





Institutionalization of Health System to Combat the COVID-19 Pandemic in Iran

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INTRODUCTION

The COVID-19 crisis and the inevitable future pandemics are expected to affect not only the health of nations, but also their socio-economic characteristics. Pandemics are largely addressed with a biomedical approach. Nonetheless, the COVID-19 pandemic has reminded all health authorities to move from this perspective to a more sustainable institutional arrangement, especially in the global context of many uncertainties [1]. It is essential to ensure a functional institutional arrangement in the context of health systems through the generation of policy unit members, which may in turn conduct predominant functions in a routinized manner that will become standard practice [2].

Institutionalization is an organized system of society relations, which shapes political officials' behavior [2]. Such an environment is about stakeholders who should take a step back from their predetermined frameworks and make decisions for the population's health and wellbeing. This perspective requires more solidarity, reinforcing socially embedded norms and values, a reliable budget, a sophisticated monitoring system, enacting regulations, inter-sectoral collaboration, and strong leadership (**Figure 1**) [1]. Institutionalization facilitates the involvement of ideas into organizational structures, which might in turn result in automating actions in any situation, i.e., emergencies [3]. Such an approach is expected to promote countries' surveillance capacity in response to international public health emergencies, as also endorsed by the International Health Regulations (IHR), as well as the pandemic treaty [4].

The story of various countries' experiences in combating COVID-19 reveals the boosting effect of sustainable institutional arrangement on their outcome [5]. Some nations understood the seriousness of the pandemic rapidly and showed a relatively better performance to mitigate and control the crisis compared to others. It is noteworthy that these organized systems also focus on the management and coordination of government operations in emergency situations [6].

According to the institutional approach, individual-organizational capacity development and strong inter-sectoral collaboration are both the essential pre-requisites to combat the crisis [7]. To reach this goal, multi-sectoral committees were established to manage the pandemic and hinder differential decisions. These committees have resulted in united command and integrated decisions [6]. Hence, addressing institutional arrangement in all government sectors, i.e., health, is crucial to minimize the adverse impact of uncertainties on the sustainability of all societies.

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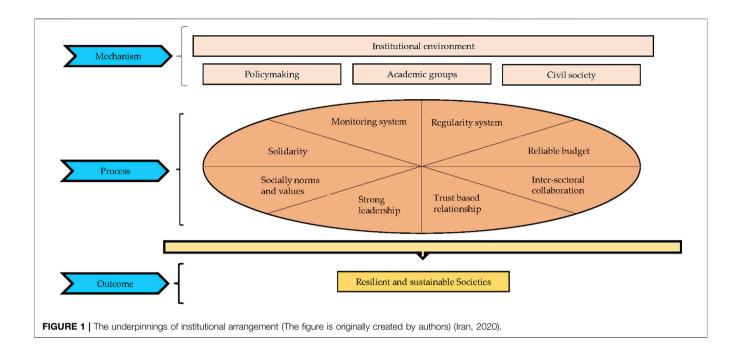
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INSTITUTIONALIZATION, HEALTH SYSTEM AND COVID-19 IN IRAN

Since the official announcement of two deaths due to COVID-19 on 19 February 2020, Iran has remained among the top 15 countries regarding the total confirmed cases; and the first country in the Eastern Mediterranean Region in terms of mortality and morbidity. On 3 January 2022, the Iranian Ministry of Health and Medical Education (MoHME) declared 194 confirmed cases of the new COVID-19 variant, which spread rapidly in a dozen Iranian provinces [8]. Enjoying a comprehensive Primary Healthcare (PHC) network, greater resiliency was expected from Iran's health system to mitigate morbidity and mortality associated with the COVID-19 pandemic [9]. However, the double burden of unilateral political sanctions [10], and delays in making some critical decisions after declaring the "Global Emergency," led to the rapid spread of the virus around the country [11].

The National COVID-19 Committee (NCC) was established to respond to this global emergency. The NCC attempted intersectoral collaboration and the involvement of various relevant actors [12]. Despite its efforts, the NCC faced challenges in fostering a meaningful inter-sectoral collaboration and integrated decision-making [11]. The inadequate coordination among policymakers, as well as dysfunctional channels of communication among various government sectors, led to incoherent measures and remarkable inconsistencies in relation to COVID-19 decision-making [10]. Consequently, the country faced pandemic waves one after another, mostly due to overlooking the most significant aspects of an institutional arrangement in the health system.

