The impact of empowering and transformational leadership on organizational performance and innovation: the mediating role of shared leadership and moderating role of organizational culture in the Iraqi healthcare sector

Empowering and trans formational leadership

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Abstract

Purpose – In this study, leadership, social and technical system and organizational behavior theories were used to test the research model, consisting of six variables. The purpose of this study was to observe the impact of leadership styles (i.e. transformational leadership and empowering leadership) on organizational performance and innovation. In addition, the mediating role of shared leadership and mediating role of organizational culture in the model were measured.

Design/methodology/approach – This study relied on a quantitative design, specifically, a questionnaire, to obtain data from 301 employees in the health sector (three public-sector hospitals in the Basra Governorate).

Findings – Data analysis results showed that most of the relationships in the research model were positive. In addition, the results demonstrated the importance of the mediating variable in strengthening the relationship between the independent and dependent variables. The results of this study also clearly depicted the role of the mediating variable. Theoretical and practical implications were discussed, and proposals for future studies were presented.

Originality/value — This research focused on the use of modern leadership styles, collected data on such styles and included them in one model to enhance organizational output. This study was conducted in the context of the Iraqi health sector and can be distinguished from other studies by its adoption of a large sample to obtain clear and important results, thereby making it an important reference for researchers to improve organizational performance.

Keywords Transformational leadership, Empowering leadership, Shared leadership, Organizational innovation, Organizational performance, Organizational culture

Paper type Research paper

Introduction

Organizational performance is a measure of an organization's progress and development (Muthuveloo et al., 2017; Al Khajeh, 2018), in which the extent of the organization's success is



International Journal of Organizational Analysis © Emerald Publishing Limited 1934-8835 DOI 10.1108/IJOA-08-2022-3380 recognized through its ability to achieve its goals and objectives. As organizational performance assesses an organization's performance compared with its goals and objectives, a successful organization is one that can successfully achieve its goals (Koohang et al., 2017; AL-Abrrow et al., 2019). Goal attainment is also closely related to organizational effectiveness (high organizational performance), thereby making it the focus of nearly all organizational behavior theories, because of their implicit or explicit goal of improving the effectiveness of organizations (Anderson, 2017; McShane and Glinow, 2018). Managers' efforts to improve employee attitudes will likely lead to positive outcomes, including increased organizational effectiveness, customer satisfaction and profits (Robbins and Judge, 2018). There are seven theoretical orientations or perspectives on organizations, all of which provide various measurement standards:

- (1) rational goal models (achieving goals);
- (2) system resource models (allocating resources to an organization's subsystems optimally);
- (3) managerial process models (effective organizational processes);
- (4) organization development models (capacity for problem-solving and renewal);
- (5) bargaining models (processes of accommodation and adjustment between organizational elements); and
- (6) structural-functional models (creating structures that support the organizational functions) (Cunningham, 1977, 1978).

Innovation at the organizational level is generally considered as the generation (development) or adoption (use) of new ideas or behaviors (Angle and Van de Ven, 2000; Damanpour and Aravind, 2012; Wikhamn, 2019). Specifically, innovation that is new to an organization (a new product, service, technology or practice) is created in a way that will result in changes in previous practices (Wischnevsky and Damanpour, 2008; Daft, 1978; Drucker, 2014; Papa et al., 2018). Innovation typically occurs adaptively in response to the environment where the organization operates and under environmental disturbances, as managers work on organizational transformation to adapt and respond to changes in a timely manner to maintain the organization's competitive advantages, which requires an appropriate leadership style for managing human capital to deal with such changes (Ghasabeh et al., 2015; Fu et al., 2020). Hence, in recent years, studies focused on unconventional leadership styles and their impact on employees' behavior and performance (Andriani et al., 2018; Zhu et al., 2018). This trend encouraged many organizations to adopt a leadership participation pattern to deal with the increasing complexity of the current work environment. Despite the efficiency and effectiveness of leadership participation patterns at the individual and collective levels, studies on such leadership remain scarce (Zhu et al., 2018). Thus, a call for researchers to conduct in-depth studies to clearly understand the special mechanisms of leadership participation patterns emerged (Wu et al., 2020), which can contribute to enhancing developmental performance.

Empowering leadership has been considered to be part of organizational science for over 50 years, and the goal of adopting this concept is to achieve benefits at the individual and organizational levels and enhance performance (of individuals, teams and organizations; Yunis *et al.*, 2018). Empowering leadership is defined as a chain of behaviors that leaders adopt to empower employees, which reinforces their intrinsic motivation to achieve the desired performance (Li *et al.*, 2020). In addition, this leadership style can boost employees' confidence by increasing their willingness to be mutually influenced by others to carry out joint actions, leading to the building of mutual trust, regardless of their ability to monitor or control the other parties (Klasmeier and Rowold, 2020).

