## Relationships between Role Stressors and Nurses Organizati Citizenship Behavior: The Mediating Impact of Affective Commitment

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#### **ABSTRACT**

This study aims to investigate the relationships between role stressors (role conflict and role am organizational citizenship behavior (OCB) and affective commitment among rural nurses. It also explores affective commitment mediates the relationship between role stressors and OCB. Survey research method was e in this study, and data was collected using a questionnaire. Based on random sampling, 301 nurses were chosen rural health units located in Kotor district, Algharbea governorate, Egypt. To analyze the data descriptive s Hierarchical Multiple Regression Analysis, along with Baron & Kenny's (1986) four-step procedures was also co The results show role stressors have a negative influence on nurses' OCB and affective commitment. Role sexplained 13.8% of the variation in OCB, while it explained 25.3% of the variation in affective commitment murses. Moreover, affective commitment mediated the impact of role stressors on OCB. Conclusions, role stressor nurses' OCB and affective commitment. Therefore, Managers of nursing services should consider role stressor negative influence on nurses' outcomes in order to improve their performance.

Key words: OCB, Role Conflict, Role Ambiguity, Affective Commitment, Rural Health Unit.

#### INTRODUCTION

In the recent decades, a major concern of all organizations is to motivate employees to cooperate for organizational effectiveness. Therefore, organizations want employees, who will do those things that are not in any job description. Bolin and Turnkey (2005) pointed out that today "the ideal worker is an employee, who not only demonstrates high levels of task performance, but also engages in high levels of contextual performance or OCB.

Research has shown that organizational effectiveness is enhanced when individual workers volunteer and go beyond their role requirements to perform activities that benefit the organization or colleagues (Podsakoff, Ahearne, & MacKenzie, 1997). Such actions, known as Organizational Citizenship Behaviors (OCB) are exemplified by actions such as helping co-workers or performing extra-job activities (Organ, 1988; 1994). According to Podsakoff, MacKenzie, Paine, and Bachrach (2000), understanding the concept of organizational citizenship behavior and its related factors can help human resources managers in organizations to assess what kind of environment they should provide to their employees, and also what motivates and satisfies them.

On the other hand, stress at workplace has attained growing concern for researchers and practitioners. Empirical Research has shown that individuals, who report high levels of stressors,

report less OCB (Spector & Fox, 2002 stressors, particularly ambiguity and confl likely to be viewed as hindrance for empability to attain personal and professional work (LePine, Podsako and LePine, 2005) and Ambreen (2011) affirm that most reseigob stress has focused on determinants rath outcomes (e.g., organizational citizenship be Concurrently, few empirical studies exam relationship between occupational stressorganizational citizenship behavior (OCB). I OCB has become a major research topic in decade, the lack of research associated w stress and OCB is surprising.

Organizational commitment was found very important organizational variable defir success of an organization in many ways. Th et al (2004) and Chaitanya & Tripathi showed strong association between the subs-Organizational Commitment and Organi Citizenship Behavior. Mathieu and Zajac have argued that organizational comprotects the individual from negative or experienced at work, such as, stress, either those individuals, who are committed organization have connected more closely individuals at work, or because they find the meaningful and interesting. Occupational exists in all professions. But nursing appear particularly stressful. Al-Hawajreh (2011) ir that nursing is generally perceived as a stress demanding profession. Indeed as reported by Tyson and Pongruengphant (2004), nurses working in public hospitals generally experience more stress than those in private hospitals.

The review of the literature indicates that most research of OCB has focused on employees in private sector, while public sector has received little attention. Also, little OCB research has been done in the Egyptian rural context. Some scholars (e.g., Li, 2013; Rasheed, Jehanzeb, and Rasheed, 2013) have noted that most OCB research comes from the United States and Most of the studies have been conducted in North America, but the dimension of OCB has acknowledged relatively incomplete attention in other frameworks. Podsakoff et al. (2000) have argued that research on OCB dimension in other cultural context is important because cultural background may affect the kinds of citizenship behavior, which are observed in an organization.

Empirical study reported that nurses in public hospitals are working under high job stress and Citizenship behavior is more important in hospitals because patients, who need special care in positive display of behaviors by nurses with patients, have an important role in strengthening their morale and betterment. So these Questions exist: Is there a relationship between nurses' perception of role stressors and their OCB in Egyptian rural health units (RHU)? And whether affective commitment mediates the relationship between role stressors and OCB? Therefore, the general objective of this research is to examine the relationship between role stressors, affective commitment and organizational citizenship behavior (OCB), among nurses in rural health units in kotor district, Egypt.

