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Analysis of The Relationship Between Workload and Stress In Emergency Department Nurses

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KEYWORDS	ABSTRACT
Emergency department;	Emergency Department (ED) nurses are frontline healthcare providers who
workload; work stress.	must remain ready 24 hours a day to deliver rapid emergency services. A
	high workload and complex cases often lead to work-related stress that
	affects both the quality of nursing care and nurses' well-being. This study
	aims to analyze the relationship between workload and stress levels among
	ED nurses through a systematic literature review. The review included 10
	research journals published within the last five years that used quantitative
	or mixed-method designs and focused on ED nurses in hospital settings.
	Data were analyzed descriptively with critical appraisal to assess article
	quality and relevance. Findings show that ED nurse workload varies, with
	light workload ranging from 15.9%-68.8%, moderate workload from
	17.5%-69.7%, and heavy workload from 0%-60%. A significant
	relationship was identified between workload and work stress. High
	workload-including large patient volumes, high task intensity, and case
	complexity-increases physical and psychological pressure on nurses,
	triggering stress. Workload is influenced by internal factors (gender, age,
	education, length of service) and external factors (patient numbers, nurse-
	patient ratio, work systems, facilities). Productive and non-productive
	nursing activities also contribute. The study concludes that workload
	significantly affects ED nurse stress. Hospitals must balance workload with
	nurses' capacities, while nurses require adequate skills to manage the
	demands of emergency care.

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INTRODUCTION

The issue of nurse workload and work-related stress has become a global concern within healthcare systems, particularly in emergency departments that operate under high-pressure and unpredictable conditions (Aeni et al., 2020; Jameson et al., 2018; Macphee et al., 2017; SmithBattle et al., 2021). The World Health Organization (WHO) has emphasized that excessive workload and occupational stress among healthcare workers can negatively affect service quality, patient safety, and workforce sustainability. In many countries, increasing patient volumes, limited human resources, and rising expectations for rapid and accurate medical responses have intensified the psychological and physical burdens experienced by emergency nurses. These challenges are further exacerbated by the need for continuous

vigilance, rapid clinical decision-making, and exposure to critical and traumatic situations, making emergency nurses one of the most vulnerable professional groups to work-related stress (Fischer et al., 2019; Guttikonda & Vadapalli, 2018; Okoliegbe et al., 2024; Pedersen et al., 2023).

In Indonesia, these global challenges align with national health development priorities. The Indonesian Ministry of Health, through the vision of Indonesia Sehat 2025, aims to promote a healthy lifestyle and improve public access to quality health services by strengthening healthcare institutions and empowering health resources (Maniaci et al., 2023; Von Essen & Englander, 2013). Hospitals play a central role in achieving this vision, particularly through the effectiveness of their health service organizations (Huettemann et al., 2024; Rawashdeh, 2018; Todd et al., 2024). Among hospital units, the Emergency Room (ER) is a critical service area that provides continuous, 24-hour care for patients in urgent and life-threatening conditions. ER nurses are required to deliver fast, precise, and responsive care—often under time pressure and resource constraints—while managing diverse patient conditions simultaneously (Ferreira et al., 2020; Kim et al., 2022; Pavedahl et al., 2024). These demands frequently result in high workloads that may contribute to increased levels of occupational stress and fatigue.

Although several studies have examined workload and stress among nurses, most focus on general inpatient settings or specific clinical departments, with limited empirical evidence concentrating on emergency room nurses in the Indonesian context. Moreover, existing studies often assess workload or stress independently, without thoroughly analyzing their direct relationship within high-intensity service environments such as ER units. This gap highlights the need for focused research that examines how workload contributes to work stress among ER nurses, particularly within hospital systems striving to meet national healthcare quality standards.

Therefore, this study aims to analyze the relationship between workload and work stress among nurses working in the Emergency Room (ER). The findings of this study are expected to provide both theoretical and practical benefits. Theoretically, the study contributes to the development of nursing and occupational health literature by strengthening empirical evidence on workload–stress relationships in emergency care settings. Practically, the results can serve as a reference for hospital management and policymakers in designing effective workload management strategies, improving nurse well-being, enhancing service quality, and supporting the achievement of Indonesia Sehat 2025.

