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Assessment Of The Moderating Effects Of Job Level On The Relationship Between Workload And Coping Behavior Among Saudi Arabia Nurses 2023

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Abstract

Background:

As health care workers face a wide range of psychosocial stressors, they are at a high risk of developing burnout syndrome, which in turn may affect hospital outcomes such as the quality and safety of provided care. Stress in the workplace is globally considered a risk factor for workers' health and safety. More specifically, the health care sector is a constantly changing environment, and the working conditions in hospitals are increasingly becoming demanding and stressful. According to the World Health Organization (WHO), "a healthy workplace is¹ one in which workers and managers collaborate to use a continual improvement process to protect and promote the health, safety and well-being of all workers and the sustainability of workplace. All health care workers, regardless of their specialization it is a stressful and arduous profession career, many factors in the work environment contribute to this. Shortage of nurses is one of those factors that make hospitals and primary health care short staffed and increases on nurses and medical doctor's workload and also quality of Patient and healthcare worker outcomes also patient care, as well as health care workers, The negative workplace behaviors are relevant to understand qualified nurses' job satisfaction and their advance level roles. The focus to reveal the impact of role conflict and workload on job satisfaction of degree holder nurses and moderating role of perceived organizational support. . Aim of the study: To assessment of the moderating effects of job level on the relationship between workload and coping behavior among Saudi Arabia nurses 2023. Methods: Cross-sectional study was carried out; including a random sample of health care workers at Saudi Arabia a selfadministered validated questionnaire was adopted and modified. The Sample size of medical practitioners. Our total participants were (200). Result: description of the relation of influencing of heavy of elements of Workloads on Patient and healthcare workers Outcomes variables the most of participants high influencing of heavy of elements of workloads were (48.0%) followed by average were (31.0%) but weak were (21.0%) while heave a significant relation were P-value < 0.001 and X2 22.36. Conclusion: This study

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showed the importance for l managers to carry out management practices that promote job control and provide employees with job resources, in order to reduce the burnout risk.

Keywords: influencing, Burnout, Workload, Health Care Workers, Role, Job, Saudi Arabia.

Introduction

Research shows that respected news media sources disparage nursing so the society does not get a perception of nurse role as educated lifesaving professionals [1]. Unnecessary workload has negative brunt on job satisfaction. Degree holder nurses are kept busy in direct patient care at bedside like maintaining intravenous lines and giving medicine [2]According to the World Health Organization (WHO), "a healthy workplace is one in which workers and managers collaborate to use a continual improvement process to protect and promote the health, safety and well-being of all workers and the sustainability of workplace "[1]. Despite WHO's aim to promote and foster healthy work environments, approximately 2 million work-related deaths occurred in 2000 [3]. Several studies focusing on the health care sector have shown that health care professionals are exposed to a variety of severe occupational stressors, such as time pressure, low social support at work, a high workload, uncertainty concerning patient treatment, and predisposition to emotional responses due to exposure to suffering and dying patients [2]. In this sense, health care workers are at a high risk of experiencing severe distress, burnout, and both mental and physical illness. In turn, this could affect hospital outcomes, such as the quality of care provided by such institutions [4,5]. Particularly, in the past 35 years, the prevalence of stress-related illnesses such as burnout has increased significantly, affecting 19e30% of employees in the general working population globally [6]. Burnout among health care workers, mainly medical staff, was becoming an occupational hazard, with its rate reaching between 25% and 75% in some clinical specialties [7]. Furthermore, it was reported that among the sources of occupational illnesses, burnout represents 8% of the cases of occupational illnesses [8] .As defined by Sundin and Maslach [9] and Maslach [10], burnout is a cumulative negative reaction to constant occupational stressors relating to the misfit between workers and their designated jobs. In this sense, burnout is a psychological syndrome of chronic exhaustion, cynicism, and inefficacy, and is experienced as a prolonged response to chronic stressors in the workplace [10].