# Theoretical Background and Hypotheses OCB: Concept, Dimensions and Importance

The organizational citizenship behavior concept was first observed in the works of Bateman & Organ (1983) and Smith, Organ & Near (1983), who established the term 'Organizational Citizenship Behavior'. Organ (1988) provided an expanded review of OCB and defined it as: "Individual behavior that is discretionary, not directly or explicitly recognized by the formal reward system and that in the aggregate promotes the effective functioning of the organization". In the viewpoint of some scholars, Organizational citizenship behavior has been defined as a multi-dimensional concept that includes all positive organizationally relevant behaviors of organizational members including traditions in role behaviors, organizationally pertinent extra-role behaviors, and political behaviors, such as, full and responsible organizational participation (Van Dyne, Graham, and Dienesch, 1994). Ahmed, Rasheed, and Jehanzeb (2012) indicated that OCB can be described as an extra role and behaviors, such as, teamwork with employees, approachi workplace earlier and leaving late, helpin employees, using organizational possession care and disseminating positivity in organizat

Despite a growing interest in citi behavior, review of the literature in this area lack of consensus about various dimensions construct. Podsakoff et al. (2000) pointed to literature indicated almost 30 potentially d forms of citizenship behavior, which hav identified. In a review of the research, Organ identified five distinct dimensions of OCB: A (helping specific others); civic virtue (keel with important matters within the organi conscientiousness (compliance with courtesy (consulting others before taking and sportsmanship (not complaining about matters). However, Organ (1997) further cl the OCB dimensions into three parts: 1 courtesy and conscientiousness. A different the dimensionality of OCB came from Willia Anderson (1991), who divided OCB into two (1) behaviors directed at specific individual organization, such as courtesy and altruism ( and (2) behaviors concerned with benefit organization as a whole, such as, consciention sportsmanship and civic virtue (OCBO). (2010) indicated that certain researchers ch examine citizenship as a whole. There distinction between subscales of OCB.

OCB is important for organizations. Po et al. (2000) found seven ways, in whic might have an impact on workgrou organizational performance: improves maproductivity; enhances coworkers' productive pureduces the need to devote scarce resou purely maintain functions; improves coordamong workgroups to attract and retain the people; stabilizes organizational performantacilitates adaptation to environmental change

There are major groups of antecedents of that have been emphasized in studies of d researchers. Jahangir, Akbar and Haq introduced seven categories of antecedents ( which were to some extent the same as p studies, as follows: Job satisfaction organizational commitment; Role perc Leadership behaviors and LMX: 1 perceptions; Individual depositions; Moti theories; and Employee age. Meanwhile, Li indicated that although the different forms determinants of OCB vary a little; their ante are traditionally classified into three according to the literature. These three gro situational factors, dispositional characterist personal attitudes. Among the numerous ante of OCB, only two variables were investigated study namely role stressors and a commitment. Although there are other antecedents of OCB, they will not be included in this study due to the fact that they are out of the scope of it.

#### **OCB** and Role Stressors

According to classical theory, every position in a structured organization should have a specified set of tasks or position responsibilities, and role ambiguity that reflects the degree of employees' uncertainty regarding appropriate actions in performing job functions (Miles, 1976(. Due to uncertain role expectation, employees hesitate to make decisions and will have to meet the expectations by the trial and error process, role conflict and role ambiguities, which were the two major components of job-related role stresses (Rizzo Rizzo, House, & Lirtzman, 1970). Idris (2011) indicated that role stressor can be defined as the pressure experienced by an individual as a result of organizational and job-specific factors in the form of demands and constraints that have been placed on

Researchers agree that role stressors are made up of three separate but related constructs: role overload, role ambiguity and role conflict (Peiro et al., 2001). Rizzo et al. (1970) define role conflict as the incompatibility of requirements and expectations from the role, where compatibility is judged based on a set of conditions that impact role performance, while role ambiguity occurs when individuals lack a clear definition of their role expectations and the requirements/ methods to complete their job tasks. According to Spector (1997), "role conflict exists when people experience incompatible demands about their functions and responsibilities" and role ambiguity is the degree of certainty the employee has about what his or her functions and responsibilities are". Burke (1988 in Lu et al., 2003) grouped job stressors into the following six categories: physical environment, role stressors, organizational structure and job characteristics, relationships with others, career development, and work-family conflict.