Organizational culture is an organization's means for dealing with internal and external parties and action mechanism for problems and conflicts that may arise from the organization's activities (Meng and Berger, 2019). When such mechanisms are properly formulated in harmony with employees' perceptions, feelings, thoughts and disposition, they may be transferred to new employees through experience and education (Nikcevic, 2016), which will be effectively reflected in the organization's success (Chesley, 2020).

This present study is an extension of many studies on the relationship between leadership in its various styles, organizational performance and organizational creativity at multiple levels (individual, team or group and organization). This study attempts to address some potential issues highlighted by earlier studies and try to provide some solution. In addition, this study focuses on bridging the knowledge gap by using organizational culture as an interactive variable (Klasmeier and Rowold, 2020), adopting six variables in one model and conducting research in the health sector, with a relatively large sample, to obtain clear results, with the aim of generalizing the findings. This study has been conducted within health sector of Southern Iraq. This is to submit that the health sector is facing leadership issues causing the poor performance and delivery of health services to the masses. This makes health sector a preferred choice to conduct the study.

This study uses a sample of individuals working in hospitals under the Basra Health Department, namely, Abe Al-Khassib General Hospital, Al-Jumhuri General Hospital and Al-Sadr Teaching Hospital (Southern Iraq), to examine the effect of the adopted leadership style, such as transformational leadership or empowering leadership, on organizational performance and innovation through the mediating role of shared leadership and a modifying variable for the relationship, that is, organizational culture. The main objective of this study is to develop a measurable model that can be generalized to the wide-range sample under investigation. Accordingly, this study intends to answer the three main research questions. First, do the transformational and empowering leadership help to improve the performance and innovativeness in Iraqi health sector. Second, does shared leadership mediate the relationship between the transformational leadership and health sector performance? Third, does the organizational culture moderate the proposed relationship between leadership style and performance?

Theoretical development and hypotheses

This section provides a detailed discussion of the relevant earlier studies to provide theoretical foundation of this research. Transformational leadership is one of the most important leadership theories used in the organizational psychology literature (Arthur and Hardy, 2014). Burns first developed transformational leadership theory in 1978 as the first to propose the concept of transformational leadership. This type of leadership works by inspiring employees to improve their workplace to the utmost extent (Ghasabeh *et al.*, 2015; Yukl and Gardner, 2020). According to Burns, this inspiration can be promoted by a leadership style that can transform employees' attitudes, beliefs and behaviors to achieve the highest level of performance (Anderson, 2017). The changes adopted by an organization are the foregone conclusion of the organization's survival and growth, which in turn require a change in the leadership style, from exchange leadership to transformational leadership (Andriani *et al.*, 2018).

Shared leadership is a dynamic, interactive process of influence between individuals in a group to develop their ability to lead one another to achieve the goals of the group, organization or both (Yukl, 1989; Pearce and Conger, 2003). This process can be achieved by distributing the leadership role on a large scale among a group of individuals instead of to one individual assigned as the president (Pearce, 2004). On this basis, leadership

participation can be defined as a process of mutual influence between employees, alternating between formal and informal leaders (Pearce *et al.*, 2004). In this model, leaders emerge from the work group based on their knowledge, skills or abilities to lead the team in tasks or challenges then pass the mantle of leadership to others as the team situation develops (Novoselich and Knight, 2018).

Meanwhile, organizational performance refers to the results or actual outputs of an organization and is measured by comparing such outputs with the organization's predetermined goals (planned goals; Al Khajeh, 2018). To achieve such goals, the top management in the organization must be able to make the right decisions about the acquisition, allocation and distribution of resources among the divisions of the organization (Daft, 2020). Despite the overlap between the concepts of organizational performance and productivity, both represent the outputs of an organization, in which organizational performance is considered as the broadest indicator, as it includes productivity, quality and other factors (Abu-Jarad et al., 2010). Thus, the basic criterion for the evaluation of successful performance is an organization's ability to grow and survive in the long term. Therefore, organizational performance is broader than merely the attainment of outputs using available resources (Jenatabadi, 2015) and a reflection of management practices requiring the success of the organization in various aspects, such as stakeholder satisfaction, including employees (George et al., 2019). Hence, organizational performance can be defined as a set of activities that can realize regional or local business development by providing jobs or a set of goods and services that can increase national wealth and competitiveness (Khalid et al., 2019; Obeso et al., 2020).

First and foremost, organizations continuously strive to survive, followed by development, prosperity and growth (Damanpour, 1991). This process can be achieved only through the adoption of innovation processes, as organizational innovation can help raise the performance of an organization (Demircioglu, 2016; AL-Abrrow *et al.*, 2021). Therefore, organizational innovation is closely related to an organization's growth through its ability to generate new ideas to build and develop new businesses and realize growth and competitive advantages by increasing its size or acquiring assets (Tidd and Bessant, 2021). Organizational innovation is also considered to be the main means of an organization for changing, whether in response to changes in its internal or external environment or as a preventive measure to affect the environment, giving the organization the ability to adapt to the environment where it operates and survive, prosper and grow (Montalvan-Burbano *et al.*, 2020).

