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Enhancing Creativity and Change of Nursing Management Staff and Its Influencing on Their Performance at Benha University Hospital

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Abstract:

Currently, organizations work in very competitive and uncertain dynamic environment, which requires organizations to be flexible, to acquire and adapt new knowledge, new technologies and new processes to introduce new products, services, cut costs, act faster than competitors and remain competitive. **Purpose of the study:** Enhance creativity and change of nursing management staff and its influencing on their performance at Benha University Hospital. **Design:** A quasi-experimental design was utilized. **The subjects** were 98 head nurses, their assistants. **Instruments for data collection:** four instruments were used: (1) Knowledge Questionnaire Sheet, (2) Nursing Management Staff Observation Checklist (3) Nursing Management Staff Attitude toward Creativity and Change at work Questionnaire. (4) Creativity Questionnaire. **The result showed that,** There was improvement in the level of knowledge, performance, attitude toward creativity, change and level of creativity throughout post and follow up from the preprogram, There was significant positive statistical correlation between total knowledge scores with total performance scores and attitude toward creativity of the studied nursing management staff at preprogram and follow up phase of the study, there was positive statistical significant correlation between attitude toward change with performance and attitude toward creativity of the studied nursing management staff at post program and follow up program. **The study concluded that,** Enhance creativity and change of nursing management staff and its influencing on their performance at Benha University Hospital. **The study recommended the following:** Hospital administration should provide program about enhancing creativity and change for nursing management staff, Replication of the study on a larger probability sample is highly recommended to achieve generalization of results.

Key words: Creativity, Change, Nursing management staff, Performance.

Introduction:

Creativity is recognized as one of the critical competencies for 21st century organizations to lead or adapt to change. Creativity has emerged as a new focus up on which an organization's success and survival depends on its capability to create new knowledge and innovations which organizations have been faced with the need to change their way of thinking and make their employees capable of dealing with these daily challenges (Suifan & Al-Janini, 2017).

Creativity at work refers to the development of novel products, services and generating new ideas, processes and procedures by employees or a small group of employees to be successfully implemented within the firm to develop innovation (Maric 2017). In most organizations, a suitable system is required to allow employees to

express their creativity. Thus, organizational support plays a major role in enhancing the creativity of employees where they will be motivated to upgrade the organization's performance and productivity. In reality, there are organizations that give insufficient support to their employees in terms of empowering employees and knowledge sharing (Ibrahim and Shahbudin, 2016).

Employees' creativity can be nurtured by leadership styles as leader's primarily work to initiate employees' creative abilities so they can find creative solutions for complex problems. Leadership can be seen as a situational factor that exerts a strong influence on creativity and leadership. Furthermore, it has been closely related to employees' creativity. Managers may

inspire and motivate subordinates to go beyond their abilities in providing a better way of completing their tasks and solving problems, apply unconventional solutions to problems. Managers have an even more major role in creating and forming conditions that encourage cognitive processes considered helpful for fostering creativity (Mittal and Dhar, 2015; Uusi-Kakkuri 2017).

At present, the rapid changes are happening so fast that have prompted today's organizations to ensure their survival by the launch of creative products and services with advanced technology, and this requires creativity, innovation and entrepreneurship (Fadaee and Abd Alzahrh 2014). When change is announced in an organization staff hope that the outcomes for themselves (and at times for others, too) will be favorable. Changes affect the employee's performance in various ways like redundancy, employee turnover and the level of motivation at work (Kute & Upadhyay, 2016).

Organizational change is expressed as "an empirical observation of difference in form, quality, or state over time in an organizational entity. The entity may be an individual's job, a work group, an organizational strategy, a program, a product, or the overall organization" (Franklin and Aguenza, 2016). There are several types of change that managers can adopt to help their organizations achieve desired future status as planned, emergent, episodic (also called discontinuous change) and continuous change, changes to core and peripheral systems and strategic and operational change (Khosa et al., 2015).

Resistance to change has been recognized as one of the important factors that can influence the success of organizational changes, including new technology innovation, new policies, and new organizational structure. Change may be resisted because it threatens the way people make sense of the world, calling into question their values and rationality and prompting some form of self-justification or defensive reasoning. Successful organizational adaptation is increasingly reliant on generating employee support and enthusiasm for proposed changes, rather than merely overcoming resistance (Repischak, and Hughes 2016 ; Yuh-Shy, 2017).

Change management is an essential means to respond to future challenges, change management refers to the process of renewing an organization's direction, structure, and capabilities to improve the quality of work provided (Saarnio et al., 2016). Change requires managers and the organization as a whole, to address beliefs and mindsets and to develop the practices and behaviors that help people adapt to change. It's about enlisting people in change and

keeping them committed throughout, in the face of uncertainties, fears, and distractions (Dinwoodie et al., 2015).

