



An Assessment of the Socio-Economic Impact of Covid-19 in Bahrain:

Analysis of survey data from Bahrain and comparative surveys from the UK and the US



Abstract

In September 2020, Derasat and the United Nations Development Programme (UNDP) in Bahrain conducted three household surveys to evaluate the socioeconomic impact of Covid-19 in the Kingdom of Bahrain, the UK, and the US. Questions covered the impact on employment, the impact on the allocation of time to non-work tasks, on the nature of support participants deemed most desirable, and on participants' plans for dealing with the financial challenges associated with the pandemic. Approximately 3,000 people participated in the three surveys: for the survey conducted in Bahrain, 700 Bahrainis and 300 Bangladeshis living in Bahrain responded; the other two surveys carried out for comparison purposes reached 1,000 members of the UK population and 1,000 members of the US population. All three surveys were actually or nearly nationally-representative. This report presents and analyzes the resulting data.

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Executive Summary

In September 2020, approximately 3,000 participants took part in three short online surveys assessing the socioeconomic impact of Covid-19. One of them was carried out in Bahrain, and the other two in the UK and in the US, the latter two executed for comparison purposes. The surveys fell under the umbrella of UNDP's international efforts at gauging the consequences of the pandemic by working with local partners, or the Socio-Economic Impact Assessment; the specific project covered by this report is the result of a partnership between Derasat and UNDP Bahrain.

The three surveys reached 3,000 respondents, reaching a nearly nationally representative sample of approximately 700 Bahrainis living in Bahrain, a nearly nationally representative sample of approximately 300 Bangladeshis living in Bahrain, a nationally representative sample of approximately 1,000 members of the UK population, and a nationally representative sample of approximately 1,000 members of the US population. The main results were as follows.

- All four groups suffered considerable amounts of self-reported economic distress, in the form of job losses and decreased income. In general, people with lower education levels reported greater difficulty in dealing with the pandemic than people with higher education levels.
- Bahrainis in Bahrain suffered the lowest amount of self-reported economic distress, followed by approximately equal levels of economic distress among the UK and US populations. The highest levels of economic distress were reported by Bangladeshis in Bahrain.
- 3. Bahraini youth gained primary and secondary jobs, whereas all other groups in Bahrain and in other countries lost them. In the employment domain, Bahraini women generally fared better than Bahraini men, whereas in the UK and US, the reverse was true.
- 4. For all four groups of participants, the reported time allocation towards non-work tasks was affected considerably. In the case of Bangladeshis in Bahrain, an increase in the time allocated to job search and supplementing income meant a decrease in the time allocated to most non-work activities. For the remaining three groups, preparing meals, assisting/supervising children and the elderly, and consuming media all received a significantly larger allocation of time, whereas socializing,

leisure/entertainment, and health (except exercise) all witnessed significant declines in time allocations.

- 5. In all groups, changes in time allocation were quite sensitive to gender and age group, with non-youth women allocating significantly more time than their male counterparts to assisting children and the elderly; and young people generally sleeping more and consuming more leisure. (The data for Bangladeshis living in Bahrain was not broken down demographically due to the overwhelming concentration of participants in the "25-44 year-old men" category)
- 6. The data revealed significant heterogeneity in the kinds of support deemed most desirable. Bahrainis in Bahrain saw job-market training and loan deferrals as the most attractive, while Bangladeshis in Bahrain sought job information and rent support. In the UK and US, training and psychological support were the two most popular choices. These differences reflect deeper differences in the labor markets, the structures of household finances, and access to support systems.
- 7. Women were more likely to express a desire for psychological support than were men; whereas men were more likely than women to express a preference for economic support.
- 8. When describing their plans for coping with the financial difficulties created by Covid-19, the populations of the UK and US, as well as Bangladeshis in Bahrain, exhibited great readiness to rely on a mixture of new employment, running down savings, and decreasing spending. For Bahrainis, seeking loans and the assistance of friends/family and non-profits was prominent.

1. Introduction

Since it commenced in December 2019, the Covid-19 pandemic has caused an unprecedented level of health and socioeconomic damage across the globe. By the end of September 2020, over one million Covid-19-related deaths had been reported internationally (Worldometer, 2020), and during its June 2020 World Economic Outlook update, the International Monetary Fund (IMF) predicted a 5% contraction in the global economy for 2020, in addition to millions of job losses, with highly uncertain prospects for an economic recovery (IMF, 2020).

In response to the extraordinary and existential threat that Covid-19 poses to the global economy and to individuals lives and livelihoods, governments across the world have enacted exceptional fiscal and monetary policy measures (Al-Ubaydli, 2020). While the success of these interventions remains to be seen, the associated debt is nearly certain to transform into a major burden for taxpayers for the foreseeable future, ensuring that the impact will be long-lasting even once a solution to the health-aspects of the pandemic is devised, such as through the development of a vaccine.

The social and psychological fallout has been great, too (Pfefferbaum and North, 2020), and the longterm repercussions of the pandemic are exacerbated by the fact that it has led to an increase in the level of inequality between rich and poor, men and women, those with high vs. low levels of education, and so on (Alon et al., 2020). For this reason, policymakers have had to develop novel policy instruments for tackling the crisis.

The Kingdom of Bahrain has been acutely affected by the pandemic. Though its death rate of 143 deaths per million has been approximately equal to the world average of 129, the economy has been severely affected by the loss of international tourists and the sharp decline in oil prices, leading to a second-quarter decline in GDP equal to approximately 9% (IGA, 2020). In an attempt to limit the impact, Bahrain's government has experimented with new policies, such as paying utility bills on behalf of citizens, paying the salaries of citizens working in the private sector (both as part of a large fiscal stimulus package), deferring loan repayments, and developing systems for remote working and distance learning.

High quality data constitute an important input into the policymaking process, both as inspiration during the genesis phase, and as a source of instructions on how to fine-tune policies during the revision stage. The unprecedented nature of the Covid-19 pandemic means that many of the traditional and extant data-gathering systems need to be developed to ensure that policymakers acquire the information that they need. Moreover, all societal stakeholders, including individuals and civil society organizations, need to have a continuous flow of up to date information to allow them to assess their own interests accurately, and to enable them to participate in solving the difficult problems raised by the pandemic.

This report attempts to contribute to this process by reporting the results of – and analyzing – the data gathered from a large, international survey of the socioeconomic impact of Covid-19. During September 2020, a total of approximately 3,000 people participated in three short online surveys wherein they reported their experiences regarding employment, economic and social Covid-19 related problems, and changes in the time they allocate to various non-work tasks. Participants also described the support that they regarded as most helpful, as well as their intentions for dealing with the financial difficulties caused by the pandemic.

The survey conducted in Bahrain mainly focused on two groups of people residing in the Kingdom: Bahraini citizens and Bangladeshi citizens, the latter of which represent one of the most adversely affected communities of migrant workers in Bahrain. Approximately 700 Bahraini citizens and 300 Bangladeshi citizens participated in the survey, allowing researchers to produce nationally representative estimates of various aspects of the socioeconomic impact of the pandemic. Two additional surveys were distributed, reaching a nationally representative sample of 1,000 members of the UK's population, and a nationally representative sample of 1,000 members of the US' population, in an attempt to benchmark the findings for the Kingdom of Bahrain.

The data provide readers with important insights about the pandemic's effects on people's lives and livelihoods in the four groups of participants across the three countries surveyed. The most prominent finding is that all groups have experienced high levels of socioeconomic distress since the start of 2020, reflected in loss of employment opportunities, income, leisure time, and psychological well-being.

The data also reveal high levels of variation in the effects of Covid-19 by age group, gender, education level, and several other mediating variables. In general, the survey's results affirm the importance of gathering high quality data as an input into the policymaking process, as many of the findings were unforeseen and surprising.

The remainder of this report is organized as follows. Section 2 provides readers with an overview of the spread of the coronavirus in Bahrain, the UK, and the US, and of the evolution of the non-pharmaceutical interventions (NPIs) implemented in these countries, to provide context for understanding the data gathered in the surveys. Section 3 describes the method used for gathering the data. Section 4 presents the results in three tranches: the participants' general demographic, the headline comparisons between the four groups, and selected results that emerge when disaggregating the data by demographic category or other mediating variables. Section 5 summarizes the findings.

2. The Spread of the Coronavirus in Bahrain, the UK, and the US

Cases of Covid-19 began to be reported in all three of the Kingdom of Bahrain, the UK, and the US during February 2020. Figure 2.1 shows the number of daily new cases per million people for the three countries, while Figure 2.2 shows the number of daily new deaths per million people.