Entrepreneurs focus on innovation as a process through which they can take advantage of changes to offer different products (goods, services, processes and so on). Innovation can be presented by entrepreneurs as a system or innovation in their ability to learn; thus, continuous thinking is required to realize the necessary changes (Drucker, 2014), technology and market expansion through the creation of new products, technologies and systems (Razavi and Attarnezhad, 2013). Organizational innovation is also referred to as innovation in how an organization is managed, how the structure of an organization is designed and how to make such structures consistent with human resource practices to support individual creativity, which will be reflected as organizational creativity (Simao et al., 2016).

Cotemporary organizations have moved away from the individual to shared leadership approach, where the decisions are made through employees' participation. (Pearce and Sims, 2000). The way transformational leadership influences the shared leadership is highly dependent on the local culture. It has been found that in Asian context, this effect is quite positive and significant. (Ishikawa, 2012; Hoch, 2013; Wang *et al.*, 2014; Choi *et al.*, 2017;

Galli, 2019). Our study is an extension of these studies in Asian context in a way that it draws number of indirect relationships between the study's variables.

Also, there is a wider research which demonstrates a direct positive impact of transformational leadership on organizational performance (Elenkov, 2002; Garsia *et al.*, 2008; Samad, 2012; Katou, 2015; Arif and Akram, 2018). There are also studies which found a direct relationship between transformational leadership and organizational innovation (e.g. Jung *et al.*, 2003; Gumusluoglu and Ilsev, 2009; Mokhber *et al.*, 2015). We have noticed from review of the previous literature that there is a direct relationship between shared leadership and organizational performance (Avolio *et al.*, 1996; Ensley *et al.*, 2003; Carson *et al.*, 2007; Svensson *et al.*, 2019). Although there are many studies that found a relationship between shared leadership and organizational performance, there are also indications of a relationship of shared leadership and organizational innovation (Hoch, 2013; Wu and Chen, 2018).

Some studies showed that the behavior of transformational leaders is linked with their shared leadership behavior, which reflects positively on individuals' self-efficacy (Choi et al., 2017; Coun et al., 2019; Klasmeier and Rowold, 2020). Transformational leaders can enhance organizational performance by involving employees in important decisions, which can raise their performance level and be the basis for achieving the goals of the organization, thereby raising its overall performance level (Chai et al., 2017). Many studies analyzed the direct impact of transformational leadership on organizational performance (Saeidi et al., 2015; Nguyen et al., 2017; Sweeney et al., 2019) and showed the indirect relationship between the two concepts. Meanwhile, another research stream focused on the relationship between the two concepts through the mediating role of leadership participation, specifically through leaders who build trust and develop relationships with employees and lead to boost employees' morale to reach their highest level of performance (Klasmeier and Rowold, 2020).

Transformational leadership is the leadership style most associated with innovation and change (Lukowski, 2017), as it represents one of the elements constituting the innovation process in the workplace (Farrukh et al., 2019), especially when an employee believes him/ herself to be able to deal with events proactively (Prabowo et al., 2018). Although many studies demonstrated the positive impact of the relationship between transformational leadership and organizational innovation (Matzler et al., 2008; Samad, 2012; Paulsen et al., 2013), other studies revealed that the relationship between transformational leadership and innovation behaviors requires support from other variables (Qu et al., 2015). Therefore, a review of the literature indicated that transformational leadership is not necessarily associated with the creativity of individuals under all circumstances, and further research is needed to determine the conditions that can modify the relationship (Zuraik and Kelly, 2019). This finding means that transformational leadership involves behaviors that may influence employees' creativity; however, a possibility exists that this influence may not occur because of the multiplicity of the dimensions of transformational leadership. Thus, it may or may not encourage creativity under all circumstances (Jyoti and Dev. 2015). Hence, highlighting the complementary role of leadership participation in transformational leadership to motivate employees to engage in innovative courses of action is necessary (Jyoti and Bhau, 2015). On the basis of the foregoing discussion, the following hypotheses are proposed:

H1. The mediating role of shared leadership positively influences the relationship between transformational leadership and organizational performance. H2. The mediating role of shared leadership positively influences the relationship between transformational leadership and organizational innovation.

The concept of empowering leadership was proposed at the end of the 1980s by Manz and Sims (1989, 1991, 2001), who emphasized the need for leaders to encourage employees to lead themselves and called the idea "time superior leadership" (Hao *et al.*, 2018; Cheong *et al.*, 2019), coinciding with the fundamental technological and commercial changes occurring in the public and private sectors (Amundsen and Martinsen, 2014). This leadership style recently emerged in the literature largely because of the growing interest in structural and psychological empowerment, in which a leader helps subordinates exercise independence without worrying about organizational constraints (Hao *et al.*, 2018).