Managers should identify influential individuals who may be inclined to resist the proposed digital change, and be prepared to personalize benefits communications with these stakeholders, possibly at the senior sponsorship level. Inclusive, extensive and transparent communications will help encourage adoption of the digital strategy, by giving anyone who is interested an opportunity to be part of the solution (Austuring 2014 and Blake, 2016).

The performance of managers and their employees improves by establishment of strong culture, support creativity and positive change of an organization, manager's performance would be considered as backbone of an organization as it leads to its development effectively and the loyalty of employee relies upon knowledge and awareness of culture that improves behavior of organization (Wanza and Nkuraru, 2016).

Significant of the study:

After the exposure of the country's revolutions, especially the revolutions in Egypt and notable development and change for the better, It happened in many areas, especially in health care in all over the world, all of these stimulate and need innovation, creativity and positive change toward the best, so that it's paramount important to nursing managers tend to be creative and able to lead change positively in the way to perform duties assigned to keep up with development. Additionally when the researcher contact with nursing management staff in Benha university hospital during practical training of students found that they don't use creativity and change to solve some existing problems at work and when they perform some procedures more efficient to decrease time to be wasted or change to reduce unnecessary workload. So this study will be done to enhance nursing managers toward creativity & change and its influencing on their performance at Benha University Hospital.

Purpose of the study:

The purpose of the study is to evaluate enhancing creativity and change of nursing management staff and its influence on their performance at Benha University Hospital through:

1. Assessing nursing management staff knowledge toward creativity and change in their work thorough program.
2. Assessing nursing management staff actual performance toward creativity and change at their work thorough program.
3. Assessing nursing management staff attitude toward creativity and change at work thorough program.

4. Assessing nursing management staff about their level of creativity at work thorough program.
5. Designing educational program for enhancing creativity and change of nursing management staff at work.
6. Implementing educational program for enhancing creativity and change of nursing management staff at work.

Research Hypotheses

Nursing management staff who receive educational program about creativity and change in their work will be improving in nursing management staff knowledge, skills and attitude toward creativity and change at work after implementing the program and it will be having a positive influence on their performance At Benha University Hospital.

Methods:

Design: A quasi-experimental research design with pre-test, post-test and follow up after three months assessments was carried out in the study.

Setting: The current study was conducted in all units at Benha University Hospital, the total number of the studied units were (57) units.

Sumpling: The sample included in the present study consisted of:

All the available nursing management staff (103) consist of : they were "Hospital director (1), assistants director (4), supervisors (10), head nurses and their assistants (88) who were working in the above mentioned study setting having at least one year of their job experience, all of them participate in the study except (3) head nurses in holidays as (sick leave – child care) at the time of data collection and (2) head nurses refuse to participate in the study, the actual number of nursing management staff included in this study was (98).

Instruments of data collection: Data for the present study was collected through using the following four instruments:

Instruments one: Knowledge structured interveiw Questionnaire:

A structured questionnaire developed by the researcher through review of the current related literature (Ariffin, & Daud, 2011, Wageeh, & Nafei1, 2014 , Henry, & Hornstein, 2015; Rashed, et al., 2015 and Indradevi, & Rebeka, 2015). It included two parts;

- **First part:** Nursing management staff social charactaristics like (age, education, years of experience, training about creativity and change).

- **Second part:** knowledge about creativity and change at work, It included nursing management staff knowledge about creativity and change at work through program phases, It consisted of 50 items about creativity and change at work. Assessment of reliability was measured by using Cronbach's Alpha and the value was (0.894).

Scoring system:

The questions were scored as "1" for correct, and "Zero" for incorrect so the total scores were (50), and cut point was done at 60%= 30 scores. Total knowledge score was calculated as follows;

- Unsatisfactory: < 60% score (0 - < 30).
- Satisfactory: ≥75% score (≥30).

Instruments two: Nursing Management Staff Observation Checklist:

It was an observation checklist adopted by (El-Shahat, 2014; Fathy, 2015) and adapted by the researcher. This tool aims at assessing performance of nursing management staff through program, related to creativity and change at work. Assessment of reliability was measured by using Cronbach's Alpha and the value was (0.835). It consists of 52 items about:

- Staff management (34 items) distributed as staff education (8 items), staff promotion (15 items), staff supervision (6 items), and staff evaluation (5 items).
- Patient care management (11 items).
- Unit management (7 items).

Scoring system:

The scoring system of the observational checklist was based on a three-point Likert scale as follows: completely done (2 points), incompletely done (1 point) and not done (zero point).The total scores (104) and cut point was done at 60 % = 63 scores. The range scores of observational checklist were expressed as follows;

- Poor = < 60% score (0 - <63)
- Average = 60% -<75% score (63 - < 78)
- Good = ≥75% score (≥ 79 - 104)

Instruments three: structured questionnaire about nursing management staff attitude toward creativity and change:

The structured questionnaire modified by the researcher through reviewing the related literature as (Saleh, et al., 2013; Nafei, 2014). It included different items to assess nursing management staff attitude toward creativity and change at work. It consists of (78) items about:

Attitude toward creativity (24 items) distributed as the pattern of creativity at work (5) items, encouragement of creativity by superiors and hospital management (14 items), the constraints that limit creativity at work (15).