METHOD

Meta-analysis is a statistical method used to combine the results of multiple studies on similar topics to obtain stronger and more reliable conclusions. According to Borenstein et al. (2021), meta-analysis produces a pooled effect size that describes the direction and strength of the relationship between variables more accurately than individual studies. The main purposes of meta-analysis are to determine the overall direction and magnitude of relationships across studies, identify moderating factors that may influence study outcomes, and provide a stronger scientific foundation for evidence-based nursing (EBN) practice. The benefits of meta-analysis include increasing the external validity of research findings, reducing individual study bias, and serving as a robust basis for developing nursing policies and interventions. To achieve these

objectives, meta-analysis follows systematic steps, including defining the research topic and problem formulation, conducting a systematic literature search, setting inclusion and exclusion criteria, extracting data from selected studies, calculating effect sizes, pooling results using fixed-effect or random-effect models, and testing heterogeneity and publication bias using statistical indicators such as I² and funnel plots.

Several meta-analyses and systematic reviews have examined the relationship between workload and stress among emergency room nurses, consistently showing a positive association. Hermansyah (2019) reported a moderate positive correlation between workload and work stress (r = 0.45), indicating that increased workload significantly contributes to higher stress levels. Similarly, Li LZ et al. (2024) found that nurse burnout is closely related to increased stress and declining service quality, while Liang et al. (2025) demonstrated a statistically significant relationship between workload and burnout with moderate to strong effect sizes. Based on these theoretical and empirical findings, a conceptual framework can be developed illustrating workload as a key factor influencing stress and burnout among emergency room nurses, which in turn may affect performance and quality of care.

Workload (physical, mental, emotional)

Stres Work (psychological, physiological, behavioral)

Connection This show that burden Work tall contribute to improvement stress work, especially If No accompanied by with support social, environmental conducive work and good coping skills from a individual.

RESULTS AND DISCUSSIONS

Journal Analysis

Table 1. Critical Appraisal Workload Relationship with Stress Among Nurses in the Emergency Room

No	Title and Author	Method	Results
1.	Connection between	Method: Literature	Based on results study of the 7 journals
	Workload	review	reviewed show that all over journal
	and Stress Work Nurses in	Subject: 7 journals	obtained existence correlation significant
	the Installation Emergency	Instruments : Worksheet	positive between burden work and stress
	Emergency	Analysis: Litrev	work as a nurse in the ER, with p-Value
			value ranges between 0.0000 to 0.0002,
	Umi Apriliani et al		which indicates very significant
	2024		relationship.
			-
	Journal of Nursing Studies		
2.	Workload Relationship With	Method: Quantitative	The data results obtained part big is
	Work Stress on Nurses in the	with cross-sectional	burden Work currently as many as 21
	Installation Room Emergency	approach	(67.7%) respondents and as many as 21
	Immanuel Hospital	Subjects: 31 people	(67.7%) respondents experience stress
	Emergency Bandung	Instrument:	Work moderate . Based on results analysis
		Questionnaire	of the data obtained there is significant
	Ridwanto et al		relationship between burden work and

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No	Title and Author	Method	Results
	2024	Analysis : Spearman Rank Test	stress work for nurses in the installation room Emergency Emergency Immanuel
	Journal Knowledge Nursing		Hospital Bandung (p-value 0.002 or p-
	and Health (JIKK)		value $< \alpha$ value) with mark correlation
			coefficient 0.536 closeness the
			relationship medium and direction the
			relationship positive
3.	Workload Relationship With	Method: Cross sectional	research results were obtained part large
	Stres Working as an	Subjects: 48 people	(66.7%) load Work light, and some large
	Emergency Nurse	Instrument:	(87.5%) mild stress. The statistical test
		Questionnaire	results obtained Sig value < 0.005, namely
	Eva Erviana	Analysis: Fisher Exact	0.001, means there is significant
	2024	Test	relationship between burden Work with
			stress work as a nurse implementer at the
	Journal of Health Society		Emergency Room of Sayang Regional
	•		Hospital, Cianjur Regency.
4.	Workload Relationship with	Method: Cross sectional	Research result obtained (47.8%) load
	Stress Level Working as a	Subjects: 24 people	Work moderate, and (91.7%) mild stress.
	Nurse in the Nakula Sadewa	Instrument:	The statistical test results obtained mark
	Ward, Panembahan Regional	Questionnaire	coefficient correlation 0.166 (very low)
	Hospital Senopati Bantul	Analysis: Spearman	with significance of 0.439 because p-
		Rank Test	value > 0.05 then Ha is rejected and Ho is
	Rima Anggraini et al		accepted, which means No There is
	2024		meaningful relationships between burden
			Work with incident stress work as a nurse
	Aisyiyah University		in the Nakula Sadewa Ward, Panembahan
	Yogyakarta		Regional Hospital Senopati Bantul.
5.	Relationship between	Method: Cross sectional	Research result is nurses who have burden
	Workload and Work	Subjects: 47 people	Work heavy as much as 55.3%, nurses
	Environment	Instrument:	own good environment 53.2 % and nurses
	With Stres Work Nurse ICU	Questionnaire	who experienced stress Work heavy as
	and Emergency Room	Analysis : Chi-square	much as 53.2%. After statistical tests were
		test	conducted obtained connection
	Isna Aglusi Badri		meaningful between burden work and
	2020		environment Work with stress Work
			nurses $(p < 0.05)$.
	Human Care Journal		
6.	Workload Relationship With	Method: Cross sectional	Analysis results connection between
	Stres Work Nurse	Subjects: 20 people	Workload with Stres Work respondents
	At Nashrul Ummah Islamic	Instrument:	obtained results of 11 respondents who
	Hospital in Lamongan	Questionnaire	have burden Work in Medium category
		Analysis: Spearman	shows that part big experience Stres work
	Ike Prafita Sari et al	Rank Test	in the moderate category is also as many
	2020		as 6 respondents (54.5%). Viewed from statistical test results (Spearman
	Majapahit Hospital		Correlation) were obtained result r =
	· • • • • • • • • • • • • • • • • • • •		$0.534 \alpha = 0.019 (p < 0.05)$, then can
			concluded that there is meaningful
			concluded that there is meaningful