Work-related stress can be prevented by changing the work environment, for example by ensuring adequate staffing in relation to workload and offering communication training, reflection time and structured communication [11]. Patient safety, quality of care and collaboration may be affected by workload and work environment, as there is a connection between staffing, skills and adverse events [12]. There is a risk of patients being exposed to adverse events in the ICU, with missed nursing care being one of several potential causes thereof .[13]

Despite WHO's aim to promote and foster healthy work environments, approximately 2 million work-related deaths occurred in 2000 [14]. In this sense, health care workers are at a high risk of experiencing severe distress, burnout, and both mental and physical illness. In turn, this could affect hospital outcomes, such as the quality of care provided by such institutions.[15]

Literature Review

The notion of leading and lagging indicators was recently discussed in a paper by Ball et al. that urged employers and regulators to focus on leading nurse indicators that have the potential to proactively address quality and safety deficiencies, also Ball et al. found significant associations between nurses' reports of missed care, RN staffing levels, and perceptions of patient care quality[16]

Study by Sermeus et al (2011) found, focus on nurse-perceived workload factors that are assessable and actionable. In study, included workload factors from a variety of validated,

publicly available assessment tools, particularly those used in the global RN4CAST studies [17]. Were also influenced by the human factors framework of Holden et al.[18]

Zwakhalen et al.(2018) postulated that when care is not done or "missed", the quality and safety of patient care may be compromised [19]. Based on the RN4CAST protocol, Ball et al. surveyed National Health Service England nurses about job-level care left undone on their most recent shift worked for 13 essential, nursing care activities. On average, nurses reported leaving four care items undone on their most recent shift. A frequent missed care item was patient surveillance, or the capacity to monitor patients for status changes [16].

Although the majority of HCPs reported feeling stressed (68.4%), another study revealed that source-specific work-related stress, rather than overall stress is strongly associated with medical errors. Multiple studies indicate a significant relationship between stress and medical errors among HCPs although most of these studies were based on self-reported medication errors [20]

Another study by Moss et al., 2016 reported incidence of work-related Workloads among healthcare workers is >50% [21]. Study by Pastores et al., (2019) found that factors thought to cause work-related stress among ICU nurses are lack of communication between nurses, physicians and assistant nurses, poor supervision, high demands and ethical, moral and mental stress [11].

King et al.(2021) identified factors affecting medical staff and health care workers workload by conducting an integrative literature review, and then determining relevance and measurability of these factors through focus groups and a survey [22]. The factor with the highest workload "impact score" was "high number of work interruptions". Work interruptions at the task-level negatively influence cognitive or mental load, leading to emotional duress and error. Since a significant component of RNs' work is knowledge work, competencies associated with assessment, analysis, synthesis and coordination, are compromised by unanticipated interruptions [23]

A study from the USA showed that staff involved in at least one of seven training programs covering one or more aspects of stress management experienced significant reductions in psychological distress, depression and anxiety immediately after the intervention [24]. Follow-up of these subjects for 9–16 months revealed further reduction in psychological distress and emotional exhaustion [25]. The second approach is organization-based interventions [22]

Similar to other research, patient acuity was found to be strongly associated with each of the adverse patient outcomes and registered nurse staffing levels showed a weaker association [20].

Rationale

Health care workers workload is an important factor in ensuring the safety and quality of care for Patient and healthcare worker Outcomes. Increasing workload is one of the main concerns in the field of health and treatment. It is also one of the most important workloads and stressors among health care workers. Excessive workload can lead to adverse outcomes for health care workers and other staff, increase in occupational injury, higher job demands and difficult decision making resulting in mental tension and job exhaustion. The heavy workload of hospital health care workers is a major problem for the health care system. Health care workers are experiencing higher workloads than ever before due to four main reasons; increased demand for health care workers, inadequate supply of health care workers, reduced staffing and increased overtime and reduction in patient length of stay. So that this study will be concerned with health care workers perception toward health care workers workloads and its effect on Patient and healthcare worker Outcomes .

Aim of the study:

To assessment of the moderating effects of job level on the relationship between workload and coping behavior among Saudi Arabia nurses 2023

Objectives:

To assessment of the moderating effects of job level on the relationship between workload and coping behavior among Saudi Arabia nurses 2023

Materials and methods

Study design:

To assessment of the moderating effects of job level on the relationship between workload and coping behavior among Saudi Arabia nurses 2023

Study Area

The study will be carried out at Saudi Arabia in Makkah Al-Mokarramah is the holiest spot on Earth. It is the birthplace of the Prophet Mohammad and the principal place of the pilgrims to perform Umrah and Hajj. It is located in the western area in Kingdom of Saudi Arabia and called the Holy Capital. Contains a population around 1.578 million's and considered the economic and tourism capital of the country, and it is the second largest city after Riyadh also in Riyadh. It has grown during the last two decades of the 20th Century, which made the city a center for money and business in the Kingdom of Saudi Arabia and a major and important port for exporting non-oil related goods as well as importing domestic needs.

Study Population

The study has be conducted among health care workers regarding Workloads on Patient and healthcare worker Outcomes in the primary health-care and hospitals at Saudi Arabia.