Empowering leadership is one of the modern concepts of leadership and similar to other concepts discussed by various researchers. To distinguish empowering leadership from participatory leadership, empowering leadership can be described as conceptually including a broad range of participatory leadership styles (Kim *et al.*, 2018). Participatory leadership involves employees' participation in decision-making, whereas empowering leadership allows employees to not only participate in decision-making but also take responsibility for their work and does not focus on specific levels or types of jobs or limit the participation of groups versus individuals (Kim, 2019).

When top-level leaders adopt empowering leadership, the act may contribute to improving the leadership engagement process, which in turn can enhance organizational performance (Grille *et al.*, 2015). Empowering leadership can provide benefits at the individual and organizational levels and enhance the performance of individuals and groups; thus, this style of leadership is often linked with shared leadership to enhance and improve individual and collective performance (Yu *et al.*, 2018). Employee empowerment as "power sharing" is not complete without the motivational effect of empowerment on the employees. Thus, the literature on empowering leadership developed management practices based on the social structure perspective, in which leaders' enabling behaviors play a vital role in leadership engagement (Cheong *et al.*, 2019).

Shared leadership arises from the distribution of leadership influence in a group (Humphrey and Aime, 2014). Individual leadership can provide meaningful insights to enhance leadership engagement (Klasmeier and Rowold, 2020), and high-level leaders' empowerment of employees may considerably facilitate the leadership participation process (Grille *et al.*, 2015).

Some leaders adopt distinct behaviors to instill pride and respect in employees through their association and inspire motivation. That is, leaders' behaviors can encourage employees' motivation by encouraging unconventional thinking and new ways of completing tasks and solving problems (Choi et al., 2017; Wu and Chen, 2018). Shared leadership can also contribute to knowledge exchange and organizational performance, which depend on individuals' innovation (Coun et al., 2019), through the sharing of strategic decisions related to the objectives of the organization and not merely through participation (Wu and Chen, 2018). The main goal of shared leadership is knowledge diversity, which can broaden horizons toward innovation (Wu et al., 2020). Thus, researchers agree that leadership participation is not a substitute for, but rather integrated in, empowering leadership and leads to organizational innovation (Fausing et al., 2015). Many factors, such as team attributes and technology, interact with the leadership style, thereby generating joint leadership behaviors. When group leaders and members are aligned, social interactions that can help reinforce the organizational identity will increase (Abdullah and Al-Abrrow, 2022). Moreover, empowering leadership can build behaviors that can empower employees through their role in the shared leadership, which can create a positive impact from the

empowering leader's declaration that employees have an audible voice in and value to the organization (Hoch, 2013). Although numerous studies confirmed the existence of a direct relationship between empowering leadership and innovation (Hui-ying and Jian-peng, 2013; Peter *et al.*, 2015), they showed that this relationship is not necessarily the same in all cases. For instance, the relationship may be directly mediated by certain variables, such as shared leadership (Singh *et al.*, 2019). On the basis of the foregoing discussion, the following hypotheses are proposed:

- H3. The mediating role of shared leadership positively influences the relationship between empowering leadership and organizational performance.
- H4. The mediating role of shared leadership positively influences the relationship between empowering leadership and organizational innovation.

Organizational culture is defined as procedures and methods that must be absorbed by all the members of an organization and seen as effective and acceptable to all (Paais and Pattiruhu, 2020), as it clearly affects organizational performance and the achievement of competitive advantages (Isensee *et al.*, 2020). Therefore, organizational culture is one of the critical elements that influence the design of the organizational structure, which can explain why some organizations change their organizational culture in line with developments and complexities in the business environment; otherwise, an organization will not live up to its required level of performance (Spicer, 2020).

Shared leadership refers to the process of influencing others to understand what needs to be done and how it can be done effectively and the process of facilitating individual and collective efforts to achieve common goals (Choi et al., 2017). Such processes require organizations to adopt a transformational leadership style that will allow employees to share the leadership responsibility and build an organizational culture based on the participation of employees in achieving the organizations' goals (Pradhan et al., 2017) and getting the best of what they have, which is positively reflected as organizational performance (AbuAlRub and Nasrallah, 2017). This idea indicates that a link exists between organizational culture, transformational leadership and shared leadership. A leader's culture will affect the relationship between his/her leadership style for dealing with employees and shared leadership, because a successful leader can develop an organizational culture capable of adapting to changing environmental conditions (Lubis and Hanum, 2020).

