

Effect of the Empowerment Leadership's on Job Involvement Reinforcement through a Mediator Role for Strategic Thinking Skills

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Abstract

This research seeks to specify the mediator role for leaders' strategic thinking skills in the relation between the empowerment leadership and job involvement. In order to achieve this the empowerment leadership's dimensions has been adopted (ideal, participation in decision-making, training, media, showing interest and interact with the team) based on (Arnold and Drasgow, 2000) the leader's strategic thinking skills adopted on (cogitation, systemic thinking and paraphrasing) based on (Pisapia and etal,2001) while adopting on the job involvement taking as mono- dimensional based on (Sjoberg and Sverke,2000). Imam Husain Medical City has been chosen as a research field through a questionnaire form covered (239) member of medical and nursing staff. Analysis assertive factor has been used (structure equation's modeling), some descriptive statistics, correlation analysis, simple regression analysis and path analysis to specify direct and indirect effect. It was reached a set of conclusions, the most important that the strategic thinking variable increase the whole effect for the empowerment leadership variable on the job involvement at the level of healthy environment of Imam Husain Medical City in Karbala. The research has concluded with a number of appropriate recommendations.

Keywords: Empowerment Leadership, Job Involvement, Strategic Thinking

Introduction

The leadership's empowerment is one of the theories that distinct about leadership. It refers to the leader role's communication with his followers, giving them confidence for creating stable environment, granting more responsibility to increase their response and empower them to work. It has been enhanced through strategic thinking skills which represented by novelty, high performance leaders' capacities and the making of the organization's inner meaning potency to be the catalyst for increasing the job involvement of the employee as making them fell that they are important for the organization, contribute on

the organization's success and self-determination, and they are part of it, perceiving work as a key element in their lives and submerging in their current job. The research included four studies. The first displayed methodology. The second specified in the intellectual rooting of the research changes. The third displayed the field side and the using of statistical processing methods, analysis and interpretation results and the fourth study specified in conclusions and recommendations.

The Research Problem

The problem represents in finding the ways which increase the leadership's empowerment level and knowing the usage of strategic thinking by the leaders to know both the effect of leadership's empowerment and strategic thinking skills on the level of employee's job involvement through health domain. According that, if the direct and indirect effect relations are deducted on the level of administrative and theoretic propriety, so their field deduction on the level of Imam Husain Medical City will be a standing problem. The research problem could be:

1. What is the effect of leadership's empowerment in the strategic thinking skills on health sector level?
2. What is the effect of strategic thinking skills in job involvement on health sector level?
3. What is the direct effect of the leadership's empowerment in job involvement? and what is the indirect effect of the leadership's empowerment through strategic thinking skills on health sector level?

The Research Importance

The importance and feasibility of the research sound through both the theoretical importance and the importance of field variables. Leadership empowerment, strategic thinking skills and job involvement acquire clear and special importance theoretically through the researchers' contributions, while the field the dependence of the leaders within the medical a nursing staff as leadership empowerment's model for increasing confidence and communication in the contribution of decision making with lower level, leaders usage of meditation skills, methodical systemic thinking and reformulating the abilities as fundamentals with strategic thinking, these would maximize job involvement behavior on followers, increase the work fondness and performance perfectly for increasing the total performance of the health organization and increasing the communication between the leaders and workers at all levels which making them more loyal and committed.

The Research's Aims

The main aim of this research is to identify the model of leadership empowerment and determine its direct and indirect effect on job involvement through strategic thinking usage. Several sub-aims are emerge from this aim:

1. Describe and diagnosis of the application level of leadership empowerment on leaders at the health sector.
2. Determination of strategic thinking skills usage from the leaders at field.

3. Indication of job involvement level to the health sector's employees at field.
4. Testing of leadership's empowerment effect at the strategic thinking skills on the research sample level.
5. Testing of strategic thinking skills effect at job involvement to the medical staff.
6. Indication of leadership's empowerment direct and indirect effect at job involvement through strategic thinking skills.

The Research Hypotheses

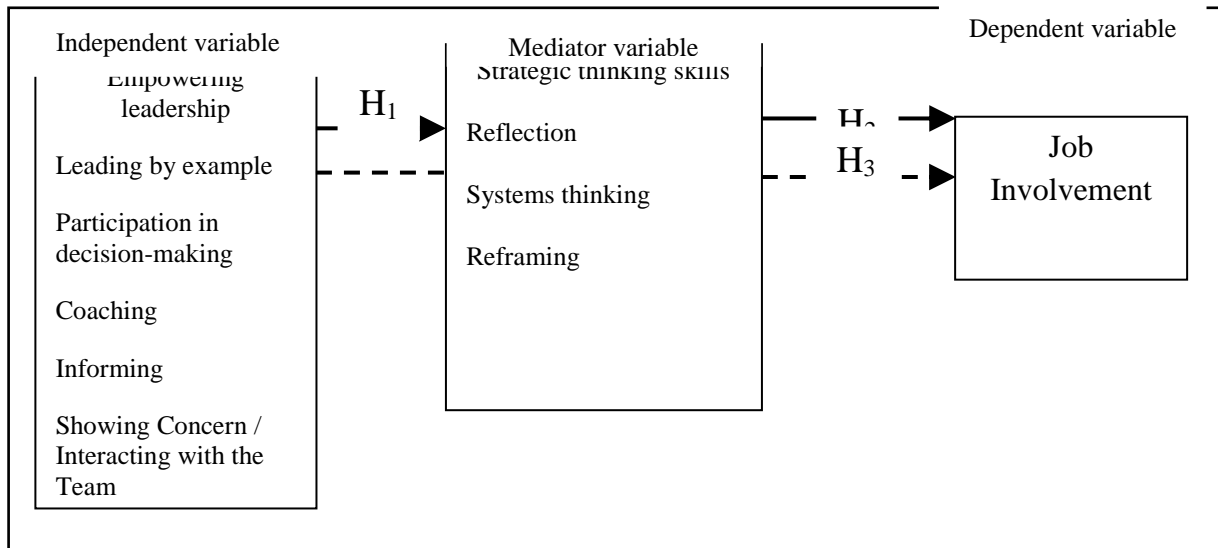
The current research includes three main hypotheses :

1. First main hypothesis: there is a significant moral effect for leadership empowerment at strategic thinking skills.
2. Second main hypothesis: there is a significant moral effect for strategic thinking skills at job involvement.
3. Third main hypothesis: There is direct and indirect effect for leadership's empowerment at job involvement through strategic thinking skills.

The Research Scheme

The hypothetical scheme sound a summary for the legislative perceptions of the relations combination which linking the variables of the research and the relations' direction with of effective and affective variables, thus, the research hypothetical scheme formed to explain the nature and directions of these relations. As figure (1) shown:

Figure (1): The research hypothetical scheme.



Source: Researchers

Research's Boundaries

1. **Spatial Boundaries** : Imam Husain Medical City had chosen as a field for this research. It consists of three hospitals (Educational Children's Hospital, Alhusain Educational Hospital, Alzahraa Educational Hospital).

2. **Temporal Boundaries** : The study period had determined since 02.02.2016 for 04.24.2016. These periods was enough for theoretical side writing, design and distribute the questionnaire, collect the questionnaires to classify and analysis the information and extract with interpret results.

The Research's Sample

The research strived for a random sample of (260) member of medical and nursing staff had received the questionnaire form. The recouped suitable for analysis and statistical treatment forms amounted to (239). That is (92%) getting back. The table (1) explains the general characteristics of the sample.

Table 1. characteristics of the sample.

Source: Researchers

Age			Gender		Profession		The academic achievement			Years of Service		
Less than 35	35-45	46-more	male	female	doctor	Nurse	diploma	Bachelor	Master's Degree	1-10	11-20	21-more
89	83	67	106	133	117	122	64	119	56	138	72	29

Research's Statistical Treatment Appliances

The researchers used regulations, books, variables internet or desk researches in the theoretical rooting for the variables of the research. Field side depended on the questionnaire form as a main appliance in all its data, which observed simplicity and clarity. Fifth Likert Scale

used with (1-5) responseviteit as appendix (1) shown, while statistical treatment ways used assertive factor analysis (structural equation modeling), some descriptive statistics, correlation analysis, simple regression analysis and path analysis which were used through (SPSS V.22) and (Amos V.23).

Theoretical Background

Leadership Empowerment (Concept , Importance and Dimensions)

Many researchers indicated and enriched the concepts of leadership empowerment by scientific researchers from their points of view. (Slatten et al. , 2011:272) confirmed that the leadership empowerment is a type of leadership when employees thinks that their director gives them freedom, obligations and the ability to make decisions independently. (Chen et al.

2010:272) studied the leadership empowerment from two perspectives. The first concentrates precisely on the procedures of the leader, power-sharing or giving more responsibility and autonomy on employees. The second perspective concentrates on employees' response for empowerment and consideration of their stimulation. (Zhang&Bartol , 2010:110-113) added that the leader tends to strength the real meaning of work through helping the employee for understanding the importance of his contribution within the whole organizational activism. The leader shows his confidence in the employee's qualifications through four dimensions which are : The meaning of work, enhance the participation of decision-making, confirm leader's confidence in high performance and provide independence from bureaucratic restrictions.

(Hassan et al. , 2013:135 , Erkutlu&Chafra, 2015:4) indicated that the leadership's empowerment occurs when the leader enhance the confidence based on the relations with subordinative, achieve communication and persuasive vision among employees, facilitate the process of decision making through participation, training of subordinatives to be more self-reliant and take attention of personal problems of employees. For that leadership empowerment gain more confidence and loyalty of employees. It helps on develop long-term mutual relations with employees which increase the high quality of the leadership characteristics.