Attitude toward change (54 items) they are distributed as development of person's skills (12 items), participation in the change (14 items), the confidence of people to the change (8 items), fear from the consequences of change (4 items), support change by the hospital administration (11 items), attitude of nursing staff from the change at work (5 items).

Scoring system:

Scores of answers for each question were as follows: (2) always, (1) sometimes, (0) never. The participant who had a percent more than 75% this indicates a highly positive attitude, if the score ranges from 50 to less than 74%, this indicates a positive attitude and if it goes less than 60%, this refers to negative attitude. Total attitude score was calculated as follows;

I- Attitude toward creativity:

- Negative: < 60% score (0 - < 29)
- Positive: 60% - <75% score (29 - < 36)
- Highly Positive: $\geq 75\%$ score ($\geq 37-48$).
- **Reliability** of Attitude toward creativity was measured by using Cronbach's Alpha and the value was (0.764).

II- Attitude toward change:

- Negative: < 60% score (0 - < 65)
- Positive: 60% - <75% score (65 - < 81)
- Highly Positive: $\geq 75\%$ score ($\geq 82 - 108$).
- **Reliability** of attitude toward change was measured by using Cronbach's Alpha and the value was (0.875).

Instruments four: Creativity Questionnaire Sheet:

It was structured questionnaire and modified by the researcher through reviewing the related literature as (Tawfiq, 2009; Gumusluoglu, & Ilsev, 2009; Saleh, et al., 2013). It included different items to assess nursing management staff level of creativity at work, Assessment of reliability was measured by using Cronbach's Alpha and the value was (0.842).

It consisted of 59 items as follow:

- General features that characterize personality (20) items.
- Degree of flexibility in the work (8 items).
- Sensitivity to solve problems (14 items).
- Keep the direction or goal (11 items).
- Accept the risk at work (6 items).

Scoring system:

Within the creativity questionnaire sheet, there is a three-point Likert scale as follows: disagree (1 point), Agree (2 point) and strongly agree (3 point) and total scores (59). Total score was developed by *Saleh, et al., (2013)* and modified by the researcher as follow;

- Below creative: < 60% score (1- ≤ 106).
- Average creative: 60% - <75% score (107- ≤ 133).
- Very creative: $\geq 75\%$ score (≥ 133).

3- Pilot study: A pilot study was conducted on 10% form the subject: (10) head nurses, their assistants, it was done to assess the feasibility, clarity and time required to fill the tools that approximately ranged from 35 - 50 minutes.

4-Procedure:

- ♦ The preparation, construction and approval of the data collection tools consumed around three months from March (2016) to May (2016). Then, the researcher started to assess the readiness of the subjects in the study setting to announce and encourage subjects' participation in the study.
- ♦ At Benha University Hospital: The head nurses, their assistants and each individual nursing unit were then contacted, and agreed to attend the educational program. They also, agreed to provide the learning room in their units for this purpose.
- ♦ During the period from October till November 2016, the researcher conducted the pilot study on 10% of the total sample (10 head nurses, their assistants, were included in the main study subject.
- ♦ The researcher started the preparation of an educational program of the creativity and change at work after reviewing the related literature.
- ♦ Sufficient questionnaires and program situations for the number of qualified staff within each unit were distributed.
- ♦ Detected needs were transformed to development in-service education program. An in-service education program was developed based on determined needs and relevant review of the literature, then translated in to English language.

- ♦ Program targets were all head nurses and their assistants working in Benha University Hospital at least one year of job experience. It was aiming to prepare and develop an educational program of the creativity and change at work. Different instructional strategies, method of teaching, media and method of evaluation were selected to suit the learner's needs, and achieve the objectives and contents of the program. The teaching sessions were (14) hours distributed as the follows: (7) sessions, (2) hours for session, achieved by using available resources, relevant contents, and instructional strategies for each session. Different methods of teaching were used such as lecture, group discussion, and brain storming. Instructional media included, handout prepared by the researcher and distributed to participants in the first day of the training.
- ♦ Conduction of the educational program of the creativity and change lasted along 3 months from June till July, 2016.
- ♦ The subjects were divided in to (6) groups according to their departments, the first (2) group were 16 and the second (2) groups were 15 and finally (2) group were 18 head nurse and their assistants . The program took about (10) days. The duration of each session was two hours depending on workload and including periods of discussion according to their achievement, progress and feedback. It started at (11.30) A.m to (1.30) P.m. At the beginning of each sessions an orientation to the training and its aims took place. Feedback was given at the beginning of each session about the previous one and at the end of each session about the current session and program situations given to participants to write their suggestion for alternative solutions.
- ♦ During the period from December (2016) to January (2017), the impact of the in-service education program was evaluated, using the same tools and situations which were used before the program. And the data was analysis and the results interpreted, and clinical significance of finding evaluated for comprehended discussion of the data analysis results of the study.

