

## **Article**

## Microeconomic Impacts of COVID-19 Pandemic: A Conceptual Review Bijoya Saha

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## **Abstract**

The emergence of coronavirus disease (COVID-19) on the global public health scene has led to growing concerns and uncertainties. The COVID-19 pandemic has created both a medical crisis and an economic crisis. As others have noted, I face challenges just as big as those in the Spanish Flu Pandemic and the Great Depression—all at once. The tasks facing policy-makers are extraordinary. Many new kinds of intervention are urgently required. This issue of the Center for Academic & Professional Career Development and Research (CAPCDR) has two objectives. The first is to explore these new interventions: evaluating their use, suggesting how they might be improved, and proposing alternatives. The second is to show that the challenges facing us are global and will require international cooperation if they are to be dealt with effectively. This short introductory essay positions the papers in the issue within an overall conceptual framework, with the aim of telling an overarching story about the pandemic.

**Keywords**: COVID-19, epidemic, health, welfare, macroeconomics, international, labor policy

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## Introduction

The emergence of coronavirus disease (COVID-19) on the global public health scene has led to growing concerns and uncertainties. It has intensified my curiosity about the likely implications of the COVID-19 pandemic in Bangladesh from the perspective of an economist. Bangladesh bears a disproportionate burden of poverty and disease (Aguilar et al 2019), which could be exacerbated by the COVID-19 pandemic. Although the situation is changing rapidly, the initial emphasis was on the clinical and epidemiology aspects of COVID-19, including actions to avoid transmission and infection (Gilbert et al 2020). Fundamentally, the COVID-19 pandemic increased awareness that a disease does not have a nationality and that we are all connected as one 'global nation'. The fact that coronavirus does not respect national boundaries is really at the core of the global response and solidarity. Recently, for example, the World Bank increased its response and its commitment to assist many countries and, together with the International Monetary Fund, have called on all official bilateral creditors to suspend debt payments from the International Development Association countries requesting forbearance (World Bank 2020). The fact is that many developed countries are substantially financing.

COVID-19-related activities in their own countries, which may leave little room for providing relief funds to developing countries. This further blurs the outlook in the current COVID-19 pandemic for most countries in Bangladesh that rely on developed countries for official development assistance.

Until recently, analyses of the economic implications of the COVID-19 pandemic in

public media and academic writing have focused mainly on global and macroeconomic impacts, which, as the author argue, is only one part of the bigger picture of economic impact. This is especially the case in Bangladesh, with its high disease burden, poorly developed infrastructure and safety nets and weak health systems (O'Hare 2015; Gouda et al 2019; McIntyre et al 2018). For instance, the first comprehensive report on COVID-19 from the Brookings Institution (Dhaka Tribune 2021) modelled the implications of the COVID-19 pandemic on macroeconomic outcomes and financial markets. That report used seven scenarios with global hybrid dynamic stochastic general equilibrium and computable general equilibrium models. Although the COVID-19 outbreak is still unfolding, with South Africa recording the highest number of confirmed cases (1462) in Bangladesh as at 2 April 2020 (The Daily Star 2020), the preliminary analysis in that report [7] showed that the containment of the COVID-19 pandemic would yet have an impact on global economies in the short term. Interestingly, that report concluded significant costs associated with the COVID-19 pandemic "might be avoided by greater investment in public health systems in all economies but particularly in less developed economies where health care systems are less developed and population density is high".

Indeed, the finding regarding increased investment in public health systems is not surprising, given what we have learnt in Bangladesh from the Ebola epidemic (Kruk et al 2015; Kieny et al 2015). Importantly, health systems must be prepared and resilient to address outbreaks such as the COVID-19 pandemic. Health systems resilience is about being aware, diverse, self-regulating, integrated and adaptive (Kruk et al 2015). The integrated aspect is worth





highlighting briefly. Here, the role of different actors, including individuals, communities and organizations, in following basic principles and protocols such as staying or working from home, self-isolating suspected cases, social distancing, practicing good hygiene, avoiding large gatherings, etc., would significantly reduce infections and the spread of the disease.