The sample size

The sample size has been calculated by applying Raosoft sample size calculator based on (The margin of error: 5%, Confidence level: 95%, and the response distribution was considered to be 20%) accordingly to sample size from medical practitioners by the required sample size; (200). (male and female) and adding 10 more to decrease margin of error. After adding 5% oversampling, the minimum calculated sample has been 200. Computer generated simple random sampling technique was used to select the study participants. Data collection was done by the researcher during the October to December, 2023.

Sampling technique:

Systematic random sampling technique is adopted. After that, by using random number generator, then simple random sampling technique was applied to select the health care providers. Also, convenience sampling technique will be utilized to select the participants in the study. By using systematic sampling random as dividing the total health care providers by the required sample size; (200).

Data collection tools of the study:

The self-administered questionnaire was adopted and modified Questionnaire.5 The questionnaire consists of two main parts, socio-demographic and personal characteristics including age, gender, nationality, grade and associated determinants. The questionnaire was then translated from English to Arabic. Then it was independently retranslated into English to ensure the linguistic quality. The final questionnaire was validated by three consultants.

The study was approved by the local research committee, and permitted by the Joint Program of Family Medicine. Permission to conduct the study in the PHC was also obtained from the Ministry of health . Written consent was obtained from each participant. All collected data from the health care workers are kept confidential, accessed only for scientific research. The study is self-funded by the

Data entry and analysis:

The Statistical Package for Social Sciences (SPSS) software version 24.0 has be used for data entry and analysis. Descriptive statistics (e.g., number, percentage) and analytic statistics using Chi-Square tests (χ 2) to test for the association and the difference between two categorical variables were applied. A p-value ≤ 0.05 will be considered statistically significant.

Pilot study

A pilot study has be conducted in primary health care patient's the same sector due to the similarity to the target group using the same questionnaire to test the methodology of the study, the questionnaire has be clear and no defect has be detected in the methodology

Ethical considerations

Permission from the joint program Family Medicine program has be obtained. Permission from the Directorate of health, verbal consents from all participants in the questionnaire were obtained. All information was kept confidential, and results have be submitted to the department as feedback.

Budget: Self-funded

Results

Table 1 Distribution of characteristics of participated in this study (n=200)

	Ν	%					
Age (years)							
20-30	42	21					
31-40	40	20					
41-50	68	34					
More than 50	50	25					
Gender							
Female	94	47					
Male	106	53					
Education							
Diploma or Certificate	68	34					
Undergraduate	44	22					
Baccalaureate or Masters	88	44					
Educational qualifications of health care workers							
Bachelor of Nursing Science	42	21					
Diploma of Technical Institute of HCWs	80	40					
Diploma of Secondary School of health care workers	78	39					
Nationality							
Saudi	156	78					
Non -Saudi	44	22					
Marital status	·						

Unmarried	68	34			
Married	96	48			
Divorced	30	15			
Widowed	6	3			
Occupation					
Physicians	64	32			
Nurse	90	45			
Health inspector	46	23			

	Ν	%				
Salary satisfaction						
Sufficient	96	48				
Partly Sufficient	44	22				
Insufficient	42	21				
Quite Insufficient	18	9				
Employment Status						
Full-time	134	67				
Part-time	66	33				
Existence of dependent's						
Yes	24	12				
No	176	88				
Willingness to work						
Yes	154	77				
No	24	12				
Partially	22	11				
Taking official leave						
Yes	68	34				
No	132	66				
Hospital working experience years						
Less than 5 years	54	27				
From 5 to 10 years	66	33				
From 11 to 20 years	62	31				
More than 20 years	18	9				
Attended training programs						
No	22	11				
Quality program	68	34				
Infection control	44	22				
Hospital management	66	33				

Years of experience in department					
Less than 5 years	62	31			
From 5 to 10 years	56	28			
From 11 to 15 years	66	33			
More than 15 years	16	8			

Table 3 shows regarding the distribution of workload perception and occupation stress, regarding disruption of your home life through spending long hours at work the most of the participants answer Yes were (74.0%) while the No were (26.0%), regarding the feeling under pressure to meet deadlines the majority of them answer yes were (67.0%) while No were (33.0%), regarding encountering difficulties in relationship with colleagues the most of participant answer No were (59.0%) while Yes were(41.0%), regarding are you working at night/weekend call duties in addition to your daily work the majority of participant are not at all were(49.0%) while Sometimes both were (29.0%)

while all the time were (22.0%).