Ethical consideration:

The study will be conducted with careful attention to ethical standards of research & rights of the participants:

1- Informed consent

Informed consent will be obtained by explaining purpose, nature time of conducting the study, potential benefits of the study, methods of data collection, expected outcomes and the respondent

rights to withdraw from the research study at any time in case of violation of his rights.

2- Anonymity & confidentiality

The respondent will be assured that the data will be treated as strictly confidential; furthermore, the respondent anonymity was maintained as they didn't want to write their names on questionnaires.

Statistical design

Data were verified prior to entry into the computer. The Statistical Package for Social Sciences (SPSS version 15.0) was used for that purpose, followed by data analysis and tabulation. Descriptive statistics were applied quantitative data (e.g., P value, Chi square, frequency, percentages, |T test). Statistical significance difference was considered if $p \leq 0.05$ and a highly significant level value was considered when $p \leq 0.001$.

Results

Table (1). Illustrated that distribution of nurses according to their personal characteristics; Regarding to age the mean age of the studied nursing management staff was (41.32 ± 8.38) years old, about more than two fifth (42.9%) were aged 45- < 55 years old and (4.1%) were aged 55- < 57 years. as regarding to sex, the majority (92.9%) of them were female, less than three quarters of them (72.4) were married and the minority (5.1%) of them were single . As for their educational qualification more than two thirds of them (62.2 %) had Bachelor of Nursing.

Figure (1). shows that, there was a highly significant improvement in level of knowledge of the studied nursing management staff about change and creativity throughout post and follow- up phases after three months of program more than preprogram phase; majority of them (94.9%) had satisfactory knowledge level post program, and minority (5.1%) had un satisfactory knowledge level.

Figure (2). Illustrate that, there was a highly significant improvement in the level of performance of the studied nursing management staff about change and creativity throughout post and follow up phases after three months of program from the preprogram phase, performance of them was good among more than two thirds of them (69.4%) at post program and none of them (0.0%) had poor performance at post program and follow up .

Figure (3). clarifies that, there was a highly significant improvement in attitude of the studied nursing management staff toward creativity throughout post and follow up more than preprogram phase . majority of them (88.8%) had highly positive attitude at post program and none of them (0.0%) had negative attitude at post program and follow up phase of the study.

Figure (4). represents that, there was a highly significant improvement in attitude of the studied nursing management staff toward change throughout post and follow up more than attitude at post program and highly positive at pre- program phase of the study.

Figure (5). It is clear from this figure that, there was an improvement in a level of creativity of studied nursing management staff throughout post and follow up more than preprogram phase. majority of them were (94.9%) very creative level of creativity at post program and none of them (0.0%) had below level at post program and follow up and very creative level at pre program phase of the study.

preprogram phase . Attitude was highly positive among majority of them (94.9%) at post program and none of them (0.0%) had negative

Table (2): revealed that, there was positive statistical significant correlation at total knowledge scores with total performance scores and attitude toward creativity of the studied nursing management staff at preprogram and follow up phase of program. Also, it was clear from this table that there was positive statistical significant correlation between attitude toward change with performance and attitude toward creativity of the studied nursing management staff at post and follow up phase of program.

Table (1) Distribution of personnel characteristics of the studied nursing management staff (n=98).

Personal characteristics	No	%
Age in years		
25-	15	15.3
35-	37	37.8
45-	42	42.9
55-57	4	4.1
Mean ±SD	41.32±8.38	
Sex		
Male	7	7.1
Female	91	92.9
Marital status		
Single	5	5.1
Married	71	72.4
Divorced	6	6.1
Widow	16	16.3
Educational qualification		
Secondary nursing education	15	15.3
Technical nursing education	19	19.4
Bachelor of nursing	61	62.2
Post graduate nursing education	3	3.1
Years of experience		
Less than 5 years	5	5.1
5-	28	28.6
15-	46	46.9
30-	19	19.4
Mean ±SD	18.23±5.02	
Creativity and change related training		
Yes	0	0.0
No	98	100.0

