



Identifying Barriers to Development of the Public-Private Partnership in Providing of Hospital Services in Iran: A Qualitative Study

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ABSTRACT

Background: In recent years, public-private partnerships (PPPs) have been used to expand hospital services in many countries. Despite the achievements and implications, there have always been many challenges in implementing it. The purpose of this study was to identify the barriers and challenges in the development of public-private partnerships in hospital services in the country of Iran.

Methods: This is a qualitative study conducted in 2015- 2016 by the content analysis method. The research population included experts and health professionals and those who have contributed to the development of PPPs model in hospital services (public and private). Of these, eighteen were selected using a purposive sampling approach and were interviewed semi-structured. The MAXQDA₁₀ software was used to analyze the transcribed interviews.

Results: Four main themes and sixteen sub-themes were identified concerning the barriers to developing public-private partnerships in the provision of hospital services in the country. They are cultural and social barriers, political and legal barriers, financial and investment barriers, and structural and process barriers.

Conclusion: Officials and policymakers should identify the obstacles facing participatory patterns and then provide a suitable platform for nongovernmental organizations. This action can lead to an increase in the level of readiness of hospitals in Iran to implement this model.

Key words: Public-private partnership, Hospital services, Barriers and challenges, Qualitative study

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Introduction

According to the experience, governments cannot alone afford the health sector expenditure and provide high-quality services because they face budget constraints for providing services and there are inefficient and improper management, inefficiency, long time and high cost, and low quality of services in the public sector; hence, it is reasonable to assume that the public-private partnerships produce more favorable outcomes (1, 2).

The public-private partnership (PPP) model, which was introduced in 1990, has been widely used for constructive reforms of health sectors in several countries (3). PPP is an effective approach to cope with the enormous challenges of the health sector in the twenty-first century (4). PPP seeks to apply some principles of the private sector, including the economic equilibrium and revenues through coherent financial management to solve some significant problems in the public sector (5). In a natural competition for providing health services, public and private sectors are always attracting by healthcare seekers and income earning. This competition can be converted into partnership in the PPP to overcome constraints of each sector (6). PPP is a contractual agreement between a governmental institution and the private sector whereby the capabilities and assets of each sector are shared to provide services and facilities for the public. Furthermore, potential risks and benefits of facilities and services are shared between parties. Reducing governmental responsibilities and increasing the government's ability to plan, set standards, finance and legislate, taking responsibility for financing investments from the government, using the competition element to increase efficiency, increasing the autonomy of management and decentralization of decision making to executives are some benefits of the public-private partnership in hospitals (7, 8).

Despite the fact that the PPP implementation has many achievements and outcomes, there are always many challenges for its implementation. Problems and challenges of the

PPP implementation in the Canadian Health Department include misconceptions about the public sector, trade union opposition, and long-term contractual nature of PPP (4). Other constraints and challenges of the PPP implementation include the weak coordination between different governmental sectors, resistance to the general interest, excessive delays due to administrative, bureaucratic procedures, and the pace of changes in the healthcare sector (4, 9).

Private sector participation in public hospitals has several types ranging from easy support service contracts to complex stages of designing, building, and managing hospital facilities. Each of these models has different types of hospital ownership and management, responsibility for design and construction, as well as investment, business risks, and contract duration (2, 10, 11).

In Iran, *Moheb* nonprofit organization has provided a reasonable basis for providing optimal healthcare service by the attitude to the partnership of public and private sectors and achieving a desired participatory model to align public and private sector strengths and eliminate their weaknesses. This institute has been designing, constructing, financing, and operating new hospitals as a nongovernmental partner in the vicinity of Hasheminejad (*Moheb Mehr*), Hazrat Fatemeh (*Mohebe Kosar*) and Mirza Kuchak Khan (*Mohebyas*) hospitals. Despite the fact that the use of this model has positive changes on performance indices in public hospitals (2, 12, 13), results of studies indicated that like many other countries, there are challenges and barriers to development and promotion of these partnership models in Iran leading to the participation of public and private sectors in the provision of hospital services. The present study was conducted to investigate barriers and difficulties in implementing public-private partnerships in the development of hospital services. It is hoped that the results of the present study will help health sector policymakers to plan for modifying failures of partnership models

in hospitals to improve the existing status of health systems.