but the afternoon shifts were (12.0%), regarding are you working on weekends the majority of participant are Not at all were (44.0%) while Sometimes were(32.0%) but all the time were (32.0%), regarding were you exposed to any stressful event within a year outside of your work the majority of participant answer No were(71.0%) while Yes were(29.0%), regarding medical error the majority of participant No medication error made at all per month were(81.0%) while made at least one medication error per month were(19.0%)

but Insufficient were (6.0%), regarding work experience the majority of participant are 10–20 years were(40.0%) while Less than 10 years were(39.0%) while more than 20 years were (23.0%), regarding Taking official leave the majority of participant answer No were(79.0%) while answer Yes were(21.0%), regarding Economic level the majority of participant are 10,000 to 30,000 were(55.0%) while <10,000 were(32.0%) but the >31,000were (18.0%),

regarding Taking official leave the majority of participant answer No were(66.0%) while Yes were(34.0%), regarding hospital working experience years the majority of participant are From 5 to 10 years were(33.0%) while From 11 to 20 years were(31.0%) but Less than 5 years were (27.0%). regarding attended training programs the majority of participant are attend training quality program were(34.0%) while hospital management were(33.0%) but Infection control were (22.0%), regarding years of experience in department the majority of participant from 11 to 15 years were(33.0%) while less than 5 years were (31.0%), but from 5 to 10 years were (28.%)

	Ν	%	
Patient Acuity			
Not at All or Somewhat Acute	94	47	
Moderately or Very Acute	106	53	
Patient Dependency			
Very or Somewhat Independent	82	41	
Very or Somewhat Dependent	118	59	
Heavy Workload			
Never to a Few Times a Week	48	24	

 Table 2 Distribution of the Heavy Perceived Workloads on Patient and healthcare worker Outcomes variables

Everyday	152	76				
Interruptions						
Less than Almost Every day	68	34				
Every Day or Almost Everyday	132	66				
Compromised Standards	0					
Never to a Few Times a Week	88	44				
Everyday	112	56				
Outcomes						
Medication Errors	-					
Less than Weekly	134	67				
Weekly or More Often	66	33				
Patient Falls						
Less than Weekly	84	42				
Weekly or More Often	116	58				
Urinary Tract Infections						
Less than Weekly	66	33				
Weekly or More Often	134	67				
Emotional Exhaustion						
No	68	34				
Yes	132	66				
Job Satisfaction						
Yes	74	37				
No	24	12				
Partially	102	51				

Table 2 shows the heavy perceived workloads on Patient and healthcare worker Outcomes variables regarding patient acuity the most of the participants answer moderately or very acute were (53.0%) but Not at All or Somewhat acute were (47.0%), regarding Patient Dependency the majority of participant answer Very or Somewhat Dependent were (53.0%) while Very or Somewhat Independent were (41.0%), regarding Heavy Workload the most of participants answer Every day were(76.0%) while Never to a Few Times a Week were(24.0%), regarding Interruptions the majority of participant answer Every Day or Almost Every day were (66.0%) while Less than Almost Every day were (34.0%), regarding Compromised Standards the majority of participant Every day were(56.0%) while Never to a Few Times a Week were(44.0%),

Regarding the outcomes

Regarding Medication Errors the majority of participant are Less than Weekly were (67.0%) while Weekly or More Often were(33.0%), regarding Patient Falls the majority of participant are Weekly or More Often were(67.0%) while Less than Weekly were (42.0%), regarding Urinary Tract Infections the majority of participant Weekly or More Often were (67.0%) while Less than Weekly were(33.0%), regarding Emotional Exhaustion the majority of participant answer Yes were(66.0%) while No were(34.0%), regarding Job Satisfaction the majority of participant answer participant answer (51.0\%) while Yes were(37.0%) but No were (12.0%).

Table (3) Distribution of elements of Workloads on Patient and healthcare worker Outcomes variables

Elements		Workloads on Patient and healthcare worker Outcomes variables					%	Chi-square	
		Strongly agree	Agree	e Neutral Disagree Strongly disagree		70	X ²	P-value	
Not Control	Ν	70	22	30	44	34			0.000
over Professional Practice	%	35	11	15	22	17	65	34.400	
Lack of	N	50	20	54	34	42		18.400	0.001
Control over Personnel	%	25	10	27	17	21	60.2		
influence	Ν	96	34	28	24	18		101.400	0.000
over Resources	%	48	17	14	12	9	76.6		
Lack of	N	76	44	38	20	22		51.000	0.000
participation in Committee Structures	%	38	22	19	10	11	73.2		
Lack of	N	86	54	26	20	14		89.600	
access to Information	%	43	27	13	10	7	77.8		0.000
Lack of goal	Ν	106	30	24	22	18		138.000	
Setting and Conflict Resolution	%	53	15	12	11	9	78.4		0.000