At the opinion of (Sagnak,2012 :1636 , Tuckey et al. , 2012:17) the leadership empowerment conduct is the process to facilitate the staff's performance through empowerment, encouragement, boost confidence in the member's efficiency, increase creativity and knowledge sharing among employees and leaders so that it considered an alternative model for efficiency and competence autonomy increasing. He indicated that the leadership empowerment's dimensions represent by: the delegacy of authority, question, encouragement to take decision subjectively, information sharing, development of skills and creativity performance training, encourage creativity inside organization which help to create an independent environment far from fear and threat. (Wagner, 1995:127) added that the leadership empowerment neither unsettle self-confident nor use domination and intimidation way. (Jr.,2009:157) indicated that leadership empowerment way helps leaders for high performance expectation in the long term, increase self-confident among followers and develop creativity skills after its creation. This way works well in case of the leader absence. Sometimes leadership empowerment may yield to confusion or frustration, but with time, it may use at non pressing cases. If the subordinates and employees have high experience leadership empowerment may use at pressing cases. It should consider that the implementation of leadership empowerment may contradict with the rooted regulatory cultural at the organization.

(Lee,2008:105) said that the leadership empowerment lead to community edification which may yield to strong foundation to build committed organization have the ability to perform as team work mediating their principles through continuous dialog, build strong community helps organizational education to build new positive education face challenges, so that the leadership empowerment is the nearest for the soul. (Kuo et. al. , 2011:1122) indicated that leadership empowerment is a managerial type being mostly decisive in creating appropriate environment and providing support with sufficient materials for new technologies adoption.

(Amundsen & Martinsen, 2015 :3-4) indicated that behavioral scientists see that the leadership empowerment should practice at both team and dynamic levels. He added that there are number of different behaviors the empowerment leadership based on, which are authorization, information sharing, coordination, initiative encouragement, encourage focusing towards goal, worthiness support, inspirer, modeling and advising. (Dierendonck & Dijkstra, 2012:4) says that the leadership theory related to the social cognitive theory within indentifying participatory aims and joint command approach. The participation of employees in making decision, substantiation on self affection operations and encourage the followers for leading themselves towards self-guided and self-propulsion are consider an essential object. Leadership theory includes group of strategies concentrate on making and behavior through thinking manner and nature reward. The study concentrated on three dimensions which are : delegation of authority, question and facilitation. (Chen et al., 2007:333) added that the leadership empowerment behavior focuses on the leader's behavior in order to increase the motive for all team not on the relation type among manager and employees. (Vecchio et al. , 2010:531) confirmed that the leadership empowerment is the style which aim employees to develop and control themselves spontaneously and achieve higher level performance and members' self-guided improvement which lead for better sub-situations' response.

At the opition of (Li et al. ,2013:1308 , Carmeli et al. ,2011:400,403 , Srivastava & Bartol,2006:1241) the leadership empowerment warrants employees to effect the leader decisions. It embodies by the participation of leadership which represents by democratic participation at the work place. It arises when the leader encourages his members for practicing the monitoring in taking decisions processes, alternates authority decision with his members and encourages them and effect each other. They used three dimensions to measure authority empowerment which are encouragement at making decision process, facilitate knowledge reciprocity among members and enhance cooperative behaviors among them. (Biemann et al. , 2015:4) indicated that the leadership empowerment is consider signals for employees that the leader trust their abilities, ready to uphold and support them logistically. The absence of leadership empowerment considered a trustless among leader and followers. (Srivastava et al., 2006:1243-1244) indicated that the leadership empowerment associates positively between knowledge reciprocity and team efficiency which leads for increasing the pace of response of problem solving by team members. When there is a positive association between the leadership empowerment and team performance , this will lead to increase the partial effect of psychological empowerment of the team. He also indicated for five dimensions of leadership empowerment which are participatory decision making, training, information reciprocity, interaction with the team and interest.

(Raub & Robert,2010:1754) added that there are five dimensions for leadership empowerment which approved by (ELBs), that used successfully at individuals analysis which are : participatory decision making, training, media, concern display and interaction with team. (Tung & Chang , 2011:46) indicated that the leadership empowerment is not just power-sharing, but the catalytic effect in employees should also scalar because it is indivisible notion. Leadership empowerment is the wholly example that developed with concentrate on main missions' motives which includes : it's toll feeling, specialty, aim and choice. In the same context

(Lorinkova et al. ,2013:589) verifies that the leadership empowerment has a crucial role at the team development, encourages the team to affiliate with epistemic knowledge which increase experience, develops mental samples of the team, combines team efforts, increases collective hits and obligation through psychological empowerment and enhances the procedures to regulate their behaviors. (Spreitzer et al. , 2013:512-513) indicated that the concentration on leadership empowerment makes it more capable to make changes, where as leaders empowerment makes them more capable to develop innovative ideas towards change. leadership empowerment has a role to create heartiness among employees as to stimulate subordinators to change vision into reality. (Corcoles et al. ,2012:219) added that leadership empowerment urges cooperative learning environment which make employees behave preparatory and proactively concerning safety, promotion, for open and trusted communication. Empowerment as a psychological process which personal feeling of being strong like self-efficacy, sense of ability to effect, efficiency, the ability to choose, this is a reinforcement of self-efficacy feelings among members through circumstances' determination that firm helplessness sense and remove it from the institution and avails trusted information which will be the logic base for leadership empowerment that lead to effect in employees which produces positive results like job satisfaction, regulative obligation and improves performance (Dijke et al. ,2012:237). (Smith, 2008:33) diagnosed that leadership empowerment forms the backbones for many regulative changes methods. It is a motif factor where the leaders can empower their followers through inspire them directly or facilitate their diction in stimulatory way for producing more.

(Ellerani & Gentile, 2003:17) reached that leadership empowerment aims to participates on the organization identity construction, regulative change, new thoughts, builds new institutions, develops learning communities and environment forever.

(Peachey , 2002:18-19) added that leadership empowerment considers as a reaction of the big transformations of the world and the commercial competition where the organizations seek for the ways which keep them alive. Leadership empowerment emerges to achieve the followers' submissions, empowers the supported leaders' behaviors and organization activate.

(Carroll,2001:83) indicated that leadership empowerment aims to make the employee a part of solution , persuade employees that there is a need for their thoughts and help them to achieve continuous development. This requires training and motivates employees to form high training teams working spontaneously controls their special processes. (Lee & Park, 2014:370) indicates that leadership empowerment is the key to combine the processes of the learning organization, thus raises the absorptive capacities. (Zhu&Chen,2015:2) added that the aim of the leadership empowerment is to domain the whole instead of individuals within the whole and confirms on solid base, participatory values, collective thoughts, encourage self and self-development. Leadership empowerment needs to know everyone's unique skills in order to put the aims and avail individual learning opportunities. (Corcoles et al. ,2003:294) indicated that leadership empowerment assimilated by taking time for discussing fears and anxiety at members, shows anxiety about their safety and produces passionate support, this will lead to achieve high levels of safety and punctuality. (Harris et al. ,2014:568) added that leadership empowerment leads to increase creativity among employees because it concentrates on authority sharing and

grants independency for employees especially those who are new whereas they changes from strangers into insiders. (Arnold et al. , 2000:265) indicated that the leaders role being in empowering the team to punctuate the philosophy that they should success in themselves' leadership missions.

For the current research's purposes (Arnold & Drasgow , 2000) has been depended to measure leadership empowerment, whereas this type consists of five main dimensions which are : (Model) five paragraphs, (Participation At Making Decision) six paragraphs, (Training) eleven paragraphs, (Media) six paragraphs, (Interest' Showing And interacting with team) ten paragraphs.

Strategic Thinking Skills. Concept, Importance And Dimensions.

Strategic thinking considers one of high performance leaders' abilities. It begins towards the organization deepness for several levels in order to be able for information interpretation and creates special facts (Shirvani & Shojaie, 2011:2075). The strategic thinker should be creator, has the capacity to change, enjoy with cooperation and punctuating and accept new ideas (Goldsmith 1996:1433). (Hussey,2001:203) thinks that strategic thinking contrasts with the classical mechanical systems which based on linear thinking. It also contrasts with anticipation and extrapolation without linear analysis. It considers one of the most important procedures in the organization. It looks like cybernetic process to treat the future of the organization through alternative approaches evaluation. It is a thinking way consists of analysis and expectation creative thoughts to achieve the future competitive advantage(ORegan et al. , 2010-59). (Ostergren &huemer, 1999:451-452) indicated that strategic thinking is a way to create new identity and internal meaning making of the organization to be more able to seize the environmental new struggles. (Bronn & Olson,1999:356) considers strategic thinking is one of the important administrative competencies that could be ace through proactive planning to administrate strategic cases and crises. Strategic thinking enjoys holistic view, focusing on intentions, understanding of the interdependence among past, present and future, hypothesis-driven, call the ability to think intelligently, seize arising opportunity and the ability to reform, bifurcation, intuition, innovation and creativity (Graetz,2002:456-457).

