ORIGINAL RESEARCH

Factors affecting nurses' work motivation level at a governmental hospital: A cross-sectional study

Reem A. Baljoon^{*1,2}, Hasnah Banjar³, Maram Banakhar³

¹King Faisal Special Hospital & Research Centre, Jeddah, Saudi Arabia
²Science of Nursing Administration, King Abdulaziz University, Saudi Arabia
³Nursing Administration, Faculty of Nursing, King Abdulaziz University, Saudi Arabia

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ABSTRACT

Background and aim: Nurses are working in different healthcare organizations; each healthcare organization has different organizational resources. Therefore, factors affecting nurses' work motivation are varied among nurses. This study aimed to identify factors affecting nurses' work motivation levels at a governmental hospital in Saudi Arabia.

Methods: A cross-sectional design was conducted by recruiting registered nurses (n = 280) who worked for at least one year of experience. The survey was distributed among registered nurses working in one governmental hospital in the Kingdom of Saudi Arabia to assess nurses' work motivation level and to identify the affecting factors.

Results: This study showed that nurses' work motivation level is affected by several personal and organizational factors. A positive relationship was found between higher order need strength and shared values and nurses' work motivation (intrinsic and extrinsic). This study revealed that there is a positive relationship between pay, promotion, supervision, fringe benefits, contingent rewards, co-workers, nature of work, communication and working conditions and nurses' work motivation level.

Conclusions: There is a need to enhance and promote the motivational strategies within the current study setting by providing satisfactory remuneration, equitable benefits increase the chances of promotion and encourage supportive supervision. Additionally, there is a need to create healthy workplace environment that support co-workers relationship.

Key Words: Nurses' motivation, Work motivation level, Personal factors, Organisational factors

1. INTRODUCTION

Motivation is known as a drive that makes an individual to seek out or achieve satisfaction of a need.^[1] Moreover, motivation was defined as determining the needs of the employee, implementing proper strategies and as the force that energizes, guides, and maintains human behaviour.^[2] In the work context, motivation can be defined as "an individual's degree of willingness to exert and maintain an effort towards organizational goals".^[3] Motivation is categorized into in-

trinsic motivation (IM) and extrinsic motivation (EM).^[1] The main difference between these two types is that the motivational state where IM is internally derived "derives from within the individual, inspiring him or her to be productive", while EM is externally derived "enhanced by the job environment or external rewards" to meet personal or organizational goals.^[1,4]

Nurses' work motivation level is affected by several factors. These factors can be personal such as individual priorities

^{*}Correspondence: Reem A. Baljoon; Email: remacute@hotmail.com; Address: King Faisal Special Hospital & Research Centre, Jeddah 21499, Saudi Arabia.

which involved shared values with hospital and attainment of higher order needs that increase nurses' work motivation level.^[5] Although the orientation of nurses' motivation at work depends on their individual priorities, the strength and sustainability of both IM and EM depends on the shared values.^[6–8]

Generally, nurses are more likely to be autonomously motivated, if their work allow them to accomplish satisfaction in their needs for competence (i.e. productivity, knowledge and skill use), autonomy (i.e. decision authority), and relatedness (i.e. belonging to a team, good relationships with others, respect and the trust of co-workers). Most motivations reported among nurses were satisfied derived from a sense of accomplishment followed by the desired to learn new things. It was found that nurses working in general care wards or in the middle of their career with the dominant personal value "Benevolence" and high experience rate, reported to be highly motivated in contrast to those with the dominant value "Hedonism", who used computers infrequently or with low to medium experience rate.^[9] Similarly, nurses with higher score of competence and humanity reported higher level of work motivation.^[5, 10, 11] Likewise, nurses who reported a higher level of shared values in their hospital and nurses who conveyed a higher level of identification with the long-termcare setting had higher levels of work motivation.^[5, 12]