Table 4 shows the distribution of Effect of workload perception and occupation stress on medical error trends in hospitals,

Regarding the **Daily number of patients taken care** while is a significant were p-value =0.001 and X² 61.143 . regarding the 0-3 patients most of participant in workload Perception were (41.0%), followed by occupational Stress were (36.84%) while medical error attitude scale were (21.05%), while total were (19.0%), regarding the 4-6 patients most of participant in workload Perception were (77.0%), followed by occupational Stress were (15.79%) while medical error attitude scale were (2.38%), while total were (21.0%), regarding the 7-10 patients most of participant in medical error attitude scale were (46.30%) followed by workload Perception were (32.43%) while occupational Stress were (22.22%), while total were (27.0%), regarding the 11-14 patients most of participant in workload Perception were (21.0%), regarding the 15-25 patients most of participant in medical error attitude scale were (26.19%), while total were (83.33%), followed by workload Perception were (10.0%) while occupational Stress were (83.33%), while total were (24.0%),

regarding Lack of Control over Personnel the most of participant Neutral were (27.0%), followed by Strongly agree were (25.0%), while Strongly disagree were (21.0%), while is a significant were p-value =0.001 and X² 18.400 while % were (60.2%), regarding the influence over Resources the most of participant Strongly agree were (48.0%), followed by Agree were (17.0%) while Neutral were (14.0%), while is a significant were p-value =0.001 and X² 101.400 while % were (76.6%), regarding Lack of participation in Committee Structures most of the participants Strongly agree were (38.0%) while Agree were (22.0%), followed by Neutral were (19.0%), while a significant were p-value =0.000 and X² 51.000 while % were (73.2%), regarding the Lack of access to Information the most of participant disagree were (43.0%), followed by agree were (27.0%) while Neutral were

(13.0%), while is a significant were p-value =0.000 and X^2 89.600 while % were (77.8%), regarding Lack of goal Setting and Conflict Resolution most of the participants disagree were (53.0%) while agree were (15.0%), followed by Neutral were (12.0%), while a significant were p-value =0.000 and X^2 138.000 while % were (78.4%)

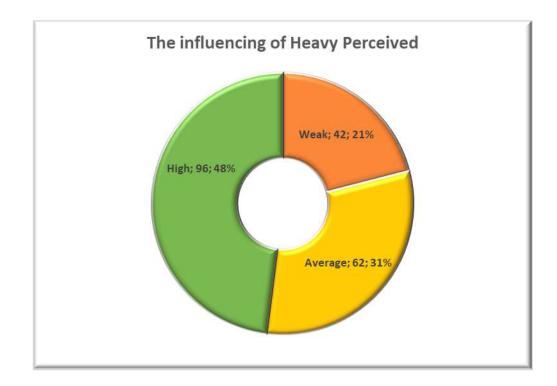
	The influencing of Heavy Perceived			
	Ν	%		
Weak	42	21		
Average	62	31		
High	96	48		
Total	200	100		
X ²	22.36			
P-value	<0.001*			

 Table 4 description of the relation of influencing of heavy of elements of Workloads

 on Patient and healthcare worker Outcomes .

Table 4 show description of the relation of influencing of heavy of elements of Workloads on Patient and healthcare workers Outcomes variables the most of participants high influencing of heavy of elements of workloads were (48.0%) followed by average were (31.0%) but weak were (21.0%) and total were (100.0%) while heave a significant relation were P-value <0.001 and X2 22.36.

Figure (1) description of the relation of influencing of heavy of elements of Workloads on Patient and healthcare worker Outcomes variables