Shared leadership can be distinguished from other leadership styles through its characteristics of providing social support, member empowerment and participation opportunities (voice) and close relation to empowering leadership (Houghton et al., 2015). Shared leadership can motivate proactive behaviors, thereby indicating that it can encourage leaders' active participation in enhancing organizational performance (Fausing et al., 2015). Moreover, differences in the organizational culture can affect leaders' behaviors (Meng and Berger, 2019) through its positive contribution to independence from bureaucratic constraints and participation in decision-making (Tseng, 2017). Organizational culture influence leaders' behaviour in a way that they motivate employees through involving in critical decisions and delegate powers to them, which consequently improve employees' performance. This, in turn, enhances organizational performance (Marcoulides and Heck, 1993; Jacobs et al., 2013). There are numerous studies which highlight the significance of organizational culture for growth and sustainability of organization (Byles et al., 1991; Ahmad, 2012; Martinez et al., 2015). On the basis of the foregoing discussion, the following hypotheses are proposed:

H5. Organizational culture modifies the relationship between transformational leadership and shared leadership. H6. Organizational culture modifies the relationship between empowering leadership and shared leadership.

The following Figure 1 presents the conceptual model of the study (1).

Methodology

Sample and procedures

The data were obtained from three public-health-sector hospitals in the Basra Governorate, South Iraq, through a questionnaire distributed to 322 individuals working in the aforementioned sector. From the distributed questionnaires, 311 were retrieved, 301 of which were valid, which makes a higher response rate of 96.5% and a higher ratio of measurable questionnaires to the total number of distributed questionnaires which is 93.5%. The sample was chosen randomly, and the protection of the rights of the respondents and confidentiality of their responses was emphasized in the questionnaire. The data collection period was about 90 days. The participants were identified through the directors of their respective departments. Participants were guided about the contents of the questionnaire. The directors helped to identify the relevant individuals so as to better serve purpose of the study. A random selection method was used to constitute the sample of the study.

To obtain correct, measurable and generalizable data, the study variables and dimensions were clarified accurately and in detail by directly meeting and interacting with the participants for each part of the questionnaire, answering all their questions directly and ensuring the confidentiality of their answers to eliminate or reduce biases. Furthermore, the problems of possible biases in the data and the participants not taking their answers seriously were addressed.

Measures

A large number of variables were used in this study, that is, 6 basic variables, with a total of 14 dimensions. To shorten the questionnaire, short scales were adopted as well as

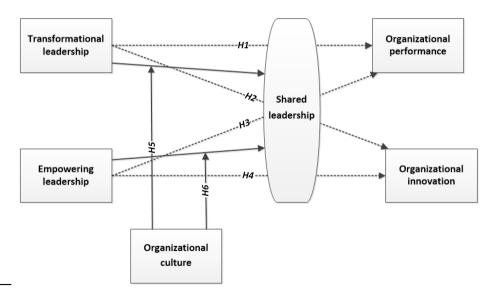


Figure 1. Research model

questionnaire elements that can obtain a high loading coefficient (Rhoades and Eisenberger, 2002). The questionnaire was translated into Arabic to ease the respondents' task.

Empowering and trans formational leadership

Independent variables

- Transformational leadership (TL; idealistic influence [II]: $\alpha = 0.825$, inspirational motivation [IM]: $\alpha = 0.789$, intellectual stimulation [IS]: $\alpha = 0.758$, and individual consideration [IC]: $\alpha = 0.815$): A scale was adopted (Alarifi, 2014) to measure TL, which consisted of four sub-dimensions. For example, the phrase "I think my boss focuses on his beliefs and values" was used to measure II, "I see that my Manager talks about optimism when it's about the future" was used to measure IM and "When solving problems, he asks for different points of view" was used to measure IS. An example item for measuring IC is "He helps other people develop their abilities."
- Empowering leadership (*EL*; enhancing the significance of work [*ESW*], fostering participation in decision making [*FPD*], expressing confidence in high performance [*ECH*], and providing autonomy from bureaucratic constraints [*PAB*]; $\alpha = 0.755$ for all the dimensions): A scale was used to measure *EL* (Choi *et al.*, 2017) through four subdimensions. For example, "Our manager helps us understand the importance of our work to influence the organization's overall effectiveness" was used to measure *ESW*, "He often consults us on strategic decisions" was used to measure *FPD*, "He believes that we can handle difficult tasks" was used to measure *ECH* and "He allows us to do our work the way we want" was used to measure *PAB*.

Moderating and mediating variables

- Shared leadership (SL; shared purpose [SP]: α = 0.788, social support [SS]: α = 0.895 and voice [VO]: α = 0.799): A scale was adopted to measure SL (Carson et al., 2007), which was divided into three subdimensions. For example, "Employees participate in setting the goals of the organization" was used to measure SP and "Employees are encouraged to complete tasks on time" was used to measure SS. Finally, to measure VO, the phrase "Working personnel are involved in selecting department heads" was used.
- Organizational culture (OC; $\alpha = 0.828$): A scale was adopted to measure OC (Arinanye, 2015). An example item is "We always treat one another with appreciation and respect."

