public awareness of nurses' roles, and encouraging community engagement in health programs. Families play a vital role by providing emotional support and promoting open communication and self-care. Nurse managers are encouraged to continue fostering collaborative teams, supporting staff development, and mentoring emerging leaders. Staff nurses are also encouraged to participate in governance actively, contribute to team efforts, and pursue professional growth. Colleges of nursing can strengthen leadership training and better align their curricula with clinical demands by forming partnerships with healthcare providers. Ultimately, future studies may delve deeper into the relationship between compensation and job satisfaction, employ longitudinal and mixed-methods designs, and broaden their scope to diverse healthcare settings. Collectively, these efforts aim to enhance nurse satisfaction, strengthen leadership, and improve the healthcare work environment, ultimately benefiting patient care and sustaining the nursing workforce.

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