Alignment of policymakers, academic groups, and civil society in tandem is one of the most important features of an institutional

arrangement. Although the Iranian health system enjoys the existence of these three important groups at separate levels (Figure 2), fostering appropriate and effective relationships among them remains a concern [4]. For instance, the health system failed to utilize the capacity of medical universities for evidence-informed policymaking after the countrywide spread of the disease and faced some difficulties in forecasting proper estimations due to skewed use of the capacity of various disciplines scientific health economics, (e.g., epidemiology, etc.) [9]. Besides, failure to engage the civil society in policymaking and insufficient transparency led to public distrustfulness and compromised compliance. As a result, people did not take some restricting policies seriously, therefore adherence to protocols deteriorated before the onset of each of the five COVID-19 waves in the country.

Another aspect of institutionalization that needs improvement is the role and function of the Iranian Center for Communicable Diseases Control (ICCDC) within the MoHME. The ICCDC is a relatively small department under the Health Deputy of the MoHME, which was assumed to play the role of a national center for disease control and prevention in Iran [13]. However, this consisted of multiple deficiencies, listed below:

- The weak legal framework to grant the ICCDC more authority, power, autonomy, and accountability to perform its functions and responsibilities [13];
- The meaningful deficiencies to collect and analyze timely and accurate data on COVID-19 cases, deaths, tests, and vaccinations, which hampered surveillance, monitoring, evaluation, and reporting activities [11];
- The lack of clear and consistent guidelines and protocols for COVID-19 diagnosis, treatment, isolation, quarantine, and contact tracing, for prevention and control of the disease [11];

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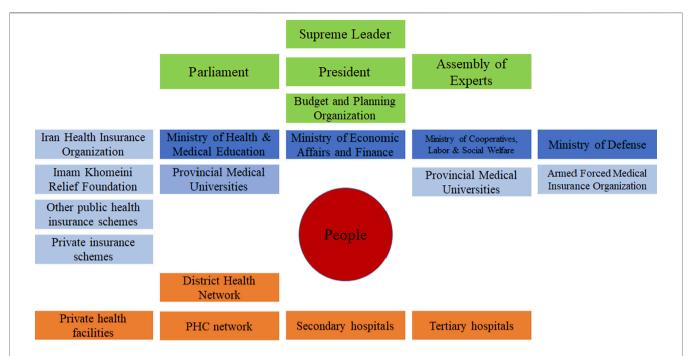


FIGURE 2 | The health sector landscape in the Islamic Republic of Iran (Source from: World Health Organization, Geneva, 2020. License: Creative Commons Attribution CC BY-NC-SA 3.0 IGO) (Iran, 2020) [4].

- The inadequate number of qualified staff, equipment, supplies, and facilities to provide COVID-19 services, especially in rural and remote areas [11];
- The insufficient amount of effective coordination and collaboration with other departments and sectors of the MoHME, as well as with other stakeholders, such as provincial health authorities, medical universities, private providers, insurers, regulators, and civil society organizations [11];
- The lack of sufficient funding and financial support to implement COVID-19 interventions, especially in light of the economic sanctions and pressures [11].

Because of these factors, the ICCDC faced several challenges in fulfilling its role throughout various aspects of the COVID-19 response, such as testing, tracing, isolation, treatment, and vaccination, as well as in coping with the high burden of COVID-19 cases and deaths, and the emergence of new variants of the virus [13]. Therefore, it is essential to enhance institutionalization of the ICCDC within Iran's health system to combat COVID-19 and other communicable diseases. This requires adopting a holistic and multi-sectoral approach that involves strengthening the capacity, governance, information system, coordination, collaboration, and funding of the ICCDC.

Conclusion

The WHO declared that the COVID-19 outbreak can only be controlled by using all government capacities through a coherent and comprehensive approach, not just the capacity of the Ministries

of Health. In hindsight, this may address the essential role of an institutional arrangement in preparing an organized system in order to take all stakeholders into consideration and build a resilient system to deal with the unpredictable global challenges. This might be achieved through access to sustainable resources and integrated decision-making, where various interests, political rivals, and civil society interplay appropriately. Indeed, countries that showed a better performance in combating COVID-19 put inter-sectoral collaboration, through a whole-of-government/whole-of-society approach for instance, at the heart of their institutional mechanism to deal with emergencies. Iran, similar to many other countries, needs to strengthen its institutional approach, aiming to improve its resiliency, along the pathway of preparation to face future likely pandemics, drawing upon lessons learned from the COVID-19 crisis.

AUTHOR CONTRIBUTIONS

AT conceived and supervised the study and critically revised the manuscript. HH (the first author) collected data, and drafted the manuscript. AR contributed in drafting manuscript. AT is guarantor. All authors contributed to the article and approved the submitted version.

CONFLICT OF INTEREST

The authors declare that they do not have any conflicts of interest.

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