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Social Development and Revolution in Iran

ABSTRACT The scholarship on the consequences of social revolutions contends that social revolutions boost state capacity and strengthen the state's developmental projects. Social justice and addressing the needs of ordinary citizens were central themes in the discourse of the Iranian Revolution and the Islamic Republic that emerged as the post-revolutionary regime with the fall of the monarchy in Iran. In this essay, I assess the performance of the post-revolutionary state in Iran according to various development indicators, comparing the post-revolutionary regime with the pre-revolutionary regime. My examination of indicators relating to health, education, poverty, income inequality, and housing presents more of a mixed result than the overall improvement that scholarship has anticipated and that the post-revolutionary regime promised. Furthermore, there is evidence of declines in some important areas of development and welfare provision. Based on this analysis, I propose directions for future research on the developmental outcome of revolutions. KEYWORDS revolution, war, development, welfare, Iran

The social effects of revolutions have been the subject of scholarly debate within comparative historical sociology (Beck 2017, 2020). Most importantly, Theda Skocpol (1979, 1995), in her analyses of the French, Russian, and Chinese Revolutions and the American Civil War, argued that social revolutions and wars could boost the state's capacity, bring social equality, and lead to the formation of social policy. In 1979, the same year that her *State and Social Revolutions* was published, this argument faced a serious challenge with the outbreak of a revolution in Iran that did not align with her theoretical model of the major causes of social revolutions. Skocpol had argued that social revolutions occurred in countries where a breakdown of the state resulted from an international crisis and that ideology did not play an important role in such revolutions. The Iranian Revolution of 1979 defied both parts of her argument, leading her to write an article a few years later (1982) contending that it did not extend to a case such as Iran. Over the last four decades, Skocpol's theory of the causes of revolutions has been much scrutinized (Burawoy 1989; Mahoney 1999), but her contentions about the consequences of revolutions have not been extensively assessed.

Now, 40 years after the Iranian Revolution, we are in a good position to assess its outcomes. Social justice and serving ordinary people were among the major themes in the Iranian Revolution and for the Islamic Republic since its inception. A month after the fall of the monarchy, in a famous speech, Ruhollah Khomeini (1979), the leader of the Iranian Revolution, promised to improve the lives of Iranians in terms of both material

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and spiritual welfare. He also promised housing, free electricity, and free water. These promises are still remembered by ordinary Iranians when they reflect on the performance and legacy of the Islamic Republic. Themes of social justice and welfare provision also find a home in the Constitution of the Islamic Republic. The introduction has a section on the economy that says that "meeting the human needs for growth and evolution" is the main principle of the organization of the economy. Accordingly, "Islam's economic program is to provide the apt conditions for various human capacities to flourish. As a result, it is upon the Islamic government to provide employment for all and to meet all necessary human needs." Article 3 obliges the government to use its capacities to provide free education and welfare, and to eliminate poverty and all deprivations in nutrition, housing, employment, and health. Furthermore, since 1989, the Islamic Republic has passed six five-year development plans (Majles-e Showra-ye Eslami 1989, 1995, 2000, 2005, 2011, 2016), among whose major goals are promotion of social justice, reduction of poverty and income inequality, health provision, housing provision, expansion of education, and the advancement of economic growth. How has the Islamic Republic lived up to these promises and plans, four decades after the revolution? Was it an inclusive social revolution, as anticipated by the theories of revolutionary outcomes?

Social development has been the subject of inquiry and debate among scholars of Iranian politics and society, and studies have examined various policy outcomes in Iran in different periods. About a decade ago, Iran's prominent historian Ervand Abrahamian (2009) argued that the Islamic Republic's achievements in education, health, poverty reduction, subsidies, service provision in rural areas, and welfare provision in general have made the regime resilient and contributed to its survival despite various domestic and international challenges. The argument proposed by Abrahamian then has been expanded and elaborated by other scholars of development and welfare in Iran. In his 2017 book A Social Revolution: Politics and the Welfare State in Iran, sociologist Kevan Harris focused on development and welfare before and after the revolution and inquired about the effect of the revolution and war on such outcomes in Iran. Harris deserves credit for asking the question about the social consequences of revolution and war and for bringing Iran into existing debates at the global level about the drivers of welfare and development. Both before and after the 1979 revolution, according to Harris, Iran had had developmental and welfare states; but the welfare and development projects since the revolution have been more "inclusive" than those before the revolution, which were "exclusive." He then argues that this inclusive character is due to greater popular mobilization and the more competitive politics in place from the 1979 revolution onward. As evident from the argument and the title of the book, this contention is, in a way, a variation and extension of Skocpol's argument about the positive effects on development and welfare of social revolutions and wars. A Social Revolution is an important contribution to the studies of welfare and development in Iran and an ambitious attempt to provide an explanation for major transformations in Iran's welfare provision and social development (for another example emphasizing the Islamic Republic's policy success, see Ameli 2020). However, this argument about the effective state performance in the area of social development is challenged by other scholars of Iran's social development. Political economists writing in a recent

edited volume, *Economic Welfare and Inequality in Iran: Developments since the Revolution* (Farzanegan and Alaedini 2018), give more of a mixed picture of the performance of the Islamic Republic in terms of development and welfare. This volume covers a variety of related subjects, including income inequality, the size of the middle class, oil rents, housing costs, gender inequality in the labor market, aging, and sanctions. A major advantage of this book is that it offers well-specified hypotheses, clear definitions, and relevant data from sources such as Iran's censuses, central bank, and the World Bank. Another analysis of social development, by economist Masoud Karshenas (2015), also concludes that the Islamic Republic has underperformed in the provision of health and basic education, when compared with Egypt and Turkey. Finally, studies by Djavad Salehi Isfahani (2017, 2019) point out policy successes since the revolution, along with several significant policy failures.