Source: Our World in Data (2020)



Figure 2.2: Daily new Covid-19 deaths per million people

Source: Our World in Data (2020)

Note that comparisons of the daily new cases per million should take into account the fact that Bahrain has over two times as many tests per million as do the UK and US (Worldometer, 2020), and this is due to the high levels of testing in the Bahrain, rather than low levels of testing in the UK and US; in fact, as of late September, Bahrain was ranked eighth in the world for tests per million, with over 820,000. With this in mind, the most salient features of the data are as follows.

First, the UK and US had an early spike in cases during April 2020. Thereafter, cases in the UK declined to low levels, before surging again during August 2020, and continuing to rise since that time. In the US, cases started increasing again during late June 2020, rising to a new peak in early August 2020, before declining gradually, and then starting to increase again during the middle of September 2020. Cases in Bahrain follow a different pattern: they start to rise during the middle April 2020, reaching a peak in the middle of June 2020. They then decline gradually until the end of August 2020, before starting to rise sharply again.

Overall, daily new cases per capita are highest in Bahrain, followed by the US, and then the UK. All are significantly higher than the world average.

Second, new deaths per million were very limited in Bahrain at the start of the pandemic, but have been steady at a little under one death per million since the start of July 2020. In contrast, the UK and US had a very large surge in deaths per million during April/May 2020 before subsiding, and then rising again gradually in the case of the US. Cumulative deaths per million in the UK and US are around four times the corresponding figure for Bahrain. In terms of cumulative deaths per million, Bahrain is close to the world average, whereas the UK and US have much higher levels, both of them being ranked in the top 10.

A key takeaway from both figures is that in at least one out of the volume of cases per capita and the volume of deaths per capita, Bahrain, the UK, and the US are all significantly higher than the world average, setting the stage for a significant socioeconomic impact for Covid-19. These health-based factors are reinforced by the range of NPIs adopted by the three countries. Table 2.1 below shows the major NPIs in Bahrain since the start of the crisis.

Date	Decision
2/25/2020	Universities, Schools and Kindergartens closed for two weeks (extended indefinitely on 3/5)
3/17/2020	The activities of all resturants, tourist facilities and places of serving food and beverages are limitted to external orders and delivery
3/17/2020	All commercial movie theaters, sports gyms, fitness studios, swimming pools and recreaional activities closed
3/17/2020	Limiting the service offered by shisha cafes to takeout and delivery of food and beerages only
3/17/2020	Limiting public gatherings to 20 or less people and commiting to stay home as much as possible and going out for necessity only
3/22/2020	Remote work policy introduced covering 50% of government employees
3/23/2020	Suspended the holding of congregational prayers across all mosques and prayer areas
3/25/2020	Entry to Bahrain became restricted
3/26/2020	Banning of gatherings of more than five people
3/26/2020	Closed non essential buisnesses for two weeks until April 09 .
4/3/2020	Transit through Bahrain Airport reopened for international travelers
4/9/2020	Mandated wearing masks in public and intoduced a fine for violators
4/23/2020	Non essential comercial and industrial shops to close for two weeks until May 6
5/7/2020	Reopened commercial and industrial shops, with restrictions for two weeks until May 20
5/21/2020	Retail and industrial buesiness can resume operations as ussual (with certain conditions)
6/1/2020	Announced reopening of public schools on Sep 16
6/7/2020	Home -isolation for active asymptomatic cases became optional
7/28/2020	Licensed restuarants to reopen for private booking of no more than 20 people
8/26/2020	Decided to gradually reopen Mosques, with the commencement of Fajr prayers only Starting from Friday 28th of August.
9/3/2020	reopenening of outdoor dining at resturants and coffee shops
9/17/2020	Postpone the reopening of indoor dining services at resturant and cafes until 24 October 2020.

Source: Be Aware App (IGA, 2020)

The stringency of measures generally mimics the path of cases: initially, the emphasis was on the adoption of social distancing measures, including the closure of schools. During the period of May-August 2020, gradual relaxations were instituted, but in September, in response to the rising cases, the planned opening of schools was delayed, as was the opening of indoor dining. Notably, as of September 2020, Bahrain has avoided the imposition of stay-at-home orders.

In the case of the UK, a broadly similar path has been adopted, including the reimposition of restrictions during September 2020 in response to rising cases. The earlier period also featured a complete lockdown, to the high death rates experienced. The US is much harder to summarize, due to its federal political structure – creating decentralized and heterogeneous policy responses – and due to the high levels of internal heterogeneity in the spread of the pandemic and in terms of the deaths, which is itself a natural

consequence of the country's large geographical area. However, many areas experienced strict stay-athome orders for extended durations of time.

Consequently, in all three countries, Covid-19 and the NPIs adopted as countermeasures have together had a profound effect on daily life, in the domains of both health and socioeconomics. This ensures that there is considerable value in using scientific surveys to assess the socioeconomic impact of the pandemic.

Before we describe the survey that we conducted, since we will be comparing Bahrain with the UK and the US, it is worth briefly drawing attention to some of the most salient differences between the Bahraini economy and that of the UK and US; for a fuller analysis, see Naumann et al. (2018).

First, expatriates represent approximately half of Bahrain's population, and three quarters of its labor force. They primarily use guest-worker visas, meaning that their residency is tied to their employment. They also have limited levels of labor mobility compared to nationals, and do not have the same levels of employment protections. Consequently, they are highly vulnerable to adverse economic shocks. In contrast, in both the UK and US, foreign workers represent approximately 17 percent of the population (University of Oxford Migration Observatory, 2020; US Bureau of Labor Statistics, 2020).

Second, in Bahrain, the public sector accounts for a considerably higher percentage of employed nationals than in countries such as the UK and US. These jobs enjoy high levels of protection, and are generally well-suited to remote working, as they are predominantly white-collar positions.

Third, there is a large number of migrant workers working as domestic helpers in Bahrain, supporting families with childcare, meal preparation, cleaning, driving, and other services. This helps their Bahraini employers to adapt to the challenges of Covid-19 more easily than their UK and US counterparts.

With these differences in mind, we now move on to describing the data gathering method, including the precise survey questions used, and details of how participants were solicited.

3. Survey Method

3.1. Survey Questions

All three surveys shared the same structure, with identical questions and sequence in which they appeared in the questionnaire.

When designing the survey's questions, we sought to realize the following goals.

- A high rate of participation among Bahrainis and non-Bahrainis residing in the Kingdom of Bahrain; in particular, we targeted a nationally-representative sample of at least 500 Bahraini citizens.
- 2. Gathering data that was complementary to the existing data that had been gathered in the Kingdom of Bahrain, most notably the regular business surveys conducted by the Bahrain Chamber of Commerce and Industry (BCCI), and the detailed and high frequency employment data gathered by the Labor Market Regulatory Authority (LMRA).
- 3. Gathering data that would support policymaking and be scientifically valuable.

In all surveys, there is a tradeoff between the participation/completion rate on the one hand, and the volume of data gathered per participant on the other hand, especially given that all participation in Bahrain was uncompensated (see below for the UK and US cases). For this reason, we settled on a series of questions that would take no more than approximately five minutes to answer. The full survey is included in the Appendix. After choosing their preferred language and declaring that they were at least 18 years of age, participants proceeded to six groups of questions.

The first group of questions examined employment status: did respondents gain or lose a primary and/or secondary job since the start of the pandemic? And for those who retained either a primary or secondary job, how did their hours change, using a Likert scale. Note that the question was not phrased in a way that explicitly differentiated between regular employment, self-employment, business ownership, and so on. We chose this due to a strong preference for conciseness; a wordy clarification of all of the different interpretations would have adversely affected the participation rate. This advantage comes at the cost of

having an imprecise and participant-dependent definition of the term "employment". For the remainder of this report, we use the term "employment" to refer to what the survey measures.

In addition to this semantic issue, the resultant data can be considered indirect indicators of the unemployment rate, but not a direct measure that can be interpreted at face value, since the survey did not address the issue of labor force participation.

The second group of questions posited a series of socioeconomic challenges that the participant was likely to have encountered due to the pandemic (access to food, loss of income, decreased leisure time, etc.), and then asked the participant to evaluate, using a Likert scale, the extent to which they had faced difficulty in dealing with the challenges.

The third group of questions explored how the participant had changed the time they allocated to a series of non-work tasks, according to a Likert scale. These included tasks such as sleeping, socializing, childcare, homeschooling, and so on.

The fourth group of questions inquired about the sort of support that the participant deemed most desirable. The options included labor market support, such as training or information about job opportunities; financial support, such as loan deferrals; psychological support; and so on.

The fifth group of questions examined how participants were planning on dealing with the financial difficulties caused by the pandemic. Using a Likert scale, they would declare their intentions regarding spending habits, seeking financial support from family/friends, and so on.

The sixth and last group of questions was demographic: gender, age category, marital status, nationality, region, the number of children, the number of elderly assisted, and education level.