(Bouhali et al. ,2015:75) indicated for the definition of strategic thinking by US Revenue Service that Strategic thinking is from the leadership efficiency. It is active strategic wording take into consideration the external effects on the organization from internationalist and global perspective, studying political issues and strategic planning from long-term perspective which lead to regulatory compelling vision, setting aims, setting priorities and putting points of strength upon them. (Lowder,2009:10) indicated that strategic thinking focuses on harmonization between frame and strategy. At the new era it focused on information, knowledge, learning and creating. (Baumgartner & Korhonen,2010:74) added that strategic thinking leads to achieve sustainable development of organization. (Low&Ang,2012:503) defined strategic thinking that unofficial process in thinking regulation's way to help himself or the organization in order to look towards future to achieve aims long. The person should be patient ,shouldn't be hasty in making decision especially when he lacks information in order to be dynamic on strategic thinking. (Thakur&Calingo,1992:48) indicated that strategic thinking

avail a database determined the strategic choices of the organization so that the strategic administration could take the suitable choices which agree with environmental requirements. The strategic thinking represents the conceptual glue which holds the organization in its quest to create value. The purpose of strategic thinking is the exploration of new innovator strategies which rewrites the competitive game rules since it is the main element of active development strategy that may cause anywhere or anytime (Goldman,2008:219-220). (Gil,2009:257) diagnosed the strategic thinking role to secure the suitable strategic choice application which creates a value for the organization and to decrease uncertain environment losses. (Pisapia&Jelnec,2013:3) confirmed that the strategic thinking enables businessmen to acquire a new thing which important in the organization performance through countries and industries. The leadership theorists indicate that there is a need for strategic thinking capacity in the various organizational levels. The strategic thinking is also important for entrepreneurs since it is specialize with wise decision making which lead to evaluate, appreciate and conclude the possibility of the event occurrence and choose course of action. The strategic thinking skills include right time systems thinking, reformation and contemplation. (Jelenc & Pisapia,2015:166) added that there are five important strategic thinking traits which are : imagination, wide vision, manipulation, the desire to win and victory control. (Masifern & Vila, 2002:4) confirmed that strategic thinking driven from administrative competences. It is certain thinking way that includes five specific elements : perspective system, basing on intention, right time thinking, based on hypothesis and intelligence opportunistic. (Franklin,2001:359) diagnosed the reason for the managers attention by strategic thinking is to create future and making new things or the same think in different way, the capacity to look forward instead of past or present, the capacity of future reading to feel and live the future. The creation of future requires creative action, imagination and innovation. (Kazmi & Naaranoja,2015:44-45) added that the incapacity of great managers to apply strategic thinking is create serious obstacles in the organization performance because of their personal inefficiency to turn into strategic thinking for taking intelligent procedures and to inspire team and individual to achieve the competitive advantage. He indicated that strategic thinking does not come naturally, but it should taught and practiced. (Bajcar et al. ,2015:3670) indicated into three dimensions which are : the ability for making a quick global assessment, precise recognition with assess the case type which may create a problem to be solved, certain type of mental efficiency that determine the distance which to put at the manager's mind to decide at time. (Dragoni et al. ,2011:832) added that the accumulation of work experience effect strategic thinking efficiency increasing. (Osman&Kassim,2015:939) determined strategic thinking skills which increase learning concretely in six skills which are : decision making, planning, monitoring, audit, evaluation and review. (Kargin & Aktas,2012:131) indicated that strategic thinking motivates strategic planning, the purpose of that is vision discovery and strategies imagination that rewrite the competitive game rules.

(Pisapia et al. 2011) sample has been depended to measure strategic thinking skills. This sample consists of three main skills which are : imagination :five paragraphs , eight paragraphs : thinking systems and five paragraphs: reformation.

Job Involvement. Concept, Importance and Dimensions.

Job involvement indicated to the degree that individuals psychologically matched with their current job. They think that their individual aims match with the regulatory aims, tend to work even at their spare time and think in better performance ways (Tastan,2013:411). It is a kind of personal identity determination which reinforce the knowledge tenet. It effected by job environment, experience and commitment (Tastan & Turker, 2014:944). (Odriscoll & Rndall, 1999:198) added that the job involvement produces important contributions in ability and regulatory success. (Nyambegera et al., 2001:112) thinks that people socially think that work is important for values getting which prepare them to involve at job. Personal principles also play a main role to effect at work involvement levels.

(Miller et al. ,1993:147) defined job involvement as the degree that the person's performance effect in self-esteem. (Aryee, 1994:321) indicated to three priorities for job involvement which: individual characteristics, situational characteristics and work results. In the same regard job involvement defined as the domain that individuals show their psychological identity with their jobs. It organizationally considers a main factor to motivate employees, build the competitive advantage, empower employees to perform their jobs, reinforce regulatory feasibility and make employees feel that their job is clearer (Wenxia&Bo,2008:118). (Zhang,2009:200) defined job involvement as the degree that the person be intellectually busy, participate and feel by his current job. There is high degree of job involved employees specify time, energy and sources to work perfectly. Job involvement highly linked with behavior. (Wendong et al., 2008:152) found that job involvement may effected by professionals evaluation. The increasing of the level of their job involvement lead them to get high degrees. (Diefendorff et al. ,2002:95) said that job involvement indicates the rang that individuals adjudicate work as a main element in their life. It reflexes individuals' busyness rang during their current job immersion. (Liu et al. 2009:580) added that job involvement is the grade that the mission being central for the involved job person. (Agarwal et al., 2010:376) added that job involvement indicates that the person adjudges the vocation as a part of his self-confident and it is the main way for self-concept determination. It consists of two elements which are job involvement at role and preparation. (Feldt et al., 2011:549) added that job involvement indicates to the individuals' coral motif to work, the positive situation towards it and it is not related with personal and physical health. In the same context (Katrinli et al., 2008:365) confirmed that job involvement is cognitive case to determine the individual's psychology toward vacation and It considers as an emotional reaction. It comparatively involves full positive case of engagement in the main sides of self at work. Job involvement effects at work results like: absence, turning and performance. The properties of job involvement are anatomy, the purpose of mission, mission determination, supervisorial behaviors, participatory decision making. (Stoner&Callagher, 2010:1495) indicated that individuals become more job involved when their jobs grant the chance to achieve their personal needs. The involvement increases proportionately with what it gets from the environment. It considers a setter for regulatory activity and individual motivation. The supervisor behaviors will be less effective in the high level involved employees. (Dailey&Morgan, 1978:338-339) found that control, position and the old age employees were connecting positively with job involvement. (Katrinli et al. 2009:72) reached that the identity

mission and autonomy play an important role at involvement job identity. (Janssen, 2003:351) indicated that job involvement is the key to motivate and activate labors for creating more effort, produce new ideas and change, furthermore, the preoccupation creativity produces high levels of job involvement. (Wegg et al. 2007:78) confirmed that absence ratio of employees is low for those who are job involved with high commitment as compared with those who are careless. (Kuhnel et al., 2009:578) added that job involvement as recognition and specific faith about the relation between the employee and the job considers stable positional situation and perceptual judgment about the need to meet the capabilities of position. (Li et al. 2007:275) said that job involvement gives information leads to develop the benefit of human resources and helps the staff to search the meaning of their job and a way to understand the meaning of work experience among the staff. (Wickramasinghe & Wickramasinghe ,2011:821) indicated that job involvement represents the opportunity to make important decisions, a feeling that the person is important for the organization and contribute at its success. He indicated also that job involvement represent an opportunity to specify private unique pace of work, self-determination of the organization, manifested in the active participation of radical problems solving, production flow interruption, abnormality and fuddle noting, adapting with the team work whatever job duties are changes, exchange positions within the work group and committing every employees to produce development and continuous. (Sjoberg & Sverke, 2000:250) reached that job involvement decreases the intention of staff turnover at the organization. (Kanungo ,1982:342) indicates that job involvement refers to the general attitude towards the organization. It is knowledge statues or psychological identification belief includes three dimensions: cognitive and effective status, general and specific individual's participation in the work and internal stimulus as job involvement (Brown, 1996:236). The involved job person considers the work as an important part in his life and fully effected by the job status: in terms of work itself and his colleagues at work and organization (Lodahl & Kejner , 1995:25). For the purpose of this research, the specimen of (Sjoberg & Sverke, 2000:250) has adopted to measure. It is one-dimensional variable has measured ten paragraphs.

Field Aspect

This section aims to present the scale of research variables and the results of confirmatory structural validity then testing the hypothesis depending on appropriate statistical methods:

First: Research scales:

The paper includes three basic variables:

- 1- Leadership empowerment: It represents the independent variable in the research where (Dragow & Arnold, 2000) scale is used to define sub-dimensions of leadership empowerment. It consists of five dimensions, they are: set an example (5) items, participation in decision- making (6) items, training (11) items, media (6) items, showing interest and interaction with the team (10) items.
- 2- Strategic thinking skills: It represents the mediator variable in the paper. The scale of (Pisapia et al. 2011) is used to identify the items of measuring the variable of the strategic thinking skills, which includes three sub- dimensions: meditation (5), thinking systems (8) items and re-drafting (5) items.

3- Job Involvement: It is the dependent variable in the research, where (Sjoberg & Sverke, 2000) is used to measure this variable, which is one-dimensional variable measured by (10) items. Cronbach's Alpha of reliability coefficient is used for the three variables and their dimensions, as shown in the table (2):

Table (2) research scales and reliability coefficient

N	Variables		the scale	Number of paragraphs	Cronbach Alpha
	Primary	SUB			
1	Empowering leadership TEL	Leading by example LBE	Arnold & Drasgow , 2000	5	0.873
		Participation in decision-making PDM		6	
		Coaching Co		11	
		Informing In		6	
		Showing Concern/Interacting with the Team SCIT		10	
2	Strategic thinking skills STS	Reflection RI	Pisapia et al. 2011	5	0.819
		Systems thinking ST		8	
		Reframing Rr		5	
3	Job Involvement JI	-----	Sjoberg & Sverke , 2000	10	0.737

Source: prepared by the two researchers.

Confirmatory structural validity

In order to verify the structural validity of the scales, the paper exclusively depends on confirmatory factor analysis rather than exploratory factor analysis because these used scales are ready-made ones, which are tested in other world environments. So the researchers tested the scales through using confirmatory factor analysis to verify their theoretical structural validity of the variables and their accuracy in the field. It is a special case of modeling the structural equation to conform the hypothetical structure of the variables with the gathered data. Consequently, the correlation between the dimensions and the items are confirmed, and

these items are not heading toward all dimensions, and this ensures the representation for each dimension through a clear number of unmeasured items. (Albright & park, 2009: 3).