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No	Title and Author	Method	Results
			working in the Emergency Room and ICU of Nashrul Ummah Hospital, Lamongan
7.	Workload Relationship On Work Stress in Emergency Room Nurses at Dr. Kanujoso Regional General Hospital Djatiwibowo Balikpapan Nur Alpian et al 2024 Journal Occupational Safety, Health and Protection	Method: Cross sectional Subjects: 43 people Instrument: Questionnaire Analysis: Chi-square test	From the results analysis obtained that respondents who are not stressed tend to feel burden light work as many as 22 respondents, and respondents with stress levels tend to feel burden hard work as many as 21 respondents. Hypothesis test results variables burden work and stress levels using chi square were obtained p-Value value of 0.000 <0.005 then Ho is rejected and Ha is accepted which means there is connection between burden Work with stress levels in nurses Emergency
8.	Environment Workload Relationship With Stress Level Work Nurse In Installation Emergency Emergency Puput Risti Kusumaningrum et al	Method: Cross sectional Subjects: 22 people Instrument: Questionnaire Personal Stress Inventory. Analysis: Spearman Rank Test	room of Kanujoso Regional Hospital. Research result burden Work nurse nurse data obtained with burden Work currently as many as 8 respondents (36.4%), and burden Work tall as many as 8 people (36.4%), while level stress Work nurse nurse data obtained with stress Work currently as many as 16
	Journal Leadership and Management Nursing (JKMK)		respondents (72.7%). After done data analysis using correlation <i>Spearman Rank</i> obtained mark <i>p value</i> of 0.01 or more small from 0.05 with <i>Correlation Coefficient</i> is 0.536. The conclusion from study This is There is connection between Workload With Stress Level Work Nurse in the Emergency Room.
9.	Correlation Between Nurses Workload and Work Stress in the Emergency Department Taopik Hidayat et al 2025 Journal Priority Nursing	Method: Cross sectional Subjects: 29 people Instrument: Questionnaire NASA- TLX (Task Load Index) for measure burden work and questionnaire stress Work using HSE (Health and Safety Executive). Analysis: Spearman Rank Test	Research result show that 62.1% of nurses experience burden Work high, while 58.6% experienced stress Work currently. Spearman's rank test shows correlation significant positive between burden work and stress work (p = 0.001; r = 0.642), which means that improvement burden Work relate with improvement stress work. Findings This highlight importance management burden Work For reduce level stress among nurse. Repair scheduling work, improve ratio staff, and provide management programs stress in a way regular recommended For increase well-being and performance service nurse. As conclusion, there is significant relationship between burden work and stress work among nurse at the

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No	Title and Author	Method	Results
			Emergency Room of Jampang Kulon Hospital .
10.	The Correlation Between Workload And Occupational Stress Of Nurses In The Emergency Department of Regional Public Hospital, Prof. Dr. WZ Johannes Kupang Regional Public Hospital	Method: Cross sectional Subjects: 40 people Instrument: Questionnaire Analysis: Chi-square test	Research result obtained (82.5%) load Work moderate, and (67.5%) work stress moderate. The statistical test results obtained p-value 0.000 or more low of á 0.05, which means that H0 is rejected and indicates that burden Work correlated with stress Work nurse on site study.
	Antonius Rino V et al 2019		
	Indonesian Journal of Nursing and Midwifery		

Journal findings used as the sample in this study are literature sources that meet the required research criteria. A total of 10 journals related to the relationship between workload and nurses' stress levels in the emergency room were analyzed, and the results are described as follows.