Furthermore, work motivation is affected by internal psychological states which built on the person priority of values and needs drives from personal factors.^[5,13,14] However, three critical internal psychological states were found in the literature for IM incorporate experienced responsibility for work results, a knowledge of the actual results of the activities and experienced meaningfulness of the job.^[15] Job meaningfulness was one of the most important motivating factors among health service providers.^[16] Moreover, a positive relationship between job meaningfulness and work motivation level was found in several studies.^[5,17,18]

In contrast to personal factors, nurses' work motivation is also affected by several organisational factors. Work engagement is positively associated with intrinsic work motivation and with extrinsic work motivation.^[19] While in a further study, nurses confirmed that positive environment and supportive supervision and management motivated them to stay at their hospital.^[20,21] Additionally, interpersonal relationships, social respect, communication, effective teamwork and feedback could promote motivation in several studies.^[11,20,22–24]

In a more recent study, it was reported that having a clear job description, clearness in responsibilities and tasks were important motivating factors in both management and performance aspect.^[16,25] Furthermore, career development and learning opportunity, chance for continuing professional development and growth had the highest ability to inspire nurses in their profession.^[20,23,26–28] Moreover, appreciation and recognition from community as well as the recognition and appreciation of a good job carried out by nurses could be the main motivation factor.^[22,29] In addition, financial incentives were most important motivating factor that advance nurses' performance.^[25,28,30]

Health care system in Saudi Arabia (SA) faces many challenges that may alter or compromise the quality of patient care such as shortage in nursing staff, high turnover, severe stress and burnout.^[31] Moreover, in the context of SA, nurses are working in different healthcare organizations, each healthcare organization has different organizational resources and working conditions and therefore the motivation level and factors affecting nurses' work motivation are varied among nurses in different healthcare organizations. Importantly, the government of SA has a new direction of providing a cost-effective healthcare services in 2030. Therefore, due to the vision of 2030 and the current economic changes that noticed within the kingdom of SA in 2017, this resulted in several limitations and changes within the hospitals' human resources and hospitals' budgets. Thus, nursing mangers are limited in delivering extra financial incentives that could motivate nurses to perform better.^[17] Furthermore, nurses' work motivation level is varied not only according to the working context of the healthcare organization; however, it is varied in the time of change. Thus, in this period of significantly financial restraint and global shortages of nurses, it is vital for health care managers and administrators to be aware of the factors that affect work motivation.^[32] Therefore, this study aimed to identify factors affecting nurses' work motivation levels at a governmental hospital in Saudi Arabia.

2. MATERIALS AND METHODS

2.1 Study design

A descriptive cross-sectional study design was conducted to identify the factors affecting nurses' work motivation level in a governmental hospital.

2.2 Participants

Quota sampling technique was used to recruit all registered nurses (RNs) who are working in the hospital with at least one year of experience. In each unit, the researcher met the department's manager and introduced the aim of the study, questionnaire and inclusion criteria. The list of names for nurses who worked for one year and more in all the units were provided to the researcher by the manager of each unit. Nurses in each unit were selected based on their schedule which include their names. Then the researcher handed questionnaires in closed envelop to nurses after coordinating with the department managers. All questionnaires were collected in closed envelops in the following day. The sample consisted of 280 registered nurses, 252 included staff nurses while 28 were nurses holding managerial positions of grade 9 and above.

2.3 Setting

The study was conducted in a non-profit healthcare organisation that is well known as a reputable and accredited health care organisation in Jeddah city at SA. This hospital is providing a tertiary care by serving local community with 500-beds capacity for many years and has grown to become one of the leading healthcare organisation in the Middle East. This hospital has some unique characteristics such as high bed capacity, different culture, staffing and specialties. Importantly, due to the limited financial budget in 2017, many nurses resigned from this hospital leading to high turnover rate. In this study setting, the data were collected in July 2017.

