

## **Relationship between Work Effectiveness and Readiness to Change among First Line Nurse Managers**

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**Abstract:** Background: The importance of readiness to change among first line nurse managers of organization has been recognized as a critical factor in the success of organizational change efforts. These changes within the health care are very important for improving nurse managers' work effectiveness and efficiency. Purpose: This study was carried out to explore the relationship between work effectiveness and readiness to change among first line nurse managers. Design: A descriptive correlational research design was utilized for this study. Setting: Conducted from different departments at Menoufia University Hospital, Teaching Hospital and El Helal Hospital at Shebin-ELkom. Sampling: A Convenience sample of 181 first line nurse managers was included at this study. Instruments: Two instruments were used for data collection. Instrument one: work effectiveness questionnaire (WEQ). Instrument Two: Readiness to change scale. Results: Revealed that the majority of studied first line nurse managers had high level of work effectiveness (94.7%) , and also the majority of studied nurse managers had a high level of readiness to change (91.4%). Conclusion: There was a highly statistical significant positive correlation between level of work effectiveness and readiness to change. Recommendation: Strategies and policies should be developed to improve work effectiveness and readiness to change among first line nurse managers.

**Key Words:** Nurse Managers' work effectiveness, readiness to change.

### **Introduction**

Health care organizations are facing increasing demand to show positive clinical outcomes and services results by key payers and customers alike. This requires high nursing quality practice which leads to efficient nursing care with reduced length of hospitalization and saving the cost of treatment for patient and hospital (Jones, 2013). In health care system the pace of change has been

increased with the increasing challenges such as new medical technology, an increasingly demanding customer and patient, shortage of key professionals, globalization and growing financial pressures. Thus, change is the basis for improving and expanding individual, group, and organizational effectiveness, performance and learning (Khammarnia, Ravangard & Asabi, 2014).

***Relationship between Work Effectiveness and Readiness to Change among First Line Nurse Managers***

Work effectiveness is defined as the degree to which objectives and goals are achieved and the extent to which targeted problems are solved (Rosen, 2018). Nursing work effectiveness is primarily related to quality outcome being achieved and is concerned with doing the right things in providing the patient care with low cost and high quality. Quality work performance can be measured by, for instance, the number of errors made by employees (Torres, 2017). Nursing work effectiveness is an indicator of nurse's ability to efficiently execute their nursing duties. (Homa & Nasreen, 2019). Different factors can influence work effectiveness such as job characteristic, leadership style, compensation justice, and empowerment.

Work effectiveness results from empowering conditions that increase employee's access to conditions that enable them to accomplish their work more effectively. These include access to opportunity, information, support, and resources. Access to opportunities involves work activities that provide challenge, learning, growth and autonomy. Access to information about technical knowledge and organizational goals helps the individual to function more effectively in their role. Employees who receive support in the form of feedback and

guidance are also better able to meet role expectations. Access to resources such as equipment, supplies and time to do the work likewise enable role performance. These workplace conditions offer more power to the individual to accomplish their work (Alejandro, Yolanda, Octavio & Jaume, 2017).

Change is altering the current state of things to give a different position, course or direction and to make a shift from one to another (Yoder-Wise, 2015). Change, whether proactively introduced at the point of change or forced from external sources, affects people. Responses to all or part of the change process by individuals and groups may differ from full acceptance and willing participation to complete rejection or even revolution (Marquis & Huston, 2015). Additionally, there are three responses to change, namely readiness, commitment and resistance to change. Readiness for change is a cognitive antecedent to behavior of either resistance or support for a change effort, which is reflected in the employee's beliefs, attitudes and intentions regarding the extent to which changes are needed and the organization's ability to successfully complete the intended change (Blackman, O'Flynn & Ugyel, 2013).

First line nurse managers are responsible for implementing changes in healthcare

***Relationship between Work Effectiveness and Readiness to Change among First Line Nurse Managers***

settings, and their insight plays an important role in the change process. Keeping in mind the psychological predispositions of these change recipients, organizations must restore the implementation process so as to create a positive change experience for nurses (Cullen, Tsamenyi, Bernon, &Gorst, 2013). Managers should create environment that support creativity and openness to motivate nurses to perform beyond standard expectations for performance, and present a vision of the future. Also leaders should provide nurses with new knowledge and skills and give them the opportunity for doing challenging works (Gagnon, Attieh & Ghandour, 2014).