Materials and Methods

The present study was qualitative research, which was conducted by the content analysis method. The research population consisted of health experts and professionals and those people who were familiar with PPP models and played roles in the development of this model in-hospital services. Samples were selected using a purposive sampling approach and then interviewed. The sample size criterion of the study was similar to other qualitative studies until the information saturation level. Sampling was completed, where new codes were not obtained. Accordingly, interviews were conducted with 18 health system experts in the field of PPP. Among them, nine experts were representatives of the public sector, and nine were representatives of the non-public sector (Table 1).

The interview method was used to collect data. Semi-structured interviews were conducted, so that general questions were initially initiated for interviews that were conducted based on samples' responses. Interviews were conducted by setting appointments and location selection according to participants' views. After the necessary coordination, all interviews were conducted at the participant's workplaces, and they lasted for 30 to 90 minutes, depending on participants' preferences and conditions. Conducted interviews were collected according to participants' permission, and they were immediately implemented after the end of each session to be aware of data saturation time and increased accuracy and precision of text implementation.

The content analysis was used to analyze data

of each stage. Qualitative content analysis is a specialized method in processing the scientific data and is applicable to determine the existence of certain words and concepts in texts to summarize, describe, and interpret data (14). To this end, interviewers implemented text of each interview after conducting each interview. The text of each interview was studied several times to gain a comprehensive understanding of them. Besides, the implemented text of each interview was given to interviewees to make their comments or modifications. Finally, the interview text was entered into MAXQDA₁₀ for classification, and then an original code was extracted. Final codes and research themes were extracted by the partnership and use of interviewees and the research team's views, and ultimately, themes were grouped in classes and subclasses.

Various strategies were used to strengthen results such as member checks, giving the interview text and its commentary to participants, and receiving their comments and suggestions, the peer check, and the use of peer debriefing. Verification of implemented texts, codes, and extracted classes was conducted by two members of the research team that had no conflict of interest with the research.

In this research, ethics include the confidentiality of information, the right to withdraw from the research, and the informed consent of participants for interviewing and recording interviews while maintaining anonymity and confidentiality from the beginning to the end of the study.

This study was approved in Research Ethics Committee of Shiraz University of Medical Sciences (Ethics No: IR.SUMS.REC.1394.S134).

**Table 1.** Demographic status of the participants in the interview

	Workplace	Age	Work Experience		Workplace	Age	Work Experience
1	Ministry of Health and Medical Education	56	23	10	Non-profit organization (Moheb)	62	35
2	Ministry of Health and Medical Education	43	20	11	Non-profit organization (Moheb)	31	9
3	Ministry of Health and Medical Education	59	31	12	Non-profit organization (Moheb)	58	34
4	Social Security Organization	37	10	13	Non-profit organization (Moheb)	42	15
5	Medical Science University	50	22	14	Non-profit organization (Moheb)	45	16
6	Medical Science University	47	23	15	Non-profit organization (Moheb)	47	19
7	Medical Science University	45	22	16	Public- Private Hospital (mohebe- Yas)	58	35
8	Medical Science University	48	24	17	Public- Private Hospital (mohebe- Mehr)	52	17
9	Public Hospital (HashemiNejad)	41	13	18	Public- Private Hospital (mohebe- Kowsar)	46	20

Results

From 18 interviewees, all of them were male, and their mean age and work experience were 48 ± 8.94 and 23 ± 7.18 , respectively. According to results, four main themes and 16 sub-themes about barriers to the development of public-private partnerships were identified in providing hospital services in Iran, as presented in Table 2.

1- Cultural and social barriers:

Cultural and social issues, including six sub-groups, are significant problems and barriers to participatory models such as the PPP. Among these cases, negative attitudes towards the non-public sector and investors are among the most important cultural and social barriers according to participants' views. In this regard, a participant acknowledged that:

"In other countries, if anyone says I am an investor, others respect him and say that he is our savior, but in Iran, there is not such a mentality. There are groups who think that everything is going to be private, and problems are arising" (P8).