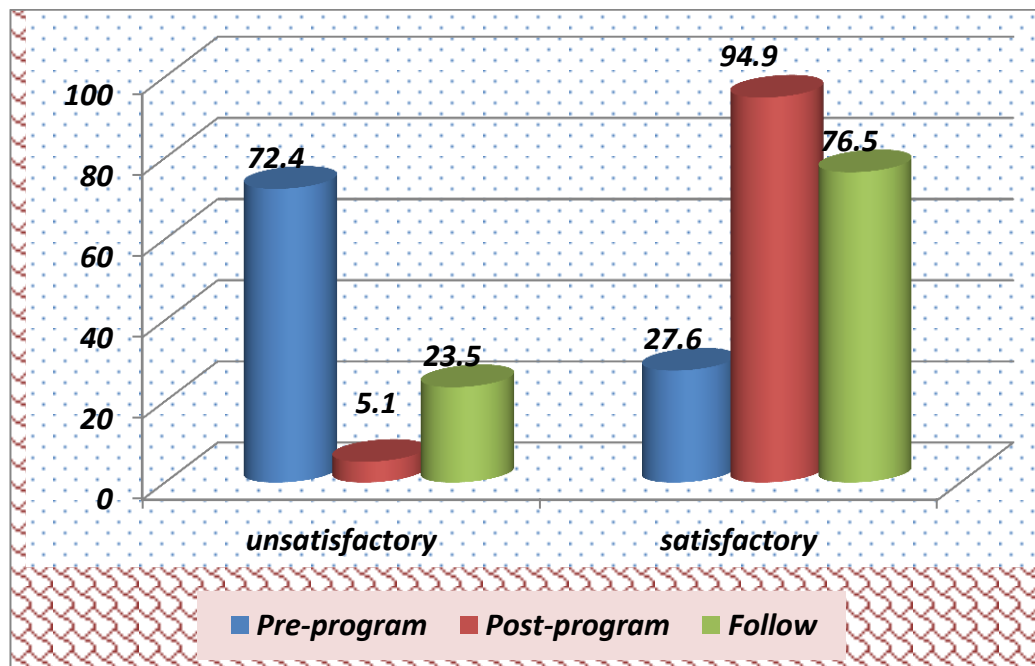


Figure (1). Distribution of nursing management staff according to their level of knowledge regarding creativity and change at work. Pre, immediate, and three months post and follow up program implementation. (n=98).

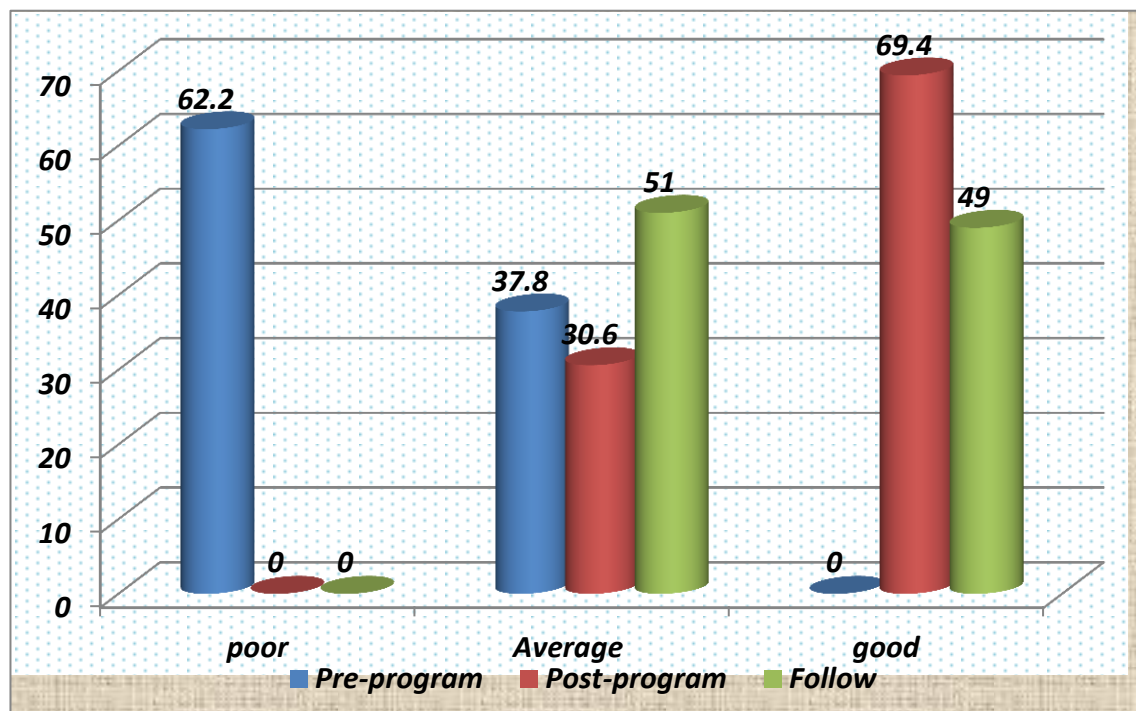


Figure (2). Level of performance of the studied nursing management about creativity and change at work. Through the program phases. (n=98).