In this essay, I argue that the results of revolution and war for social development are mixed at best; we observe improvement in some indicators, continuation in some indicators, and decline in some (important) indicators. I support this argument with new analysis and data from Iran's censuses and statistical yearbooks. I situate my analyses of the data in dialogue with the prior literature on this topic. I find that the consequences of the Iranian Revolution present further challenges and complications for Skocpol's theory.

SOCIAL DEVELOPMENT

According to Amartya Sen (1999, 2001), development should be assessed by how it expands peoples' capacities and freedoms to do what they value to do. There are instrumental freedoms, then, that contribute to people's overall freedom and capacities: "What a person has the actual capability to achieve is influenced by economic opportunities, political liberties, social facilities, and the enabling conditions of good health, basic education, and the encouragement and cultivation of initiatives" (Sen 2001:507). In this article, I focus on the enabling conditions of health and basic education, as well as on poverty and income inequality, which are obstacles to economic opportunity. I call these aspects of development "social development" to distinguish them from notions of either political or strictly economic development.

Various indicators have been used in analyses of welfare and social developments in Iran, including life expectancy, infant mortality, literacy, poverty, and income. Here, I discuss their role in the existing literature and how their trendlines compare in the periods before and after the revolution. Some, such as infant mortality and literacy, show continuity before and after the revolution, and for these I present charts that speak to the pace of change across the two periods. The data on doctors, hospital beds, and housing are presented for the first time in this article. This is of course not an exhaustive list of development indicators, but they still provide a multidimensional picture of social development in Iran before and after the revolution.

The revolution of 1977 to 1979 occurred at the end of a period of economic growth that lasted from the mid-1950s to the mid-1970s. Following the revolution, Iran entered a period of rapid economic decline. Real GDP per capita dropped to 54% of its 1976 peak. As Hadi Salehi Esfahani and M. Hashem Pesaran (2009:192–93) write: "Many

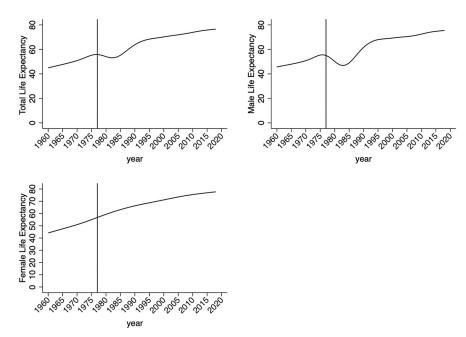


FIGURE 1. Life Expectancy (in Years) in Iran, 1960–2018 Source: World Bank.

factors account for this decline, particularly the high political risks for private investors after the Revolution, the exodus of large numbers of skilled professionals, adoption of adverse economic policies, falling oil revenues, and the highly destructive war with Iraq." In an innovative recent article, Mohammad Reza Farzanegan (2020) estimates that as a result of the revolution and war, the average Iranian lost a total of USD 34,660 between 1978 and 1988. While GDP per capita is an important indicator of development, there are other non-income indicators that could be more informative about welfare and social development than income. But income is still relevant to other indicators of welfare, as it provides resources for welfare provision.

Life expectancy is another indicator of social development, and it can tell us more than GDP about the welfare consequences of the Iranian Revolution. Scholars of social development in Iran have examined life expectancy in terms of welfare provision but with contrasting conclusions. Drawing on World Bank life expectancy indicators, Harris (2017) argues for the effectiveness of social development since the revolution, while Farzanegan (2021) estimates that, in the absence of revolution and war, the average life expectancy of an Iranian between 1978 and 1988, could have been six years longer. Why do we see such a discrepancy in conclusions about post-revolution life expectancy in Iran? It seems to result from looking at different indicators of life expectancy and the period of data presentation. Harris (2017:6) only considers data on *female* life expectancy, and only for the period after 1980. We do observe an upward trend in female life expectancy after the revolution, but this trend began before the revolution (Figure 1). If the country was going through an inclusive social revolution after 1979, or more effective design and

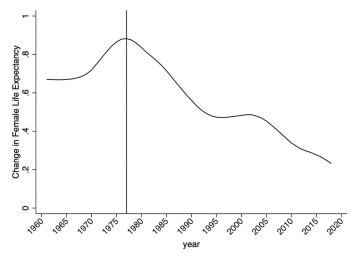


FIGURE 2. Improvements in Female Life Expectancy (in Years) in Iran, 1961–2018
Source: World Bank.

implementation of social policies, we would observe a discontinuity after the revolution, with larger increases in female life expectancy, but the chart shows continuity rather than rupture. On the other hand, we observe a clear decline in male and overall life expectancy during the period of revolution and war, which Harris has not presented in his analysis. Farzanegan uses total life expectancy (including both male and female) for his analysis. The charts for male and total life expectancy show a negative jump, implying destructive effects of revolution and war on the life expectancy of Iranians. The World Bank is a trusted and widely used source of data in cross-national studies on various topics, but it is possible that part of the decline in male and overall life expectancy in Iran is the result of overestimating the casualties of the Iran–Iraq War. This concern needs additional investigation.

While the decline of overall and male life expectancy after the revolution undercuts the idea of a social revolution in Iran, details of female life expectancy further complicate the argument about an inclusive social revolution in Iran after 1979. Figure 2 depicts the change in female life expectancy by subtracting the value in each year from that of the previous year. We can see that the slope is steeper before the revolution.

In all the years before and after the revolution, female life expectancy has been increasing in Iran, but before 1978, this increase was accelerating, while after 1978, it slowed. If we imagine the state as a car driving on the road to longer female life expectancy, up to 1978, the car's speed was increasing; after 1978, it was still going forward, but with decreasing speed every year. The shah's personalist autocratic rule and the limited nature of the political process, especially after 1963, rendered his developmental project vulnerable to upheavals such as the revolution, but the comparison of female life expectancy before and after the revolution further challenges the argument for an inclusive social revolution after 1979.