**Significance of the Study**

Health care organizations are facing threatening factors that affect on work effectiveness such as lack of experience, lack of resources, lack of information, lack of skills and lack of managerial support (Wang & Ashcraft, 2013). Furthermore, there are challenges that may affect on readiness of nurse managers for change such as increasing cost of health care delivery, the nursing shortage, rapid advancements in technology and information management. First line nurse managers' ability to create and manage meaningful change is an essential skill

nowadays. This requires that nurse managers be proactive and creative in guiding change. Therefore, the current study aims to explore work effectiveness among first line nurse managers and its relation to their readiness to change.

**Purpose of the study:**

The purpose of this study is to explore work effectiveness level among first line nurse managers and its relation to their readiness to change.

**Research questions:**

1. What are the levels of work effectiveness among first line nurse managers?
2. What are the levels of readiness to change among first line nurse managers?
3. What is the relationship between the first line nurse managers' level of work effectiveness and their readiness to change?

**Methods**

**Research Design**

A descriptive correlational research design was used for conducting this study.

**Setting**

The study will be carried out at three hospitals in Menoufia Governorate namely, Menoufia University Hospitals which affiliates to Menoufia University, Shebin El-Kom Teaching Hospital which affiliates to general agency of teaching institutes and hospitals and El-Helal

***Relationship between Work Effectiveness and Readiness to Change among First Line Nurse Managers***

Insurance Hospital which affiliates to health insurance sector

**Sample:-**

The sample consisted of one group of 181 first line nurse managers (92 nurse managers from University Hospital, 64 from Teaching Hospital and 25 from El-Helal Insurance Hospital)

**Sampling technique:**

A convenience sampling technique was used to choose all available first line nurse managers who fulfill the following criteria:- The first line nurse managers who have at least two year of experience in their position and accept to participate in the study.

**Instruments**

**Instrument 1: Work Effectiveness Questionnaire (WEQ)**

It was developed by Hanon (2016) and adopted by the investigator to assess work effectiveness level among first line nurse managers. It consisted of two parts:

**Part One:** It included the participants' demographic information such as age, marital status, qualification, and years of experience.

**Part Two: The Work Effectiveness Questionnaire (WEQ) :**

It consisted of 50 items aimed to assess the level of work effectiveness among first line nurse managers. It's classified into four domains namely; job characteristic (9

items), leadership style (18 items), compensation justice (11 items) and empowerment (12 items).

The scoring system of each dimension was assessed by using three points Likert Scale ranging from always (3), sometimes (2), never (1). The maximum possible score was 150. The level of work effectiveness was considered low if the score < 60% (60 - < 90). The level of work effectiveness was considered moderate if the score was between ( 60% - < 75%) (90 - < 113). The level of work effectiveness was considered high if the score  $\geq$  75% ( 113 – 150).

**Instrument Two: Readiness to Change scale**

It was developed by El- Beshlawy (2018) and adopted by the investigator to assess readiness to change among first line nurse managers. It consisted of 41 items related to the first line nurse managers' readiness for hospital change. It was classified into four domains namely; appropriateness of change (5 items), managerial support (13 items), change efficacy (12 items) and personal valence (11 items).

The scoring system of each dimension was assessed by using three points Likert Scale ranging from agree (3), neutral (2), disagree (1). Maximum possible score was 123 .The level of readiness to change was considered low if the score <60% (41 - <75) of total readiness to change score

***Relationship between Work Effectiveness and Readiness to Change among First Line Nurse Managers***

moderate if the score was between ( 60% - <75%) (75 - <93) of the total readiness to change score. The level of readiness to change was considered high  $\geq 75\%$  (93 – 123) of total readiness to change score.

**Validity of the instruments**

The study instruments were distributed to a panel of five experts in the field of nursing administration to judge the content and face validity of the instruments. The experts were assistant professors who were affiliated to Faculties of Nursing at Menoufia and Tanta Universities. The instruments were considered valid from the experts' perspectives.