2.4 Instrument

The questionnaire used in this study composed of four sections: Section 1 included the sociodemographic information, which was developed by the researcher; Section 2: This is pertaining toward assessing the nurses' work motivation level by using The Motivation at Work Scale (MAWS).^[33] MAWS was validated in many languages and consist of 12 statements measuring four variables which are: Intrinsic motivation, Identified regulation of extrinsic motivation, Introjected regulation of extrinsic motivation and External regulation of extrinsic motivation. MAWS used a seven-point likert scale, ranging from 1 "Not at all for this reason" to 7 "Exactly for this reason". The items scored on likert scale, with scores ranging from very low (1) to very high (7). Based on the range of possible mean scores distribution of scores from the instrument was as follows: Low motivation level (1-3.58). Moderate motivation level (3.59-4.43), High motivation level (4.44-7); Section 3: This section is aimed to assess nurses' personal factors which consists of two different parts. First part is Higher Order Need Strength Scale.^[34] This scale measuring nurses' higher order need strength such as a stronger need for achievement and self-actualization. This tool consists of 6 statements, accompanied a seven-point likert scale ranging from 1 "not at all important" to 7 "extremely important". Second part is Shared Values Scale^[35] which consists of 5 statements. This is Likert scale ranging from 1 "disagree strongly" to 7 "agree strongly". This scale is measuring the degree to which nurses sharing the same values with the

organization; Section 4 aimed to assess organizational factors affecting nurses' work motivation level which consists of two different parts. First part is Job Satisfaction Survey (JSS)^[36] to measure motivational factors "organizational factors". JSS consists of 36 statements with 9 facets (each facet with 4 items) are Pay, Promotion Supervision, Fringe Benefits, Contingent Rewards, Operating Procedures, Coworkers, Nature of Work, and Communication. A summated rating scale format is used, with six choices per item ranging from 1 "disagree very much" to 6 "agree very much". Second part is measuring working condition.^[35] It consists of four questions, which are working overtime hours and working for other people are (multiple choice questions), working schedule (forced choice), and opportunities for flexible work time (multiple choices).

The content validity of the tool was confirmed by a jury opinion that was taken by 5 experts from the faculty members at one university in Jeddah city and the fields of leadership and management in the current hospital. Written permission was taken from the original authors to use the questionnaires. Internal consistency of the scales was assessed by Cronbach's Alpha coefficient and found to be adequate: 0.882 for Motivation at Work Scale (MAWS), 0.868 for Higher Order Need Strength Scale, 0.873 for Shared Values Scale, 0.841 for JSS and 0.908 for the whole scale.

Ethical approval was obtained from the Ethics committee from the study setting. The study has no harm on the study sample. The study sample were permitted to withdraw from the study at any time. In addition, a cover page was created and attached to the questionnaire which incorporates an introduction about the purpose of the study, how and why the study sample were involved in the study, how long the questionnaire would take to be completed and the intended use of the results. Additionally, study sample were assured about information confidentiality.

2.5 Data analysis

A descriptive analysis was used to analyze the data of this study using SPSS (Statistical Package for the Social Sciences program) software version 20. Descriptive statistics were used for all data including frequency distributions and cross-tabulations. Spearman's rank correlation calculated for testing the relationships between continuous variables.

3. RESULTS

3.1 Sociodemographic characteristics of nurses

The results of sociodemographic characteristics of nurses is presented in Table 1.

Sociodemographic	Classes of Variables	n = 280	
Sociodemographic	Classes of variables	Ν	%
	Less than 25 years	4	1.4
A	26-< 35 years	128	45.7
Age	35-< 45 years	84	30.0
	45 and above	64	22.9
Gender	Male	15	5.4
Gender	Female	265	94.6
	Single	93	33.2
Marital status	Married	181	64.7
Marital status	Divorced	4	1.4
	Widow	2	0.7
NI-4:	Saudi	47	16.8
Nationality	Non-Saudi	233	83.2
	Diploma	82	29.3
	Baccalaureate	170	60.6
Educational level	Masters	17	6.1
	PHD, DNP or other terminal degree	1	0.4
	Others	10	3.6
	Less than 5	11	3.9
V	(5-<10)	78	27.9
Years of experience	(10-<20)	116	41.4
	20 and more	75	26.8
	Less than 1 year	5	1.8
	1-5 years	114	40.7
Working period at (KECU & DC I)	6-10 years	73	26.1
Working period at (KFSH& RC, J)	11-15 years	61	21.8
	16-20 years	25	8.9
	21 years or more	2	0.7
Desition title on grade	Staff Nurse	252	90.0
Position title or grade	Grade 9 and above	28	10.0