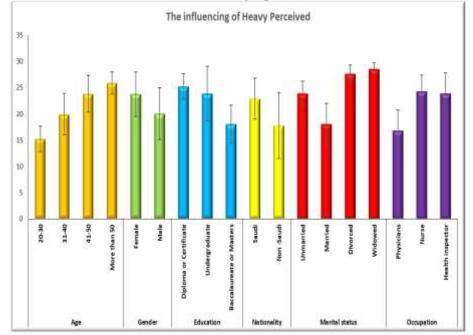
	orkers Outcomes a	The influencing of HeavyNPerceived				F or T	ANOVA or T- test	
			Mean	±	SD	1	Test value	P-value
	20-30	42	15.28 6	±	2.41 2			<0.001 *
	31-40	40	19.92 5	±	3.93 8		104.68	
Age	41-50	68	23.83 8	±	3.50 5	F	6	
	More than 50	50	25.86 0	±	2.13 8	-		
Gard	Female	94	23.75 5	±	4.21 6	T	5 7 4 2	<0.001 *
Gender	Male	106	20.00 0	±	4.94 2	Т	5.743	
	Diploma or Certificate	68	25.22 1	±	2.37 4	F	81.207	<0.001 *
Education	Undergraduat e	44	23.86 4	±	5.20 1			
	Baccalaureate or Masters	88	18.04 5	±	3.64 5			
	Saudi	156	22.88 5	±	3.88 2	Т	6.608	<0.001 *
Nationality	Non -Saudi	44	17.79 5	±	6.27 9			
	Unmarried	68	23.86 8	±	2.38 7	F 96.403		<0.001 *
Marital status	Married	96	18.03 1	±	3.98 8		96.403	
	Divorced	30	27.60 0	±	1.73 4			
	Widowed	6	28.50 0	±	1.22 5			
	Physicians	64	16.76 6	±	3.96 7	F	90.505	<0.001 *
Occupatio n	Nurse	90	24.23 3	±	3.16 2			
	Health inspector	46	23.89 1	±	3.89 4			

 Table 5 Distribution of influencing of heavy of elements of Workloads on Patient and healthcare workers Outcomes and demographic data .

Table (5) show that is a significant relation between influencing of heavy of elements of Workloads and age increase in more than 50 years were (Mean \pm SD 25.860 \pm 2.138), follow by 41- 50 age were (Mean \pm SD, 23.838 \pm 3.505) while 31-40 years were (Mean \pm SD 19.925 \pm 3.938), were P-value=0.001, F= 104.686. Regarding the gender is a significant relation between influencing of heavy of elements of Workloads and gender increase in female were (Mean \pm SD 23.755 \pm 4.216), follow male were (Mean \pm SD, 20.000 \pm 4.942) also P-value=0.001, T= 5.743. Regarding the education is a significant relation between

influencing of heavy of elements of Workloads and education increase in diploma or Certificate were (Mean \pm SD, 25.221 \pm 2.374) follow by undergraduate were (Mean \pm SD 23.864 \pm 5.201), also P-value=0.001, F= 81.207. Regarding the nationality a significant relation between influencing of heavy of elements of Workloads and nationality increase in Saudi were (Mean \pm SD 22.885 \pm 3.882), follow by Non -Saudi were (Mean \pm SD, 17.795 \pm 6.279) while P-value=0.001, T= 6.608. Regarding the marital status a significant relation between influencing of heavy of elements of Workloads and marital status increase in widowed were (Mean \pm SD 28.500 \pm 1.225), follow by Divorced were (Mean \pm SD, 27.600 \pm 1.734) but Unmarried were (Mean \pm SD 23.868 \pm 2.387) also P-value=0.001, F= 96.403. Regarding the occupation is a significant relation between influencing of heavy of elements of workloads and occupation increase in nurses were (Mean \pm SD 24.233 \pm 3.162), follow health inspector were (Mean \pm SD, 23.891 \pm 3.894) also P-value=0.001, F= 90.505.

Figure (1) Distribution of influencing of heavy of elements of Workloads on Patient and healthcare workers Outcomes and demographic data



Discussion

This study drew on cross-sectional study data from 200 care health care workers from Saudi Arabia from (Physicians, Nurse, Health inspector). [26]We considered some indicators of workload staffing levels, patient acuity and patient dependency, health care workers' perceptions of heavy workload, health care workers tasks left undone, compromised professional health care workers standards, and interruptions to workflow. [27].

Similar to other research reported that health care workers' perceptions of frequent, heavy workloads and interruptions to work flow showed strong associations with two patient outcomes, falls and UTIs, and a more modest association with the frequency of medication errors. This study's heavy workload measure includes items associated with health care workers perceptions of time pressure, or not enough time to get work done (e.g., arriving early/leaving late, missing breaks, too much work to do). In one simulated study of health care workers' decision-making performance, time pressure negatively influenced health care workers' capacity to detect the need for intervention, resulting in failure to rescue [22]. Of note is that under conditions without time pressure, health care workers with clinical expertise performed better than novice health care workers; the positive effects of clinical expertise, however, were negated when time pressure was introduced to clinical simulations [37]. (See Table1,2)