3.2. Participants and Sampling

The initial target for Bahrainis was a nationally representative sample of size 500. Using demographic data from the national statistics office (IGA), Table 3.2.1 shows the distribution of target observations by

gender, age-group, and governorate (the sub-national region in the Kingdom of Bahrain), with the actual number of observations gathered in parentheses (we comment on these in section 4.1).

Participation among non-Bahrainis was expected to be low, with the exception of the Bangladeshi community, due to assistance from the Embassy of Bangladesh in distributing the survey. The Bangladeshi community is the second largest non-Bahraini community (after Indians) residing in the Kingdom of Bahrain. In the initial target was a nationally representative sample of size 200. Table 3.2.2 shows the distribution by gender and age-group, along with actual data gathered.

Table 3.2.1: The composition of a nationally representative sample of 500 Bahraini citizens with actual observations collected in parentheses

Age group		18-24		25-44		45+	
Gender		Male	Female	Male	Female	Male	Female
	Capital	12 (11)	12 (8)	28 (45)	27 (47)	22 (19)	22 (22)
Covernoveto	Muharraq	10 (15)	9 (10)	22 (56)	21 (35)	17 (17)	17 (15)
Governorate	Northern	18 (15)	17 (23)	42 (56)	41 (70)	33 (21)	33 (25)
	Southern	10 (16)	9 (4)	22 (45)	22 (51)	17 (15)	17 (19)

Source: Information and eGovernment Authority

Table 3.2.2: The composition of a nationally representative sample of 200 Bangladeshi citizens

Gender		Male	Female
Age group	18-24	0 (16)	1 (0)
	25-44	173 (254)	2 (5)
	45+	23 (7)	1 (1)

with actual observations collected in parentheses

Source: Information and eGovernment Authority

Overall, by nationality, Bahrainis were expected to be the nationality that was least affected by the pandemic, due to their being explicitly and exclusively targeted by many of the government assistance programs. Bangladeshis were expected to represent one of the most severely affected groups of migrant workers, due to their comparatively low education levels, their concentration in low-wage jobs, and lower social protections.

As a contemporaneous point of comparison for the data gathered in the Kingdom of Bahrain, we also gathered data based on the UK and US populations via a third party (see below). In each case, the target sample was a nationally representative sample of size 1,000.

3.3. Distribution of the Survey

The survey was delivered online via Lime Survey. It could be accessed via any mainstream web browser, via desktop/laptop computers, tablets, and mobile telephones. The survey was active for the period 8 September 2020 – 27 September 2020.

The survey targeting Bahrainis was initially distributed by text message to a list of people who had expressed an interest in participating in surveys. It was subsequently distributed via a variety of social media channels, including those of Derasat and UNDP Bahrain. Press releases in the local media were used to increase awareness about the survey. During the third and final week, distribution via social media was boosted via paid advertisements. Distribution among the Bangladeshi community was supported by the Embassy of Bangladesh in the Kingdom of Bahrain.

The surveys targeting the UK and US populations were distributed via a third party specializing in online survey research. The company provides researchers with nationally representative samples of participants, balanced by gender, age-group, and ethnicity.

4. Results

4.1. General Demographics

In total, the study had 2,943 observations. Figure 4.1.1 shows the distribution of the total number of participants by group, and the number of participants per million people in the parent population. Thus, while the UK and US have the highest absolute representation in the sample, followed by Bahrainis in Bahrain and Bangladeshis in Bahrain, the order is reversed on a per million basis.

In the Bahrain data, there were approximately 50 observations from participants who were neither Bahraini nor Bangladeshi. They represented approximately 20 different nationalities, with a wide implied variation in socioeconomic status, i.e., it included people from OECD countries and people from emerging economies. We regarded these data as insufficiently deep for analysis, and we therefore omit them from the remainder of this report.



Figure 4.1.1: Total number of participants and per million of parent population

Source: Derasat-UNDP surveys

Figure 4.1.2 shows the gender distribution of the participants. In the cases of Bahrainis in Bahrain, the UK population, and the US population, the gender distribution is approximately equal, and is approximately representative of the underlying population. For Bangladeshis in Bahrain, it is highly skewed toward men (98%), but this is also representative of the underlying population.



Figure 4.1.2: Participants' gender distribution



Figure 4.1.3 shows the age distribution. For the UK and US populations, the distribution is representative of the underlying population. For Bahrainis in Bahrain, there is over-representation of people in the age categories 25-34 and 35-44 years, while there is under-representation of young and old. In the case of Bangladeshis in Bahrain, the young (18-24 years) category are over-represented, while the old (45+ years) are under-represented. In light of the non-representative nature of the Bahrainis and Bangladeshis in Bahrain samples, when presenting national averages in sections 4.2 and 4.3, we will apply weights to the raw data.





Source: Derasat-UNDP surveys

Figure 4.1.4a shows the regional distribution for Bahrainis and Bangladeshis in Bahrain. In the case of Bahrainis, each of Muharraq and the Southern governorates are slightly over-represented, while each of the Capital and Northern governorates are slightly under-represented. In the case of Bangladeshis, the Capital is slightly over-represented, while each of the remaining three governorates are slightly underrepresented.



Figure 4.1.4a: Bahraini participants' regional (governorate) distribution

Source: Derasat-UNDP surveys

Figure 4.1.4b shows the regional distribution of UK participants, and Figure 4.1.4c shows the regional distribution of US participants. In the case of the US, multiple definitions of region exist; we use the Bureau of Economic Analysis system, which divides the US into eight regions.



Figure 4.1.4b: UK participants' regional distribution

Source: Derasat-UNDP surveys

As mentioned above, the UK and US data are nationally representative in terms of gender, age, and ethnicity (a variable which we do not gather data on). We do not compare our regional distributions to the population distribution; we merely note that they confirm the existence of significant representation for all subnational regions in the UK and US, with the exception of Northern Ireland in the UK, which only accounts for 1% of the data.





Source: Derasat-UNDP surveys

Figure 4.1.5 shows the regional distribution of the participants' marital status. In the case of Bahrainis in Bahrain, Bangladeshis in Bahrain, and the US, "married" is the modal marital status by some distance; whereas in the UK, a majority are single.



Figure 4.1.5: Participants' marital status

Source: Derasat-UNDP surveys

Figure 4.1.6 shows the distribution of the number of children. In all cases, the mode is zero children. The data also reflect the lower birth rates in the UK and the US. It also reflects the average household size in these countries: Bahrain (5.9), UK (2.3), US (2.6), (UN, 2017).



Figure 4.1.6: Participants' number of children

Source: Derasat-UNDP surveys

Figure 4.1.7 shows the number of elderly people assisted by the participants. In each of the groups Bahrainis in Bahrain, the UK, and the US, the modal response is "0", but in the latter two cases, the distribution is highly skewed toward "0", too, whereas in the Bahraini case, it is much closer to uniformity. In the case of Bangladeshis in Bahrain, it is skewed toward "3+". These data may be indicating the persistent importance of the family unit as a source of socioeconomic insurance in Bahrain and Bangladesh, in contrast to the UK and US.

Figure 4.1.8 shows the distribution of the participants' education level. The UK and US data look very similar, with approximately 40% of participants in each of high school and bachelor's, and an equal and small (around 2%) percentage of participants with less than a high school degree or with a PhD. In the case of Bahrainis in Bahrain, a bachelor's degree is the mode by some distance, and a significantly higher percentage have a master's degree, both coming at the expense of those with just a high school degree. In the case of Bangladeshis in Bahrain, high school accounts for 69% of participants, and almost all (26%) of the rest have a bachelor's degree.



Figure 4.1.7: Participants' number of elderly whom they assist





Figure 4.1.8: Participants' education level

Source: Derasat-UNDP surveys

When analyzing data at the subgroup level, in an attempt to understand the differential impact of Covid-19, we consider three different breakdowns. The first is a six-element age/gender decomposition: every combination of three age groups (18-24, 25-44, 45+) and two genders (female, male). Note that we do not consider gender purely, since we wish to avoid the possibility of negative differences for one age group of women being canceled by positive differences for another, which would otherwise lead the gross average for women to misleadingly look equal to that of men. We also hope to provide more accurate results than seeing women and men as two distinct homogenous groups or opposite categories. The second is the five different education levels. Education is a decent proxy for income and for socioeconomic status in general.

In the third breakdown, we consider three groups that are likely to be facing considerable difficulties in adapting to the pandemic, and whom we can identify given the data that we collect. People with at least two children, in light of the disruption caused by schools closing; people assisting at least two elderly people, in light of the health risks faced by the elderly and their greater need to rely on family during the pandemic; and the elderly themselves (65+ years).