Dependent variables

- Organizational performance (OP, α = 0.798): A scale was adopted to measure OP (Mustaffa, 2012). An example item is "The results of the organization's work are acceptable to the higher management."
- Organizational innovation (OI; $\alpha = 0.854$): A scale was adopted to measure OI (Bekkenutte, 2016). An example item is "New practices are introduced in the workplace for the purpose of development."

We used four dimensions (19 items) to measure transformation leadership, four dimensions (12 items) for measuring empowering leadership, three dimensions (9 items) for shared

leadership, six items for organizational culture and ten items to measure the organizational performance and organizational innovation each.

Data analysis

Smart-PLS 3.3.3 was used to evaluate the measurement model and hypotheses. The model was assessed using a partial least squares structural equation model. The evaluation process was conducted in two phases, that is, the evaluation of the measurement model and evaluation of the structural model. These both were carried out after ensuring model fitness.

Because of the complexity of study' model and more variables, it was mandatory to establish model fitness. We used three different indices to evaluate model fitness, which are (i) comparative fit index-CFI; (ii) chi-square divided by the degrees of freedom ratio (χ^2 /df); and (iii) root mean square error of approximation-RESEA. A value of above 0.90 for CFI indicates model fitness. In case of (χ^2 /df), it ranges between 1 and 5. In case of RESEA, a value less than 0.05 indicates good model fitness; a value between 0.05 and 0.08 suggests a reasonable model fitness; a value between 0.08 and 0.10 indicates mediocre model fitness, whereas a value greater than 0.10 means poor model fitness (Byrne, 2016). For all the three measures, our result falls within the range which ascribes a good model fitness [CFI: 0.932, (χ^2 /df): 1.92, RESEA: 0.061].

To evaluate the measurement model, factor loading values, the average variance extracted, composite reliability and Cronbach's alpha reliability (α) coefficient were used. Scales are considered acceptable when the factor loadings of items exceed 0.50 or 0.70. The average variance extracted value of each scale must exceed 0.50, and the composite reliability coefficient and Cronbach's alpha should exceed 0.70 (Hair *et al.*, 2017). The results in Table 1 show that all the factor loadings of the items and average variance extracted values exceeded the acceptable values. Therefore, it can be concluded that all the items met the standards (Isaac *et al.*, 2019; Haq and Awan, 2020). In addition, the two reliability values exceeded 0.70 and, thus, are statistically acceptable.

According to Kline (2011), heterotrait-monotrait ratio (HTMT) values less than 0.85 indicate no problem with the data regarding discriminant validity. Table 2 presents the HTMT test results, showing that the diagonal values are higher than the minimum values. Thus, the discriminant validity was satisfactory and sufficient for discriminant verification.

Descriptive statistics were used to provide a summary of the collected data. The mean values ranged from 2.75 to 3.31, and the standard deviation values ranged from 0.547 to 0.911. The correlation coefficient between the variables was positive at the average level for all the six main components, thereby initially supporting the research hypotheses (Table 3).

The bootstrap methodology with 5,000 samples was used in Smart-PLS 3.3.3 to estimate the t-statistics of the beta (β) coefficient and p-value. In addition, p-values and t-statistics were used to verify the acceptance level of the hypotheses. Table 4 shows the results of the structural model evaluation of the six research hypotheses.

The results of the testing of the six hypotheses provided several insights. First, regarding the indirect hypotheses, H1 confirmed the existence of a positive and significant effect relationship (t-statistics = 7.052, p-value = 0.000 and β = 0.318) between TL and OP through SL, whereas H2 confirmed the existence of a positive and significant influence relationship (t-statistics = 10.552, p-value = 0.000 and β = 0.405) between TL and OI through SL. Meanwhile, H3 confirmed the existence of a positive and significant influence relationship (t-statistics = 8.214, p-value = 0.000 and β = 254) between EL and OP through SL, and finally, H4 confirmed the existence of a positive and significant effect relationship (t-statistics = 2.254, p-value = 0.000 and β = 093) between EL and OI through SL.