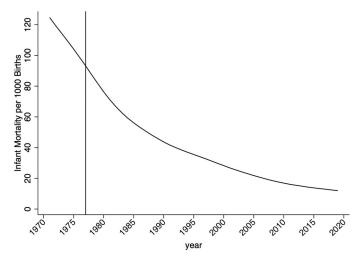


FIGURE 3. Infant Mortality in Iran, 1970–2019 Source: World Bank.

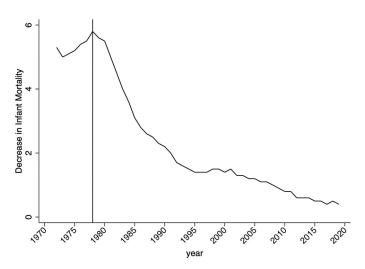


FIGURE 4. Changes in Infant Mortality in Iran (Number Saved Compared to the Previous Year), 1971–2019 Source: World Bank.

Infant mortality is another useful indicator of social development in a country. The infant mortality rate has declined continuously, before and after the revolution (Figure 3). Harris (2017:8) presented this data, but only for after 1980, to support the effectiveness of social development under the Islamic Republic. To compare pre- and post-revolutionary welfare trends, we must draw on the data from both periods. If we look at the changes in the downward trend of infant mortality, we again observe a turning point around the revolution, which points to a negative effect on the expansion of welfare provision (Figure 4). From 1978 onward, the infant mortality rate in Iran has

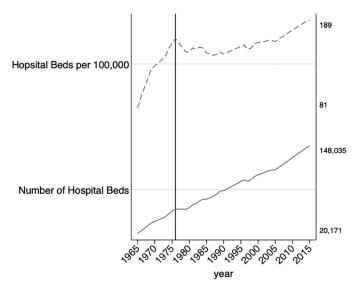


FIGURE 5. Hospital Beds in Iran, 1965–2015 Source: Iran's statistical yearbooks (various years).

continued to decrease, but with a decreasing speed. For both female life expectancy and infant mortality, it is natural for the pace of change to ease as a country makes progress, but it is still significant that the inflection point from acceleration to deceleration occurs over the time of the revolution.

Life expectancy and infant mortality are both related to a state's capacity to expand health institutions and increase the number of practitioners in the country. Accordingly, we can also measure the rate of increase or decrease in the number of hospital beds and doctors in the country before and after the revolution, using data from Iran's Statistical Yearbooks. Figure 5 presents the raw number of hospital beds at the bottom and the number per 100,000 citizens at the top. The ratio of hospital beds to population increased up to 1976, the last year before the revolution for which data are available. In this year the ratio reached 166, but in 1979, it had dropped to 149. The ratio of 1976 was not reached again until 2007, about three decades after the revolution.

Figure 6 shows a similar pattern in the number of doctors. The number of doctors peaks at 16,937 in 1979, but then starts declining, to 9,852 in 1983. In terms of doctors per 100,000, the country does not catch up with the 1979 ratio of 45 until 2006. To show the effectiveness of health provision under the Islamic Republic, Harris (2017:171) quotes a former health official who claims that, as a result of the efforts of the Ministry of Health, "The number of doctors had doubled just during the war years alone." Per the data shown in Figure 6, this claim is false. This discrepancy between official documents and figures and statements by officials reminds us yet again that statements by officials can at best be used as supplementary rather than as substitutes for original documents.

None of the indicators we have examined thus far supports the idea of an inclusive social revolution after 1979. The period of revolution, 1977 to 1979, is a turning point in life expectancy, infant mortality, the ratio of hospital beds, and the number

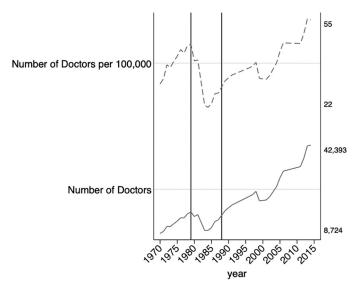


FIGURE 6. Doctors in Iran, 1970-2015 Source: Iran's statistical yearbooks (various years).

of doctors—that is, an inflection point from acceleration to deceleration of positive change, or a clear slowing and decline. Rather than strengthening state capacity, it is evident that the revolution and war have slowed state performance in some key areas of welfare provision.

In addition to doctors and hospitals, Harris documents other components of Iran's health system, for example, the expansion of "health houses" (khane-ha-ye behdasht) under the Islamic Republic. These are clinics in both rural and urban areas, staffed with health practitioners, that provide lower-skill health services locally. Hoodfar (2010) argues that they have made an important contribution to population control by providing information and family planning services in rural areas. Harris presents data from Iran's Statistical Yearbooks that show an upward trend in the expansion of health houses and the coverage of the rural population from 1983 onward. While this is an important achievement, the context is also important. The first health house in Iran was founded in 1973 in the village of Qara Chorlu. The main idea for this facility was reliance on a staff of non-doctors to provide primary healthcare. At the time, this was known as the Reza'iye plan (for the name of the area), and it was implemented in some other villages as well. According to Yazdani (2020), there were 1,422 health houses in Iran in 1977. In 1978, the Ministry of Health adopted the Reza'iye plan to expand health services throughout the country.² That is, the plan was developed and adopted before the revolution. Given what we see in other indicators such as doctors and hospitals, it is plausible that the outbreak of the revolution and war might have slowed the implementation of the Reza'iye plan.