The confirmatory factor analysis of the statistical programm (Amos V.23). In order to evaluate the structural model resulted from the outcomes of the confirmatory factor analysis, the researchers recommend to verify the two criteria: (Schumacker & Lomax, 2010:169)

- 1- Parameter estimates: They represent the pathways of values, which linked the latent variables with unobserved variables. When evaluating these parameters, the feasibility of parameter estimates should be taken into consideration so as to be acceptable and effective if the values exceed (0.40%), the extent of compatibility of standard mistakes. Whenever the mistakes are small, we can depend on the statistical parameters and vice versa, the statistical significance of the parameter estimates, which depend the critical ratio (C.R) (Holtzman & Sailesh, 2011:13).
- 2- Model Fit Indexes : Standard fit indexes establish the base to decide the fitness of structural model and its accuracy. Table (3) identifies the most important indexes of the structural model used in the confirmatory factor analysis.

Table (3) structural model fit indexes according to the outcomes of (Amos V.23).

No	Index type	The extent and value of the base of acceptance
1	The ratio between the value of (χ^2) The degrees of freedom (CIMN ¹ /df)	Less than (0.05) is good, less than (0.02) matching, higher than (0.05) Rejected
2	The Goodness-of-Fit Index (GFI)	The extent of value of (0-1) and acceptance base of more than (0.90)
3	The Normed Fit Index (NFI)	The extent of value of (0-1), acceptance base of more than (0.90) more than (0.95) identical
4	The Comparative Fit Index (CFI)	
5	The Relative Fit Index (RFI)	
6	The Incremental Fit Index (IFI)	
7	The Tucker-Lewis Index (TLI)	
8	The Root Mean Square Error of Approximation (RMSEA)	Less than (0.05) matching, between the values (0.05 - 0.08) is good, between the values (0.08 - 0.10) Medium, higher than (0.10) values are rejected

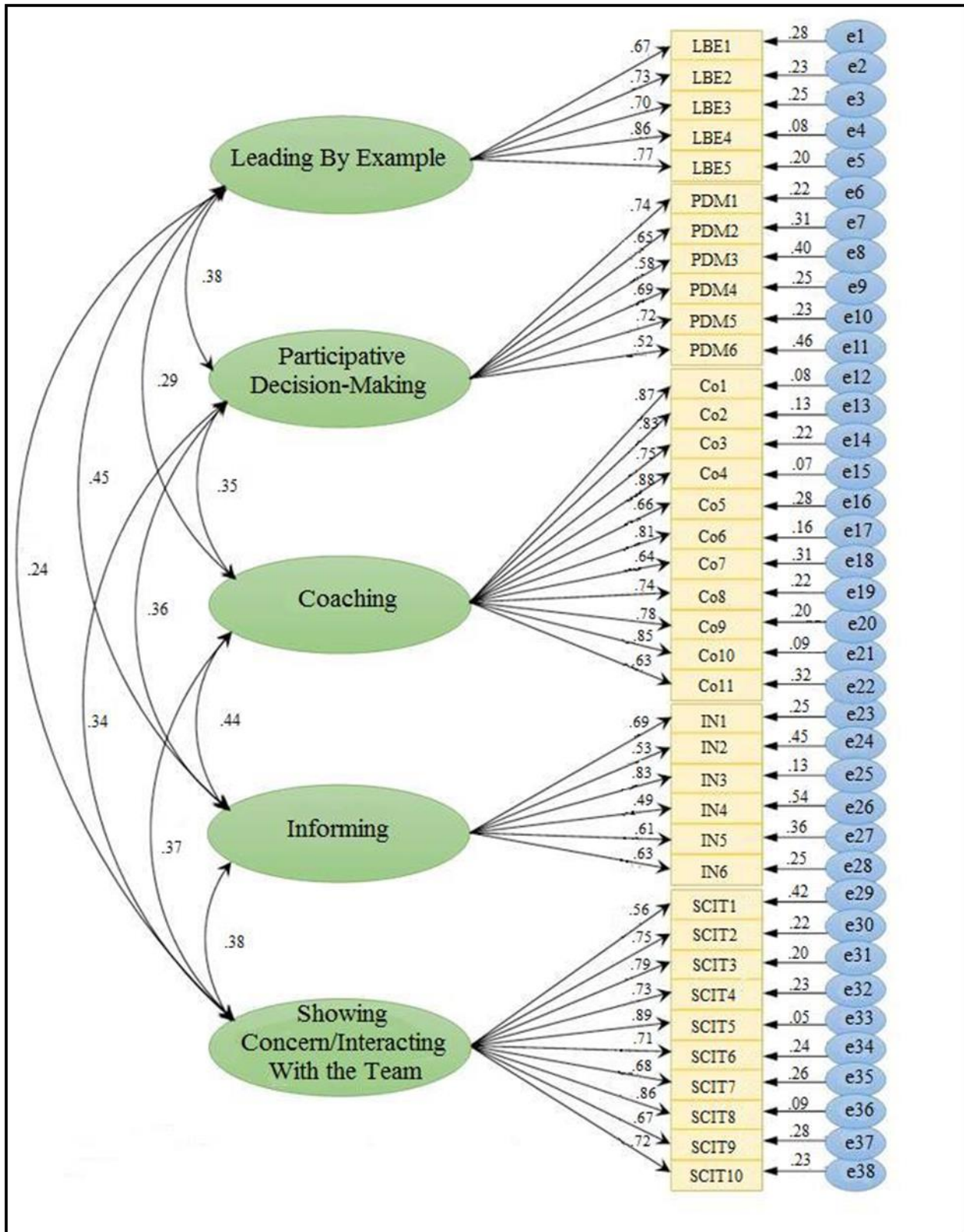
Source: (Byrne, 2010: 73-84)

In the light of what is mentioned above, the results of the confirmatory factor analysis of the three variables are the following:

Leadership empowerment scale:

Figure (2) shows that the leadership empowerment variable is measured by (38) item distributed on (5) sub-dimension. When reviewing standards parameter estimates, we find it exceeds the ratio of (0.40). These ratios appear on the arrows that link variables with their items and they are all morale ratios. As far as model fit indexes are concerned, the results show that they are all conforming the acceptability base specified for them, and their values are as in table (4). As a result, the structural model gains high level of fitness, which affirms that the leadership empowerment variable is the one that measured by (5) interconnected dimensions then measure them by different number of items about (38) item.

1. (CIMN) is the minimum limit of variance. It is common to use the value of this index to refer



to (%2) value. Consequently, the first index is the most important one in the model fit index, which is the ration between (Chi-Squire) value and the degrees of freedom; the ratio at the end of the first column of (Amos V.23) outcomes, which is (CIMN/df). (Byne, 2010:75).

Figure (2): Confirmatory factor analysis of the scale of leadership empowerment.

Source: (Amos V.23) outcomes

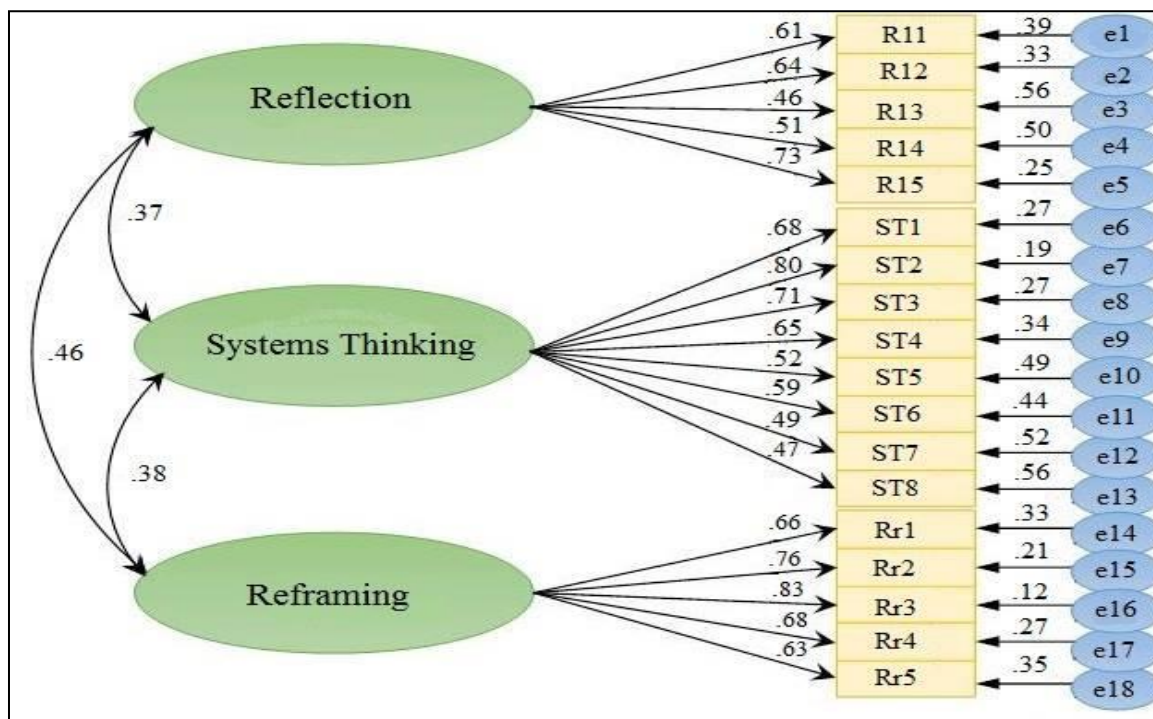
Table (4): model fit structural indexes for leadership empowerment scale

Index	Value	Index	Value
CIMN/df	0.043	GFI	0.989
NFI	0.946	CFI	0.996
RFI	0.958	IFI	0.929
TLI	0.933	RMSEA	0.051

Source: prepared by the two researchers in the light of (Amos V.23)outcomes

Scale of strategic thinking skills:

Figure (3) shows that the variable of the strategic thinking includes (3) sub-dimensions. The first dimension and the third are measured by (5) items, and the second dimension by (8) items. The standard parameter estimates exceed (0.40), which is the ratio that appear on the arrows linked the three dimensions with their items. All ratios are significant ones and this refers to the feasibility of the parameters and their validity. As far as model fit index is concerned, the results showed that all results meet the base of acceptability, and their values are as shown in table (5). The structural model gains high level of fitness in which the variable of strategic thinking



skills is a variable measured by (18) items distributed on (3) sub- dimensions.