Some people also believed that the public sector had a competitive perspective compared to the private sector.

"It considered the private sector as a competitor, not a collaborator or participant. Even the government sees itself as a rival to private and nonprofit institutions (such as Moheb nonprofit institution)" (P4, P11).

Others also believed that there was no national will to do such partnership work in Iran.

"National determination is the first thing that will lead to this aim, but it does not exist in Iran. We do not want any legal requirements; there are many laws. We just want the belief. It should be at all levels of the ministry. In Iran, anyone decides and acts on its own decision" (P7).

Participants believed that public sector employees were accustomed to existing practices, and thus they would not tolerate risks of accepting private organizations; this could be a significant barrier to accepting partnership models in hospitals.

"Private company employees receive their salary, obtain their leave, so why should they



accept a higher risk? Now, the existing situation is good for many people, and they do not want to overcome this situation". Another contributor argued: "There are not coordinated views in the managerial sector of Iran. Unless this coordination is provided, any investor will not step forward". (P10)

Others believed that the public sector had fears that the private sector would reduce the government's governance and power, and thus it prevents the entry of non-public actors to the health sector.

"They feel that the entry of private sector endangers their governance and power in hospitals. They do not want to take the responsibility of public hospitals to the private sector" (P15).

2- Political and legal barriers:

Political and legal barriers are other barriers to the implementation of a public-private partnership model. Contributors believed that there was no established and consolidated legal framework for such models in Iran. In this regard, an expert said:

"First of all, we want a clear business plan, that is, a body law by which you can see the next ten years. It contains the government's tasks, and everything is obvious. We do not have such a plan yet". (P3)

The red tape and a long process of obtaining permits were other barriers that most respondents referred to. People believed that processes were complex and prolonged, and the red tape prevented investors from entering the realm of investment in hospitals. "An investor who wants to invest in this sector will have a long, difficult way to get permission. It is not related to the individual violation; the arrangement of structures and rules makes people reluctant to invest in this sector" (P7).

Another group of contributors considered the existence of contradictory laws in different organizations as a barrier to this partnership. "There is no legal security for these investments, and people, who are entering a hospital, a university or health centers as an island, will change their

mind and exit the collection after one or two years due to more controversial rules" (P14).

The political system of Iran's economy was an important issue that was considered by many interviewees as a barrier to the successful implementation of participatory models in the health sector. In such a situation, investors will not be willing to invest.

"Our economic system is political, and it thus leads to the non-trust in the future for the investment" (P5).

The non-cooperation of national institutions and organizations was another political and legal barrier. Individuals believed that the proper and successful implementation of participatory models required inter-sectoral cooperation and teamwork, and all organs and institutions should work together and participate.

"The minister now likes to develop this plan, but he is alone; the rest of organs are reluctant to do so, and do not want to disturb their peace" (P8, P17).

3- Structural and process barriers:

Structural and process barriers were the third group of barriers to the implementation of public-private partnerships. As mentioned in most interviews, the lack of codified code and transparent contracts were the most significant barriers to this field. In this regard, some experts believed that: "There are still no rules for purchasing services from the private sector; the identity and nature of these institutions are not confirmed, whether they are private or public; what tariffs they should use for working; what are types of their structure; whether they should have a board of trustees, a board of directors, or a technical officer. We did not define anything. They fail in their work until these things are not obvious". (P13)

The lack of a single insurance mechanism and transparent insurance issues is another barrier to the implementation of participatory models in hospitals. With such a mechanism, investors will not be willing to invest. In this regard, an expert believed:



"The existing insurance companies in Iran are not real; they are funds. They do not have any insurance mechanisms for themselves. The circulation of money in insurance to hospitals is a very complicated circulation that makes investors away from money". (P4)

Most experts believed that the way of choosing partners and holding tenders is very tangible and timely, leading to investors' non-willing to enter this competition.