Literacy is another important indicator of social development. The charts at the top of Figure 7 present rates of literacy, based on censuses before and after the revolution. The chart at the top right breaks down the total literacy rate into urban and rural rates, as the

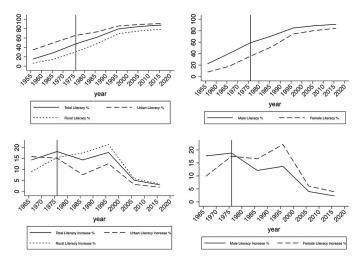


FIGURE 7. Literacy Rates in Iran, 1956–2016 Source: Iran's Statistical Center, based on censuses of 1956, 1966, 1976, 1986, 1991, 1996, 2006, 2011, and 2016.

chart at the top left does for gender. The charts at the bottom show increases in literacy rates for total, urban, rural, male, and female for every decade captured in censuses. In general, literacy has been increasing before and after the revolution. In other words, the progress since the revolution has continued a pre-revolution trend. Importantly, however, the gaps between urban and rural and between male and female have narrowed since (but not before) the revolution.

As with life expectancy and infant mortality, it is useful to consider the pace of improvement in each period. The largest increases in urban and male literacy occurred before the revolution, during the periods of 1956 to 1966 and 1966 to 1976 (bottom of Figure 8). In rural and female literacy, however, the largest increases occurred after the revolution, during the periods of 1976 to 1986 and 1986 to 1996. In terms of improvements in total literacy, the pre- and post-revolutionary regimes seem to be on par, with the largest increase (18.1%) from 1966 to 1976, and the second-largest (17.7%) from 1986 to 1996. The diminishing gaps between urban and rural and between male and female literacy rates points to more inclusive literacy campaigns after the revolution. Note that the proportion of urban to rural population has been increasing throughout the last century as Iran has become more of an urban society.

A number of conclusions can thus far be drawn about social welfare in Iran before and after the revolution. First, we should be looking at multiple indicators, as there might be discrepancies across different policy outcomes. Second, we should examine indicators before and after the revolution. Third, when we observe continuity in an indicator, such as female life expectancy or infant mortality rate, we should consider the pace of change as well. For rural and female literacy we observe larger gains after the revolution, but other indicators examined here do not point to better or more inclusive performance after the revolution in terms of welfare or development. We also know that, since the revolution, there has been considerable improvement in services, such as piped water and electricity,

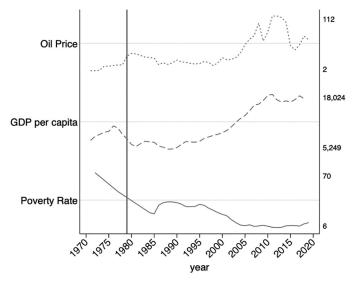


FIGURE 8. Oil Price, Iran's GDP per Capita, and Poverty Headcount

Sources: Our World in Data, Maddison Historical Statistics, Djavad Salehi Isfahani (2019).

Note: The main source used to generate the poverty rate is the Household Income and Expenditure Survey, which has been conducted in Iran at the household level since 1968, every year except for 1976, 1979, and 1981. The household-level micro-data, however, are only available since 1984. The data presented here for before 1984 are based on only two data points (1972 and 1977), which Djavad Salehi Isfahani has calculated based on aggregate tables available for those years from Iran's Statistical Center. The data for after 1984 are also calculated by Salehi, based on household-level micro-data.

to rural areas (Salehi Isfahani 2019). It thus appears that since the revolution strong social development improvements have occurred in rural areas. What is ironic is that the Iranian Revolution was primarily an urban revolution.

Other relevant indicators show effective improvement in the life of Iranians after the revolution. For example, thanks to the efforts of Iranian economist Djavad Salehi Isfahani (2017), we know that since the revolution the poverty rate (the percentage of the population living on an average of USD 5 PPP per person per day or less) has fallen, and the middle class has grown. Harris (2017:178) presents Salehi Isfahani's data on poverty rates since the revolution to show the effectiveness of the new social policies. The reduction of poverty from 1995 to 2011 is indeed a considerable policy success, but note that it occurs during a period of economic growth induced by booming oil prices. The importance of this context is downplayed in Harris's work (2017:177): "Although oil prices are usually associated with welfare outcomes, in theory, through the spoils of rentier-state distribution, poverty trends in Iran do not neatly follow the oil markets." Nevertheless, there is an obvious overlap between rising oil prices, rising GDP per capita,

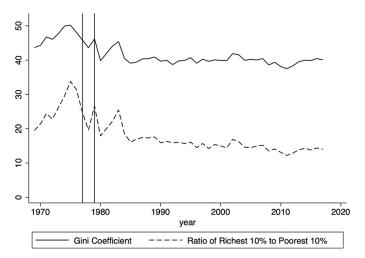


FIGURE 9. Income Inequality in Iran, 1969–2017 Source: Iran's Central Bank. Both of the indicators presented here are based on the Household Income and Expenditure Survey. Note: The Gini coefficient here is multiplied by 100 so as to be presented on a scale similar to the ratio of 10% richest to 10% poorest.

and the reduction in poverty (Figure 8). Populist government spending is plausibly an important part of this poverty reduction, but so is oil-induced economic growth. As Salehi Isfahani (2017:125) writes,

The role of economic growth, which has mostly been oil-induced, is undeniable. When oil prices increased, poverty dropped, whether under the shah or the Islamic Republic. The decomposition of the change in poverty shows that economic growth, especially during the oil boom, has played an important part in reducing poverty.

Even with reliance on petrodollars, reducing poverty is a remarkable achievement, but since this was already occurring before the revolution, one could ask how the post-revolutionary reduction in poverty (during a period of economic growth) is different. Furthermore, when we recognize the role of oil-induced growth in poverty reduction, we can ask important questions about different policy outcomes and oil-induced economic growth. For example, we observe that oil-induced growth in Iran has paralleled poverty reduction, but we do not see a similar relationship with income inequality. Again, as Salehi Isfahani notes, Iran's policies have not been highly effective in reducing income inequality. As Lob (2018) also points out, Iran's inequality is worse than the Middle East's average, and similar to its neighbor Turkey, which has not gone through a revolution with social justice as its main slogan.