Figure (3) confirmatory factor analysis for the scale of strategic thinking skills
 Source: (Amos V.23) outcomes

Table (5) structural model fit indexes for the strategic thinking scale

Index	Value	Index	Value
CIMN/df	0.033	GFI	0.972
NFI	0.943	CFI	0.993
RFI	0.925	IFI	0.927
TLI	0.969	RMSEA	0.061

Source: prepared by the researchers based on the outcomes of (Amos V.23) programme.

Job Involvement Scale:

Figure (4) shows that the variable of job involvement is one- dimensional variable measured by (10) items. The standard parameter estimates exceed the ratio (0.40), which is appeared on the arrows that linked the variable with its items. All ratios are significant and this refers to the feasibility of these parameters and their validity. As far as model fit index is concerned, the results showed that all results meet the base of acceptability, and their values are as shown in table (6). The structural model gains high level of fitness in which the variable of strategic thinking skills is a variable measured by (10) items

Figure (4) confirmatory factor analysis for the job involvement scale

Source:(Amos V.23) outcomes

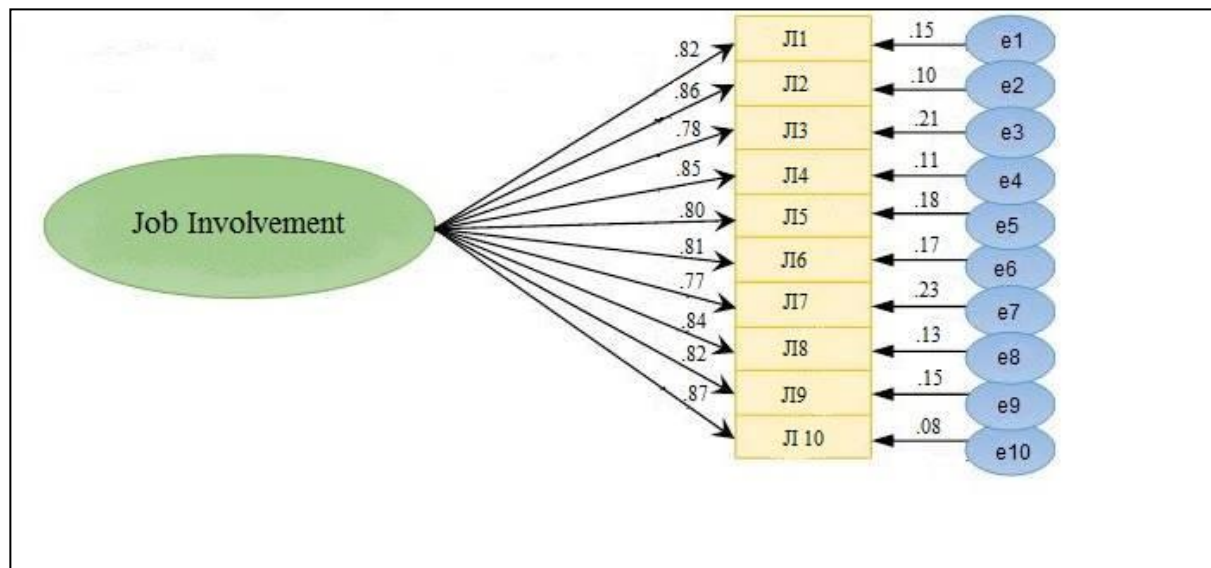


Table (6)confirmatory factor analysis for the job involvement scale

Index	Value	Index	Value
CIMN/df	0.045	GFI	0.977
NFI	0.901	CFI	0.984
RFI	0.918	IFI	0.900
TLI	0.917	RMSEA	0.066

Source: prepared by the researchers based on the outcomes of (Amos V.23) program.

Descriptive statistics and correlations among variables:

Table (7) clarifies the statistical values (arithmetical mean, M. and standard deviation, SD) of the research variables and correlates as the following:

Table (7) Descriptive statistics and correlations among research variables.

Variables	M	SD	TEL	STS	JI
TEL	3.904	.457	1		
STS	3.860	.458	.698**	1	
JI	3.802	.474	.674**	.711**	1

Source: the according to outcomes, N=239.

prepared by researchers SPSS p**<0.01,

Leadership empowerment (TEL):

The variable of leadership empowerment as in table (7) has gained a high mean (3.904) on the level of the individuals' answers, which is higher than the hypothetical mean (3). As far as the homogeneity in answers are concerned, they are clear through the standard deviation (0.457), which means that homogeneity is high in the sample's views. These results refer to the increase of the sample individuals conviction of the availability of the leadership empowerment in Imam Hussein Medical city. It refers also the importance of the leadership empowerment dimensions and its role in encouraging the employees and deepening their confidence in their abilities and interpersonal relations among them. Moreover, it develops creativity, skills and refines their future views, which contributes to establish a positive environment of work and reinforces positive work behaviors, and opposes the negative ones.

Strategic thinking skills (STS):

As in table (7), strategic thinking skills have gained high mean (3.860) and it is higher than hypothetical mean (3), the standard deviation is (0.458). The results refer to the increase interest in strategic thinking skills of the leaders as perceived by the sample. This shows the strategic ability of meditation and strategic thinking systems adopted by the leaders to offer, for example, health services. In addition to re- evaluate the formulates of the adopted thoughts

and ideas, which depends on sensing external strategic information and how it conforms with the internal information, which aims to find a kind of homogeneity and link between them through using mental abilities, intelligence factors, intuition, belief in the philosophy of creativity and develop the skills that the leader has (strategic thinker).

Job Involvement (JI):

Job involvement variable as in table (7) gains high mean (3.802), higher than hypothetical mean (3) with standard deviation (0.474). The result refers to the high level of agreement among sample individuals about job involvement. This refers to what extent the employees are engaged in duties and missions. This has a positive merits on the nature of their behaviors through strengthening the work they perform, which in turn reinforces the capital and establishes satisfaction feeling and commitment for work.

As far as correlation matrix is concerned, it seeks to define the strength of correlation between research variables and the dependency on them in preparation of the hypothesis of influence. Table (7) shows the existence of positive significant correlations among research variables, where values of correlations are between (0.647-0.711), which is a significant correlation at the level of significance (0.01). It confirms the strength of correlations among variables and the extent of their homogeneity in the medical city of Imam Hussein, which prepares to examine the paper hypothesis in the field.

Examining Research Hypothesis:

After affirming the confirmatory structural validity of the paper variables and its reliability, presenting the descriptive statistics which gained from the field and verifying the strength of correlations, the turn comes to test the paper hypothesis, The researcher uses Simple Regression Analysis and Path Analysis with their statistical parameters, which includes coefficient of determination (R^2), (F) test, coefficient of partial correlation (B. coefficient) and (T) test. The aim is to identify the direct and indirect influence among leadership empowerment, strategic thinking skills and job involvement in the medical city of Imam Al-Hussein:

Testing the first hypothesis:

Table (8) exhibits the results of the simple regression outcomes to test the influence of leadership empowerment on strategic thinking skills in the medical city of Imam Al-Hussein.

Table (8) parameters of simple regression analysis of the first hypothesis

The mediator variable The independent variable	Strategic thinking skills STS				R ²	F	Sig.
	Constant	β	t	Sig.			
Empowering leadership TEL	1.132	.698	14.986	.000	0.487	224.576	.000

N= 239 Source: prepared by the researchers based on (SPSS) outcomes.

Table (8) shows the following:

- A- The value of (F) of the simple linear regression is (224.576), which is a significant value at the level of (.000) while coefficient determination (R²) is (.487). It means that leadership empowerment interprets (%48.7) of the changes of strategic thinking skills. As for the rest of the ration (%51.3), it belongs to the influence of other variants not included in the model of the paper.
- B- Beta coefficient value is (.698) and it is a significant value according to (T) calculated value (14.986) at the significant level of (.000). It means that there is a change about (1) in leadership empowerment, which affects by (.698) in the skills of strategic thinking whether increasing or decreasing.

Based on the above mentioned results, there is a significant influence of the leadership empowerment on the strategic thinking skills in the medical city of Imam Al-Hussein.

Testing second hypothesis:

Table (9) shows the results of simple regression analysis to investigate the effect of strategic thinking skills in job involvement on the level of the medical city of Imam Al-Hussein.

Table (9) parameters of the model of simple linear regression to test the second hypothesis.

Dependent variable	Job Involvement JI				R ²	F	Sig.
	Constant	β	t	Sig.			
The mediator variable							
Strategic thinking skills STS	0.969	.711	15.546	.000	0.505	241.670	.000

N=239 source: prepared by the researchers based on (SPSS) outcomes.

Table (9) shows that:

- A- The calculated value of (F) for the multiple linear regression is (241.670), and has a significant value at the significant level (.000) while coefficient determination (R²) is (.505). it means that the strategic thinking skills interprets the ratio (%50.5) of the changes in the job involvement. As the rest of the ratio (%49.5) is attributed to the influence of other variables not included in the research.
- B- Beta coefficient value is (.711) and it is significant value because (T) calculated value which is (15.546) is significant at the level of significance (.000). It means that there is a change, about (1) in strategic thinking skills, which affects by (.711) in the job involvement.

Based on the above results, the strategic thinking skills effect on the job involvement in the medical city of Imam Al-Hussein.

Testing the third Hypothesis :

Testing the third hypothesis requires identifying the mediator, which is assumed by the strategic thinking skills between leadership empowerment and job involvement. It requires to use path analysis method that aims to disclose the level of, on one side, the direct correlation between the independent variable (leadership empowerment) and the dependent variable (job involvement). On the other side, the indirect correlation through the mediator variable of the strategic thinking skills. Path analysis method is considered one of the efficient statistical methods to analyze data. It depends on analyzing the regression and multiple correlation. It uses to set up the possible causality correlation among variables and identifying the direction of the direct and indirect correlations influence among variables as shown in figure (5) and table (10).