**Procedure**

An official letter was sent from the Dean of the faculty of nursing Menoufia University to the directors of Menoufia University Hospital, Shebin El Kom Teaching Hospital and El Helal Insurance Hospital explaining the purpose and methods of data collection. The investigator explained the purpose of the study to every participant. The investigator was available for help to avoid any misinterpretation of questions during data collection. An oral consent was taken from each study participant. Data collection took about three months

from the beginning of June 2020 to the end of August 2020. The questionnaires were distributed during nurse's work hours. It took around 15-20 minutes from each study sample to fill in the questionnaire.

**Ethical considerations**

Approval was obtained from the Ethics Committee of the Faculty of Nursing, Menoufia University. The privacy and confidentiality of data were maintained and assured by getting participants' consent to participate in the research before data collection. Anonymity of participants was assured.

**Statistical analysis**

The collected data were organized, tabulated and statistically analyzed using SPSS (Statistical Package for Social Science) software statistical computer package version 26. For quantitative data, the range, mean and standard deviation were calculated. Comparison was done using Chi-square test ( $\chi^2$ ). ttest was used to compare between two groups and Anova test (F) test was used for comparison between groups. Qualitative data were presented in the form of frequency distribution tables, number and percentage.

**Results**

*Relationship between Work Effectiveness and Readiness to Change among First  
Line Nurse Managers*

**Table (1): Distribution of studied nurses according to their social characteristics**

social characteristics		No.	%
Age / years	20 – < 30	60	33.1
	30 – < 40	85	47.0
	≥ 40	36	19.9
Marital status	Married	150	82.9
	Unmarried	31	17.1
Educational level	Bachelor degree	137	75.7
	Master degree	16	8.80
	Doctorate degree	11	6.10
	Others	17	9.40
Hospital of work	Menoufia University Hospital	92	50.8
	Shebin El-Kom Teaching Hospital	64	35.4
	El-Helal Health Insurance Hospital	25	13.8
Years of experience in nursing	1 – < 5 years	43	23.8
	5 - < 10 years	39	21.5
	≥ 10 years	99	54.7
Years of experience in nursing management	1 – < 5 years	54	29.8
	5 - < 10 years	73	40.4
	≥ 10 years	54	29.8

**Table (1):** Shows Social characteristics of the studied nurse managers. As noticed from the table, less than half of study sample (47%) aged between 30 – <40 years old and most of them were married (82%). Furthermore, three quarters of nurse managers had bachelor degree in

nursing (75%). Half of the study sample (50%) is working in university hospital. Concerning years of experience, more than half of the studied nurse managers (54%) had ≥ 10 years of experience in nursing while more than one third of them (40%) had (5 - < 10 ) years of experience in nursing management.

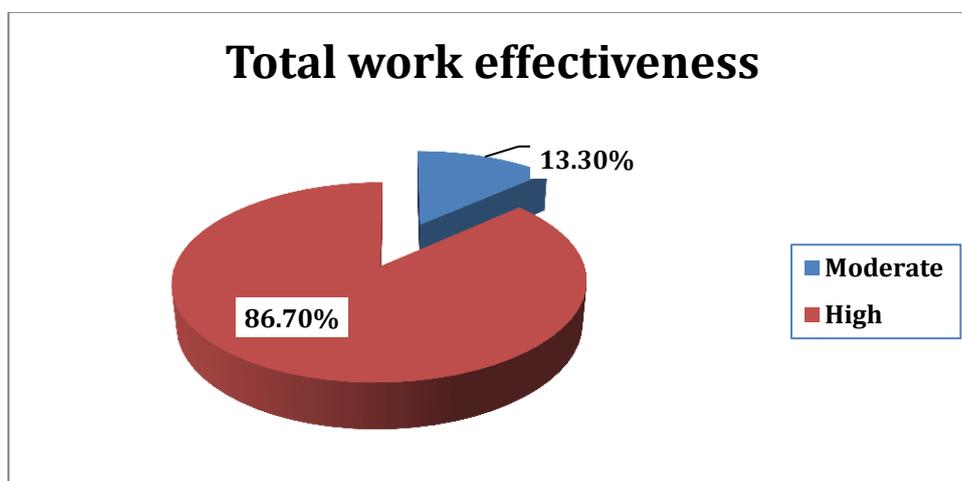
**Table (2): Mean and standard deviation of work effectiveness among studied nurse managers**