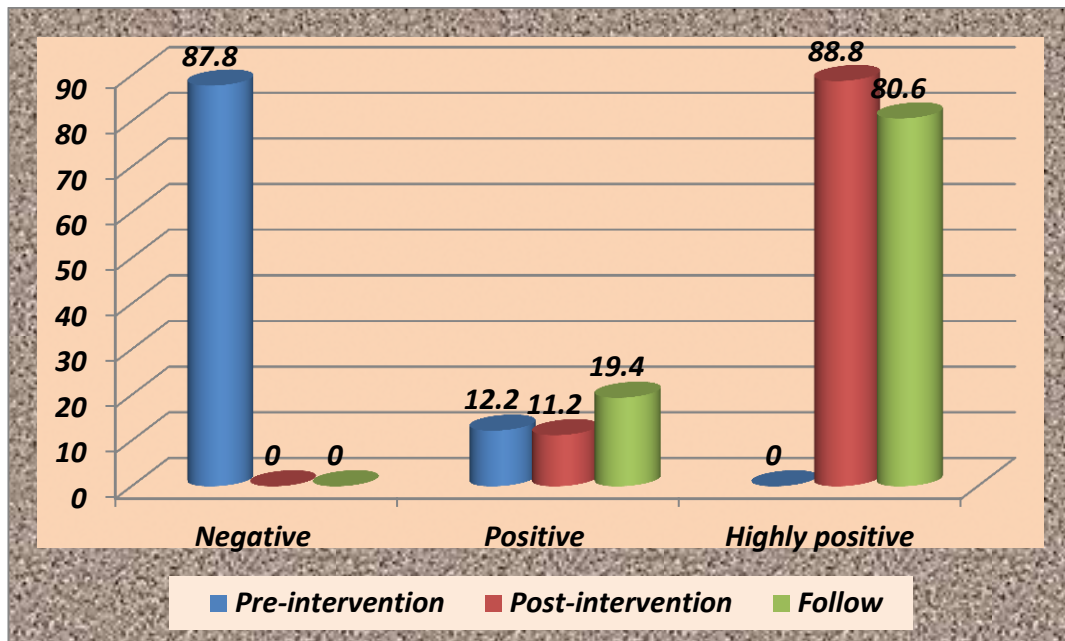


Figure (3). Level of nursing management staff attitude toward creativity. Pre, immediate, and three months post program implementation. (n=98).

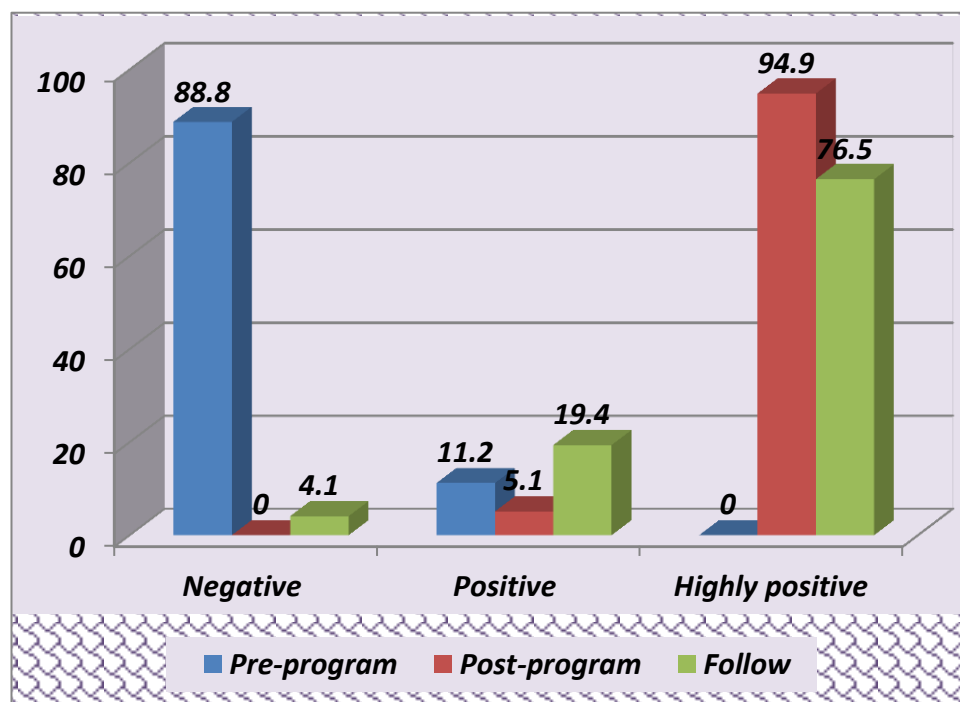


Figure (4). Attitude toward change scores of the studied nursing management staff . Pre, immediately post, and three months post program implementation. (n=98).