Several reasons have been posited as to why role stressors relate to OCB. Social exchange theory has been utilized to explain how various factors including stressors affect behaviors at workplace. Social exchange theory posits that people will reciprocate the 'good' done to them. In contrast, when people feel that the rules of social exchange between the employee and the organization are not held, they react to restore the balance between their inputs and the outcomes they receive. Therefore, when an organization does not engage in proper social exchange (i.e., violations of psychological contract), individuals will feel less responsible to engage in productive behaviors to help the organization and its members (low OCB) and may respond by engaging in destructive behaviors (Rodopman, 2006). Also, role theory suggests that people generally seek to behave in ways to consistent with the way their roles are of Organizational stress may produce negative on OCBs as OCBs are extra-role below Moreover, organizational stress may constraints of resources (time, energy, et might lead to an employee not focusing on a of extra-role behaviors. Employees miginvolve in OCBs to save their time, energy, other important commitments, which may be of their in-role behavior (Jain and cooper, 20)

A few studies have examined the relat between occupational stress and OCB by pr different findings. Role conflict and role am have been found to be negatively related to On the other hand, role clarity and role fac are positively related (Podsakoff et al., 2000 and Ibrahim (1998) compared the anteced OCB in the United States, Egypt, and Saudi Their results indicated that work-related predicted OCB in all samples. Bolino and (2005) reported a positive relationship b perceived stressful work and OCB. Paillé found no relationship between stressful we OCB. Zamir and Ambreen (2011) found a r correlation between occupational stress and Jain and cooper (2012) study found organi stress had significant negative impact on Rasheed et al. (2013) study found relationship between the Role perception (the of clarity) and OCB.

#### Affective Commitment and OCB

The interest of commitment comes fr idea that employee, who experiences organizational commitment engages in beneficial behaviors to organization, st citizenship activities. The impact of organi commitment on individual performanc organizational effectiveness has received attention from researchers (Allen and Meyer Beck and Wilson, 2000). Allen and Meyer defined organizational commitment, a psychological link between the employee : organization that makes it less likely employee to want to leave voluntarily. (2002) defined organizational commitm personnel's attachment to or identification w organization. Meyer and Allen (1991) ex three components of organizational comn Affective commitment, continuance comm and normative commitment. Affective commitment refers to a strong belief and acceptance organization's goals and values; cont commitment refers to the willingness to considerable effort on behalf of an organizati normative commitment refers to a strong d maintain membership in an organization.

Affective commitment is considered effective measure of organizational commitment is considered effective measure of organizational commitment.

since it indirectly influences the other two dimensions of organizational commitment (Boles et al., 2007) and is more consistent with the conceptual and operational definition of attitudes (Iverson and Buttigieg, 1999). Research also provides evidence that, there is high correlation between affective and normative commitment (Meyer et al., 2002). Therefore, this study has focused on this aspect of commitment in Allen and Meyer's three-dimensional commitment model.

Social exchange theory is suggested to explain the nature of the relationship between organizational commitment and OCB. Employees evaluate the quality of the social exchange and respond accordingly. Employees, who experience positive exchanges with the organization, job or the work group, reciprocate with higher levels of commitment, both affective and normative, and this moves them to contribute to the organization in other ways, such as, better performance (Cohen, 2003). Meyer and Allen (1997) suggested that employees with strong commitment are more likely to engage in OCB than those with weak commitment. The meta-analysis of Riketta (2008) that investigated whether job attitudes (i.e., job satisfaction and affective organizational commitment) cause performance found that affective organizational commitment has a weak but significant effect on performance (OCB). Kwantes (2003) examining the relationship between three component model of Allen and Meyer (1990) and OCB within samples from India and USA, found that affective commitment significantly predicted OCBs. Becker and Kernan (2003) also provided support for the positive effect of affective commitment on certain dimensions of OCB. Wasti (2002) supported that affective commitment is significantly and positively related to OCB. Van Scotter (2000) also found significant relationship between OCB and affective commitment. Rasheed et al. (2013) study found positive relationship between job satisfaction and organizational commitment and OCB.

#### **Role Stressors and Affective Commitment**

The relationship between role stressors and affective commitment has been examined by many researchers. Wasti (2005), Karsh, Booske, and sainfort (2005), and Piko (2006) found that role ambiguity, role conflict, and organizational climate were antecedents to all dimensions of organizational commitment. When role ambiguity and role conflict were present, all dimensions of organizational commitment were lower. Gormley and Kennerly (2010) found that role ambiguity and role conflict influenced all dimensions of organizational commitment negatively. Yousef (2002) found in his study in the United Arab Emirates role ambiguity directly and negatively influences both affective and normative commitments. Relationship was present

between role ambiguity and role confliaffective and continuance organi commitment. Zakari (2011) found the faculty faced role ambiguity and role con addition, Role ambiguity among facult negatively correlated to continuance and no commitment, while role conflict correlated commitment dimensions. In addition, Al-Ha (2011) found that organizational commits negatively correlated to occupational stress. Study of Asadi, and Hamidi (2009) indinegative significant relationship between jo and organizational commitment, commitment and normative commitment, by was not a significant relationship between jo and continuance commitment.

However, since both role ambiguity a conflict are known to affect employee a commitment, whereas affective commitn related to OCB, it is likely that at least a po relationship between ambiguity, conflict and mediated by affective commitment.