Workloads among health care workers are associated with high turnover rates and absenteeism due to sickness, relative ineffectiveness in the workplace, as well as low job satisfaction [28]. In view of this, it is important to identify organizational stressors that are related to job workloads in order to promote and facilitate strategies aimed at its prevention and reduction, the relationship between workload and exhaustion. This interaction is considered one of the most controversial aspects of Karasek and Theorell's [29] theory. However, previous studies have shown that workload contributes toward the prediction of health care workers exhaustion [30], thus indicating incompatibility with Karasek and Theorell's [29] interaction hypothesis. Recently, Portoghese [31] showed that, of the 90 studies in which this interaction was tested, only nine provided support for the hypothesized interaction. Building on this result, we found a positive association between workload and Patient and healthcare worker Outcomes, and this relationship was strongest when Patient and healthcare worker Outcomes was lower. In this sense, both workload and Patient and healthcare worker Outcomes play important roles in improving working conditions. In turn, improved working conditions are demonstrated by a low workload and exhaustion level, which can also be attributed to an increase in Patient and healthcare worker Outcomes. In this manner, workloads control seems to protect workers from exhaustion when workload increases. Our findings showed that a high workload does not pose major concerns when health care workers have sufficient workloads control.[31]

Conclusion .

Our study identifies influencing of heavy perceived health care workers workloads on Patient and healthcare worker Outcomes, could lead to a decrease the workloads and stress level among health care workers. Future research is recommended influencing of heavy perceived health care workers Workloads on Patient and healthcare worker Outcomes. This should be accompanied by studying the introduction of new policies and programs that could reduce the workloads and stress level among our health care staff, administrators should work collaboratively with health care professionals to identify work environment strategies that ameliorate workload demands at different levels .

References

- 1. Burton, J. (2010). World Health Organization healthy workplace framework and model: background and supporting literature and practices. World Health Organization.
- Schneider, J., Talamonti, D., Gibson, B., & Forshaw, M. (2022). Factors mediating the psychological well-being of healthcare workers responding to global pandemics: A systematic review. Journal of Health Psychology, 27(8), 1875-1896.
- 3. Rostami, F., Babaei-Pouya, A., Teimori-Boghsani, G., Jahangirimehr, A., Mehri, Z., & Feiz-Arefi, M. (2021). Mental workload and job satisfaction in healthcare workers: the moderating role of job control. Frontiers in public health, 9, 683388.
- 4. Webster, M. (2018). Leadership for wellbeing in the workplace. Research and study leave.
- 5. Kortum, E. (2016). The WHO global approach to protecting and promoting health at work. In Creating healthy workplaces (pp. 23-35). Routledge.
- 6. Kinman, G., & Wray, S. (2022). 'Better than watching daytime TV': sickness presenteeism in UK academics. Studies in Higher Education, 47(8), 1724-1735.
- Diehl, E., Rieger, S., Letzel, S., Schablon, A., Nienhaus, A., Escobar Pinzon, L. C., & Dietz, P. (2021). Burdens, resources, health and wellbeing of nurses working in general and specialised palliative care in Germany–results of a nationwide cross-sectional survey study. BMC nursing, 20(1), 1-16.
- Keller, R. A., Mehran, N., Marshall, N. E., Okoroha, K. R., Khalil, L., Tibone, J. E., & Moutzouros, V. (2017). Major League pitching workload after primary ulnar collateral ligament reconstruction and risk for revision surgery. Journal of Shoulder and Elbow Surgery, 26(2), 288-294.
- 9. Leiter, M. P., & Maslach, C. (2003). Areas of worklife: A structured approach to organizational predictors of job burnout. In Emotional and physiological processes and positive intervention strategies (pp. 91-134). Emerald Group Publishing Limited.