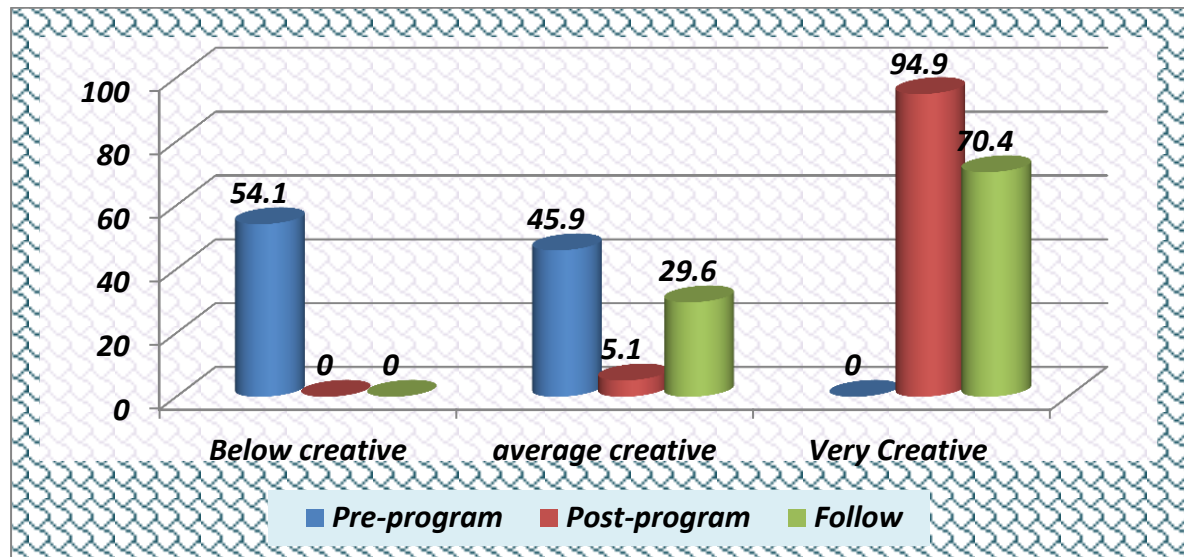


Figure (5). Level of creativity at work of studied nursing management staff . Pre, immediately post, and follow up program implementation. (n=98).

Table (2) Correlations between studied variables of creativity and change of studied nursing management staff pre, immediately post, and follow up program implementation. (n=98).

Variable	Time of assessment	Attitude toward change		Creativity level		Performance		Attitude toward creativity		Knowledge	
		r	P value	r	P value	r	P value	r	P value	r	P value
Attitude toward change	Pre-program	1	----	.023	.822	.036	.723	.118	.247	-.070	.491
Creativity level		.023	.822	1	----	.115	.258	.078	.448	.020	.849
Performance		.036	.723	.115	.258	1	----	.026	.798	.353**	.000
Attitude toward creativity		.118	.247	.078	.448	.026	.798	1	----	.370**	.000
Knowledge toward change and creativity		.070	.491	.020	.849	.353**	.000	.370**	.000	1	----
Attitude toward change	Post program	1	--	.211*	.037	.548**	.000	.335**	.001	.062	.542
Creativity level		.211*	.037	1	----	.220*	.030	.120	.240	.038	.707
Performance		.548**	.000	.220	.030*	1	----	.265**	.008	.082	.423
Attitude toward creativity		.335**	.001	.120	.240	.265**	.008	1	----	.016	.875
Knowledge toward change and creativity		.062	.542	.038	.707	.082	.423	.016	.875	1	----
Attitude toward change	Follow up	1	----	-.102	.320	-.307**	.002	.109	.286	.166	.103
Creativity level		.102	.320	1	----	.254*	.012	.082	.424	.103	.314
Performance		.307**	.002	.254*	.012	1	----	.177	.081	.419**	.000
Attitude toward creativity		.109	.286	.082	.424	.177	.081	1	----	.607**	.000
Knowledge toward change and creativity		.166	.103	.103	.314	.419**	.000	.607**	.000	1	----

** Correlation is significant at the 0.01 level (2-tailed).

*Correlation is significant at the 0.05 level (2-tailed).

Discussion

The purpose of study to assess enhances creativity and change of nursing management staff and it's influencing on their performance at Benha University Hospital. The results of the present study covered the main areas following:

I: Personal characteristics of nursing management staff:-

From personal characteristics of nursing management staff included in the study setting; Regarding to age about more than two fifth were aged 45- < 55 years old and minority were aged 55- < 57 years. These findings were in similarity with Saleh, et al., (2013), who revealed in their study on nurses leaders in Assiut University Hospital that more than half were aged >30 years. This result in disagreement with Aly, et al., (2016), who revealed in his study on head nurses in Critical Care Units in Alexandria University Hospitals that minority were aged 55- < 57 years.

As regarding to sex, the majority of them were female, less than three quarters of them were married and the minority of them were single. These finding followed the same line of Wang, et al., (2016), who revealed in their study of head nurses in nursing units of two hospitals in Taiwan that majority of them were female. This result in disagreement with Al Shehri , et al., (2013) who found in their study of health managers in health sector of Saudi Arabia that more than fifth of them were male.

As for the educational qualification, more than two thirds of studied sample have bachelor of nursing. And the minority of them was post graduate nursing education. These findings were in similarity with Al sayaydeh, (2015) who revealed in their study of leaders of the Intermediate Colleges of Balqa Applied University, European that more than two thirds of them had bachelor of nursing. This result inconsistent with AL-Jazaery, and Khaleel, (2016), who revealed in their study on head nurses that minority of them nursing college graduate.