Based on the discussion of literatu following hypotheses were formulated presented in alternative format:

- H1: Role stressors (role conflict and role am have negative and significant imp affective commitment.
- H2: Role conflict has negative and sig impact on organizational citizenship beh
- H3: Role ambiguity has negative and sig impact on organizational citizenship beh
- H4: Affective commitment has positive significant impact on organizational cities behavior.

H5a: Relationship between role conflict and mediated by affective commitment.

H5b: Relationship between role ambiguity ar is mediated by affective commitment.

#### Research Methods

A quantitative research design was add collect data and test hypotheses. A survey 1 method was used to conduct this study.

### **Population and Procedures**

The targeted population for this study of nurses in the rural health units under the u of the Egyptian Ministry of Health, Speci Kotor district, Algharbea governorate. Accor statistics of Health and Population Depart Qutour district (2014), the number of nurse work in rural health units in 30 villages' di (369) nurses. Three Hundred and sixt questionnaires were distributed. Out of t questionnaires distributed, 301 were returesponse rate of 81.6 percent.

### MEASURES

On the basis of previous research, demo variable (e.g., gender, level of education experience) as control variables were meas

single items and controlled for. Two role stressors were included in this study. Individuals were presented with a five-point Likert scale of agreement or disagreement with each item. First, Role conflict was measured by an 8 items scale (alpha=.72) developed by Rizzo et al. (1970). Respondents indicated how true each item was of their work situation. Second, Role ambiguity was assessed by a six-item scale also developed by Rizzo et al. (1970). Affective commitment was measured by a 6 item from Meyer and Allen (1991) scale. Organizational citizenship behavior was assessed using 18-items scale originally developed by organ (1988) with a 5-point Likert type scale ranging from 1 (strongly disagree) to 5 (strongly agree).

To examine the content validity of the questionnaire, it was given to a group of experts in public administration, rural sociology, research methodology and statistics. To measure its reliability, Chronbach Alpha was used for the research variables. As can be seen from Table 1 the Cronbach's Alpha for each of the variables was higher than the conventional standard value (0.70), therefore it reflects sufficient internal consistency reliability coefficients for all the research variables that are greater than 0.70 (Nunnally, 1978).

#### **Data Analysis**

The data was analyzed using SPSS 20.0. The research hypotheses 1, 2, 3 and 4 were tested using a Hierarchical Multiple Regression Analysis. Previous studies have found that age, Job experience, and Educational level are significantly related to affective commitment and organizational citizenship behavior (Al-Aamiri, 2002; Miao& Kim, 2010). Therefore, the researcher controlled for these variables in the analysis to ensure that their effects were taken into consideration. R2,  $\Delta$ R2 and standardized regression coefficients  $\beta$  were examined at each step. To test mediation in Hypothesis 4, the three-equation approach recommended by Baron and Kenny (1986) was used.

Before the implementation of linear regression analysis, it should ensure the availability of certain conditions. Normality and homoscedasticity are usually assumed with a sufficiently large sample size like our case here (301 cases). Linearity, however, was checked by investigating the correlation coefficients between variables as indicators reflecting the nature of their linear relationship and showed fairly linear relationships. Results from the co-linearity diagnostics showed that there was no bivariate correlation above 0.75 between independent variables, suggesting that there are no serious cases of Multi-co linearity. Thus, this means that all the assumptions of multiple regression analysis seen to have been fulfilled.

#### RESULTS

#### **Results of Descriptive Statistical Analysis**

Table 1 shows the Means, standard dev internal consistency reliabilities (Cronbach's and the correlations of the study variables. A be seen, the levels of all variables were mod high according to sample means of the va Means scores were all above the mid-point o point scale, except for role Ambiguity, ar standard deviations were distributed witl interval 0 -1. A closer look at the table sho the respondents perceived a moderate level conflict (M = 3.06, SD = .68) somewhat relatively low level of role ambiguity (M = 1 = .66) in their workplaces. The respondents 1 a higher level affective commitment (M = 3)= .75). Furthermore, the respondents report t level of organizational citizenship behavior 4.07, SD = .39).

#### Correlations

The correlation matrix, shown in Table analyzed for evidence of intercorrelation multicollinearity among variables. Table 1 there were many significant correlations am variables in this study. The role stressors dim were positively related among themselves, ( p < .01). However, this correlation was s nature, indicating that these two role stress distinct constructs. Both role conflict at ambiguity were negatively related to organi citizenship behavior (r = -.169; r = -.361, rrespectively. Both role conflict and role an were negatively related to affective commit = -.302; r = -.354, p < .01) respectively. As seen in the table, affective commitmen positively related to OCB (r = .67, p < .01correlation indicate that the more a commitment, the better organizational citi behavior.