Figure 9 presents the trend in income inequality in Iran before and after the revolution. It should be noted that Iran does not have an effective and transparent system of taxation. As a result, we lack high-quality data on the extent of income inequality in the country; but the existing data are consistent enough to compare the pre- and

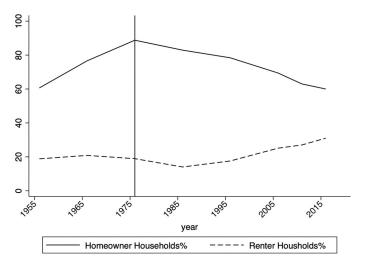


FIGURE 10. Percentage of Homeowner and Renter Households in Iran, 1956–2016

Source: Iran's Statistical Center, based on the censuses of 1956, 1966, 1976, 1986, 1996, 2006, 2011, and 2016.

post-revolution situations. The data for Iran are based on a household survey the government has been conducting since 1968 that includes extensive detail on the income and expenses of families. A shortcoming of these data is that they do not include the highest income earners, because of the sample size (Salehi Isfahani 2017). Better-quality data with which to examine income inequality would be government tax receipts (Piketty 2014, 2020).

The country experienced its greatest income inequality before the revolution, during the oil boom of the 1970s (Figure 10). This is a period during which the shah had focused on economic growth, without much regard for redistribution. Nonetheless, inequality began to diminish before the revolution, and this level was never again reached under the Islamic Republic. We observe another reduction in inequality immediately following the revolution, which seems to be the result of the revolution's negative consequences for high earners (Farzanegan and Alaedini 2018:22). As Salehi Isfahani (2017:129) notes,

No doubt the Revolution had a lot to do with the fall in the Gini index, but not because of deliberate economic or social policies. Rather, the upheavals of the Revolution and the war with Iraq caused a disproportional decline in incomes at the top, properties were confiscated, richer families fled, and the war economy and rationing spread.

Scholars have noted a second reduction in income inequality in 2011, which resulted from a cash transfer policy (discussed below). While Iran then reached its lowest income inequality, according to existing indicators, it did not endure—see Figure 9 (Karshenas and Tabatabai 2019). Overall, income has been more equal in the post-revolutionary regime, in the sense that it has not returned to the high inequality of the 1970s.

Nonetheless, the trends under the Islamic Republic show continued stagnation and no improvement through redistributive policies.

There are certainly success stories since the revolution. Some are continuations of Pahlavi-era policies, as evident in infant mortality and female life expectancy, which have continued to decline, albeit at a slower pace. Some surpass Pahlavi's successes, such as the increase in literacy in rural areas and among women since the revolution (which does not correspond with economic growth) and poverty reduction (which is related to oilinduced economic growth). Population control and lower fertility rates are among other post-revolutionary successes (Abbasi-Shavazi, McDonald, and Hosseini-Chavoshi 2009; Ladier-Fouladi 1997). The leaders of the Islamic Republic adopted this policy of population control after dismantling Iran's new population control policy in the first years of the revolution, and then seeing a sudden increase in population growth in the country (Hoodfar 1994; Hoodfar and Assadpour 2000). At the same time, there are welfare policy failures after the revolution, such as the government's poor performance in creating jobs (Salehi Isfahani 2019), some areas of health provision (male life expectancy, ratio of doctors to population, and ratio of hospital beds to population), and housing (see Figure 10 for the rates of homeowners and renters before and after the revolution).³ As the decline in the ratio of doctors and hospital beds to citizens shows, state provision of some health services to the population has declined since the revolution.

To reflect the complexity and heterogeneity of different policy outcomes before and after the revolution, we need to go beyond categories such as "inclusive" and "exclusive." In her ethnographic analysis of women-only spaces in Tehran, sociologist Nazanin Shahrokni (2019) presents an alternative approach through the concept of "differential inclusion/exclusion," arguing that policies can have both inclusionary and exclusionary outcomes simultaneously, or at different times. The mixed results of policy outcomes and the decline in some important state services reviewed here present more of a challenge to the expectations drawn from Skocpol's theory about the social effects of revolutions and wars. Rather than expecting a full improvement or decline in all development outcomes, it might be theoretically and empirically more fruitful to examine these areas separately and then try to understand the overall transformations in social development as a result of revolutions.

Overall, it appears that the argument presented for an inclusive social revolution after 1979 (Harris 2017) is based on a glowing report of post-revolution success stories without the requisite background and context. As Iranian political economist Mohammad Maljou has suggested, such a framework introduces systematic selection bias in the argument for better social development and health provision after the revolution and war. In his response to Harris' book, Maljou states that the argument for an inclusive social revolution after 1979 rests on underreporting welfare under Pahlavi and exaggerating welfare provision after the revolution. After one accounts for these two errors, Maljou says, "the idea of an inclusive social revolution to a large extent melts into air like smoke" (IBNA 2019). A recent review of Harris' book by Farshid Yazdani (2020), a researcher in Iran's social policy, points to many factual inaccuracies and errors in the argument that exaggerate development performance since the revolution and understate

it before the revolution. Among other things, Harris (2017) underreports the number of individuals covered by insurance before the revolution (61) and Iran's GNP in the 1960s, overreports average family size before the revolution (126)—which exaggerates the reduction in fertility rates after the revolution—and underreports the reduction in legal age of marriage after the revolution (133).

POLITICS AND SOCIAL DEVELOPMENT AFTER 1979

Thus far, I have argued that existing evidence does not support an overall improvement in social development and state capacity in Iran after the revolution, contrary to the expectations of theories about the positive effect of social revolutions on states' developmental capacity (Skocpol 1979, 1995). Nonetheless, it is still worthwhile to consider how post-revolutionary politics have affected social development and the state in Iran. Even though repression, exclusion, and authoritarianism remained as predominant features after the revolution, the configuration of Iranian politics underwent drastic changes.