Figure (5) direct and indirect influence paths among variables.

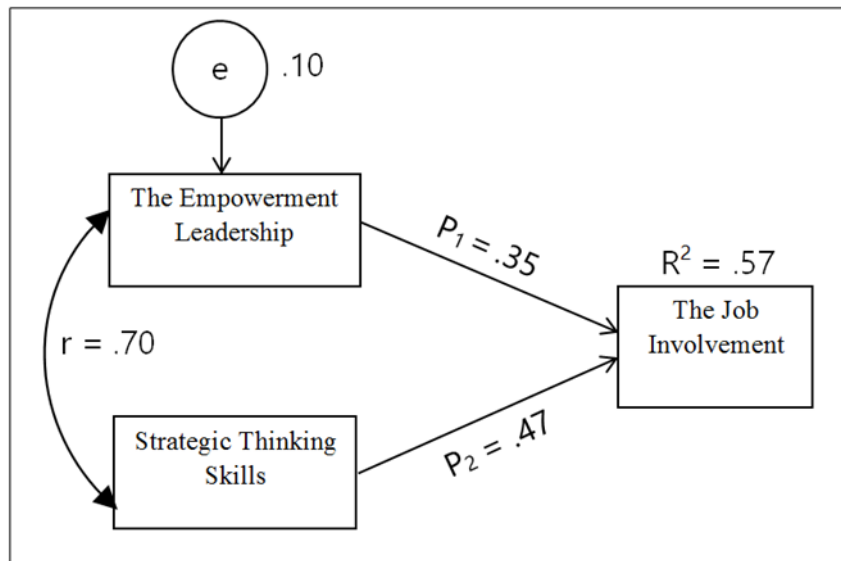
Table (10): direct and indirect influence paths arising from testing third hypothesis.

Paths	Direct Effect	Indirect Effect	Total Effect	R ²
TEL -----→ JI	.350	(r×P ₂)	.679	.570
TEL ----→ STS -----→ JI		.329		

Source: prepared by the researchers

Figure (5) shows the existence of the direct influence of the leadership empowerment variable in job involvement. This is included in the value of the first path coefficient (0.350). It is also clear that there is an indirect effect of the leadership empowerment on the job involvement through strategic thinking skills variable, which is about (.329). As a result, there is a change about (1) in leadership empowerment, and affects directly by (0.350). The total direct and indirect influence of leadership empowerment about (0.679). The value of interpretation (R²) is (0.570) and this means that the leadership empowerment and strategic thinking skills interpret (%57) of the changes happened in job involvement. As far as the rest of the ratio (%43) is concerned, it belongs to another variables not included in the research. These results affirm the existence of direct influence of leadership empowerment in job involvement, and an indirect effect of leadership empowerment in job involvement through strategic thinking skills in the medical city of Al-Hussein.

Figure (5) direct and indirect influence paths among variables.



Conclusions and Recommendations

In the light of the above mentioned results, the research includes several conclusions and recommendations.

Conclusions:

- 1- Leadership empowerment term expresses the strength of the leader's feeling of high trust and the ability to enable him to lead the group, where these factors are reflected through behaviors and positive conducts where their effects are noticed in the strength of the correlation with the subordinates and the leader's support for the participation, communication, cooperation and encouragement for his followers to develop their skills and training, and develop a positive work environment.
- 2- Strategic thinking skills express the open mind of the leader and his holistic vision toward everything related to the present and future of the organization whether external and internal conditions. So it includes meditation and contemplation skills in different situations in addition to the systematic thinking according to successful procedures and mechanisms. Also, it includes the ability to re-planning and handling different situations.
- 3- Job involvement related to the level of integrity, honesty and responsibility of employees toward their work in addition to their conviction and their desire to the type of the duties they perform within the organization. It is represented in the form of deep immersion in work not only physically through material presence but through continuous thinking and meditation in the field situations and improving the work procedures even if the workers are outside their work sites.
- 4- Leadership empowerment dimensions are available in high ratios in the medical city of Imam Al –Hussein and refers to the importance of the leadership empowerment behaviours, which is based on the participation factor in decision- making, exchange knowledge, encourage cooperative spirit, enhance dimension of trust in the spirit and the interactive with the team.
- 5- Strategic thinking skills have an important aspect on the level of the sample individuals, and this appeared clearly through focusing on learning factors, creativity and development in handling new ideas, updating programmes and systems by meditation, systematic thinking, re-drafting, inclusiveness and awareness by everything related to internal and strategic environment so as to adapt flexibly with rapid dynamic changes.
- 6- The level of job involvement of the sample is high, and this refers to the strength of their appertaining to their work and their positive motivation to perform duties or engage into the team, work with the spirit of the team, cooperation with the group, the faith in their tasks, structures and the prevailing cultures.
- 7- There is a positive significant influence for the leadership empowerment in the strategic thinking skills. This affirms that taking care of the dimensions of leaders empowerment, improve their abilities, grant them trust and credibility in the behaviours and conducts may enhance and guide strategic thinking skills so as to polish and improve leaders' abilities and enable them run their leadership positions.
- 8- There is a positive significant influence of the strategic thinking skills in the job involvement, which indicates that the meditation dimensions, systematic thinking and re-drafting could direct all the leader's behaviors, guide them and deepen their positive

feeling and their constructive vision to deal with their followers so as to increase their motivation for work and job involvement and enhance their field performance.

- 9- There is a direct positive significant effect of the leadership empowerment in the job involvement, which refers to the importance of utilizing the dimensions of leadership empowerment particularly if supported and guided in the field to take care of the subordinates. This includes providing supported work environment, training opportunities, development and improvement for their work skills, which affect positively on deepening their job involvement.
- 10- Leadership empowerment has an indirect effect on the job involvement through strategic thinking skills. This in turn refers to the availability of the dimensions of leadership empowerment though it affects in enhancement of the job involvement enhancement for the subordinates, the strategic thinking skills increase the total impact of leadership empowerment and direct the whole empowerment behaviors to reinforce the employees' positive stands and the level of their job involvement.

Recommendations:

Based on the above mentioned conclusions, we state the following recommendations:

- 1- Bolstering up the dimensions of leadership empowerment and focus on its application in the field in conformity with the internal nature, cultures and the structures of the medical city of Al-Hussein, which is fulfilled through:
 - A- Enhancing leadership empowerment to the perfect image in order to be an example for the employees in their conduct and perform their duties.
 - B- Focusing on the participation in decision making and allow employees to express their views and proposals to gratify their feelings of being important, and have a respected status at their administration.
 - C- Establish an active training strategy, which elevates and improves the employees' abilities and skills. Moreover, allow all the employees to participate in the training programmes.
 - D- Paying leaders' attention toward continuous disclose and information about all the related issues especially those related to goals, strategies and new development.
 - E- Urging employees to work within an organized team and focusing on the cooperative work, and clarifies the importance of the team spirit and the necessity of interaction with the other members of the team.
- 2- Calling leaders to develop and improve strategic thinking skills and enlarging their faculties to include all the technical, diagnostic and professional aspects. This can be achieved through:
 - A- Deepening the factors of meditation, thinking and reflection to deal with the special situations and selecting the appropriate methods to guide and direct the employees.
 - B- Following the systematic and organized procedures to handle problems and diagnose their causes in addition to utilize the environmental sensing in predicting environmental changes which face them.
 - C- Make benefit of other health organizations experiences, which are related to re-drafting the goals, their plans and strategies in conform with the environmental changes.

- D- Establishing scientific conferences, symposium, training lectures, which focus on improving strategic thinking skills and how to create strategically thinking leader so as to develop the features and skills of the strategic thinking and the basics of sound thinking.
- 3- Encourage and support the employees on the job involvement and deepen their relation with the job environment, which they belong to. This can be realized by:
 - A- Paying attention to the employees' positive psychological capital and reinforce the factors that support this aspect. Positive psychological capital has an impact on rooting satisfaction factors, commitment, citizenship behavior, belongingness and loyalty.
 - B- Provide the supportive and encouraging environment of work and this requires absolute care for providing material, financial, technological and informatics resources necessary for work.
 - C- Motivate the employees on creativity, innovation, development, improvement and learning, which are the most important motivations to increase the workers' desire toward their work and this is reflected positively on increasing job involvement.
 - D- Assign employees for different responsibilities and implant self- trust, courage and challenge spirit so as to reinforce their personal and psychological aspects, and esteem their abilities and potentialities so they involve in their jobs willingly rather than by force.
- 4- Utilize from the partnership and exchange expertise programs with international organizations and hospitals according to certain contracts and temporary renewable agreement based on the benefits of these agreement in addition to delegate medical staff to the international organizations, which is useful to observe the dimensions of empowerment in the field and develop the skills of their strategic thinking.
- 5- Utilize from the administration experts in the field of human resources, organization theory and the organizational behavior in analyzing the jobs and preparing the comprehensive job description, which identifies how to put the right person in the right place and bring the experts and specialist in social and psychological fields to deliver lectures and symposium on how to deal and interact with others, which affects on the performance of the team.