#### **Hypotheses Testing**

Hypothesis 1 proposed that "Role s (role conflict and role ambiguity) have negat significant impact on affective committeerarchical regression analysis was conduct two steps. In the first step affective commitwes regressed on the control variables.

As shown in Table 2, the R2for th control variables was .063.Explaining 6.3% variance in affective commitment and the e job experience was significant (F= 6.62, P < In step 2, after controlling for these variables, the role stressors (role conflict a ambiguity) in combination were significan negatively impact on affective commitme 27.18, P < 0.001). Role stressors Explai additional (25.5%) of variance in a commitment ( $\Delta$ R2=0.255) and All beta significant; thus hypothesis 1 was supported.

Table 1: Mean standard deviation, Cronbach's Alpha and Correlation analysis between revariables

variables										
variables	No. Items	M	SD	1	2	3	4	5	6	7
1- OCB	18	4.07	.39	(.858)						
2- Role conflict	8	3.06	.68	- .169**	(.809)					
3- Role Ambiguity	5	1.86	.66	.361**	.331**	(.810)				
4-Affective		1.00	.00	.301	-	(.010)				
commitment	5	3.78	.75	.671**	.302**	.354**	(.851)			
5- Age	-	34.6	5.19	.274**	.277**	137*	.204**	-		
6- Job experience	-	14.3	4.40	.195**	.279**	129*	.245**	.768**	-	-
7-Educational level	-	12.7	3.65	131*	056	.127*	088	091	- .190**	_

Figures in parentheses reflect the coefficient of Cronbach's Alpha Notes:\*P<0.05:\*\*P<0.01

Table 2: Results of Hierarchical Regression Analysis for Effect of Role Stressors dimensi Affective Commitment after Controlling for Control Variables

variables	β	$\mathbb{R}^2$	Adj. R <sup>2</sup>	F	$\Delta R^2$	F for $\Delta R^2$
Step 1		0.063	0.053	6.62***	0.063	6.62**
Age	.046					
Job experience	.201*					
Educational level	046					•
Step 2		0.315	0.304	27.18***	0.253	54.4***
Age	.074					
Job experience	.256**					
Educational level	015					•
Role conflict	405***					•
Role ambiguity	321**					

Notes:\*P<0.05;\*\*P<0.01; \*\*\*P<0.001

The results of hierarchical regression analysis to examine the hypotheses about the antecedents of OCB are presented in Table 3. The control variables (age, job experience, and education level) were entered in the first step. The independent variables of role conflict were entered in the second step, role ambiguity was entered in the third step, and finally the affective commitment was entered in the fourth step. Hypotheses 2–4 predicted that the role conflict and role ambiguity would negatively impact on OCB, and that the affective commitment would positively impact on OCB.

In the first step OCB was regressed on the control variables. As shown in Table 3, the control variables explained only 8.9 % of the variance in OCB and the effects of age and Educational level were significant (F= 9.64, P < 0.001,  $R^2$ = .089). As the results of the second step in Table 3 show, nurses' role conflict was imposed negative on their OCB ( $\beta$ = -.231, p < .001); thus Hypothesis 2 was supported. The results of the third step indicated that role ambiguity imposed negative impact on OCB ( $\beta$ = -.377, p < .001); accordingly. Hypothesis 3 was supported. The fourth step shown in Table 3 indicates that nurses' affective commitment

imposed positive impact on their OCB ( $\beta = 4$ .001); therefore, hypothesis 4 was supporte standardized regression coefficients \$\beta\$ in the step also showed that affective commitment strongest predictor for OCB. The resul suggested that the model as a whale account significant amount of the variance associate OCB,  $R^2 = .430$ , F = 36.99, p < .001. In addit % of the remaining variance in OCB was ex by role conflict after controlling the v accounted for by the controlled variables; 13 the remaining variance in OCB was explain role ambiguity after controlling the v accounted for by both the controlled variab role conflict; and 15.5 % of the remaining v in OCB was explained by affective comi after controlling the variance accounted controlled variables, role conflict, an ambiguity.

In order to test the mediation for a commitment in the relationship betwee stressors (role conflict and role ambiguit organizational citizenship behavior (H5a and the researcher followed Baron and Kenny's four-step procedures. Baron and Kenny (1986)

Table 3: Results of Hierarchical Regression Analysis Predicting the Effects of Role St dimensions and Affective Commitment on OCB after Controlling for Control Variables

variables	Step 1	Step 2	Step 3	Step 4
Age	.32***	.356***	.314***	0.279***
Job experience	073	037	047	-0.169*
Educational level	116*	118*	076	-0.069
Role conflict		231***	226***	-0.033
Role ambiguity			377***	-0.224***
Affective commitment				0.476***
R <sup>2</sup>	0.089	.137	.275	.430
Adj. R²	0.080	.126	.263	.419
F	9.64***	11.78***	22.38***	36.99***
$\Delta R^2$	-	.049	.138	.155
F for $\Delta$ R <sup>2</sup>	9.64***	16.67***	56.02***	80.05***