First, elite competition and factionalism drastically increased compared with 1963 to 1977. The factional feature of Iranian politics is a widely recognized dynamic in post-1979 Iran and has been the subject of scholarly analysis and investigation (Ayatollahi Tabaar 2018; Keshavarzian 2005; Moslem 2002). Second, popular mobilization has increased since 1977. This has manifested itself both in anti-government mobilization using armed and unarmed methods, and in mobilization by and within the state. In the 1980s, war mobilization by the state and insurgent mobilization against the state were the main forms of popular mobilization. Since the 1990s, electoral mobilization has also become an important dynamic. Scholars of Iranian politics have examined the dynamics of different episodes of contention and the interaction of popular mobilization and elite politics through different post-revolutionary periods (Alemzadeh 2018; Kadivar 2013; Kadivar and Abedini 2020; Mashayekhi 2001; Moghadam and Gheytanchi 2010; Rivetti 2020). Third, since 1979 Iran's foreign policy has become more confrontational, and Iran has been part of more regional and international conflicts. Scholars have disagreed on the cause, but this greater level of conflict is a fact recognized by scholars of Iran's foreign policy and international relations (Byman et al. 2001; Ramazani 2013; Walt 1997).

While these changes are widely known among scholars of Iranian politics, the manner in which they have affected policy outcomes is the subject of debate and disagreement. Furthermore, since post-revolutionary social development outcomes vary in terms of improvement or decline, it is analytically necessary to consider how each of these mechanisms has served or undermined social development since the revolution.

Regarding factionalism, one approach contends that the increased elite competition since the revolution has contributed to further expansion of the welfare state and more inclusive social development. An important mechanism (in this approach) is the emergence of parallel welfare institutions due to factional competition (Harris 2017). Plausibly, to gain popular support, some factions have sought to expand welfare provision as part of their competition with other factions, although this hypothesis requires further

specification and empirical evidence. But it is also plausible that factions block each other's programs, for similar reasons. Furthermore, factions are likely to pack state bureaucracies with their cronies to expand their access to the spoils of the office. This is likely to undermine bureaucratic performance and increase corruption. For example, we know from the work of political economists that factionalism may harm economic growth (Kjetil, Farzanegan, and Friedrich 2013). Or, as Nazanin Shahrokni (2019) shows in her sophisticated and informative study of women's demand to access sports stadiums in Iran, factional politics becomes detrimental to the cause, because each faction does not want another faction to take credit for giving women access to sports stadiums.

The example of cash transfers is telling here as well. In 2011, under President Ahmadinejad, Iran started a direct cash transfer program, which notably reduced income inequality in the country (Salehi Isfahani 2017). The program was related to reforms in energy subsidies, a policy that was discussed in Iran some years earlier. The Khatami administration (before Ahmadinejad) tried to start the subsidy reforms, but the process stalled due to resistance from the conservative parliament at the end of Khatami's administration. There were debates in the country as to whether to adopt a targeted cash transfer or a universal cash transfer after the subsidy reforms. In 2005, Mehdi Karrubi, a reformist candidate, proposed in his electoral campaign a universal cash payment to each Iranian citizen. But he did not win that election, and his electoral promise was not fulfilled. Karrubi objected to voting irregularities, but his complaints fell on deaf ears, and Ahmadinejad won. In 2011, finally, both subsidy reforms and cash payments were implemented, and under Ahmadinejad's presidency, the government also decided to conduct a universal cash transfer.

How the policies were developed, blocked, and postponed in the context of elite competition is noteworthy. Furthermore, the reforms in energy subsidies finally occurred when the state had become more unified, after 2005, as conservatives dominated both the executive and the legislature. In other words, at this time, factionalism had diminished, as reformists lost control of the legislature and executive in 2004 and 2005. The conservatives then implemented policies that reformists had developed and promoted earlier.⁴

It has been claimed that revolutionary and post-revolutionary popular mobilizations have contributed to the expansion of welfare in Iran—for example, that the universal cash transfers of 2011 were the result of the 2009 Green Movement protests, although this claim lacks empirical support (Harris 2017). A more developed and specified version of this argument is presented by Lob (2020), regarding Reconstruction Jihad (RJ) and its health and literacy campaigns in rural areas. RJ was a revolutionary organization, formed in 1979 after the fall of the monarchy, that allied with Islamists and focused on rural development. Lob's argument about the developmental campaign of RJ in rural areas relates to the post-revolutionary expansion of literacy in rural areas presented in Figure 8. Lob argues that, in addition to health and development provisions, RJ also attempted to drive leftist organizations from rural areas. At the same time, Lob pays attention to the exclusionary efforts of an organization, such as RJ, in tandem with their developmental efforts to include the rural population in its access to different developmental services.

Accordingly, one can also investigate other detrimental effects of the intense mobilizations of the 1980s.

In another important analysis of mobilization and social policy, Hoodfar (2010) documents how the mobilization of about a hundred thousand voluntary female health workers was integral to Iran's success in implementing the population control policy. These volunteers also contributed to improving the provision of other health services in their communities. Some volunteers expressed interest in expanding their activities and in maintaining their volunteer network for future projects, but state officials dismissed such initiatives and did not facilitate the formation of an independent social organization out of this vast network of volunteers.

In addition to the positive effects, a comprehensive account of mobilization and social development would also consider how mobilization has contributed to loss of life in Iran, particularly for young men in the 1980s, a decade of intense political violence. From 1977 to 1979, the monarchy killed about 2,000 people, mostly men, during street protests. In the Iran–Iraq War, about 180,000 people were killed. Many members of insurgent groups such as Mojahedin-e Khalq and Kurdish fighters were killed in armed clashes with government forces. The government also executed thousands of opposition members, from leaders to the rank and file, along with royalists, leftists, and ethnic and religious minorities such as the Baha'i. It is thus reasonable to consider all the lives that were lost during the mobilizations from 1977 to 1988. At the same time that serious efforts were being undertaken to improve the life of rural Iranians through education and service provision, lives were being lost to mobilization. The level of popular mobilization in Iran has increased since 1977, but so has the level of repression and political violence.