"I think that they should hold tenders in a competitive space, properly recognize tenderers, and quickly act. They often practice based on their tastes. It takes months to advertise, leading to investors' non-willing to invest" (P5).

4- Financial and capital barriers:

Financial and capital barriers were other important identified issues in the present study. From the participants' perspective, they were significant barriers to the implementation of public-private partnerships. This class consisted of three subclasses in which the lack of guaranteed purchase by the government was identified as a major barrier. Most participants believed that there should be government guarantees for return on investment and profits for investors. Otherwise, investors would not be willing to invest in the health sector.

"Investors seek to earn money and invest where their profits are guaranteed. In Iran, the government does not purchase any service from institutions that provide macro investment in the health sector". (P7,P1)

In this regard, other identified barriers included the lack of familiarity of investment-attracting institutions with the investment literature. A participant stated that:

"Investment-attracting institutions in Iran such as the University of Medical Sciences or the Ministry of Health do not properly know the investment literature; in other words, they do not know if an investor refers to them, they should offer a package with a financial or legal or interactive or clinical model. This is not very clear, and as long as it is not clear, these models cannot be successful". (P9)

The investor's lack of investor security is another critical barrier to the implementation of participatory models. People believed that if there is not any safe environment for investors, people would not be willing to invest.

"Capital goes to a safe place with guaranteed profits and independent people. The infrastructure for this issue is our big problem. The security has not been provided for investment in Iran" (P11).

Table 2. Barriers to the development of PPP in the provision of hospital services

Themes	Sub-Themes
Cultural and social barriers	Negative thinking about the presence of non-public sector and its investors
	Lack of national belief, will and determination to do so
	Getting used to existing procedures and not accepting high risks
	Feeling of lost sovereignty and the fear of falling power in the public sector
Political and legal barriers	A competitive look to the non-public sector
	Lack of fixed legal structure and framework
	Bumpy rules, the red tape, and the long process of obtaining permission
	The existence of counter-laws in different organs
Financial and investment barriers	Political economic system of Iran
	Non-participation of national institutions and organizations
	Government's non-guaranteed purchase of services
	Investment-attracting institutions' unfamiliarity with the investment literature
Structural and process barriers	Investors' lack of confidence
	The lack of comprehensive regulations and transparent contracts for partnership
	The lack of a single insurance mechanism and a proper tariff system
	Complex and long processes in bidding, selection of partners and contract



Discussion

In the present study, problems and barriers of the public-private partnership implementation in the provision of hospital services were studied from health managers and professionals' viewpoints in the public and non-public sectors. Research results indicated that hospitals of Iran are faced with four main barriers in the process of implementing participatory models such as the PPP: cultural and social barriers, political and legal barriers, financial and investment barriers, and structural and process barriers.

Despite many achievements of the PPP implementation in most countries, there are always many challenges and problems in its implementation.

Danaeifard et al. classified the main barriers to the lack of development of public-private partnerships participation in national projects, including economic-financial, political, legal, institutional-structural, process, strategic, executive, human, and social-cultural barriers (15).

According to results, social and cultural barriers were the first barriers to the implementation of the PPP model, as mentioned in most interviews. The results of many similar studies in this field also indicated that attention to social and cultural dimensions would play an important role in the development of private sector partnerships and the promotion of PPP projects. It is essential to change public attitudes and beliefs and reform views on the presence and participation of the private sector, and non-consideration of the PPP implementation just as the privatization. The results of a study showed cultural problems and beliefs as barriers to the development of arrangements for the public-private partnership in Iran. The authors believe that the development of infrastructural projects with the PPP strategy requires a large volume of financing that cannot be achieved only by a company and it needs several companies to cooperate and participate as a consortium in these projects; however, due to the lack of a collaborative and participatory culture, the partnership and interaction of partners face

with problems after a short term, due to the occurrence of disputes; and this is a barrier to the PPP development in Iran (15). Results of a study in Sri Lanka indicated that convincing business institutions and public hospitals to implement a PPP model had been the biggest challenge. Public hospitals have had the impression that the government is moving towards the privatization of public services in Iran (16). In the implementation of PPP projects in Indonesia, public disputes were considered to be risk factors for the implementation of participatory projects (17).