*Relationship between Work Effectiveness and Readiness to Change among First Line Nurse Managers*

Work effectiveness variables	Min – Max	Mean	SD	Mean percentage
Job characteristics	9 - 27	26.2	1.48	97%
Leadership style	18 - 54	51.9	3.31	96.1%
Compensation justice	11 - 33	31.3	2.42	94.8%
Empowerment	12 - 36	32.6	4.41	90.5%
Total work effectiveness	50 - 150	142.1	7.62	94.7%

**Table (2):** shows mean and standard deviation of work among the studied nurse managers. As noticed from table, total work effectiveness and all of its dimensions had high mean scores as compared to the maximum scores. Moreover, the dimension of job characteristics had the highest mean

score (26,2±1,48) with mean percentage (97%)(as compared to the maximum score).The dimension of empowerment had the lowest mean score (32,6±4,41) with mean percentage (90%)(as compared to the maximum score).



**Figure (1):** Percentage distribution of total work effectiveness among the studied nurse managers

**Figure (1):** Shows percentage distribution of total work effectiveness among the studied nurse managers. As shown in the figure, the majority of nurse managers had high level of work

effectiveness (86.7 %) while the minority of them had moderate level of work effectiveness (13.3%). None of them had low level of work effectiveness

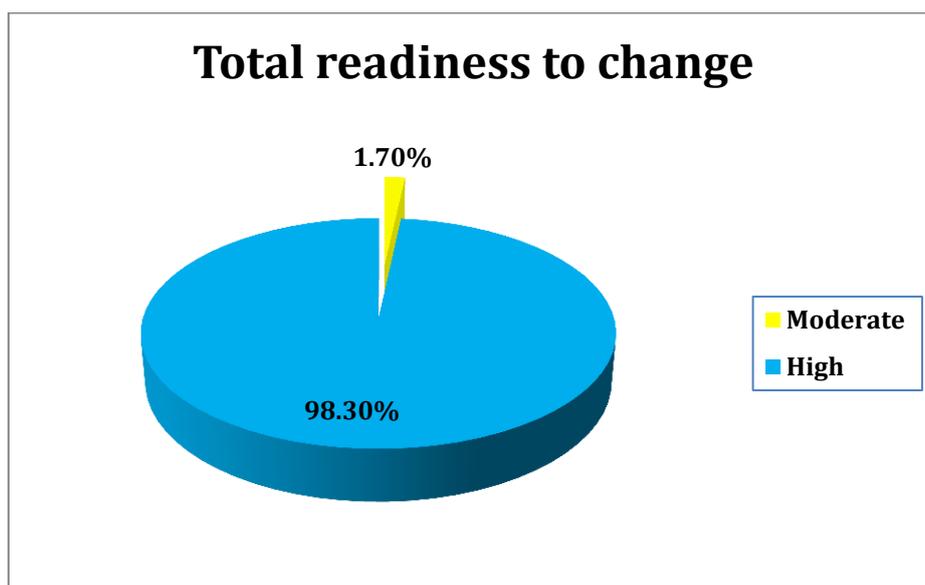
*Relationship between Work Effectiveness and Readiness to Change among First Line Nurse Managers*

**Table (3): Mean and standard deviation of readiness to change among the studied nurse managers**

Readiness to change variables	Min – Max	Mean	SD	Mean percentage
Appropriateness to change	5 - 15	14.6	1.06	97.6%
Change efficacy	12 - 36	35.1	2.09	97.5%
Managerial support	13 - 65	37.7	2.36	53.4%
Personal valence with change	11 - 33	24.8	2.91	75.2%
Total readiness to change	41 - 123	112.4	5.01	91.4%

**Table (3):** shows mean and standard deviation of total readiness among the studied nurse managers. As shown in the table, the total mean score of readiness to change and mean scores of change efficacy was (97.5%), and

appropriateness to change subscales were high as compared to the maximum scores. On the other hand, managerial support subscales had low mean scores (as compared to the maximum score).