Table 1. Frequency distribution of the registered nurses regarding sociodemographic variables (n = 280)

A total of 280 registered nurses completed the questionnaires. Less than half of nurses were between 26 -< 35 years of age (n = 128, 45.7). In regard to the nationality, non-Saudi nurses were more than three quarters (83.2%). The education level of the respondents showed that almost two thirds (60.6%) had baccalaureate degree. More than two thirds (68.2%) of the respondents had 10 and above years of experience. The results revealed that less than half (42.5%) of nurses had 1-5 years of employment at the current hospital. Furthermore,

nurses who participated in this study were represented from different units: critical care units 25.4%, general units 55.4%, units under ambulatory services 16.9% and other units 2.3%. The majority of the sample (90%) were staff nurses from grade 8 while 10% of nurses were nurses mangers from grade 9 and above.

3.2 Work motivation level

The results of work motivation level is presented in Table 2.

Table 2. Nurses work motivation (n = 280)

Motivation		Items	Weighted Mean	SD	Motivation level
Total of Intrinsic	Total of Intrinsic work motivation		4.64	1.10	High
Total of Extrinsic	work motivation	9	4.54	0.94	High
Subcategories of	Identified regulation of extrinsic work motivation	3	5.00	1.12	High
Extrinsic work	Introjected regulation of extrinsic work motivation	3	4.51	1.34	High
motivation	External regulation of extrinsic work motivation	3	4.10	1.06	Moderate

The total weighted mean for extrinsic work motivation (4.54 \pm 0.94) was lower than intrinsic work motivation (4.64 \pm 1.10). Nurses' work motivation level was moderate in external regulation of extrinsic work motivation (4.10 \pm 1.06) but high in both intrinsic work motivation (4.64 \pm 1.10) and in two subcategories of extrinsic work motivation namely

identified regulation (5 \pm 1.12) and introjected regulation (4.51 \pm 1.34).

3.3 Personal factors

3.3.1 Higher order need strength

The results of work motivation level is presented in Table 3.

Table 3. The weighted m	eans, standard deviations ar	d overall nurses	responses of high	her order need strength

Items of Higher Order Need Strength	Weighted Mean	SD	Overall Response
Using your skills to the maximum.	6.24	1.11	Extremely important
Achieving something that you personally value.	6.11	1.03	Fairly important
The opportunity to make your own decisions.	5.95	1.06	Fairly important
The opportunity to learn new things.	6.25	1.01	Extremely important
Challenging work.	6.08	1.01	Fairly important
Extending your range of abilities.	6.09	1.05	Fairly important
Total	5.67	0.74	Fairly important

The total weighted mean of higher order need strength (5.67 \pm 0.74) which indicated as "fairly important" need to the nurses. Moreover, the highest weighted mean reported by nurses was 6.25 \pm 1.01 for "the opportunity to learn new things" followed by 6.24 \pm 1.11 to the statement "using skills to the maximum" which both indicated as "extremely

important" needs to nurses. However, the lowest weighted mean was 5.95 ± 1.06 for "the opportunity to make your own decisions" which indicated "fairly important" need.

3.3.2 Shared values

The results of shared values is presented in Table 4.