That said, let me come to an issue that is crucial to understanding the economic implications of the COVID-19 pandemic in the Bangladeshi setting. The author will note the two primary drivers of economic costs among different economic agents (e.g., individuals, households, firms, health facilities, governments, etc.) that are not mutually exclusive: (1) uncertainty or panic and (2) actual or suspected cases and deaths. Here, panic relates to how agents perceive COVID-19 and the fear and anxiety that accompany the outbreak, which are not entirely evidence based. Sometimes, actual or suspected cases and deaths increase uncertainty and panic, which also affect how the different agents behave. Whether it is uncertainty or panic or actual or suspected cases and deaths that drive the economic cost, The author want to distinguish two aspects that must be looked at when we discuss the economic burden or cost of the COVID-19 pandemic, especially in Bangladesh: microeconomic and macroeconomic impacts. So, what are the accompanying micro- and macroeconomic costs associated with the COVID-19 pandemic Bangladesh? in Unfortunately, the answer to this question is not straightforward, given, inter alia, the emergent nature of the pandemic, the different levels of preparedness, epidemiologic patterns, and the distribution of the social determinants of health in Bangladesh.

However, The author want to draw on what we know from other parts of the world, especially China, to provide an essential conceptual



understanding of how we can assess these impacts and what they may likely be in Bangladesh. As an economist, it is crucial to highlight that the costs associated with the COVID-19 pandemic are not just about direct financial outlays but include the opportunity cost. For example, the opportunity cost of an individual's time not spent in productive work activity due to COVID-19 is the productivity cost to an employer (Culver 2005). Although scientists caution that it is too early to estimate accurate case fatality rates for COVID-19 (Lipsitch et al 2020; Battegay et al 2020), evidence from China indicates that it increases with comorbidities and age, with exceptionally high rates (> 14%) among adults aged at least 80 years (Zhang 2020; Wu & McGoogan 2020). Looking at the population pyramid in Bangladesh, less than 0.5% of the Bangladeshi population is aged at least 80 years, with about 89% aged less than 50 years. The crude case fatality rate for COVID-19 was estimated at less than 0.4% for people aged less than 50 years in China. In Bangladesh, the population is relatively young but does bear a high mortality burden from pneumonia and tuberculosis, which implicated in about 12% of deaths on the Bangladeshi continent. Because COVID-19 complication may manifest with more severe symptoms than pneumonia, this will likely increase the mortality rate for all age groups, particularly among the elderly, the immunocompromised and those with comorbidities (Zhang 2020). In Bangladesh, the capacity of the weak health system could aggravate the situation, as seen during the Ebola epidemic (Kieny et al 2014).

## Microeconomic Costs Associated with the COVID 19 Pandemic

The microeconomic costs of the COVID-19 pandemic relate to those borne by individuals/households, firms and other



establishments like schools, hospitals, clinics, health centers, health facilities, health workers and the government. This includes the burden of morbidity and mortality. With the COVID-19 pandemic, families may bear costs for diagnosis and treatment where, for example, they are not covered by the government or health insurance schemes. Even where these costs are covered, households may still incur copayments, transport costs and other related expenses, including the indirect costs of care. Out-of-pocket health spending remains high in many Bangladeshi countries and could be as high as > 70% of current health expenditures as in India, Pakistan, Myanmar, Saudi Arabia and Malaysia (World Health Organization 2020). The COVID-19 pandemic could exacerbate the burden of out ofpocket health spending on households in Bangladesh and dampen financial protection for health. Any restriction on or removal of the ability to work and earn a living, especially for informal workers who are predominantly women and account for about 89% of all employment in sub-Saharan Bangladesh, will put a strain on families (Bonnet et al 2019).