4.2. Headline International Comparisons

This section compares the responses to the five main questions across the four groups under consideration (Bahrain population: nationals, Bahrain population: Bangladeshis, UK population, US population). The comparisons will be at the group level only; selected subnational findings will be examined in the next section (4.3).

100% 81% 80% 68% 66% ^{59%} 55% 59% 59% 58% 60% 40% 29% 21% 18% 19% 16% 11% 10% 20% 9% ... 0% Bahrain: nationals Bahrain: Bangladeshis UK USA Primary job: Pre-pandemic Primary job: Post-pandemic Secondary job: Pre-pandemic 💦 Secondary job: Post-pandemic

Figure 4.2.1: The effect of the Covid-19 pandemic on employment

Did you have a primary/secondary job before the Covid-19 pandemic, and do you have a



primary/secondary job now?

Figure 4.2.1 looks at the effect of the Covid-19 pandemic on employment rates. Recall that these data are a useful but indirect indicator of unemployment rates, and so they should not be interpreted as explicit estimates of the impact on unemployment. The data distinguish between primary and secondary jobs.

The first finding to note is that for Bahraini nationals, the UK, and the US, pre- and post-pandemic employment rates in primary jobs were broadly comparable across groups, i.e., a significant decrease of the order of 5 to 10 percentage points. The impact on Bahraini nationals is lower than that on the populations of the UK and US, a point we return to below when discussing Bangladeshis.

These figures are in line with the large economic contractions that have been reported by these countries: second quarter GDP decreased year on year by 8.9% for Bahrain (IGA, 2020), 21.7% for the UK, and 9.1% for the US (Trading Economics, 2020). They also reflect the large number of mechanisms through which the pandemic adversely effects the economy; see Al-Ubaydli (2020) for a full exposition of these links.

Second, the impact on primary jobs among Bahrain's Bangladeshi population is very large, and exceeds that of the other three groups by an order of magnitude: it fell from 81% pre-pandemic to 59% postpandemic. This likely explains the relatively muted effect of the pandemic on employment for Bahraini nationals: Bahrainis account for around one quarter of total employment, and they systematically hold jobs that are relatively well-protected, such as government jobs. Moreover, they enjoy superior employment protections to Bangladeshis. Covid-19-related government employment interventions, namely the paying of salaries of those working in the private sector, are explicitly restricted to Bahraini nationals, further assisting Bahrainis in their attempts at retaining their jobs. Had such benefits been extended to the entire working population, the elevated cost would likely have meant a lower per-worker benefit, including for Bahrainis, and therefore Bahraini citizens would probably have experienced a larger deterioration in their employment rates.

In the case of secondary jobs, the data reveal a much higher level of variation between the four groups. In both the UK and the US, employment levels in secondary jobs were approximately flat, likely reflecting an attempt to use secondary employment to counteract the adverse effect of the pandemic on primary income (see Figure 4.2.6 below). In Bahrain, for both nationals and Bangladeshis, there was a sharp drop in secondary employment, though the decline for Bangladeshis (20 percentage points) was again considerably higher than that for Bahrainis (5 percentage points), for the same reasons discussed above.

The difference between Bahrain and the UK and US is likely driven by the different economic structures. In Bahrain, public sector and quasi-public sector employment accounts for a considerably higher percentage of jobs than in the UK and US, and public sector employment is a relatively bureaucratic and rigid process. In contrast, the private sectors of the UK and US are the primary drivers of job creation, leading to a flexible labor market that is more responsive than Bahrain's to an increase in the willingness of people to perform secondary jobs. It could also reflect an elevated need for a secondary job in the UK and US to cover essential expenses.

Figure 4.2.2 shows the impact of the Covid-19 pandemic on the hours worked by the four groups, for those members of each group who had a primary/secondary job at the start of the pandemic and successfully retained their primary/secondary job up until September 2020 at least. Note that participants evaluate the changes in hours worked using a Likert scale running from -2 (decreased a lot) to +2 (increased a lot).

Figure 4.2.2: The effect of the Covid-19 pandemic on hours worked

[For those who had a primary/secondary job before the Covid-19 pandemic, and retained it] How did your hours worked in your primary/secondary job change on a scale of -2 (decreased a lot) to +2

(increased a lot)?



Source: Derasat-UNDP surveys

In the case of primary jobs, Bahraini nationals experience no aggregate change, while the UK and US populations each experience mild contractions in the number of hours worked. Bangladeshis in Bahrain again suffer the largest decrease, with the average being 0.6 out of 2.

In the case of secondary jobs, Bangladeshis in Bahrain suffer a very large contraction (1.2 out of 2). Bahraini citizens also suffer a moderate contraction (0.6 out of 2), while the UK and US are essentially flat. While the factors accounting for the intra-Bahrain differences are most likely the same as those explaining the intra-Bahrain variation in employment, we do not offer an explanation for the differences between Bahrain and the UK/US.

Figure 4.2.3 shows the effect of the Covid-19 pandemic on the extent to which members of each group felt affected by a selection of pandemic-related challenges. Responses are on a Likert scale running from 1 (no effect) to 5 (an extremely large effect).



Figure 4.2.3: The effect of the Covid-19 pandemic on various challenges

For each of the following socioeconomic challenges associated with the Covid-19 pandemic, to what extent were you affected on a scale of 1 (no effect on me at all) to 5 (an extremely large effect on me)

Source: Derasat-UNDP surveys

We begin by noting that in the six challenges, there is a consistent pattern: Bangladeshis in Bahrain report high (and the highest by far) levels of distress; the populations of the UK and US are moderately and approximately equally affected by the challenges; and Bahraini nationals are affected the least, with lowto-moderate impacts reported. Moreover, for Bangladeshis living in Bahrain, and the UK and US populations, the highest scores were for job losses (4.3, 3.6, 3.5, respectively; all out of 5) and income reductions (4.5, 3.3, 3.2, respectively; all out of 5), implying that the main socio-economic problem that they have been struggling with is economic in nature. In contrast, for Bahraini citizens, job losses was the smallest challenge (1.7 out of 5), and income reduction was an intermediate one (2.4 out of 5). These inter-group differences for these two challenges also mimic the picture that emerges from the employment questions covered in Figure 4.2.1 and Figure 4.2.2.

A second remark is that difficulty in accessing necessities, including PPE, has not been a significant challenge for any group except the Bangladeshis living in Bahrain (4.2 out of 5), and this again likely stems from an acute economic problem faced by that group. Therefore, in general, the governments of Bahrain, the UK, and the US were able to overcome the initial supply chain problems relating to food, medicine, and PPE.

Accessing psycho-social support and education were intermediate challenges for all groups. However, it is important to note that a lack of difficulty in accessing them does not imply that there were no problems with them in general. For example, a family with internet access and a computer can access education, but that is only one of many challenges associated with ensuring a satisfactory quality of education.

A final remark regarding these data is that decreased leisure time has been a significant though not overwhelming problem for all of the four groups (it was the second highest scoring category for Bahraini nationals, though). It is likely that this partially reflects the non-availability of many traditional sources of leisure (cinemas, cafes, restaurants), as well as decreased leisure time due to a need to allocate time to other activities (see Figure 4.2.4 below).

Figure 4.2.4 shows the effect of the Covid-19 pandemic on the time that participants allocate to a variety of non-work tasks, using a Likert scale that runs from -2 (decreased time allocated to this task by a lot) to +2 (increased time allocated to this task a lot); participants also had the option of indicating that a task did not apply to them, such as homeschooling for an individual who does not have children.

Similar to the challenges data, intergroup differences for Bahraini nationals, and the UK and US populations are relatively small compared to the differences between these groups and Bangladeshis living in Bahrain. Moreover, Bangladeshis on average decreased their time allocation to every single task they were asked about, as opposed to the other three groups, that showed a mixture of increased and decreased time allocations.

Figure 4.2.4: The effect of the Covid-19 pandemic on time allocation

How did the Covid-19 pandemic affect the time you allocated to each of the following non-work tasks on a scale of -2 (decreased time allocated to this task a lot) to +2 (increased time allocated to this task a



lot); or N/A for tasks that do not apply to you

Source: Derasat-UNDP surveys

First, there is significant variation between the different tasks, i.e., participants did not indifferently select the same option for all tasks. Second, these tasks are all explicitly non-work tasks, and even within the class of non-work tasks, they do not constitute an exhaustive list. Though they tended to work fewer hours (Figure 4.2.2) due to the pandemic, the large number of job losses experienced by the Bangladeshi community suggests that a lot of time was allocated to the job search process (see Figure 4.2.5). Moving on to the individual tasks, Bahraini citizens (0.04 out of 2) and the UK (0.18 out of 2) and US (0.14 out of 2) populations all reported a small increase in sleeping time, but this masks significant subnational variation, which we explore in section 4.3. Time allocated to health, except exercise (-0.83, - 0.52, -0.41, respectively, out of -2), social life (-1.6, -1.3, -1.1, respectively, out of -2), and leisure/entertainment (-1.0, -0.3, -0.2, respectively, out of -2) decreased considerably, due to a combination of the these activities being unavailable and being undesirable due to a perceived risk. This is especially true of a non-essential medical activity such as going to the dentist for a regular checkup, as dentists all over the world have reported large declines in demand for their services (Nasseh and Vujicic, 2020). Time allocated to volunteering for non-profits has also decreased considerably for all groups (-0.3, -0.3, -0.4, respectively, out of -2), again due to a combination of physical restrictions and decreased willingness to participate.