Notes:\*P<0.05;\*\*P<0.01; \*\*\*P<0.001.

stated that there are three conditions to test mediation. First, the independent variable role stressors (role conflict and role ambiguity) must affect the mediator (affective commitment) H1 in this study; second, the independent variable must affect the dependent variable (organizational citizenship behavior) H2 and H3 in this study; and third, the mediator must affect the dependent variable, H4 in this study. All these preconditions were satisfied as proven in tables 2 and 3. Regarding complete and partial Mediation, Baron and Kenny (1986) suggested that perfect or full mediation occurs when the independent variable (role conflict and role ambiguity) became insignificant and had no effect over the dependent variable (organizational citizenship behaviors) after the mediator (affective commitment) was included in the model. However, when the effect of independent variable on dependent variable with the inclusion of moderator variable is reduced in magnitude, but remains significant, there is evidence for partial mediation, and makes sense that partial mediation is perhaps more realistic than complete mediation in social sciences research because of many causes of behavior.

To test the mediation model for H5a, as can be seen in table 3, In the step 4, according to the standardized coefficients, affective commitment significantly contributed to the prediction of OCB, whereas the effect of role conflict on OCB is reduced and became no significant ( $\beta$  = -.033 in step 4 is less than  $\beta$  = -.226 in step 3). In line with Baron and Kenny (1986) suggestion, the results indicated that affective commitment perfectly mediates the relationship between role conflict and organizational citizenship behavior. Therefore, H5a was supported.

To test the mediation model for H5b, as can be seen in table 3, In the step 4, according to the standardized coefficients, affective commitment significantly contributed to the prediction of OCB, whereas the effect of role ambiguity on OCB is reduced but significant ( $\beta = -.224$  in step 4 is less

than  $\beta = -.377$  in step 3). In line with Bai Kenny (1986) suggestion, the results indica affective commitment was not a full mediate model. In order to find out whether a commitment caused a significant decrease prediction ability of role ambiguity a SOB needed. The http://quantpsy.org/sobel/sobel.htm, was be to do the calculation. The calculation nece the not standardized regression coefficient association between role ambiguity and a commitment, the standard error of the relat between the independent variable and a commitment. non-standardized coefficient for the association between the a commitment and OCB, and the standard erro relationship between affective commitme OCB. The values are -.389, .059, .237 respectively. The result of the Sobel test (t: p<.001) revealed that affective com partially mediated the relationship between ambiguity and OCB.

### DISCUSSION AND CONCLUSIO

The purpose of current study was to preceding gap in the literature by introduc first empirical investigation of the relat among role stress (role conflict and role aml on organizational citizenship behavior affective commitment in an Egyptian rural units to get a better understanding of its appli and utilization in a non-western culture of Pearson correlation and hierarchal reganalysis provides unique insight result research findings have important conclusic implications.

One of the major findings of this study is positive and significant relationship exists the affective commitment and OCB among numerical health units in Egypt. This result suppostudies that emphasize the importance of a commitment as one of the factors influencing., Meyr and Allen, 1997; Kwantes, 2003

2002). These results suggest that those nurses, who are hold relatively more commitment to their organization, are more willing to engage in OCB activities. This positive relationship between affective commitment and OCB would benefit in management because they should make every effort to improve nurses' commitment for their organizations to enhance their OCB. These findings advocate Beukhof, de Jong & Nijhof (1998) declaring that success rate of organizations is also determined by how organizations stimulate commitment upon the organization itself. By stimulating organizational commitment effectively, employees' psychological bond to the organization becomes stronger and incurs strong encouragement to indicate positive OCB behavior. On the other hand, these findings rebut Van Dyne & Ang (1998) theory declaring that the relationship of organizational commitment to OCB is not significant. In addition, Shore & Wayne (1993) theory declares that organizational commitment relationship to OCB is negative. These findings show that organizational commitment positively relates to OCB. The phenomenon shows that amelioration of organizational commitment variable will be able to bring positive effect on OCB variable.

In addition, the findings of this study show that role conflict and role ambiguity as source of stress are statistically significant predictors of commitment among nurses in rural health units in Egypt, suggesting that those who have higher levels of role ambiguity and role conflict are more likely to be less committed to the organization. This explanation depends on the cause-and-effect relationship, which arguably, makes sense in terms of managing human resources in organizations. This would have negative consequences for both employees and organizations. These results consistent with Yousef (2002) findings also suggest that role stressors are negatively associated with organizational commitment among employees in various organizations in the United Arab Emirates.