With respect to years of experience more than two fifth of them had 15-< 30 years, and minority of them had less than 5 years of experience , These finding were in similarity with Saleh, et al., (2013), who revealed in their study that more than third of them had 15-< 30 years. This result in disagreement with Al sayaydeh , (2015), who found in their study of leaders more than third of them have less than 5 years of experience.

II: Nursing management staff knowledge about creativity and change in their work:-

The present study shows that, a highly significant improvement in level of knowledge of the studied nursing management staff about change and creativity throughout post and follow up more than preprogram phase. These findings were similar to some Egyptian studies such as Rashed, (2017), who

reported in his study that a statistical significant difference was observed between their knowledge mean scores obtained in the pre- test and post-test and follow up. This result disagreed with Abd El-Aziz, (2009), who reported that there was no statistically significance difference in relation to all items of knowledge about conflict and its resolution strategies which is essential to apply creativity and change at work In addition to the head nurses with experience 20 years had better knowledge than head nurses who have less than 10 years of experience.

From the researcher point of view , this improvement in the knowledge of the nursing management staff could have attributed to utilizing creative teaching approaches that facilitated the interactions and collaboration in the learning process, However, increasing knowledge acquired by nursing management staff could be explained by the fact that learning provided a passive experience and courses created an interactive environment. In addition, the several cycles of repetition created a truly dynamic interactive educational sessions.

III: Nursing management staff actual performance toward creativity and change at their work thorough program:-

The current study revealed that, there was a highly statistical significant improvement in the level of performance of studied nursing management staff in relation to change and creativity throughout post and follow up more than preprogram phase, These findings were similar to El-Shahat, (2014), who found that there were a highly significant differences related to clinical supervision performance assigned by the head nurses and their assistants throughout the three phases of the program; pre, immediate post program, and follow up after three months.

From researcher point of view that it is important for nursing management staff to develop effective open communication between nurses that a major factor that influences job satisfaction. It is the most important skill in leadership, decision- making, problem- solving, team-work, training, members` involvement and empowerment, and all other areas of concern to modern management that motivate them to be creative and apply creativity and change at work place.

IV: Nursing management staff attitude toward creativity and change at work thorough program:-

The current study revealed that there was a highly statistical significant improvement in the attitude of the studied nursing management staff toward creativity. Majority of them had highly positive attitude at post program and follow up phase of the study. This result is in agreement with Aburuman, (2016), who elaborated in his study on workers of Jordanian Public Administration Institute that there is significance difference level in the workers' tendencies towards creativity improvement.

Moreover, this improvement in attitude toward creativity and change may be due to head nurses feeling that, administrative staff are a friend to them, they look to satisfy nurses, and follow the work of others, also may be due to that, nursing management staff put their concentration on work and first priority for their was to achieve efficiency of work and take care of the staff.

VI: Nursing management staff level of creativity at work thorough program:-

The current study shows there was a highly statistical significant improvement in the level of creativity of studied nursing management staff throughout post and follow up phases after three months of program from the preprogram phase. This result was in agreement with Panatik, et al., (2016), who revealed in their study that the level of creativity was high among research officers in Malaysia post program application.

This result were inconsistent with Ali, and Elhakem, (2015), who elaborated in their study on managers on Sudanese institutions that the office executive managers of various departments had high level of creativity.

VII: Correlations among studied variables of creativity and change of studied nursing management staff:-

The findings of the study revealed that there was positive statistical significant correlation between total knowledge scores with total performance scores and attitude toward creativity of the studied nursing management staff at preprogram and follow up phase of the study. This finding is supported by Khosa, et al., (2015) and Rogers, (2014).

In researcher opinion, relation nursing management staff ' knowledge and performance could occur when improvement in knowledge resulted in utilizing creative and attractive teaching approaches and use of educational strategies that can facilitate the interactions , collaboration and discussion in the learning process and this might have effect on increased performance for the nursing management staff.

Conclusion

The present study concluded that the training program was effective i.e. There was an improving in the level of knowledge, the level of performance, the attitude toward creativity and change, the level of creativity of studied nursing management staff throughout post and follow up from the preprogram phase.

Recommendations

For hospital Administration:

1. Demonstrate a strong orientation toward creativity and change, which is clearly

communicated and enacted, from the highest levels of management, throughout the hospital.

2. Make use of technology that influence employee's performance as information system since it simplifies the work to be done and also making work more efficient.
3. Putting an effective system of financial and incorporeal incentives for the employees.

For nursing management staff:

1. Conducting continuous training programs for nursing staff must be developed to educate staff on change management and how to apply creativity at workplace.
2. Match people's skills, interests and personality to the right job, so that each employee can make the most of his/her expertise, thereby stimulating intrinsic motivation and diminish role ambiguity, consequently increasing creativity.
3. Provide managers with adequate resources to carry out the work, and at least minimally sufficient time to consider alternative approaches.

For further researchers:

1. Reapplication of the study on a larger probability sample in other settings is highly recommended to achieve generalizable results.

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