- Sundin, L., Hochwälder, J., Bildt, C., & Lisspers, J. (2007). The relationship between different work-related sources of social support and burnout among registered and assistant nurses in Sweden: a questionnaire survey. International Journal of Nursing Studies, 44(5), 758-769.
- Pastores, S. M., Kvetan, V., Coopersmith, C. M., Farmer, J. C., Sessler, C., Christman, J. W., ... & Price, K. (2019). Workforce, workload, and burnout among intensivists and advanced practice providers: a narrative review. Critical care medicine, 47(4), 550-557.
- 12. Picó-Sirvent, I., Aracil-Marco, A., Pastor, D., & Moya-Ramón, M. (2019). Effects of a combined high-intensity interval training and resistance training program in patients awaiting bariatric surgery: a pilot study. Sports, 7(3), 72.
- Koontalay, A., Suksatan, W., Prabsangob, K., & Sadang, J. M. (2021). Healthcare workers' burdens during the COVID-19 pandemic: A qualitative systematic review. Journal of Multidisciplinary Healthcare, 3015-3025.
- 14. World Health Organization. (2021). WHO/ILO joint estimates of the work-related burden of disease and injury, 2000–2016: global monitoring report.
- 15. Sirois, F. M., & Owens, J. (2021). Factors associated with psychological distress in health-care workers during an infectious disease outbreak: a rapid systematic review of the evidence. Frontiers in psychiatry, 11, 589545.
- Ball, J. E., Murrells, T., Rafferty, A. M., Morrow, E., & Griffiths, P. (2014). 'Care left undone'during nursing shifts: associations with workload and perceived quality of care. BMJ quality & safety, 23(2), 116-125
- Sermeus, W., Aiken, L. H., Van den Heede, K., Rafferty, A. M., Griffiths, P., Moreno-Casbas, M. T., ... & Zikos, D. (2011). Nurse forecasting in Europe (RN4CAST): Rationale, design and methodology. BMC nursing, 10(1), 1-9.
- Holden, R. J., Scanlon, M. C., Patel, N. R., Kaushal, R., Escoto, K. H., Brown, R. L., ... & Karsh, B. T. (2011). A human factors framework and study of the effect of nursing workload on patient safety and employee quality of working life. BMJ quality & safety, 20(1), 15-24.
- Zwakhalen, S. M., Hamers, J. P., Metzelthin, S. F., Ettema, R., Heinen, M., de Man-Van Ginkel, J. M., ... & Schuurmans, M. J. (2018). Basic nursing care: The most provided, the least evidence based–A discussion paper. Journal of clinical nursing, 27(11-12), 2496-2505.
- World Health Organization. (2020). Monitoring health and health system performance in the Eastern Mediterranean Region: core indicators and indicators on the health-related Sustainable Development Goals 2019 (No. WHO-EM/HST/245/E). World Health Organization. Regional Office for the Eastern Mediterranean
- Moss, M., Good, V. S., Gozal, D., Kleinpell, R., & Sessler, C. N. (2016). An official critical care societies collaborative statement: burnout syndrome in critical care health care professionals: a call for action. American Journal of Critical Care, 25(4), 368-376.
- King, R., Taylor, B., Talpur, A., Jackson, C., Manley, K., Ashby, N., ... & Robertson, S. (2021). Factors that optimise the impact of continuing professional development in nursing: A rapid evidence review. Nurse education today, 98, 104652.
- Babelghaith, S. D., Wajid, S., Alrabiah, Z., Othiq, M. A. M., Alghadeer, S., Alhossan, A., ... & Attafi, I. M. (2020). Drug-related problems and pharmacist intervention at a general hospital in the Jazan Region, Saudi Arabia. Risk Management and Healthcare Policy, 13, 373.
- Kisely, S., Warren, N., McMahon, L., Dalais, C., Henry, I., & Siskind, D. (2020). Occurrence, prevention, and management of the psychological effects of emerging virus outbreaks on healthcare workers: rapid review and meta-analysis. bmj, 369.
- 25. World Health Organization. (2018). WHO global report on trends in prevalence of tobacco smoking 2000-2025. World Health Organization
- Alhurishi, S. A., Almutairi, K. M., Vinluan, J. M., Aboshaiqah, A. E., & Marie, M. A. (2021). Mental health outcomes of healthcare providers during COVID-19 pandemic in Saudi Arabia: a cross-sectional study. Frontiers in Public Health, 9, 625523.
- McCauley, L., Kirwan, M., & Matthews, A. (2021). The factors contributing to missed care and non-compliance in infection prevention and control practices of nurses: a scoping review. International Journal of Nursing Studies Advances, 3, 100039.
- Mambrey, V., Vu-Eickmann, P., Angerer, P., & Loerbroks, A. (2021). Associations between Psychosocial Working Conditions and Quality of Care (ie, Slips and Lapses, and Perceived Social Interactions with Patients)—A Cross-Sectional Study among Medical Assistants. International Journal of Environmental Research and Public Health, 18(18), 9693.
- 29. Maphangela, T. (2015). Factors associated with occupational stress among nurses working in clinics in Gabarone, Botswana (Doctoral dissertation, University of Limpopo).

- Gregory, M. E., Russo, E., & Singh, H. (2017). Electronic health record alert-related workload as a predictor of burnout in primary care providers. Applied clinical informatics, 8(03), 686-697.
- 31. Portoghese, I., Galletta, M., Coppola, R. C., Finco, G., & Campagna, M. (2014). Burnout and workload among health care workers: the moderating role of job control. Safety and health at work, 5(3), 152-157.