In addition to the physical harms and resentments caused by popular mobilizations in 1977 to 1988 (Ehsani 2016), the psychological consequences of the trauma experienced during post-revolutionary mobilization and violence are also valid topics for investigation. In her ethnographic study of the psychiatric discourse within Iranian institutions, Orkideh Behrouzan (2016) documents how in the 1990s, after the end of the war, a psychiatric discourse emerged in Iran around rising psychological problems, such as heightened levels of depression, among the urban population. Data from Iran's Statistical Yearbooks on the rate of suicide in the country from 1968 to 2015 are consistent with Behrouzan's argument (Figure 11). Following the end of the Iran-Iraq war, the annual suicide rate increased from about one per hundred thousand to over four per hundred thousand. This is consistent with prior literature on the effect of war on suicide rates (Marshall 1981). For example, an analysis of suicide in Northern Ireland found that the cohort of children and young people that grew up during the period of most intense violence have higher levels of suicide and more rapidly rising suicide rates, compared to earlier and later cohorts (Tomlinson 2012). The relationship of war and suicide in Iran thus also deserves further attention and investigation.

Finally, in terms of the effect of foreign policy on social development, one approach contends that the anti-systemic tendencies of the Islamic Republic's international politics have provided strong motivations for the country's leadership to pursue developmental policies (Harris 2017). Movahed (2020), for example, documents how Iran developed

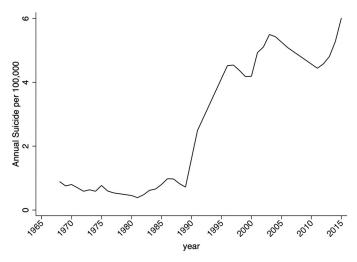


FIGURE 11. Annual Suicide Rate in Iran, 1968–2015 Source: Iran's statistical yearbooks (various years).

and expanded a dynamic auto industry under sanctions. Similarly, part of the Islamic Republic's leadership has maintained on occasion that superpowers can do no damage to the country, and that sanctions cannot harm Iran's economy. For example, Iran's leader, Ali Khamene'i, has claimed that "sanctions cannot harm us Under some conditions, sanctions can even benefit us; because it increases our efforts and activities" (BBC Persian 2016). However, scholars of political economy, and critics within Iran of Iran's foreign policy, have highlighted the high economic cost of international confrontations, especially in the form of sanctions on Iran's oil and banking sectors. This approach documents the negative effect of sanctions on economic growth in the formal and informal sectors, and the cost in household welfare among different income groups (Farzanegan and Hayo 2019; Farzanegan, Khabbazan, and Sadeghi 2016; Shahrokni 2021). Both before and since the revolution, Iran has pursued developmental projects, but postrevolutionary, confrontational foreign policy has limited these efforts in important ways. Sanctions, of course, reflect an unequal world system, in which superpowers impose sanctions on less powerful countries, but it is also undeniable that a faction within the Islamic Republic has sought confrontation and escalation with the United States to promote its own factional interests (Ayatollahi Tabaar 2018).6

CONCLUSION

How have developmental trends changed in Iran after the revolution of 1979? Different indicators examined in this article present a mixed picture of post-revolutionary developmental trends. Regarding male life expectancy, we observe a decline after the revolution until the end of the war. Female life expectancy has continued to increase similar to the pre-revolutionary upward trend, but the pace of progress has slowed down after the revolution. Infant mortality has decreased after the revolution, as it had been also

decreasing before the revolution. Similar to female life expectancy, the pace of progress on this indicator has slowed down after the revolution. The ratio of hospital beds to population has decreased after the revolution. The number of doctors and doctor to population ratio also have decreased in the post-revolutionary period. Literacy has continued to increase after the revolution similar to the pre-revolutionary period, but with more expansion in rural areas and among women. Absolute poverty has decreased in periods before and after the revolution, and the changes in oil prices seem to be a common factor contributing in reduction of poverty before and after the revolution. Income inequality has decreased after the revolution and then the level of income inequality has stagnated after the initial decrease. Finally, while the percentage of home-owner households had been increasing before the revolution, this percentage has decreased in the post-revolutionary period. These results together depict a mixed picture of the post-revolutionary developmental trends. Among these outcomes, we observe improvement for example in terms of rural and female education. We also observe continuation of progress in areas such as female life expectancy and infant mortality, while the progress before the revolution has been accelerating and then then the progress has been decelerating since the revolution. In other words, progress in female life expectancy and infant mortality has slowed down after the revolution. We also observe decline in developmental trends in areas such as male life expectancy, ratio of hospital beds, ratio of doctors, and housing. How do these results matter for studies of revolution and war?

The effects of revolutions and war-making on state-building projects have been an important area of inquiry within comparative historical analysis. For example, as Charles Tilly (1975:42) famously said, "war made the state, and state made war" (see also Tilly 1992). Similarly, in her influential book on social revolutions, Skocpol (1979) contended that social revolutions in France, Russia, and China strengthened centralization and state capacity in the respective countries. And in her analysis of welfare in the United States, Skocpol (1995) documented how providing for the soldiers of the American Civil War and their families became an important source of social policy. One can think of extending such arguments to the case of Iran to claim that the 1979 revolution and the Iran-Iraq War culminated in a social revolution, imagined to give rise to broad and inclusive social development and welfare. But, as the evidence reviewed in this essay shows, the consequences of the revolution and war for social development do not fit the theoretical expectations driven by these studies. There is evidence that state capacity and performance in some areas of social development have slowed since the revolution. Instead of trying to fit the case of Iran to the theoretical expectations of these studies, it would be theoretically more fruitful to use the case of Iran to correct and revise these classic studies of the social consequences of revolutions and wars. More specifically, we can ask in what areas the revolution and war strengthened state capacity, versus undermining them. Then we can enquire through which simultaneous mechanisms and processes revolution and war undermine, strengthen, or reshape state-building projects. Of course the dimensions of social development examined in this article are not exhaustive. Future research could look into other indicators not examined here, such as social

spending versus military spending, addiction and narcotics consumption, and informal housing, among others.