For three groups (Bahrain citizens, UK and US populations), four activities received a moderate increase in time allocation, again masking high levels of subnational variation to be elaborated upon in section 4.3. These were preparing meals (0.4, 0.6, 0.6, respectively, out of 2), due to the increased time spent at home; childcare (0.4, 0.2, 0.3, respectively, out of 2), due to the closure of schools; homeschooling (0.5, 0.4, 0.4, respectively, out of 2), also due to the closure of schools; and assisting the elderly (0.3, 0.2, 0.2, respectively, out of 2), as the elderly are one of the highest Covid-19 risk groups of society, and so they need help from family and friends for tasks that they would normally be able to do for themselves, such as grocery shopping and visits to the pharmacy. It is worth noting that although Bahrain experienced a marginally larger increase in time allocation to assisting the elderly compared to the UK and US, therefore, these data indicate greater attention to the elderly in Bahrain on a per-elderly-person basis (World Bank, 2020), though it is important to note higher dependence on nursing homes in the UK and US.

In addition to these four activities, one activity received a significant (and the highest) increase in time allocation: communication and media (1.1, 0.9, 0.8, respectively, out of 2), which includes watching the news on TV, reading the newspaper, consuming social media, and so on. This likely reflects the large increase in mental stress caused by the pandemic, reported widely in other countries (Pfefferbaum and

North, 2020), as well as a safe (in terms of physical health) alternative to traditional entertainment and leisure options. The higher increase in Bahrain compared to the UK and US likely reflects the higher levels of internet penetration and per capita mobile subscriptions in Bahrain (World Bank, 2020).

Within the three groups of Bahrain citizens and the UK and US populations, the most salient difference is in exercise: while the UK and US populations kept the time allocated to this task approximately constant (in fact they increased it a little on average), Bahrainis decreased their time allocation to this task considerably (-0.5 out of -2). This most likely reflects the differences in climate: in the months March to September, average temperatures in Bahrain (Manama) are 34 degrees Celsius, compared to 19 degrees in the UK (London) and 28 degrees in the US (Washington, DC; Weather Atlas, 2020). Consequently, Bahrainis will have a greater dependence upon commercial gyms for their exercise, and so they will be more adversely affected by the pandemic, in light of the forced closure of gyms (section 2). In contrast, residents of the UK and US can more easily use outdoor exercise as an alternative to frequenting a commercial gym.



What kind of support do you think would be the most useful to you?

Figure 4.2.5: Desired support in light of the Covid-19 pandemic

Source: Derasat-UNDP surveys

Figure 4.2.5 shows the unique form of support that participants regarded as most desirable in light of the Covid-19 pandemic (participants were restricted to selecting only one). These data indicate significantly higher levels of intergroup variation than the preceding survey questions. The UK (29%) and US (23%) populations were broadly similar: they favored training the most, perhaps sensing that several of the sectors that traditionally employed many people were facing the prospect of a permanent (or at least protracted) contraction, and that they would be replaced by sectors that require workers to acquire new skills. Support in paying rent (12% and 14%, respectively) and in dealing with the psychological challenges posed by Covid-19 (18% and 13%, respectively) were both popular choices for the UK and US populations, though in the case of psychological challenges, there is again a significant level of subnational variation to be explored in section 4.3. The limited demand for unemployment benefits (8% and 10%, respectively) and loan deferrals (4% and 10%, respectively) for the UK and US populations reflects the comparative effectiveness of their fiscal and monetary policies; see Al-Ubaydli (2020) for further details on the unprecedented government interventions in this regard. The "other" category was also quite popular with the UK (13%) and US (14%) populations, with the modal option being some variant of "I do not need any assistance", indicating that the participant was coping well with the pandemic.

Bahraini citizens look broadly similar to the UK and US, with the exception of having a strong preference for loan deferrals (34%). Notably, this survey was conducted just before the expected expiration of previous loan deferral edicts issued by the Central Bank of Bahrain (CBB). The CBB subsequently committed to extending the deferrals to the end of 2020. The low preference for rent support compared to Bangladeshis (see below) reflects higher rates of home ownership, and existing government support programs.

The majority of Bangladeshis in Bahrain favored two main requests, together accounting for approximately 70% of participants' responses: information on job opportunities (40%), and assistance with rent (28%). As mentioned above, the first of these supports the view that Bangladeshis are exerting a lot of effort in the job search process, whether they did or did not get laid off. It also likely reflects reductions in income, and deteriorations in the economic circumstances of the families that they are supporting in Bangladesh. Given the high percentage of their salaries that they remit, for Bangladeshis,

rent likely accounts for an oversized share of their monthly budget, accentuating the positive impact of support on dealing with rent payments.

Figure 4.2.6 shows the participants' intentions regarding the different methods of financially supporting their households in the near future, until a significant improvement in the Covid-19 situation. The responses were on a three-item Likert scale: 0 (will not use this method at all), 1 (will use this method a little), and 2 (will use this method a lot).



Figure 4.2.6: Intended methods for dealing with Covid-19-related financial problems

For each of the following ways of financially supporting your household in the near future until the

Covid-19 situation improves, please indicate whether you will use it a lot (2), a little (1), or not at all (0)

Source: Derasat-UNDP surveys

Again, there is significant inter-group variation, but the UK and US populations are roughly comparable. For these latter two groups, there is a strong intention to use decreased spending (1.3 and 1.3, respectively, out of 2) as a way of dealing with the financial problems caused by the pandemic, which surely accentuates the contraction in aggregate economic activity. Running down savings (0.8 and 0.7, respectively, out of 2) is a moderately popular option, as is seeking the extra income brought about by new employment opportunities (0.8 and 0.8, respectively, out of 2), and seeking assistance from the government (0.5 and 0.7, respectively, out of 2). In contrast, seeking loans (0.2 and 0.2, respectively, out

of 2) and the assistance of family/friends (0.3 and 0.3, respectively, out of 2) and non-profits (0.1 and 0.3, respectively, out of 2) are all unpopular options for the UK and US populations.

In the case of Bahraini citizens, the opposite picture emerges, whereby the most popular three options are seeking loans (1.2 out of 2) and assistance from family/friends (1.1 out of 2) and non-profits (1.1 out of 2). Help from non-profits is likely to include seeking the assistance of religious charities, as they play a central role in poverty alleviation in the Gulf countries denoting a relatively higher level of social cohesion and informal support networks. Moreover, the willingness to seek the assistance of family/friends in Bahrain – and the absence of such a desire in the UK and US – is a reflection of the detribalization that occurred in western countries over the course of the last 1,000 years, that has led to a significant decline in the importance of the nuclear family to daily life (Fukuyama, 2011).

The other notable difference between Bahrainis and the UK and US populations is that Bahrainis have a modest willingness to decrease their spending (0.5 out of 2) – and the aforementioned high willingness to seek loans (1.2 out of 2) – as a way of making their finances more sustainable. This is consistent with the general pattern of low savings rates in the Gulf countries in general, which in turn reflects a combination of cultural factors and low levels of financial literacy.

Finally, in the case of Bangladeshis living in Bahrain, seeking employment (1.2 out of 2) and the assistance of the government (1.1 out of 2) are the two preferred choices, and there is also a high willingness to decrease spending (1 out of 2). In fact, they are the group with the highest desire to seek employment opportunities, reflecting the greatest need for such a step, as they suffered the biggest drop in employment of the four groups by some distance (Figure 4.2.4). It is unclear whether the government whose assistance they are seeking is the Bahraini government or the Bangladeshi one. Non-profits (0.7 out of 2) are also a reasonably popular potential source — much more popular than in the UK and US, though not as popular as for Bahraini citizens.

4.3. Selected Subnational Results

In light of the considerable volume of data collected, and the multitude of subnational groups that can be analyzed, this report will not present all the data. Instead, we will present selected results reflecting what we expect readers to find most interesting.