Table 4. The weighted means, standard deviations and overall nurses' responses of shared values

Items of shared values	Weighted mean	SD	Overall response
I share the values and believes of this hospital.	5.56	1.29	Agree moderately
Managers here are understanding about employees having to meet family responsibilities.	5.33	1.49	Agree moderately
People working here are encouraged to develop themselves.	5.39	1.39	Agree moderately
I am proud to tell people what specialty or profession I'm working in.	5.99	1.26	Agree moderately
I am proud to tell people what institution I'm working at.	6.09	1.18	Agree moderately
Total	5.67	1.08	Agree moderately

The total weighted mean of nurses' shared value (5.67 ± 1.08) . Nurses "agreed moderately" to the statement "I am proud to tell people what institution I'm working at" with highest weighed mean (6.09 ± 1.18) . Whereas, the lowest weighted mean (5.33 ± 1.49) was reported by nurses who "agreed moderately" to the statement "Managers here are understanding about employees having to meet family responsibilities".

3.4 Organizational factors

3.4.1 Sub-factors of job satisfaction survey (JSS)

The results of organizational factors is presented in Table 5.

Nurses 'agreed moderately' that supervision and nature of

work can motivate them to work with the total weighted mean (4.78 ± 0.94) ; (4.53 ± 0.85) respectively. Whereas nurses 'agreed slightly' that communication and contingent rewards can motivate them to work with the total weighted mean (4.28 ± 0.91) , (3.52 ± 0.95) . However, nurses 'disagreed slightly' that the pay and promotion can motivate them to work with a total weighted mean of (3.14 ± 0.97) , (3.38 ± 0.86) respectively. Moreover, nurses 'disagreed slightly' that toperating conditions and fringe benefits can motivate nurses to work with the total weighted mean (2.99 ± 0.70) , (2.89 ± 0.91) .

3.4.2 Working conditions

The results of working conditions is illustrated in Table 6.

Table 5. The weighted means, standard deviations and overall responses of nurses in JSS (n = 280)
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	Items	Mean	SD	Overall response
	1- I feel I am being paid a fair amount for the work I do.	3.26	1.61	Disagree slightly
	10- Raises are too few and far between.	2.86	1.26	Disagree slightly
Pay	19- I feel unappreciated by the organization when I think about what they pay me.	3.36	1.47	Disagree slightly
	28- I feel satisfied with my chances for salary increases.	3.08	1.75	Disagree slightly
	Total	3.14	0.97	Disagree slightly
	2- There is really too little chance for promotion on my job.	3.04	1.47	Disagree slightly
	11- Those who do well on the job stand a fair chance of being promoted.	3.74	1.41	Agree slightly
Promotion	20- People get ahead as fast here as they do in other places.	3.41	1.25	Disagree slightly
	33- I am satisfied with my chances for promotion.	3.34	1.44	Disagree slightly
	Total	3.38	0.86	Disagree slightly
	3- My supervisor is quite competent in doing his/her job.	4.78	1.20	Agree moderately
	12- My supervisor is unfair to me.	4.99	1.29	Agree moderately
Supervision	21- My supervisor shows too little interest in the feelings of subordinates.	4.48	1.41	Agree moderately
	30- I like my supervisor.	4.88	1.15	Agree moderately
	Total	4.78	0.94	Agree moderately
	4- I am not satisfied with the benefits I receive.	3.08	1.54	Disagree slightly
Putur -	13- The benefits we receive are as good as most other organizations offer.	2.91	1.43	Disagree slightly
Fringe Benefits	22- The benefit package we have is equitable.	3.18	1.34	Disagree slightly
Denerits	29- There are benefits we do not have which we should have.	2.38	1.55	Disagree moderate
	Total	2.89	0.91	Disagree slightly
	5- When I do a good job, I receive the recognition for it that I should receive.	3.90	1.48	Agree slightly
Contingent	14- I do not feel that the work I do is appreciated.	3.79	1.47	Agree slightly
Contingent rewards	23- There are few rewards for those who work here.	3.19	1.26	Disagree slightly
ie wards	32- I don't feel my efforts are rewarded the way they should be.	3.21	1.40	Disagree slightly
	Total	3.52	0.95	Agree slightly
	6- Many of our rules and procedures make doing a good job difficult.	3.03	1.24	Disagree slightly
Omenatina	15- My efforts to do a good job are seldom blocked by red tape.	3.16	1.35	Disagree slightly
Operating conditions	24- I have too much to do at work.	2.87	1.32	Disagree slightly
conditions	31- I have too much paperwork and documentation.	2.90	1.54	Disagree slightly
	Total	2.99	0.70	Disagree slightly
	7- I like the people I work with.	4.85	1.04	Agree moderately
	16- I find I have to work harder at my job because of the incompetence of people I work with.	4.13	1.42	Agree slightly
Coworkers	25- I enjoy my coworkers.	4.67	1.15	Agree moderately
	34- There is too much fighting at work.	4.11	1.52	Agree slightly
	Total	4.44	0.94	Agree moderately
	8- I sometimes feel my job is meaningless.	4.26	1.48	Agree slightly
Nature of work	17- I like doing the things I do at work.	4.71	1.09	Agree moderately
	27- I feel a sense of pride in doing my job.	4.74	1.06	Agree moderately
	35- My job is enjoyable.	4.40	1.22	Agree moderately
	Total	4.53	0.85	Agree moderately
	9- Communications seem good within this organization.	4.26	1.18	Agree slightly
Comm	18- The goals of this organization are not clear to me.	4.79	1.31	Agree moderately
Communi- cation	26- I often feel that I do not know what is going on with the organization.	3.78	1.37	Agree slightly
cation	36- Work assignments are not fully explained.	4.27	1.51	Agree slightly
	Total	4.28	0.91	Agree slightly