As hypothesized, the findings provided support for hypotheses, which indicated that there were significant mediation of affective commitment on relationship between role stressors (role ambiguity and role conflict) and organization citizenship behavior. These findings suggest that those nurses who perceive high levels of role ambiguity and role conflict are less commitment with the Organization and consequently are less willing to engagement in the OCB activities.

The major finding of this research is that role ambiguity and role conflict as sources of stress negatively influence OCB directly and indirectly via affective commitment. Low perceptions of role ambiguity and role conflict would most likely result in low role stress and that in turn will have positive

consequences for both employees and organi Therefore, Managers of nursing services consider role stressors and its negative influnurses' OCB in order to improve their perfe and subsequently the healthcare system.

#### Limitations and Suggestions for Future Re

The present study is not without limi Firstly, the data were collected from a district of Egypt, which might redugeneralization factor. Secondly, the investigated the effects of role stressors name ambiguity and role conflict as sources of str in turn excluded other role stressors, such overload, role stagnation, and role erosio investigation. Future researchers should longitudinal study with some other variab normative commitment, job satisfactio employee's turnover intentions. The study also be replicated on other districts and rura units in rural areas in Egypt for enhance generalization factor. Comparison between and other staff would be of interest. Fin comparison between nurses of public and sector would also be worthwhile.

#### 1- Yield/ vine:

Data in Table (1) clearly show that s clusters of Early sweet grapevines with GA3-40 ppm or Sitofex at 2.5 to 10 ppm was signi effective in improving the yield relative to th treatment. The promotion on the yiel accompanied with increasing concentrationsplant growth regulator. Using GA3 at 10 to significantly preferable than using Sitofex a 10 ppm in improving the yield. A slig unsignificant promotion on the yield was at to increasing concentrations of GA<sub>3</sub> from 2 ppm and Sitofex from 5 to 10 ppm. The ma yield was produced on the vines that receive spray of GA<sub>3</sub> at 40 ppm but the best treatme economical point of view was the applica GA<sub>3</sub> at 20 ppm (since no measurable promo the yield was recorded between 20 and 40 GA<sub>3</sub>). Under such promised treatment, yiel reached 13.6 and 14.0 kg during both respectively. The control vines produced 9.1 kg during 2013 and 2014 seasons, respective percentage of increase on the vield application of GA<sub>3</sub> at 20 ppm over the treatment reached 49.5 and 45.8 % during seasons, respectively. The beneficial effects on the yield might be attributed to their action on increasing cluster weight. The proeffects of GA3 on the yield was supported results of Dimovska et al., (2011) and Abu and Salameh (2012) on different grapevine c The results regarding the beneficial eff Sitofex on enhancing the yield are in harmo those obtained by Juan et al. (2009); Abdel et al., (2010) and Al Obeed (2011).

#### 2- Harvesting date:

It is clear from the data in Table (1) that all GA<sub>3</sub>. and Sitofex treatments had significantly delayed on the harvesting date of Early Sweet grapevines rather than the control treatment. The degree of delayness on harvesting date was correlated to the increase of the concentrations of both GA3 and Sitofex. Using GA<sub>3</sub> significantly delayed harvesting date comparing with using Sitofex. Increasing concentrations of GA<sub>3</sub> from 20 to 40 ppm and Sitofex form 5 to 10 ppm failed to show significant delay on harvesting date. A considerable advancement on harvesting date was observed on untreated vines the great delay on harvesting date was observed on the vines that received GA<sub>3</sub> at 40 ppm during both seasons. GA3 and Sitofex were shown by many authors to retard the release of ethylene and the disappearance of pigments such as ehlorophylls and carotenoids and onest of maturity start. Also they were responsible for prolonging prematurity stages Nickell (1985). These results regarding the delaying effect of GA3 and Sitofex on harvesting date were in harmony with those obtained by Wassel et al., (2007), Kassem et al. (2011), Abu Zahra and Salameh (2012) and Refaat et al. (2012).

### 3-Cluster weight and dimensions:

It is evident from the data in Table (1) that treating clusters with GA<sub>2</sub> at 10 to 40 ppm or Sitofex at 2.5 to 10 ppm was significantly accompanied with enhancing weight, length and width of cluster relative to the control treatment.

The promotion was significantly associated with increasing concentrations of GA3 and Sitofex. Using GA3 was significantly favourable than using Sitofex in this respect. The maximum values were recorded on the vines that received one spray of GA3 at 40 ppm. Meaningless promotion was detected with increasing concentrations of GA<sub>2</sub> from 20 to 40 ppm and Sitofex from 5 to 10 ppm. The untreated vines produced the minimum values during both seasons. The positive action of GA3 on cluster weight and dimensions might be attributed to its essential role on stimulating cell division and enlargement of cells, the water absorption and the biosynthesis of proteins which will lead to increase berry weight. Dimovska et al., (2011); Abu Zahra and Salameh, (2012) and Dimovska et al., (2014).