Among the different development indicators reviewed in this article, the ratios of doctors and hospital beds to the population are directly related to the COVID-19 epidemic the world and Iran have been suffering since 2020. These indicators show a decline in the post-revolution years. Previous cross-national research indicates a significant negative correlation between cumulative death rate due to COVID-19 and the number of hospital beds (Su et al. 2020). Based on these findings, one can make a case that the post-revolutionary decline in some areas of health provision has contributed to the high number of deaths due to COVID-19 in Iran.

As of this writing (September 2021), the official number of such deaths has surpassed IIO,000 (*Farsnews* 2021). But according to officials in the Ministry of Health, the real number is about twice that (BBC Persian 2021), which means more than 220,000 deaths in a year and a half. This is more than the number of Iranians that were killed during the eight years of the Iran–Iraq War (about 180,000).

The government's program for vaccination has been slow. As of early September 2021 Iran had vaccinated about 22% of the population, compared to 58% in neighboring Turkey. The failure of the vaccination program is also relevant to discussion of the performance of parallel institutions and development outcomes. Initially, government institutions announced the development and domestic production of five different vaccines within Iran, or in collaboration with Cuba and Russia. One was supposed to be developed by the Executive Headquarters for the Imam's Decree (EHID), one of the parallel institutions under the authority of Iran's leader. Given this institution's connection with the leader's office and other centers of power, other vaccines faced hurdles and impediments. A plan to import vaccines was also postponed, to support the future mass production of this vaccine for the domestic market (Roozarooz 2021). Reflecting the Islamic Republic's confrontational foreign policy, Ali Khamenei also announced that he did not trust the American or British vaccines, and banned their importing. Mohammad Mokhber, the head of the EHID, promised on multiple occasions to produce and distribute millions of doses of Iran's vaccine in the country, but this did not happen (Rouydad24 2021). And though the performance of Mokhber and his organization in vaccine production was an utter failure, in the summer of 2021, Mokhber was appointed vice president (to the new president, Ebrahim Raisi), and the government announced a new policy prioritizing vaccine imports, contrary to the earlier promises by Mokhber and others. With deaths and hospitalizations mounting with the advent of the Delta variant, many Iranians who lost loved ones have expressed frustration with the government's failed vaccination policy. Public criticism has been so strong that Iran's Ministry of Education has revised textbooks that earlier praised Iran's effective containment of COVID-19 (ISNA 2021). This failure then serves as another important example of how parallel institutions and factionalism have hindered effective policy making and government action.

The approach presented here to assess the outcomes of the Iranian Revolution could be adopted to other revolutions as well, for example the classic cases of China, Russia, and France, or later revolutions of the twentieth century, such as Nicaragua, Algeria, and Mozambique. New data and research show that it is more accurate to consider the heterogeneity of outcomes in the classic cases examined by Skocpol, rather than assuming consistent improvement or decline across all indicators. For example, it seems that the French Revolution strengthened state bureaucracy but left major patterns of income inequality intact (Piketty 2020). China's Cultural Revolution (1966 to 1976) resulted in a state with impressive developmental performance, but there is also evidence of detrimental effects on health and educational outcomes (Fan 2016, 2017). Future research can provide case studies of revolutionary outcomes based on various indicators and discussions of mechanisms linking revolutionary processes and developmental outcomes. Based on such case studies, then, scholars of revolutions and their outcomes could present comparisons between cases and make more general statements regarding the commonalities and differences in outcomes and mechanisms.

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NOTES

- I. The full text is available (in Persian) at https://rc.majlis.ir/fa/content/iran_constitution.
- 2. For more information (in Persian) on the history of health houses, see the webpage of Urmia Medical University on the topic: https://phc.umsu.ac.ir/index.aspx?fkeyid=&siteid=9&pageid=2474.
- 3. Rising house prices over last four decades has been identified as a major contributor to income inequality in post-revolutionary Iran (Farzanegan, Gholipour, and Nguyen 2016).
- 4. As with development and welfare, it would be important to also consider primary sources related to elite competition and mobilization as potential drivers of social development. For example, the main publicly available sources for investigating Iran's factional politics are the proceedings of the parliament, where different factions debate and ratify all bills related to welfare and social policy. Other windows onto Iran's elite politics are the memoirs of the leaders and top elite of the Islamic Republic—such as Hashemi Rafsanjani, a member of the revolutionary council, speaker of the parliament, Iran's president, and head of the expediency assembly through different stages of Islamic Republic's political life. Among recent analyses of Iranian politics, Mohammad Ayatollahi Tabaar's (2018) analysis of Islamists' politics is an example of research that has used a variety of firsthand documents in its analysis of Iranian elite politics.
- 5. Human rights organizations documented these executions at that time (e.g., Amnesty International 1980; Amnesty International USA 1983). Another human rights organization, the Boroumand Foundation, has compiled the most comprehensive list of dissidents executed after the

- revolution (https://www.iranrights.org/fa/memorial/browse/date). On the mass executions of 1988, see Mohajer (2020).
- 6. A recently leaked tape of Iran's former foreign minister, Javad Zarif, for example, shows that after the nuclear deal, the Revolutionary Guards were adopting provocative and escalating measures, over objections from the Foreign Ministry. Zarif's remarks suggest that the moderates in the government did not have the capacity to control the Guards, who had the upper hand in setting Iran's foreign policy toward Syria and Iraq (Fassihi 2021).

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