Half of nurses (52.5%) had overtime in their hospital. In ing participants' schedule, two third of nurses (61.1%) were terms of working for others, half of nurses (55.7%) were seldom working for their colleagues who are ill or absent (28.9%) had fixed schedule (day work with regular working

The results of working conditions is illustrated in Table 6. for other reasons in addition to their own work. Regardrotating between day and night shifts and almost one third hours). In addition, the most three opportunities needed by nurses were "flexible working hour", followed by "change shift with other", and "plan your working schedule by your own" respectively 46.4%, 28.9% and 28.6%.

3.5 Correlations between nurses' work motivation and (personal & organizational) factors

Correlations between nurses' work motivation and personal and organizational factors is found in Table 7.

Washing and life a factor of	Classes of Variables		n = 280	
Working conditions instrument	Classes of variables	f	%	
Do you work overtime in your	Yes	147	52.5	
hospital?	No	133	47.5	
How often do you have to do the	Never	31	11.1	
work of colleagues who are ill or	Seldom	156	55.7	
absent for other reasons in	Quite often	64	22.9	
addition to your own regular	Very often	18	6.4	
work?	Does not apply	11	3.9	
	Day work with regular working hours (fixed schedule)	81	28.9	
	Shift work without nights	20	7.1	
What kind of working schedule do you have in your current position?	Rotating day and nights shifts	171	61.1	
you have in your current position?	Only night shifts	4	1.4	
	Other	4	1.4	
	1- Flexible working hour	130	46.4	
	2- Nursery at work-place or the compensation of it	50	17.9	
	3- Share the workload or shift to some-one else	58	20.7	
Needing any of these	4- Work at or from home in normal working hours	27	9.6	
opportunities	5- Change your shift with someone else	81	28.9	
	6- Plan your working schedule on your own (pick suitable date, time etc.)	80	28.6	
	7- Parental leave	66	23.6	
	8- None of these	68	24.3	

4. DISCUSSION

4.1 Personal factors affecting nurses' work motivation The current study demonstrated that the attainment of higher order needs was positively correlated with IM and all types of EM. This result is in line with a study which suggested that attainment of higher order needs increased both IM and EM level of hospital nurses.^[5] This can be explained by the notion that nurses at the current hospital had the need for achievement, growth and self-actualization (higher order needs), while the stronger need was for material and social benefits (lower order need).