Second, regarding the moderating hypotheses, H5 confirmed the existence of a positive and significant effect relationship (*t*-statistics = 5.124, *p*-value = 0.001 and β = 0.214) in the

α	0.755	0.755	0.755		0.755		0.828						0.798					0.854			
CR	0.723	0.808	0.755		0.714		0.808						0.770					0.818			
AVE	0.594	0.675	0.623		0.587		0.557						0.549					0.599			
Factor loading	0.727 0.851 0.728	0.843 0.839	0.781 0.819	0.768	0.860	0.678	0.616	0.725	0.796	0.851	0.762	0.705	0.735	0.814	0.718	0.702	0.732	0.732	0.842	0.709	0.814 0.766
Item	esw1 esw2 esw3	fpd1 fpd2	rpd3 esh1	esh2	pab1	pab3	oc1	000	903	0c4	00	900	opl	op2	ob3	op4	cdo	oil	oi2	oi3	oi4 oi5
Subfactor	ESW	FPD	ECH		PAB																
Factor	EL						30						OP					IO			
	32			86		28				Ŋ				8			5			6	
α	0.825			0.798		0.758				0.815				0.788			0.895			0.799	
CR a	0.810 0.85			0.706 0.79		0.707 0.73				0.720 0.81				0.745 0.78			0.822 0.89			0.744 0.79	
CR	0.810	0.725 0.676		0.531 0.706	0.719	0.531 0.707		0.736		0.542 0.720	0.661	0.703	0.700	0.614 0.745	0.855		0.690 0.822	0.798		0.613 0.744	0.795 0.736
AVE CR	0.534 0.810		0.697	0.689 0.531 0.706 0.792		0.733 0.531 0.707	0.805		0.631	0.865 0.542 0.720				0.754 0.614 0.745	sp2 0.855	0.736	0.851 0.690 0.822	ss2 0.798	0.842	0.815 0.613 0.744	vo2 0.795 vo3 0.736
Factor loading AVE CR	0.766 0.534 0.810 0.763 0.814		110 0.000 117 0.697	0.689 0.531 0.706 0.792		0.733 0.531 0.707	0.805		is4 0.631	0.865 0.542 0.720			ic4	0.754 0.614 0.745		sp3 0.736	0.851 0.690 0.822		ss3 0.842	0.815 0.613 0.744	

Notes: TL = transformational leadership, II = idealized influence, IM = inspirational motivation, IS = intellectual stimulation, IC = individual consideration, EL = empowering leadership, ESW = enhancing the significance of work, FPD = fostering participation in decision making, ECH = expressing confidence in high performance, PAB = providing autonomy from bureaucratic constraints, SL = shared leadership, SP = shared purpose, SS = social support, VO = voice, OC = organizational culture, OP = organizational performance and OI = organizational innovation

Table 1. Measurement model assessment

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interaction of transformational leadership, organizational culture and shared leadership, whereas H6 confirmed the existence of a positive and significant influence relationship (t-statistics = 1.995, p-value = 0.041 and β = 0.109) in the interaction of empowering leadership, organizational culture and shared leadership.

Discussion

In this study, the final results of the relationship between organizational performance and innovation were examined by focusing on the impact of leadership on employee behavior and motivation for innovation. Based on leadership theory, which focuses on leaders'

	TL	EL	SL	OC	OP	OI	Varia OC	nnce inflation	factor OI
TL EL SL OC OP OI	0.685 0.301 0.647 0.452 0.178	0.685 0.673 0.751 0.595	0.692 0.665 0.751	0.715 0.623	0.687		1.258 1.952 1.857 1.542	1.958	1.542

Table 2. Heterotrait-monotrait ratio and multicollinearity test

Notes: TL = transformational leadership, EL = empowering leadership, SL = shared leadership, OC = organizational culture, OP = organizational performance and OI = organizational innovation

	M	CD	TI	TN	CI	00	OD	
Variables	Mean	SD	TL	EL	SL	OC	OP	OI
TL	3.21	0.821	1					
EL	3.12	0.754	0.512**	1				
SL	3.01	0.911	0.365**	0.587**	1			
OC	3.31	0.547	0.421**	0.625**	0.598**	1		
OP	3.29	0.854	0.541**	0.452**	0.541**	0.465**	1	
OI	2.75	0.705	0.214**	0.452**	0.485**	0.522**	0.542**	1

Table 3. Descriptive statistics and correlation

Notes: TL = transformational leadership, EL = empowering leadership, SL = shared leadership, OC = organizational culture, OP = organizational performance and OI = organizational innovation; , *P < 0.05; **P < 0.01

Hypotheses	β	SE	t-statistics	<i>p</i> -value	OC	R^2 OP	OI
H1: $TL \rightarrow SL \rightarrow OP$ H2: $TL \rightarrow SL \rightarrow OI$ H3: $EL \rightarrow SL \rightarrow OP$ H4: $EL \rightarrow SL \rightarrow OI$ H5: $OC^*TL \rightarrow SL$ H6: $OC^*EL \rightarrow SL$	0.318 0.405 0.254 0.093 0.214 0.109	0.045 0.038 0.029 0.041 0.041 0.055	7.052 10.552 8.214 2.254 5.124 1.995	0.000 0.000 0.000 0.000 0.000 0.001 0.041	0.547	0.625	0.354

Table 4. Results of hypothesis testing

Notes: TL = transformational leadership, EL = empowering leadership, SL = shared leadership, OC = organizational culture, OP = organizational performance, OI = organizational innovation, OC*TL = interaction organizational culture with transformational leadership, OC*EL = interaction organizational culture with empowering leadership

interest in changing employees' behaviors to those necessary to achieve the organization's goals (Savovic, 2017; Khan *et al.*, 2018), it was determined that a transformational and empowering leader will positively influence employees' behavior and performance in the workplace, which in turn will stimulate creative initiative. The mediating role of shared leadership in strengthening the relationship between the dependent and independent variables was also investigated, and it was proven that shared leadership had a positive impact on the outcomes of many organizations (Le and Lei, 2019; Wu and Chen, 2018; Zhu *et al.*, 2018).