As a reminder, we construct up to 14 subgroups for each group: six age/gender groups, five education levels, and three "vulnerable" groups. For Bangladeshi participants, the data are highly concentrated in the group males ages 25-44 with a high school degree, with very little data in other categories, with the exception of those holding a bachelor's degree. Since their responses did not differ significantly from those with a high school degree, we do not present subnational results for Bangladeshis. Instead, a separate, forthcoming, dedicated follow-up survey will investigate the experiences of Bangladeshis residing in Bahrain in greater detail.

Figure 4.3.1a — Figure 4.3.1f show the effect of the Covid-19 pandemic on employment in Bahrain, the UK, and the US broken down by age/gender and vulnerable group.



Figure 4.3.1a: The effect of the Covid-19 pandemic on employment for Bahrainis by age/gender

Source: Derasat-UNDP surveys

Figure 4.3.1a shows the surprising result that in the case of Bahrain, the decrease in employment -4 percentage points for primary jobs and 6 percentage points for secondary jobs - is not uniform across

demographic groups. In particular, while females and males aged 25-44 and 45+ experience a decrease in employment, females and males aged 18-24 experience considerable increases in primary and secondary employment. At the time of writing, we do not offer an explanation for this unexpected result; this will be investigated in follow-up research.

Further, these data also indicate that for the groups experiencing decreased employment, women are *less* affected by the pandemic than are men. This is in contrast to the finding in many western countries that female unemployment has risen more than its male counterpart (Alon et al., 2020). Before offering an explanation of this observation, we examine the corresponding data for the UK and US.

Figure 4.3.1b shows the employment effect for the UK. The decrease in employment levels for primary jobs is uniform by demographic group. Moreover, whether in absolute percentage points or in proportionate terms, the decrease in primary employment is higher for women in each age category than it is for men.



Figure 4.3.1b: The effect of the Covid-19 pandemic on employment in the UK by age/gender

Source: Derasat-UNDP surveys

Figure 4.3.1c shows the employment effect for the US. Like the UK, the decline in employment levels for primary jobs is uniform across demographic groups; and with the exception of the 18-24 age group, women suffer a higher proportionate decline in employment in primary jobs than do men. Why is

women's employment more sensitive to the pandemic than men's in the UK and US, whereas the reverse is true for Bahrainis?





Source: Derasat-UNDP surveys

In the case of the UK and US, Alon et al. (2020) provide two reasons: first, employment-wise, women are overrepresented in the sectors that involve face-to-face contact, and that are therefore most impacted by the pandemic. These include personal services, tourism, entertainment, and retail. Second, for cultural reasons, women bear a greater burden of the extra childcare and homeschooling responsibilities spawned by the coronavirus, forcing some to withdraw from the workforce, and others to lose their jobs if their employers do not afford them the flexibility required to reconcile their professional and family responsibilities.

In the case of Bahrain, several factors potentially account for a reversal of this phenomenon. First, Bahraini women are systematically employed in white collar jobs, especially the public sector, where they represent almost 50% of employees, despite representing only 38% of employed Bahrainis (LMRA, 2020). Migrant workers, especially Philippina women, systematically perform the face-to-face contact jobs that have been most affected by the pandemic. The public sector jobs of Bahrainis are protected outside and during pandemics, and they are compatible with remote work. In fact, in March 2020, a royal decree was issued requiring female workers with school-age children to be given priority in remote work, attenuating the impact that childcare and homeschooling responsibilities have on women's employment.

Second, as explained in section 2, in 2019, there were almost 90,000 foreign domestic workers in Bahrain (LMRA, 2020), including female domestic helpers that perform meal preparation, cleaning, and childcare activities for Bahraini families; and drivers who are able to run errands such as grocery shopping. These workers provide considerable support to working women with children, thereby limiting the adverse consequences of the pandemic on female employment.

Figure 4.3.1d shows the employment effect in Bahrain for the vulnerable groups. People with at least two children have fared considerably worse than the national average in terms of job losses, both in primary and secondary jobs, as have those who are 65 years and over. In the case of those with two or more children, it could be due to the added childcare and homeschooling responsibilities, though having more children is correlated with a variety of other potentially important factors, such as lower quality jobs potentially, and so this interpretation should be taken cautiously.





Source: Derasat-UNDP surveys

Figure 4.3.1e shows the employment effect for vulnerable groups in the UK. Unlike Bahrain, those with two children are impacted less than the national average, and in fact they gain secondary jobs. This could be related to the fact that the UK successfully reopened schools during May-June 2020, and in September 2020. In contrast, the elderly and those assisting them are affected worse than the national average.



Figure 4.3.1e: The effect of the Covid-19 pandemic on employment in the UK by group

Source: Derasat-UNDP surveys

Figure 4.3.1f shows the employment effect for vulnerable groups in the US. Like the UK, the elderly do worse than the national average, but those with at least two children and those who assist the elderly see employment effects that are roughly comparable to the national average.



Figure 4.3.1f: The effect of the Covid-19 pandemic on employment in the US by group

Source: Derasat-UNDP surveys

Figure 4.3.2a – Figure 4.3.2c show the effect of the pandemic on hours worked in primary and secondary jobs by educational group. (We omit the breakdown by demographic group and vulnerable group as they do not reveal and noteworthy variation.)



Figure 4.3.2a: The effect of the Covid-19 pandemic on hours worked for Bahrainis by education

Source: Derasat-UNDP surveys

Figure 4.3.2a shows the breakdown for Bahrain. In both primary and secondary jobs, for the three groups that collectively account for 94% of the data (high school, bachelor's, master's), people with lower education levels exhibit a greater reduction in hours worked than do people with higher education levels.

Figure 4.3.2b shows the breakdown of the effect of the pandemic on hours in the UK. Unlike Bahrain, the relationships are not monotonic, as people with a master's degree are impacted less than those with a high school degree, a bachelor's degree, or a PhD.



Figure 4.3.2b: The effect of the Covid-19 pandemic on hours worked in the UK by education

Source: Derasat-UNDP surveys



Figure 4.3.2c: The effect of the Covid-19 pandemic on hours worked in the US by education

Source: Derasat-UNDP surveys

Figure 4.3.2c shows the breakdown of the effect of the pandemic on hours in the US. Here, in the case of primary jobs, the relationship is monotonic, and is similar to that in Bahrain, i.e., those with a lower education level are impacted more.

Figures 4.3.3a – 4.3.3e show the difficulty that participants have experienced in dealing with various challenges posed by the pandemic, broken down by demographic group, education level, and vulnerable group.



Figure 4.3.3a: The effect of the Covid-19 pandemic on challenges for Bahrainis by age/gender

Source: Derasat-UNDP surveys

Figure 4.3.3a shows the demographic breakdown for Bahrainis. The most notable feature of these data is that they confirm the picture emerging from the aforementioned employment data: men suffer a greater reduction in employment and in income than do women for the age groups 25-44 and 45+ (the picture is reversed for 18-24 year old participants, but they are a marginal component of the labor force).



Figure 4.3.3b: The effect of the Covid-19 pandemic on challenges in the UK by age/gender

Source: Derasat-UNDP surveys

Figure 4.3.3c: The effect of the Covid-19 pandemic on challenges in the US by age/gender



Source: Derasat-UNDP surveys

Figure 4.3.3b shows the demographic breakdown of the difficulties of dealing with the challenges for the UK population. Again, the data reinforce the preceding employment data, with women facing greater difficulty in dealing with job losses and income reductions.

Figure 4.3.3c shows the demographic breakdown of the difficulties of dealing with the challenges for the US population. Here, the data are not quite as corroborative as the Bahrain and UK data: for people aged 45 and over, women express greater difficulty in dealing with the challenges of job losses and reduced income; but for the other age groups, the ranking is reversed.

Figure 4.3.3d shows the difficulty of dealing with the challenges for Bahrainis broken down by education level. The most salient property of the data is that people with lower education levels (less than high school, high school), who collectively account for 27% of participants, uniformly express greater difficulty in dealing with the challenges than those with higher education levels (and hence higher than the national average). The effects are particularly acute in the economic domain (jobs, income). The actual employment data for these groups, which are omitted in the interests of parsimony, do not reveal the same pattern, but the hours data do to a certain extent. Moreover, the impact of fewer hours on income-related difficulties is amplified for those with lower education levels, because their incomes tend to be lower, and they are operating closer to the poverty line.



Figure 4.3.3d: The effect of the Covid-19 pandemic on challenges for Bahrainis by education

Source: Derasat-UNDP surveys

In the UK (figure omitted in the interests of parsimony), there are no salient patterns in the data. For the US, like the Bahrain data, in the economic domain (job losses, income reduction), there is a tendency for those with lower education levels to report greater difficulties.