**Figure (2):** Percentage distribution of total readiness to change among the studied nurse managers (N=181)

**Figure (2):** shows percentage distribution of total readiness to change among the studied nurse managers. As presented in the figure, the majority of

nurse managers (98.3%) had high readiness to change. None of them had low level of readiness to change.

**Table (4): Correlation between work effectiveness and readiness to change among the studied nurse managers (N=181).**

*Relationship between Work Effectiveness and Readiness to Change among First Line Nurse Managers*

Studied variables	Total work effectiveness	
	R	P value
Change efficacy	0.019	0.801
Appropriateness to change	-0.062	0.405
Managerial support	0.058	0.438
Personal valence with change	0.362	<b>0.001**</b>
Total readiness to change	0.233	<b>0.001**</b>

**Table (4):** shows correlation between work effectiveness and readiness to change among studied nurse managers. As noticed from the table, there was highly statistical significant positive correlation between total work

**Discussion**

Organizational effectiveness is usually interpreted as success achieved by an organization in its efforts to achieve predetermined goals. It needs employees able to work well and having high work effectiveness so that the work can run smoothly. The success and failure of an organization to achieve its intended goals depends on the ability of employees to carry out their duties and responsibilities for the tasks assigned to them (Kataria, 2018). Change is an important issue for organizations' survival and it is actually a process in which an organization optimizes performance as it works toward its ideal state. For innovating and improving health care organization, change is required to reach safety, timeliness, effectiveness,

effectiveness and readiness to change. While, there was no statistical significant correlation between work effectiveness and change efficacy, appropriateness to change, and managerial support subscales.

efficiency, equity, and patient centeredness (Haroon, Ahmed & Ghulam, 2019).

Therefore the purpose of this study was to explore the relationship between work effectiveness and readiness to change among first line nurse managers, through: identifying levels of work effectiveness among first line nurse managers, assessing levels of readiness to change among first line nurse managers and finding out the relationship between work effectiveness and readiness to change among first line nurse managers.

The research questions of this study were: “What are the levels of work effectiveness among first line nurse managers?”, “What are the levels of readiness to change among first line

***Relationship between Work Effectiveness and Readiness to Change among First Line Nurse Managers***

nurse managers?" and "What is the relationship between work effectiveness and readiness to change among first line nurse managers?"

The present study revealed that there was high level of work effectiveness as perceived by the majority of study sample. This answers the first research question "what are the levels of work effectiveness among first line nurse managers?" The result of present study was supported by Yong-Sook and Kim (2014) who conducted a study about "Path Analysis of Empowerment and Work Effectiveness among Nurse Managers" and found that work effectiveness had the highest mean score among nurse managers. In contrast with the findings of present study, Hanon (2016) in a study about perceived level of work effectiveness and readiness to change among oncology nurses reported that most of subjects had moderate and low level of work effectiveness.

Results of the present study revealed that the highest mean score of work effectiveness subscales was for job characteristics subscale. This result was supported by Johari and Yehia (2016) who conducted a study about job characteristics, work involvement and job performance and indicated that

the job characteristics were perceived among nurse managers at a high level. On the contrary, Yuxiu (2020) study about job characteristics and job performance among professional nurse managers in the University of Hospital of People's Republic of China found that professional nurses perceived that the levels of job characteristics as well as motivation were moderate.

On contrary, the lowest mean score of work effectiveness was related to empowerment. In the same line, Yakob (2018) reported that nurses and physicians reported that mean score of work effectiveness was low in a study about work empowerment as perceived by nurses and physicians working at National Heart Institute. Also Stewart (2020) studied psychological empowerment and structural empowerment among nurse managers concluded that nurse managers who participated in the study had high scores about perceptions of structural empowerment and psychological empowerment.