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References:

1. Agarwal, M and Sharma, A. (2010), "Relationship of Workplace Factors and Job Involvement of Healthcare Employees with Quality of Patient Care in Teaching and Non-teaching Hospitals", *Psychological Studies*, Volume 55 Issue 4, December, pp 374-385.
2. Amundsen, S and Martinsen, y. (2015), "Linking Empowering Leadership to Job Satisfaction, Work Effort, and Creativity: The Role of Self-Leadership and Psychological Empowerment", *Journal of Leadership & Organizational Studies*, Pp. 1–20.
3. Aryee, S. (1994), "Job Involvement: An Analysis of its Determinants Among Male and Female Teachers", *Canadian Journal of Administrative Sciences*, Volume 11, Issue 4, December, pp. 320–330.
4. Arnold, J, Arad, S, Rhoades, J and Drasgow, F. (2000), "The empowering leadership questionnaire: the construction and validation of a new scale for measuring leader behaviors", *Journal of Organizational Behavior*, Vol 21 Issue 3, May, pp. 249–269.
5. Bajcar, B, Babiak, J and Nosal, C. (2015), "When leaders become strategists. A new look at determinants of leadership styles through their relationship with strategic thinking", 6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015) and the Affiliated Conferences, Vol. 3, Pp. 3669–3676.
6. Baumgartner, R and Korhonen, J. (2010), "Strategic Thinking for Sustainable Development", *Sustainable Development*, 18 Issue 2, Pp. 71–75.
7. Biemann, T, Kearney, E and Marggraf, K. (2015), "Empowering leadership and managers' career perceptions: Examining effects at both the individual and the team level", *The Leadership Quarterly*, V 26, Issue 5, October, pp. 775-789.
8. Bouhali, R, Mekdad, Y, Lebsir, H and Ferkha, L. (2015), "Leader Roles for Innovation: Strategic Thinking and Planning", the 3rd international conference on leadership, technology and innovation management, Vol. 181 may 11. Pp. 72–78.
9. Brown, S. (1996), "A Meta-Analysis and Review of Organizational Research on Job Involvement", *Psychological Bulletin*, Vol. 120, No. 2, pp.235-255.
10. Brønn, P and Olson, E. (1999), "Mapping the Strategic Thinking of Public Relations Managers in a Crisis Situation: An Illustrative Example Using Conjoint Analysis", *Public Relations Review*, 25(3), Pp.351–368.
11. Carmeli, A, Schaubroeck, J and Tishler, A. (2011), "How CEO empowering leadership shapes top management team processes: Implications for firm performance", *The Leadership Quarterly* 22, pp. 399–411.
12. Carroll, B. (2001), "Leadership in Lean, Empowering Manufacturing Organizations", *Journal of Organizational Excellence*, Volume 20, Issue 2, spring, pp. 81–90.
13. Chen, G, Kirkman, B, Kanfer, R, Allen, D and Rosen, B. (2007), "A Multilevel Study of Leadership, Empowerment, and Performance in Teams", *Journal of Applied Psychology*, Vol. 92, No. 2, Pp. 331–346.
14. Chen, C, Ho, Y and Chan, L. (2010), "Team implicit coordination in manufactory industry: assessing the mediating role of empowering leadership and team efficacy", *Computer Communication Control and Automation (3CA)*, International Symposium on, Vol 2- (5-7 may), Published by IEEE, Pp. 459 – 462.

15. Córcoles, M, Schöbel, M, Gracia, F, Tomás, I and Peiró, J. (2012), "Linking empowering leadership to safety participation in nuclear power plants: A structural equation model", *Journal of Safety Research* 43, Pp. 215–221.
16. Córcoles, M, Gracia, F, Tomás, I, Peiró, J and Schöbel, M. (2013), "Empowering team leadership and safety performance in nuclear power plants:A multilevel approach", *Safety Science* 51, Pp. 293–301.
17. Dailey, R and Morgan, C. (1978), "Personal characteristics and job involvement as antecedents of boundary spanning behavior: A path analysis", *Journal of Management Studies*, Vol. 15, Issue. 3, October, pp. 330–339.
18. Dierendonck, D and Dijkstra, M. (2012), "The Role of the Follower in the Relationship Between Empowering Leadership and Empowerment: A Longitudinal Investigation", *Journal of Applied Social Psychology*, 42, S1, Pp. E1-E20.
19. Dijke, M, Cremer, D, Mayer, D and Quaquebeke, N. (2012), "When does procedural fairness promote organizational citizenship behavior? Integrating empowering leadership types in relational justice models", *Organizational Behavior and Human Decision Processes* 117, Pp. 235–248.
20. Dragoni, L, OH, I, Vankatwyk, P and Tesluk, P. (2011), "Developing Executive Leaders: The Relative Contribution Of Cognitive Ability, Personality, And The Accumulation Of Work Experience In Predicting Strategic Thinking Competency", *Personnel Psychology*, Vol. 64 Issue 4, Pp. 829–864.
21. Drefendorff, J, Brown, D, Kamin, A and Lord, R. (2002), "Examining the roles of job involvement and work centrality in predicting organizational citizenship behaviors and job performance", *Journal of Organizational Behavior*, Vol. 23 Issue 1, February, Pp. 93-108.
22. Ellerani, P and Gentile, M. (2013), "The role of teachers as facilitators to develop empowering leadership and school communities supported by the method of cooperative learning", *Procedia - Social and Behavioral Sciences* 93, pp. 12–17.
23. Erkutlu, H, and Chafra, J. (2015), "Empowering leadership and organizational job embeddedness: the moderating roles of task interdependence and organizational politics", *Procedia - Social and Behavioral Sciences* 210, Pp. 3 – 10.
24. Feldt, T, Hyvonen, K, Oja-lipasti, T, Kinnunen, U and Salmela-Aro, K. (2012), "Do work ability and job involvement channel later personal goals in retirement? An 11-year follow-up study", *International Archives of Occupational and Environmental Health*, Vol 85 Issue 5, Pp .547–558.
25. Franklin, P. (2001), "Guest Editorial: From routine recipes to deep strategic thinking: strategy making as an intellectual challenge", *Strategic Change*, Volume 10 Issue 7, November, pp. 359-365.
26. Goldsmith, A. (1996), "Strategic Thinking in International Development: Using Management Tools to See the Big Picture", *World Development*, Vol. 24, No. 9, pp. 1431-1439.

27. Goldman, E. (2008), "The Power of Work Experiences: Characteristics Critical to Developing Expertise in Strategic Thinking", *Human Resource Development Quarterly*, Vol. 19 No. 3, Pp. 217-239.
28. Gil, N. (2009), "Project Safeguards: Operationalizing Option-Like Strategic Thinking in Infrastructure Development", *Transactions on Engineering Management*, Vol. 56 No. 2, may, Pp .257-270.
29. Graetz, F. (2002), "Strategic thinking versus strategic planning: towards understanding the complementarities", *Management Decision*, Vol. 40 Issue 5, pp. 456–462.
30. Hassan, S, Mahsud, R, Yukl, G and Prussia, G. (2013), "Ethical and empowering leadership and leader effectiveness", *Journal of Managerial Psychology* Vol. 28 No. 2, pp. 133-146.
31. Harris, T, Li, N, Boswell, W, Zhang, X, and Xie, Z. (2014), "Getting What's New from Newcomers: Empowering Leadership, Creativity, and Adjustment in the Socialization Context", *Personnel Psychology*, Vol 67 Issue 3, autumn, pp. 567–604.
32. Hussey, D. (2001), "Creative strategic thinking and the analytical process: critical factors for strategic success", *Strategic Change*, Vol. 10, Issue 4, Pp. 201–213.
33. Janssen, O. (2003), "Innovative behaviour and job involvement at the price of conflict and less satisfactory relations with co-workers", *Journal of Occupational and Organizational Psychology*, Vol. 76, Issue 3, September, pp. 347–364.
34. Jelenc, La and Pisapia, J. (2015), "Individual Entrepreneurial Behavior in Croatian IT Firms: The Contribution of Strategic Thinking Skills", *JIOS*, Vol. 39, No. 2, Pp. 163-182.
35. Jr., H, Faraj, S and Yun, S. (2009), "When should a leader be directive or empowering? How to develop your own situational theory of leadership", *Business Horizons* 52, Pp. 149-158.
36. Kanungo, R. (1982), "Measurement of Job and Work Involvement", *Journal of Applied Psychology*, Vol. 67, No. 3, Pp. 341-349.
37. Kargin, S and Aktas, R. (2012), "Strategic thinking skills of accountants during adoption of IFRS and the new Turkish Commercial Code: A survey from Turkey", *8th International Strategic Management Conference*, Vol. 58, 12 October, Pp.128 – 137.
38. Katrinli, A, Atabay, G, Gunay, G and Guneri, B. (2008), "Leader–member exchange, organizational identification and the mediating role of job involvement for nurses", *Journal of Advanced Nursing*, Vol. 64, Issue. 4, November, pp. 354–362.
39. Katrinli, A, Atabay, G, Gunay, G and Guneri, B. (2009), "Exploring the antecedents of organizational identification: the role of job dimensions, individual characteristics and job involvement", *Journal of Nursing Management*, Vol. 17 Issue 1, Pp. 66–73.
40. Kazmi, S and Naaranoja, M. (2015), "Cultivating strategic thinking in organizational leaders by designing supportive work environment!", *The 3rd international conference on leadership, technology and innovation management*, Vol. 181 may 11, Pp. 43– 52.
41. Kuhnel, J, Sonnentag, S and Westman, M. (2009), "Does work engagement increase after a short respite? The role of job involvement as a double-edged sword", *Journal of Occupational and Organizational Psychology*, Vol. 82 Issue 3, pp. 575–594.