Figure 4.3.3e: The effect of the Covid-19 pandemic on challenges for Bahrainis by group

Source: Derasat-UNDP surveys

Figure 4.3.3e shows the difficulties breakdown for Bahrainis by vulnerable group. These data indicate that people with at least two children, and who assist at least two elderly, uniformly report greater difficulties in dealing with Covid-19 related challenges than do the population in general. The difference is especially acute in decreased leisure time, and is presumably accounted for by the large volume of responsibilities that these respondents have, combined with a diminished ability to use the market for assistance.

In the UK data, there are no salient patterns to report. For the US data Like Bahrain, there is a tendency for those with at least two children and/or those assisting at least two elderly to report greater difficulties than the population in general; while the elderly themselves report significantly less difficulty than do the population at large.

Figures 4.3.4a – 4.3.4c show the effect of the Covid-19 pandemic on participants' time allocation broken down by demographic group and for vulnerable groups.



Figure 4.3.4a: The effect of Covid-19 on time allocation for Bahrainis by age/gender

Source: Derasat-UNDP surveys

Figure 4.3.4a shows the demographic breakdown for Bahrainis. In terms of sleeping, most groups do not change their time allocation, with the exception of young (18-24) males, who significantly increase their sleep. In terms of meal preparation, three demographic groups drive the rise in the national average: men and women aged 25-44, and women over the age of 45. There is a clear gender effect, whereby women experience a larger increase in the time allocated to this task than do men. Young females and males avoid needing to increase their time allocation presumably either by using takeaway/delivery services, or by free-riding on the meal preparation efforts of their parents.

The distinction between young and old is also evident in childcare and homeschooling, where men and women above the age of 25 increase their time allocation considerably. This difference is presumably attributable to the fact that the younger men and women do not have dependent children, as they are

yet to get married. Among the older groups, in childcare (but not homeschooling), there is a slight gender effect, too, whereby women increase their time allocation more than do men.

In the domain of assisting the elderly, there is no age effect, but there is a gender effect: women of all ages significantly increase their time allocation to assisting the elderly, whereas men make modest changes (and actually decrease in the case of younger men).

All of these gender effects can presumably be attributed to cultural stereotypes regarding the genderbased roles in the allocation of household activities.



Figure 4.3.4b: The effect of the Covid-19 pandemic on time allocation in the UK by age/gender

Source: Derasat-UNDP surveys

Figure 4.3.4b shows the demographic breakdown for the UK. The data show different patterns to those in Bahrain. In the case of sleep, both young men and women – and especially the latter – increase their time allocation considerably. Young women are also the only group to significantly increase their time

allocation to exercise. Both groups manage to significantly increase their time allocation for leisure/entertainment, too, while other groups decrease theirs.

There are clear gender differences in childcare, homeschooling, and assisting the elderly, where women increase their time allocation by a larger amount than men. This is consistent with the aforementioned explanations given for the unfavorable impact of the pandemic on women's employment rates globally, i.e., women having to bear a disproportionate share of new household responsibilities that were previously outsourced to a certain degree.

The US data follow the general patterns exhibited by the UK data: young men and women sleep more and allocate more time to leisure/entertainment while other groups either maintain or decrease their time allocations to these tasks. There are clear gender effects in childcare, homeschooling, and assisting the elderly, whereby women at all age groups experience larger increases in time allocations than do men in the same age group.



Figure 4.3.4c: The effect of the Covid-19 pandemic on time allocation for Bahrainis by group

Source: Derasat-UNDP surveys

Figure 4.3.4c shows the breakdown for Bahrainis by vulnerable group. As expected, childcare and homeschooling see higher rises for people with at least two children than do the population in general, while those assisting at least two elderly also allocate greater time to assisting the elderly. Notably, the elderly (65+) are the only group to experience a sharp decrease in their time allocated to volunteering at non-profits, presumably because they are unable to contribute face-to-face, and lack the IT literacy to contribute remotely. They are also the only vulnerable group to increase their time allocated to sleeping. The UK and US data mimic the data for Bahrainis.

Figures 4.3.5a – 4.3.5d show the most desired form of assistance broken down by demographic group and vulnerable group.



Figure 4.3.5a: Desired support in light of the Covid-19 pandemic for Bahrainis by age/gender

Source: Derasat-UNDP surveys

Figure 4.3.5a shows the demographic breakdown for Bahrainis, and the data indicate rich variation by demographic group. Young men seek training and information about job opportunities, and these two options collectively account for over 50% of the preferences expressed by this group. The strong demand for loan deferrals at the national level is driven by men aged 25 and over, and while women in this group also seek loan deferrals, there is a considerable gender gap. In contrast, a reverse gender gap emerges in the psychological help category: women at all age groups — especially those aged 18-24 — express a desire for psychological help that considerably exceeds what men in the same age group ask for.



Figure 4.3.5b: Desired support in light of the Covid-19 pandemic in the UK by age/gender

Source: Derasat-UNDP surveys

Figure 4.3.5b shows the demographic breakdown for the UK. There is a clear gender effect in the demand for training, whereby men of each age group exhibit a considerably higher desire to acquire new skills than do women in the same age group. An analogous gender effect is evident in the desire to receive unemployment benefits. In contrast, in each age group, women in the UK – like Bahraini women –

exhibit a greater desire to receive psychological assistance than do men in the same age group. Finally, a very large percentage (31%) of UK women aged 45 and over selected the other category, with the modal response being a variant of "I do not require any assistance".

The US data show similar patterns to those in the UK data. At each age group, men systematically desire training more than do women, and they seek unemployment benefits more than women, whereas women are more likely to seek psychological help than are men, without it being their most desired form of support.

Figure 4.3.5c shows the breakdown for vulnerable groups of Bahrainis. There is a very large desire for loan deferrals (50%) among people with at least two children, which may be a reflection of the high rate at which they lost secondary jobs and the ensuing liquidity problems. Further, the elderly expressed a strong desire for psychological assistance.



Figure 4.3.5c: Desired support in light of the Covid-19 pandemic for Bahrainis by group

Source: Derasat-UNDP surveys

Figure 4.3.5d shows the vulnerable groups breakdown for the UK. The "other" category was also highly popular with the elderly (50%), most of whom explained that they do not need help. A similar pattern applies to the US.



Figure 4.3.5d: Desired support in light of the Covid-19 pandemic in the UK by group

Source: Derasat-UNDP surveys





Source: Derasat-UNDP surveys

Figures 4.3.6a – 4.3.6e show how participants intend to financially support their households for the duration of the pandemic (until the situation improves), broken down by educational attainment and vulnerable group.

Figure 4.3.6a shows the demographic breakdown for Bahrainis. A salient trend is that people with lower education levels tend to prefer seeking loans, whereas those with higher education levels tend to favor running down savings and decreasing spending. Given the correlation between education and income, and hence between education and accumulated savings, it is possible that these differences reflect variation in financial capacity, i.e., less educated people have lower incomes and are therefore less able to decrease their spending before they hit minimal living standards; and they do not have significant savings to run down. Alternatively, it could reflect differences in financial literacy and in predispositions toward short-term thinking.



Figure 4.3.6b: Dealing with Covid-19-related financial problems in the UK by education

Source: Derasat-UNDP surveys

Figure 4.3.6b shows the education breakdown for the UK. A similar pattern to Bahrainis emerges, in that the more educated are generally more likely to run down savings and decrease spending. However,

unlike Bahrainis, there is apparently little appetite in the UK for seeking support from loans, which may be attributable to the fact that the UK government did not offer deferrals on personal loans in the same manner that the Central Bank of Bahrain did. Finally, presumably due to their potentially higher average income, PhDs generally have little intention of using various forms of financial support, i.e., they do not need to. In the case of the US, there are no clear patterns in the data, and they mimic neither then Bahraini nor UK data.

Figure 4.3.6c shows the vulnerable groups breakdown for Bahrainis. The most salient feature in the data is that the elderly are planning on resorting to the different means available significantly more than the national average, and more than the other vulnerable groups, which are themselves essentially indistinguishable from the national average.



Figure 4.3.6c: Dealing with Covid-19-related financial problems for Bahrainis by group

Source: Derasat-UNDP surveys

Figure 4.3.6d shows the vulnerable group breakdown for the UK. In contrast to their Bahraini counterparts, the UK's elderly apparently intend to use a combination of running down savings and decreasing spending, and little else. In all options, their intended usage is considerably below national averages, and often close to zero.



Figure 4.3.6d: Dealing with Covid-19-related financial problems in the UK by group

Source: Derasat-UNDP surveys

Figure 4.3.6e shows the vulnerable group breakdown for the US. The US' elderly are similar to their UK counterparts in terms of their apparent stoicism, though they appear more willing to use the available options than do the elderly in the UK. Further, those with at least two children and/or assisting at least two elderly show an elevated desire to seek assistance from family/friends, form non-profits, and from the government compared to the national average.