The previous essential role of CPPU on cluster weight was attributed to its higher content of cytokinin when applied to plants (Nickell, 1985).

4-Shot berries %:

Data in Table (2) obviously reveal that percentage of shot berries in the clusters of Early Sweet grapevines was significantly controlled with spraying GA<sub>3</sub>-at 10 to 40 ppm or Sitofex at 2.5 to 10 ppm relative to the check treatment. Using GA<sub>3</sub>-was preferable than using Sitofex in reducing the

percentages of shot berries. There was a reduction on the percentage of shot berriincreasing concentrations of GA3 and Sitofes was a slight reduction on such unfav phenomenon with increasing concentrations form 20 to 40 ppm and Sitofex from 5 to 1 The minimum values of shot berries (7.3 and during both seasons, respectively) were reco the clusters harvested from vines treated wi at 40 ppm. The maximum values of shot (12.0 & 12.5 %) during both seasons were r on the untreated vines during both seaso reducing effect of GA2 on shot berries m attributed to its important role on enhanci division and the biosynthesis of proteins (1985). These results were supported by the of wassel et al. (2007) and Abu Zahra and § (2012).

#### 5- Fruit quality:

Data in Tables (2, 3 & 4) clearly she spraying clusters with GA3 at 10 to 40 Sitofex at 2.5 to 10 ppm significant accompanied with enhancing weight, long and equatorial of berry, total acidity%, pro and percentages of P, K and Mg and T. reducing sugars %, T.S.S. / acid an carotenoids relative to the check treatme effect either increase or decrease was ass with increasing concentrations of each auxin GA<sub>3</sub> significantly changed these paramete using Sitofex. A slight effect was recorded ( quality parameters with increasing concentra GA<sub>3</sub> from 20 to 40 ppm and Sitofex from ppm. From economical point of view, tl results with regard to fruit quality were o due to treating clusters with GA3 at 21 Untreated vines produced unfavourable eff fruit quality. These results were true durin seasons. The effect of GA<sub>3</sub> on increasing weight and dimensions might be attributed effect in promoting cell division and enlarge cells, water uptake and the biosynthesis of Nickell (1985). These results were in conc with those obtained by Williams and Ayars and Dimovska *et al.*, (2014).

The higher content of Sitofex from cytosurly reflected on enhancing cell division-elongation of berries Nickell (1985). These were in agreement with those obtained beginning to Zahra (2013) and Retamales et al. (2015).

### CONCLUSION

Treating Early Sweet grapevines once waverage berries reached 6mm with  $GA_3$  at was responsible for promoting yield an quality.

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### الملخص العربى

ة بين ضغوط الدور وسلوكيات المواطنة التنظيمية للمرضات بالوحدات الصحية بمركز قطور: التأثير الوسيط للالتزام العاطفي Formatted: Font: 12 pt, Complex

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# رش حامض الجبريليك والسيتوفكس في تحسين المحصول وجودة حبات العنب الايرلي سويت في منطقة. المنيا- مصر

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ت هذه الدراسة إلى التعرف على العلاقة بين ضغوط الهور (صراع الدور وغموض الدور)، وسلوكيات المواطنة (OCB) للمرضات العاملات في الوحدات الصحية بقري مركز قطور بمحافظة الغربية، و ما إذا كان الالتزام العاطفي يتوسط العلاقة بين كل من ضغوط الدور وسلوكيات المواطنة التنظيمية للممرضات الريفيات . الدراسة على استخدام منهج المسح الاجتماعي، وتم جمع البيانات باستخدام استبانة تم اختبارها والتأكد من بباتها من عينة عشوائية من الممرضات العاملات في قري مركز قطور بلغ قوامها ( 301) ممرضة. وتم تحليل باستخدام اساليب الإحصاء الوصفي، واسلوب تحليل الانحدار المتعدد الهرمي، بالاضافة الى طريقة & Baron ناسلوكيات المواطنة التنظيمي العاطفي. كما أشارت النتائج أن ضغوط الدور (صراع الدور وغموض الدور) يفسر 13.8٪ والالتزام التنظيمي العاطفي. كما أشارت النتائج أن ضغوط الدور (صراع الدور وغموض الدور) يفسر 13.8٪ نفي سلوكيات المواطنة التنظيمية ، في حين ضغوط الدور وسلوكيات المواطنة التنظيمية .

الدالة: سلوكيات المواطنة التنظيمية، ضغوط الدور، نزاع الدور، غموض الدور، الالتزام التنظيمي العاطفي، لوحدات الصحية الريفية.

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