Nurses, as the caring profession, are health professionals in hospitals who possess the competence, responsibility, and authority to provide health services. They serve as the frontline of hospital care, particularly in emergency unit services. Emergency room nurses work quickly to assist patients who require immediate medical attention, including those with severe illnesses and trauma. The heavy duties and responsibilities carried out physically and mentally often lead nurses to experience high workloads (Prasetyo, 2020). Based on the reviewed studies, light workload ranged from 15.9%–68.8%, moderate workload from 17.5%–69.7%, and heavy workload from 0%–60%. Overall, most nurses in the emergency room experience a moderate level of workload.

Findings from journals 5 and 6 explain in greater detail that workload can be influenced by productive and non-productive nursing activities. Productive activities include direct and indirect nursing care, while non-productive activities involve non-clinical tasks. The high workload in emergency rooms largely results from strict and rapid service demands necessary to maintain patients' conditions and save lives. Additional workload arises from continuous monitoring, documentation, prevention of patient-condition deterioration, and the obligation to convey accurate information to patients' families (Sugesti, 2018).

Journal 7 highlights that workload is influenced by both internal and external factors. Internal factors involve individual characteristics such as gender, length of service, and age. External factors include job demands, organizational structure, working hours, and physical work environment conditions such as temperature, noise, lighting, and dust exposure. Interpersonal relationships at work also contribute to workload and stress levels. High workload among nurses is common, but excessive workload has significant impacts. Nurses who face pressure daily, especially in emergency rooms, may experience physical and mental fatigue,

headaches, digestive disorders, irritability, and other emotional reactions that may lead to work stress.

Stress level findings across journals show light stress at 18.5%–58.8%, moderate stress at 41.2%–78.8%, and high stress at 0%–53.2%. Overall, most nurses experience moderate work stress. Work stress may last from several hours to several days, marked by stomach aches, muscle tension, difficulty sleeping, and perceived emotional burden. Several journals indicate that nurse stress occurs when the number of tasks exceeds available personnel. According to Higley in Cox (1996) as cited in Haryanti et al. (2019), nursing is inherently a profession full of stress. Nurses face suffering, trauma, death, lack of recognition, and continuous pressure, often feeling undervalued. Stress increases when the patient-to-nurse ratio is unbalanced..

Journal 5 highlights that emergency room nurses carry out three main responsibilities: life support, patient monitoring, and prevention of complications. These responsibilities become heavier when dealing with critical patients who have complex problems, contributing to higher stress levels. Study findings categorize nurse stress into biological, social, and psychological stress. Biological stress is indicated by increased tension in the neck, shoulders, and back; increased pulse and respiratory rates; sweating; headaches; digestive issues; changes in appetite and weight; and restlessness. Social stress is shown through decreased productivity, frequent mistakes, absenteeism, and conflict with colleagues. Psychological stress includes anxiety, depression, fatigue, sleep disturbances, loss of motivation, difficulty concentrating, and mental exhaustion.

When stress reaches its peak, nurses experience performance decline, impaired decision-making, loss of self-control, and inability to function effectively. In severe cases, nurses may become ill, unable to work, or resign from their jobs. Of the 10 journals analyzed, nine concluded that there is a relationship between workload and work stress among emergency room nurses, whereas one journal (journal no. 4) found no significant relationship. The absence of a relationship in journal no. 4 was attributed to the sample characteristics: all nurses were female, within productive age (31–40 years), had adequate educational backgrounds (mostly Diploma III), and had long working experience (11–20 years). These factors supported effective coping mechanisms, reducing stress levels. Additionally, task division in the Nakula Sadewa Ward was well organized, resulting in lighter workloads and lower stress levels.

Based on the reviewed literature, it can be concluded that workload has the potential to cause work stress among nurses. Proper management is essential to reduce workload levels and, consequently, stress levels—thereby improving nurse performance and the overall quality of hospital services. The literature review provides valuable insights into the relationship between workload and work stress among emergency room nurses. Although limitations remain in the reviewed studies, the findings sufficiently answer the research objective by demonstrating that workload is associated with nurse stress in emergency settings.

CONCLUSION

Research results show that workload significantly influences stress levels among emergency room nurses. A high workload—including the number of patients, task intensity, and case complexity—increases the physical and psychological pressure experienced by nurses, thereby triggering work stress. The dynamic and demanding conditions of the ER, which

require rapid responses, further amplify this impact. Therefore, effective workload management is essential to reduce nurse stress and maintain the quality of services in the emergency room.

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