Figure 4.3.6e: Dealing with Covid-19-related financial problems in the US by group

Source: Derasat-UNDP surveys

5. Summary

This report analyzes the data resulting from surveys in three countries (Bahrain, UK, USA), approximately a total of 3,000 observations of the socioeconomic impact of Covid-19. The surveys looked at five main questions:

- 1. How has the pandemic affected employment?
- 2. What kinds of challenges did the pandemic pose?
- 3. How did the pandemic affect people's allocation of time to non-work tasks?
- 4. What kind of support did people most desire to help them deal with the pandemic?
- 5. What financial means would they use to address the financial challenges posed by the pandemic?

In the cases of the UK and USA, the surveys were conducted on nationally representative samples of adults. In the case of Bahrain, a nearly nationally representative sample of Bahraini adults was gathered, in addition to a nearly nationally-representative sample of Bangladeshis residing in Bahrain. This latter group is plausibly one of the groups of migrant workers that have suffered the largest socioeconomic fallout from the pandemic. In the case of the two populations drawn from Bahrain, weights were used to construct averages that were nationally representative.

In terms of headline comparisons between these four groups, the main results were as follows.

First, all groups suffered considerable amounts of economic distress. However, the economic distress suffered by Bahrainis in Bahrain was considerably less than that of the populations of the UK and US, while the economic distress suffered by Bangladeshis in Bahrain was considerably higher than for all other groups. The distress took the form of a combination of job losses and decreased income even for those who did not lose jobs.

Notably, despite facing great hardship, the data provided do not allow us to infer how Bangladeshis in Bahrain would have fared had they returned to Bangladesh. To understand this important issue more fully, we are in the process of conducting a follow-up study. Second, the allocation of time to non-work tasks was affected considerably. In the case of Bangladeshis in Bahrain, it appears that the time allocated to most non-work tasks decreased significantly because they were allocating so much time to job search and other efforts at elevating their income. For the remaining three groups, preparing meals, assisting/supervising children and the elderly, and consuming media all received a significantly larger allocation of time, whereas socializing, leisure/entertainment, and health (except exercise) all witnessed significant reductions in time allocations.

Third, the data revealed significant heterogeneity in the kinds of support deemed most desirable. Bahrainis in Bahrain saw job-market training and loan deferrals as the most attractive, while Bangladeshis in Bahrain sought job information and rent support. In the UK and US, training and psychological support were the two most popular choices. These differences reflect deeper difference in the labor markets, the structure of household finances, and access to social support.

Fourth, the populations of the UK and US, as well as the Bangladeshis in Bahrain exhibited great readiness to rely on a mixture of new employment, running down savings, and decreasing spending as a way of dealing with the financial challenges posed by Covid-19. For Bahrainis, seeking loans and the assistance of friends/family and non-profits was prominent. This likely reflects cultural differences in the role of support networks, as well as the physical distance from their familial support networks and the precarious nature of jobs in the case of Bangladeshis in Bahrain.

In addition to these headline comparisons, breaking down the data by demographic group and educational level revealed rich variation in many of the areas covered by the study. Some of the highlights include the following (this is far from an exhaustive list).

- 1. Bahraini youth gained primary and secondary jobs, whereas all other groups in Bahrain and in other countries lost them.
- 2. In Bahrain, in terms of the economic impact, Bahraini women generally fared better than Bahraini men, whereas in the UK and US the reverse was true.
- 3. In general, people with lower education levels faced greater difficulty in dealing with the pandemic than people with higher education levels.

- 4. In all groups, changes in time allocation were quite sensitive to gender and age group, with nonyouth women allocating significantly more time than their male counterparts to assisting children and the elderly; and young people generally sleeping more and consuming more leisure, especially only media due to the non-availability of many of their traditional leisure alternatives (cafes, restaurants, etc.).
- 5. Women were more likely to express a desire for psychological support than did men; whereas men were more likely to express a desire for economic support.

In addition to these narrow empirical insights, the data gathered affirm the importance of systematic data gathering in informing policy, and in laying a foundation for subsequent research. The research team is planning on follow-up work with the Bangladeshi community in Bahrain to get a better understanding of the challenges that they have faced; and the team will also conduct a study of how Bahrainis have been dealing with the difficulties of repaying their loans.

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Appendix: Full Survey

(Arabic and Bangladeshi language versions of the survey are available upon request.)

Welcome to our Covid-19 survey. This survey has 14 questions and takes 6 minutes to complete. This survey is exclusively for people who are at least 18 years old. Are you at least 18 years old?

- Yes
- No

Question 1 of 14: How has the Covid-19 pandemic affected your main job? Please note that full-time education is not considered a job.

- Before the pandemic started in February 2020, I didn't have a main job, and I still do not have one now
- Before the pandemic started in February 2020, I didn't have a main job, but I have one now
- Before the pandemic started in February 2020, I had a main job, but I no longer have one now
- Before the pandemic started in February 2020, I had a main job, and I still have one now

[For those taking the last option in Question 1] How has the total number of hours worked in your main job changed since the beginning of the pandemic in February 2020, on a scale of 1 to 5, where 1 denotes "Decreased a lot", 3 denotes "No change", and 5 denotes "Increased a lot"?

Question 2 of 14: How has the Covid-19 pandemic affected your secondary job? Please note that fulltime education is not considered a job.

- Before the pandemic started in February 2020, I didn't have a secondary job, and I still do not have one now
- Before the pandemic started in February 2020, I didn't have a secondary job, but I have one now
- Before the pandemic started in February 2020, I had a secondary job, but I no longer have one now
- Before the pandemic started in February 2020, I had a secondary job, and I still have one now

[For those taking the last option in Question 2] How has the total number of hours worked in your secondary job changed since the beginning of the pandemic in February 2020, on a scale of 1 to 5, where 1 denotes "Decreased a lot", 3 denotes "No change", and 5 denotes "Increased a lot"?

Question 3 of 14: For each of the following socioeconomic challenges associated with the Covid-19 pandemic, please evaluate the extent to which it has affected you on a scale of 1 to 5, where 1 denotes "No effect on me at all", 3 denotes "A moderate effect on me", and 5 denotes "An extremely large effect on me":

- Difficulty in accessing necessities, such as food, medicines, and personal protective equipment (masks, sanitizer, etc.)
- Difficulty in accessing psychological and social support
- Difficulty in accessing ongoing education
- Decreased time for leisure and relaxation, for example because you have to work while taking care of children
- Temporarily unemployed or laid-off
- Income reduction (without being laid-off) and economic insecurity
- Other

Question 4 of 14: Please indicate how the Covid-19 pandemic has affected the time you allocate to each of the following non-work tasks on a scale of 1 to 5, where 1 denotes "Decreased time allocated to this task a lot", 3 denotes "No change in time allocated to this task", and 5 denotes "Increased time allocated to this task a lot"; or select "N/A" for tasks that do not apply to you:

- Sleeping
- Personal health, going to the doctor, etc. (except exercise)
- Exercise
- Studying and attending classes
- Preparing meals
- Basic childcare (except home schooling/education)

- Home schooling
- Caring for elderly family members
- Volunteering for non-profit organizations
- Social life (meeting friends and family)
- Leisure (recreation, culture, hobbies, games)
- Communication media (reading, social media, TV, radio)

Question 5 of 14: What kind of support do you think would be most useful to you? Select only one option.

- Get training for new skills
- Channels or platforms to get information about new employment opportunities
- Unemployment benefits
- Deferment of loan repayment
- Deferment of tax payment
- Rent support from government
- Psychological support
- Other

Question 6 of 14: For each of the following ways of financially supporting your household in the near future until the Covid-19 situation improves, please indicate whether you will use it a lot, use it a little, or not use it at all:

- Seeking new/additional employment opportunities
- Running down existing savings
- Decreasing spending
- Seeking loans from financial institutions
- Seeking financial support from individual friends/family
- Seeking financial support from non-profit organizations

• Seeking financial support from the government

Question 7 of 14: What is your nationality?

Question 8 of 14: What is your gender?

• Female / Male

Question 9 of 14: What is your age group?

• 18-24 / 25-34 / 35-44 / 45-54 / 55-64 / 65+

Question 10 of 14: What is your marital status?

• Single (never married) / Married / Divorced or separated / Widowed

Question 11 of 14: How many children do you have under the age of 18?

• 0/1/2/3/4/5+

Question 12 of 14: How many elderly family members do you assist?

• 0/1/2/3+

Question 13 of 14: Which [region] do you live in?

• [Options depended upon the country where the survey was distributed]

Question 14 of 14: What is your highest completed educational qualification?

• Less than high school / High school / Bachelor's degree / Master's degree / PhD