Policies and laws and, in general, the sovereignty were put in the second category of barriers and problems affecting the PPP implementation. The results of various studies indicate that the inappropriate structure of laws and regulations is an essential barrier to the delivery of services in the health sector. Hewitt and Boardman (18) and Hsiao et al. (19) similarly referred to barriers to the law and regulations on the assignment (20). Sovereignty is the leading cause of providing services in any society, and thus, no real partnership can be established without providing a desirable political and legal environment. The creation of a coherent and appropriate legal framework, along with the credibility and transparency of the participation of various players, both politically and legally, are the main tasks of the sovereignty and can play very important and effective roles in the success of PPP projects (21). It is vital to design and formulate appropriate policies and rules for setting up a road map to implement PPP projects. Without a roadmap, there will be no mechanism for achieving goals and aspirations in real and coherent projects. Some governments use private-sector partnerships without developing a comprehensive policy design leading to inappropriate goals and a high probability of problems in projects (22). The existence of a credible legal structure, which supports interests of the non-public sector and property rights and recognizes commercial contracts in the international conventions governing these contracts, is a prerequisite for the implementation of PPP projects (23). It is believed



that by introducing transparent laws and changing the existing attitude towards the private sector participation, governments can change the public thought to this fact that state-controlled assets can provide wider and higher-quality services for people by private sector investment and management. According to results of a research, the PPP was successful in India mainly due to the full government's legal and political support of such projects. In 1990, a PPP project failed in South Korea due to the lack of transparency between partners. Subsequently, the government considerably revised and improved legal frameworks and the political environment for the PPP (17).

Financial and investment issues were other cases that participants considered as barriers to the implementation of the public-private partnership. Sadeghi pointed out that private sector investors required appropriate incentives to participate in PPP projects on health. These incentives can include loans with reasonable interest, low-risk projects, and reasonable profitability. If these incentives are not provided, or they are in such a way that they do not motivate investors to invest, investors will not be willing to enter such projects and will select other fields and areas for investment (24).

Ultimately, structural and procedural barriers are also identified as barriers facing PPP models. Proper preparation for projects is the main pillar of the project success. Every country selects PPP projects, relevant regulations, methods of holding tenders, and partners based on its circumstances and assets based on available attitudes and perspectives. Many countries have special legal tools of the PPP and probably refer to the process of preparing these projects in these legal tools. In countries where there are no specific rules for this partnership, governments use the adopted public procurement process in the country. Governments must be encouraged to identify and prioritize realistic goals for their public-private partnership policies. Governments should start with those projects that are most likely to succeed and be accepted and are more straight forward and more

practical (22). We can never determine the same model for different projects because each project has its own financial, technical, and legal structure. The way and selection of project implementation method and precise creation of contract documents and the selection of general terms of a relevant treaty within its framework are strategic decisions that play significant roles in the continuation of the project and its success or failure.

Conclusion

In recent years, the PPP has been widely used in the health sector of many countries, but due to some challenges and barriers to such projects, a number of these projects have failed. Therefore, the identification of effective barriers the PPP implementation and taking measures to overcome them can be effective in the success of such projects in the future. In the present study, cultural-social, political-legal, financial-investment, and structural-process factors were identified as effective barriers to the PPP implementation in hospital projects. Therefore, Iran's managers and policymakers are suggested taking measures to overcome these barriers and provide and create a suitable platform for increasing the success of such participatory projects in developing hospital services.

Considering that the present study has collected information only through content analysis approach and interviews, it is suggested that by conducting case studies and action research, substantial obstacles to the implementation of participatory models in the development of hospital services in Iran Be identified

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Conflict of interests

None declared

**Authors' contributions**

Sadeghi A and Barati O designed research; Sadeghi A and Bastani P collected and analyzed data; Sadeghi A wrote manuscript. All authors read and approved the final manuscript.

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