42. Kuo, R, Lai, M and Lee, G. (2011), "The impact of empowering leadership for KMS adoption", *Management Decision*, Vol. 49 No. 7, pp. 1120-1140.
43. Lee, W, (2008), "ELP: Empowering the Leadership in Professional Development Communities", *European Early Childhood Education Research Journal*, Vol. 16 No. 1, March, Pp. 95–106.
44. Lee, J , Lee, H and Jun-Gi, P. (2014), "Exploring the impact of empowering leadership on knowledge sharing, absorptive capacity and team performance in IT service", *Information Technology & People* Vol. 27 No. 3, pp. 366-386.
45. Li, Z, Ying, X and Long, C. (2013), "Impact of Empowering Leadership Behavior on Communication Satisfaction and Its Mechanism", *International Conference on Management Science & Engineering (20th)*, Harbin, P.R.China, July 17-19, (2013). Pp. 1308-1313.
46. Li, I, Lin, M and Chen, C. (2007), "Relationship Between Personality Traits, Job Satisfaction, and Job Involvement Among Taiwanese Community Health Volunteers", *Public Health Nursing* Vol. 24 No. 3, pp. 274–282.
47. Lodahl, T and Kejner, M. (1965), "The Definition and Measurement of Job Involvement", *Journal of Applied Psychology*, Vol. 49, No 1, Pp 24-33.
48. Lorinkova, N, Pearsall, M and SIMSJR., H. (2013), "Examining the differential longitudinal performance of directive versus empowering leadership in teams", *Academy of Management Journal*, Vol. 56 No. 2, pp. 573–596.
49. Lowder, T. (2009), "Strategic Thinking and Strategic Planning: Two Pieces of the Same Puzzle", Saint Leo University, June 14, pp. 1-19 available at: http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1418793 , (accessed 11 February 2016).
50. Low, Patrick and Ang, S. (2012), "The clarity of one's mind – creating the foundation for strategic thinking", *Educational Research*, Vol. 3(6), Pp. 502-508.
51. Liu, S, Wang, M, Zhan, Y and Shi, J. (2009), "Daily work stress and alcohol use: Testing the cross level moderation effects of neuroticism and job involvement", *Personnel Psychology*, Volume 62 Issue 3, autumn, pp. 575–597.
52. Masifern, E and Vilà, J. (2002), "Strategic Thinking: Strategy as a Shared Framework in the Mind of Managers", *Research Paper*, No 461, University of Navarra, Spain, March, Pp. 1-16.
53. Miller, D, Ismail, S, Giesen, J, Adams-price, C and Topping, J. (1993), "Ecological dissonance in decision-making participation systems as a predictor of job satisfaction, involvement, alienation, and formalization", *Bulletin of the Psychonomic Society*, . Vol.31 Issue 2, Pp. 146-148.
54. Nyambegeera, S, Daniels, K and Sparrow, P. (2001), (Why Fit Doesn't Always Matter: The Impact of HRM and Cultural Fit on Job Involvement of Kenyan Employees), *Applied Psychology: AN International Review*, 50 (1), Pp.109-140.
55. O'driscoll, M & Randall, D. (1999), "Perceived Organizational Support, Satisfaction with Rewards, and Employee Job Involvement and Organizational Commitment", *Applied Psychology: AN International Review*, 48 (2). Pp. 197-209.

56. Oestergren, K and Huemer, L. (1999), "Interpretation and translation of industrial recipes: A study of strategic thinking in the Swedish construction industry", *Strategic Change*, Vol. 8, Issue 8, Pp. 445-457.
57. O'regan, N, Hughes, T, Collins, L and Tucker, J. (2010), "Strategic Thinking in Family Businesses", *Strategic Change*, Vol. 19, Pp. 57-76.
58. Osman, N and Kassim, H. (2015), "Exploring Strategic Thinking Skills in Process Oriented Task in ESL Classroom", 5th ICEEPSY International Conference on Education & Educational Psychology, Vol.171, 16 January, Pp.937-944.
59. Peachey, G. (2002), "The effect of leader empowering behaviors on staff nurses workplace empowerment, psychological empowerment, organizational commitment, and absenteeism", Doctor of Clinical Health Sciences (Nursing), McMaster University, Hamilton, Ontario, Pp. 1-156.
60. Pisapia, J and Jelnec, L. (2013), "Strategic Thinking and Individual Entrepreneurial Orientation: An Exploratory Study", *Entrapreneurial Orientation and Strategic Thinking Ability: A Working Paper*, pp. 1-18. available at: [https://www.academia.edu/6412562/Entrapreneurial Orientation and Strategic Thinking Ability A Working Paper](https://www.academia.edu/6412562/Entrapreneurial_Orientation_and_Strategic_Thinking_Ability_A_Working_Paper) (accessed 11 February 2016)
61. Pisapia, J, Ellington, L, Toussaint, G and Morris, J. (2011), "Strategic Thinking Skills: Validation and Confirmation of Constructs" available at: https://www.academia.edu/755209/Strategic_Thinking_Skills_Validation_and_Confirmation_of_Constructs , Pp. 1-10. (accessed 11 February 2016)
62. Raub, S and Robert, C. (2010), "Differential effects of empowering leadership on in-role and extra-role employee behaviors: Exploring the role of psychological empowerment and power values", *human relations*, 63(11), Pp. 1743-1770.
63. Sagnak, M. (2012), "The empowering leadership and teachers' innovative behavior: The mediating role of innovation climate", *African Journal of Business Management* Vol. 6(4), February, Pp. 1635-1641.
64. Shirvani, A and Shojaie, S. (2011), "A Review on Leader's role in Creating a Culture that Encourages Strategic Thinking", 2nd World Conference on Psychology, Counselling and Guidance (2011), Vol. 30, Pp. 2074 - 2078.
65. Sjoberg, A and Sverke, M. (2000), "The interactive effect of job involvement and organizational commitment on job turnover revisited: A note on the mediating role of turnover intention", *Scandinavian Journal of Psychology*, Vol.41 Issue 3, pp.247-252.
66. Slatten, T, Svensson, G and Svaeri, S. (2011), "Empowering leadership and the influence of a humorous work climate on service employees' creativity and innovative behaviour in frontline service jobs", *International Journal of Quality and Service Sciences*, Vol. 3 No. 3, pp. 267-284.
67. Smith, J. (2008), "Spirit-Empowered Leadership", *Emerging Leadership Journeys*, Vol. 1 Iss. 1, Pp. 25-38.
68. Srivastava, A, Bartol, K and Locke, E. (2006), "Empowering Leadership in Management Teams: Effects on Knowledge Sharing, Efficacy, and Performance", *The Academy of Management Journal*, Vol. 49 No. 6, Dec, pp.1239-1251.

69. Srivastava, A and Bartol, K. (2006), "Empowering Leadership in Management Teams: Effects on Knowledge Sharing, Efficacy, and Performance", *Academy of Management Journal*, Vol. 49, No. 6, Pp. 1239–1251.
70. Spreitzer, G, Janasz, S and Quinn, R. (1999), "Empowered to lead: the role of psychological empowerment in leadership", *Journal of Organizational Behavior*, 20, Pp. 511-526.
71. Stoner, J and Gallagher, V. (2010) "Who Cares? The Role of Job Involvement in Psychological Contract Violation", *Journal of Applied Social Psychology*, Vol. 40, Issue. 6, June, pp. 1490–1514.
72. Tastan, S. (2013), "The Influences of Participative Organizational Climate and Self-Leadership on Innovative Behavior and the Roles of Job Involvement and Proactive Personality: A Survey in the Context of SMEs in Izmir", the Second International Conference on Leadership, Technology and Innovation Management (2012), Vol.75, 3 April, Pp. 407 – 419.
73. Taştan, S and Türker, M. (2014), "A Study of the Relationship between Organizational Culture and Job Involvement: The Moderating Role of Psychological Conditions of Meaningfulness and Safety", *LUMEN 2014 - From Theory to Inquiry in Social Sciences*, Iasi, Romania, 10-12 April, Vol.149, 5 September, Pp. 943 – 947.
74. Tuckey, M, Bakker, A and Dollard, M. (2012), "Empowering Leaders Optimize Working Conditions for Engagement: A Multilevel Study", *Journal of Occupational Health Psychology*, Vol. 17 No. 1, Pp.15–27.
75. Tung, H and Chang, Y. (2011), "Effects of empowering leadership on performance in management team Mediating effects of knowledge sharing and team cohesion", *Journal of Chinese Human Resource Management*, Vol. 2 No. 1, pp. 43-60.
76. Thakur, M and Calingo, L. (1992), "Strategic thinking is hip, but does it make a difference?", *Business Horizons*, Volume 35, Issue 5, September–October, Pp. 47-54.
77. Vecchio, R, Justin, J and Pearce, C. (2010), "Empowering leadership: An examination of mediating mechanisms within a hierarchical structure", *The Leadership Quarterly* 21, Pp.530–542.
78. Wagner, C. (1995), "Would You Want Machiavelli as your CEO? The Implications of Autocratic versus Empowering Leadership Styles to Innovation", *Creativity and Innovation Management*, Volume 4 Number 2 June, Pp.120-127.
79. Wendong, L, Kan, S, Dan, H, Jinying, Z, Jianchun, L and Jianping, X. (2008), "Effects of job satisfaction, affective commitment and job involvement on job skill ratings", *Front. Bus. Res. China* 2(1), Pp. 137–154.
80. Wenxia, Z and Bo, L. (2008), "Study on the relationship between organizational career management and job involvement", *FrontBus. Res. China* (2) 1, Pp.116-136.
81. Wegge, J, Schmidt, K, Parkes, C and Dick, R. (2007), "Taking a sickle': Job satisfaction and job involvement as interactive predictors of absenteeism in a public organization", *Journal of Occupational and Organizational Psychology*, Vol. 80 Issue 1, Pp.77–89.
82. Wickramasinghe, D and Wickramasinghe, V. (2011), "Perceived organisational support, job involvement and turnover intention in lean production in Sri Lanka", *The*

International Journal of Advanced Manufacturing Technology, Vol. 55, Issue 5, July, pp 817-830.

83. Zhang, M, Zheng, W and Wei, J. (2009), "Sources of Social Capital: Effects of Altruistic Citizenship Behavior and Job Involvement on Advice Network Centrality", Human Resource Development Quarterly, Vol. 20, Issue. 2, Summer, Pp. 195-217.
84. Zhang, X and Bartol, K. (2010), "Linking empowering leadership and employee creativity The influence of Psychological Empowerment, intrinsic motivation and creative process engagement" , Academy of Management Journal, Vol. 53 No. 1, Pp 107–128.
85. Zhu, Y and Chen, H. (2015), "Empowering leadership in R&D teams: a closer look at its components, process, and outcomes", R&D Management Early View, 29 JAN, Pp. 1-10.