In the context of higher order needs, nurses in the current study highlighted that opportunity to learn new things and the maximum use of skills were the highest needs. This result is in agreement with another study suggested that most motivations common among nurses were satisfied derived from a sense of accomplishment followed by the desired to learn new things.^[9] Nursing and technology advances move fast. Thus, new nurses require advanced knowledge and

experience at work to be more familiar with new technology.

The results of the present study revealed that shared values were positively correlated with nurses' work motivation (with both IM and EM). This result is supported in the literature which indicated that shared values is positively associated with IM and with two types of EM namely identified regulation and external regulation.^[35,37] Nurses at the current hospital had more shared values with their organization and therefore were more autonomously and intrinsically motivated. A possible explanation for this is that if the nurses' values of and their organization are compatible the values will be internalized. Consequently, nurses will have more self-direction and their work become more meaningful and personally important.

4.2 Organisational factors and extrinsic work motivation

This study found that there is a positive relationship between promotion and EM (identified regulation and external regulation). This outcome is corresponding to previous studies that found the promotion as a predictors of health worker motivation.^[27,37–39] The positive relationship between promotion and EM can be explained by the fact that giving the opportunity for promotion within the hospital will allow the nurse to achieve life's goal through the work involvement and organizational commitment. Additionally, opportunities

for promotion can give the nurse a sense of value leading to increase the motivation level. Furthermore, new or high responsibilities with the new promoted job can fulfils nurses' career plan. In addition to this, when the nurse is promoted within the hospital this lead to an increase within the salary and therefore nurses can be motivated by having an allowance and have a good standard of living.

Table 7. The correlations between work motivation an	l personal and organizational factors ($n = 280$)
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Work Motivation Factors	The test	Intrinsic work motivation	Identified regulation	Introjected regulation	External regulation
Personal factors					
Higher order need strength	Spearman	0.310**	0.294**	0.287**	0.373**
Higher order need strength	(p-value)	.000	.000	.000	.000
Shared values	Spearman	0.425**	0.404**	0.395**	0.253**
Shared values	(p-value)	.000	.000	.000	.000
Organizational factors					
Devi	Spearman	0.218**	0.170**	0.183**	0.192**
Pay	(<i>p</i> -value)	.000	.004	.002	.001
Dream a ti a n	Spearman	0.086	0.132*	0.110	0.137*
Promotion	(p-value)	.149	.028	.066	.022
Sum and it is a	Spearman	0.197**	0.207**	0.192**	0.055
Supervision	(<i>p</i> -value)	.001	.001	.001	.359
Eringa Danafita	Spearman	0.143*	0.124*	0.100	0.048
Fringe Benefits	(<i>p</i> -value)	.017	.038	.097	.425
Continuent annuals	Spearman	0.221**	0.219**	0.207**	0.105
Contingent rewards	(p-value)	.000	.000	.000	.078
One set in a set dition of	Spearman	0.070	0.010	0.089	0.002
Operating conditions	(p-value)	.241	.871	.138	.974
Consideration	Spearman	0.205**	0.225**	0.171**	0.042
Coworkers	(<i>p</i> -value)	.001	.000	.004	.481
Nature of work	Spearman	0.538**	0.400**	0.333**	0.098
INALUTE OF WORK	(p-value)	.000	.000	.000	.103
Communication	Spearman	0.174**	0.205**	0.193**	0.070
Communication	(<i>p</i> -value)	.003	.001	.001	.246

p* < .05; *p* < .01

4.3 Organisational factors and intrinsic and extrinsic work motivation

This study demonstrated that there is a positive relationship between pay and IM and all types of EM. This finding is compatible to previous studies suggested that salary increase is important motivating factor could promote nurses' work motivation level.^[20, 22, 24, 28, 30, 40–42] This can be explained by the fact that income and financial allowance is important motivators which able to fulfil various individual needs. Moreover, receiving a good salary for all nurses can result in feeling of enjoyment and pleasure in doing the work. Regarding the supervision in this hospital, this study demonstrated that there was a positive relationship between supervision and IM and EM. This outcome is corresponding to previous study which found that supervision is associated with healthcare workers' motivation.^[43,44] Similarly, supervisors' support was found to be important motivating factors in several studies.^[11,16,20] Supportive supervision can create a healthy work environment as nurses can feel the sense of pleasure and fun in their job as well as assist them to meet their personal values.