The present study revealed that there was high level of readiness to change as perceived by the majority of the study sample. This result was supported by Abd-Elkawey (2015) who studied factors affecting nurses'

***Relationship between Work Effectiveness and Readiness to Change among First Line Nurse Managers***

readiness to change in health care organizations. It was found that the highest percentage (56%) of nurse managers reported that they had high readiness to change level. Also, Ashour (2016) found that nurse managers had high readiness to change in a study about factors associated with nurses' readiness to change at Alexandria Main University Hospital. On the otherhand, the results of Shah (2015) study about determinants of employee readiness for organizational change contradicted with the results of this study as that study revealed a moderate level of readiness to change among head nurses. Moreover,, Madsen (2018) study about readiness for organizational change: Do organizational commitment and social relationships in the workplace make a difference, found low level of readiness for organizational change. This study result revealed that the highest mean score was for appropriateness of change and the lowest mean score was for managerial support. This result was supported by Visage & Steyn (2015) study about organizational commitment and responses to planned organizational change: An exploratory study as that study found that employees displayed

high favorable levels of appropriateness of change. In contrary, Clark (2016) found that participants demonstrated low score toward how legitimate and appropriate the change initiatives were for organization to meet its objective (appropriateness).

The results of the present study showed that managerial support had the lowest mean score. It might be attributed to lack of encouragement from the senior leaders in the form of insufficient resources and information. Besides, lack of desire, support and commitment from senior leaders and top decision makers to implement change in forms of inadequate staff training and development on current issues and trends and lack of reinforcement of new initiatives. In this respect, Mashhady (2021) stated that when employees received timely, informative, and useful information about an organizational change, they presented a more positive evaluation of the change and demonstrated willingness to cooperate with the change agent and low employees' resistance to change.

On the contrary, Visage & Steyn (2015) found that the employee reflected moderate levels of management support. Also, Clark

***Relationship between Work Effectiveness and Readiness to Change among First Line Nurse Managers***

(2016) indicated in his study about the development of an integrated measure of readiness for change instrument and its application on aeronautical systems command's contracting directorate that the participants demonstrated moderate level concerning the management support.

The result of the present study showed that there was a high statistical significant positive correlation between work effectiveness and readiness to change.

This result was in the same line with Hanon (2016) who conducted a study about perceived level of work effectiveness and readiness to change and found that there was positive significant correlation between work effectiveness and readiness to change. Besides Maleki, Gohari and Ghorbanion (2019) study about factors affecting readiness to change found that empowerment, leadership, compensation justice and job characteristics could be an antecedent to change acceptance. In addition, trust in management is one mechanism that enables organization members to cope with operational flexibility and constant change.

**Conclusion**

Majority of the first line nurse managers in the study settings have high level of work effectiveness and they have high readiness to change. The highest mean score of work effectiveness subscales was for job characteristics subscale and the lowest mean score was for empowerment. The highest mean score of readiness to change was for appropriateness of change and the lowest mean score was for managerial support. The level of work effectiveness is only influenced by marital status and work setting while the readiness to change is affected by age, work setting and years of experience in nursing management. There was highly positive statistical significant correlation between work effectiveness and readiness to change. Moreover, there was highly statistical significant between work effectiveness and personal valence. Hence, improving nurses managers' work effectiveness would foster their readiness to change.

**Recommendations**

Based on the findings of this study, the following recommendations are proposed:

- 1- effective and continuous training programs should be provided for nursing staff based

***Relationship between Work Effectiveness and Readiness to Change among First Line Nurse Managers***

- on needs assessment to develop them and so provide high-quality care, increase their work effectiveness, and their readiness to change
- 2- effective leadership styles should be used according to different situations
  - 3- open communication should be strengthened by conducting schedules for nurses meeting with their managers to reach a high level of work effectiveness
  - 4- a suitable opportunity should be provided for promotion and development for their nurses with a clear path of career, to help to retain effective nurses.
  - 5- an effective compensation program such as bonuses, flexible work hours, and fringe benefits should be provided to increase the commitment, work engagement, and retention of nurses.
  - 6- Strategies for successful change management should be followed by the nurse leaders, with more focus on the expected benefits of the change, and better

communication with subordinates.

- 7- Further researches are required to:

Develop Education program for nurse managers about work effectiveness, and its effect on productivity and quality of care.

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*Relationship between Work Effectiveness and Readiness to Change among First Line Nurse Managers*

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***Relationship between Work Effectiveness and Readiness to Change among First  
Line Nurse Managers***

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***Relationship between Work Effectiveness and Readiness to Change among First  
Line Nurse Managers***

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