This study has been conducted in Iraq, a country with multiple, socio-economic and leadership challenges. In this way, the study intends to suggest some measures to improve the performance of Iraqi health sector.

A research model was developed in this study to examine the expected impact of three leadership styles, namely, transformational, empowering and shared leadership, on the success and survival of organizations. The results of the analyses supported most of the hypotheses, which indicated that the aforementioned leadership styles enhanced organizational performance, which is mainly related to individual performance resulting from job satisfaction and job commitment achieved from perception of importance and value related to important decisions of the organization. Positive results are achieved when employees realize the importance of their role and participation in decision-making. Moreover, the results confirmed the importance of organizational culture in achieving the goals of an organization and the possibility of providing a competitive advantage, thereby filling the gaps in previous studies (Klasmeier and Rowold, 2020). The results also supported the importance of the mediating role of leadership participation in realizing high performance and organizational innovation (Zhu et al., 2018; Scott-Young et al., 2019; Song et al., 2020).

Theoretical implications

In this section, the relationships between the elements of the hypothetical research model are described to easily understand the mechanism of the model and intermediate relationships of shared leadership as well as the modified role of organizational culture. A transformational leader will have an impact on employees' energy to demonstrate their best performance and commitment. This supports the findings from a previous study of Al-Amin (2017) and Buil *et al.* (2019). Meanwhile, employees' involvement in important decisions will motivate them to improve their performance. In other words, the use of leadership styles that tend to democratize work, such as by empowering and involving employees, will lead to positive results in the outputs of an organization. These results are aligned with many of the earlier studies (Alshery *et al.*, 2015; Aali and Zahedi, 2019; Hammadi *et al.*, 2021).

This study focused on aspects crucial to the work of organizations, that is, leadership theory and its impact on organizational and social structures. This study described leadership theory as the adoption of a set of leadership styles (i.e. transformational leadership, empowering leadership and shared leadership) and social dimensions represented by employees' response to leaders who motivate them to adopt innovative behavior to improve their performance expected by the organization.

Practical implications

The practical contribution of this study is crystallized in the expectation of benefits from the obtained results, as they support the findings of previous studies, which led organizations to adopt the best methods, policies and leadership styles to improve their performance and

realize organizational innovation. This development led to the non-adherence of such organizations to traditional methods of leadership, especially when the positive results of the adoption of modern methods and patterns were observed.

This study also focused on the behavioral aspect of employees by highlighting the role of a transformational leader in motivating and inspiring employees to improve their performance, thereby encouraging the spirit of teamwork, which can help achieve optimal organizational performance. The more employees feel comfortable, safe and confident in the workplace, the stronger their desire to stay and work for the organization to achieve its goals and enhance its competitive advantage. Therefore, the findings of this study will help to improve organizational performance of the health sector in Iraq through improved leadership style and employees' participation in decision-making instead of power-centered approach.

Limitations and future research directions

Claiming the existence of an integrated study in all aspects is difficult, as certain limitations must be noted. This statement applies to most studies, including the current study, though it attempted to identify how leaders can influence the performance and innovation of an organization and achieve positive results through a modifying variable, namely, organizational trust, which has yet to be examined in a standardized model. This study also attempted to focus on the two most important elements in the performance and innovation process, namely, leadership style and employees. However, limitations exist, which can be addressed in future studies. This study was conducted in the public health sector because of its large number of employees and need for leadership in managing a large, diverse and complex society. In addition, generalizing the study results is difficult, as the study focused on a government service sector. This study measured performance and innovation at the organizational level; thus, future studies should measure performance and creativity at the individual level. The results of the study are based on the data obtained from the employees working at the same levels across the different hospital. Future studies can consider employees working at different levels to determine the organizational and employees' performance. Finally, future studies may adopt other leadership styles, such as paternalistic leadership or servant leadership.

Conclusion

It can be concluded that the results of this study clearly supported the research hypotheses. The results confirmed the role of transformational and empowering leadership in the success of an organization by supporting leaders and influencing their behavior through idealized influence, support and participation in critical decisions. The results also confirmed the strength of the mediating role of shared leadership as a result of practices in the workplace as well as the positive role of organizational culture as a moderating variable in the model.

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