Considering the contingent rewards, this study demonstrated

that there is a positive relationship between contingent rewards (as recognition, appreciation and rewards) and IM and EM. Comparing the current result, it was suggested that rewards and nurses' work motivation are directly and positively associated.^[46] This finding is consistent with several studies found contingent rewards as motivating factors which can increase nurses' work motivation level.^[20, 26, 28, 42] The fact that being recognized and appreciated is a validation of the nurse competence and therefore this can motivate nurses to work.

Regarding the co-workers, this study revealed a positive relationship between co-workers and IM and EM. This finding is compatible with several studies which found that nurses can be motivated with their co-workers as effective team work is considered as important motivating factors in the healthcare organization.^[11,22,47] In addition, functional teamwork increased intrinsic work motivation only.^[35] Good relationship between coworkers enhance work to be more fun and fit nurses' values. Moreover, high competition between nurses can motivate them to work hard to avoid failure and blame and increase their chance to success.

With regards to communication, the current study revealed a positive relationship between communication and IM and EM. This finding is consistent with previous studies suggested that supportive relationship in the workplace (between team members) that valued effective communication and feedback was found to be linked with an increase of nurses' work motivation.^[17, 19, 22, 45] Similarly, effective communication in the organization increased the health workers motivation.^[38] Therefore, effective communication between team members make the job enjoyable and fun as well as allow nurses to reach their goals and be a winner which will increase work motivation level. Additionally, the results that communication associated with introjected regulation indicates a certain external pressure as there are many nurses who communicate well not because they have an inner interest, but rather because they are afraid from failure and losing the respect of individuals who have placed a lot of expectations on them.

The current study was conducted in one governmental hospital in SA, and therefore it is difficult to generalize the results of the current study as SA is characterized by having different healthcare systems and therefore different work contexts. In addition, finding and selecting appropriate instrument for measuring all the organizational factors that are related to nurses' work motivation was very challenging in designing this study due to the in-depth search in the database and consultations with several academic staff in this domain. This was resulted in using two previously used scales were JSS^[36] and working condition scale.^[35] Unlike other tools about work in general, these were considered to describe uniquely nurses' common working conditions and work-place features in the actual context of their professional work.

5. CONCLUSION

This study found that pay is an important factor affecting all types of nurses' work motivation. Furthermore, among all the correlations between work motivation and organizational factors, the highest correlation was found between nature of work and each of intrinsic work motivation followed by identified regulation then introjected regulation of extrinsic work motivation. However, no correlation was found between operating conditions (including rules and procedure and work overload) and all types of work motivation. The results of this study are difficult to be generalized as this study was conducted in one governmental hospital in SA.

There is a need for enhancing motivation strategies by providing satisfactory remuneration for nurses as insufficient amount of payment and allowances would lead to low level of work motivation. Increase the chances of promotion for nurses in the current hospital by increasing the number of the new positions as required such as having nurse educators' positions within the units that need this service. Encourage supportive supervision by paying more consideration and interest to the feeling of staff as well as to be fair in treating all the staff in a similar way within the organization to promote positive managerial practices and create motivation strategies that focus on justice, positive environment to increase motivation level among nurses. Increase the chance for the nurses to have flexible working hours, such as part time opportunity to nurses which assist them to achieve better work life balance and increase work motivation level. Providing flexible policy that allow nurses to change shift with other when possible and allow them to plan their working schedule by their own such as pick the appropriate time and date. Assess nurses' work motivation level by surveying nurses frequently. Moreover, a qualitative research is required to explore how and why personal and organizational factors affecting nurses' work motivation by using interviews and focus groups for more in-depth exploration and explanation regarding nurses' work motivation. Furthermore, a further study is needed to examine the impact of nurses' motivation at work and patients' outcomes.

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