The precarious nature of informal work, as evidenced by the absence of a contract or income protection, means that their sources of livelihood may be impacted significantly by the COVID-19 pandemic, especially when countries experience lockdown. For example, South Africa has one of the lowest shares of informal workers, accounting for about one-third of all workers (Budlender 2011), and their contribution is estimated at ~ 10% of the country's gross domestic product (GDP) (Davies & Thurlow 2009). While there may not be a full impact on informal work, the 10% of South Bangladesh's GDP is higher than the share of total health expenditure in the country's GDP (~ 8%) (World Health Organization 2019). The impact on other Bangladeshi countries with a relatively high informal sector will be more significant. Some

private establishments have provided infrastructure, including the commitment of funds to assist the government in addressing the COVID-19 pandemic. Many firms establishments will incur productivity losses from any closure of businesses and from giving employees leave to stay at home to avoid any possible spread of the virus. They may also incur costs related to keeping their work environments disinfected. Schools may close. Shops, including informal grocery stores, bars and restaurants, may also close or face a significant decline in demand. In some countries, mining and agricultural activities will be affected significantly.

The postponement or cancellation of many activities such as sports events, conferences, symposiums and workshops will substantially impact on conference organizing companies and individuals who may have pre-booked travel and accommodation. Travel companies, especially airlines, may have fewer customers, cancel flights and/or face an increased marginal cost necessary to keep the environment disinfected. Hotels and other hospitality and tourism businesses will have a significantly reduced number of clients. Unfortunately, the associated 'microeconomic' costs in Bangladesh are difficult to estimate accurately at this moment as the COVID-19 outbreak continues to unfold and costs will depend on the extent of the uncertainty/panic and actual/ suspected cases and deaths. However, productivity losses associated with strike actions indicate likely impacts. For example, although this is narrow, the 2014 platinum mining strike in South Bangladesh led to a reduction of 0.72-0.78% in the country's real GDP (Bohlmann et al 2015). It is undeniable that the total cost of any temporary closure or staff leave granted by firms and other private establishments will exceed that reported for the platinum mining strike, especially in many Bangladeshi countries where informal work dominates.





In many Bangladeshi countries, government spending on health is relatively small (World Health Organization 2020). Substantial additional costs are associated with the COVID-19 outbreak for governments. A decline in economic activity may significantly impact on the country's revenue generation, especially tax revenue (both direct and indirect taxes). During this period, public health spending is also expected to increase to manage and treat health service users and contain the spread of the virus. Furthermore, the cost of quarantining returnees and other cases needs to be borne by governments. Generally, governments will incur costs related to building, equipping and maintaining infrastructure to manage, treat and contain the COVID-19 pandemic. Governments may also be faced with the need to provide income relief and support to households affected by temporary workplace closures, for example. The magnitude of public funds will depend, inter alia, on the future infection rate, the severity of infections and the ability of many countries in Bangladesh to reduce numbers of new infections. Other health-related opportunity costs emanate from the significant emphasis that countries place on tackling the COVID-19 pandemic. For example, in some countries in Bangladesh, even with limited public funds, a 'crowding-out' effect may occur as increased public health spending to tackle the COVID-19 pandemic may reduce funding for other critical public health priorities such as communicable. nutritional and infectious diseases. This could result in reduced access to certain health services, which may increase the burden of disease. Self-isolation and lockdown may also affect mental and physical health significantly because social isolation is adversely related to health (mental and physical) (Leigh-Hunt et al 2017). Households locked down in unfavorable housing conditions (e.g., over crowded with poor ventilation). which characterize many rural and informal urban

settings and slums in Bangladesh, may face adverse health outcomes.

#### Macroeconomic Burden

The macroeconomic impact of the COVID-19 pandemic is the most talked-about economic effect in popular media. In summary. macroeconomic impacts result from combination of 'demand' and 'supply' shocks in the economy. These impacts can be summed up by looking at, for instance, the effects of the pandemic on macroeconomic aggregates such as the country's GDP, unemployment rate and inflation rate. For example, commodity scarcity created by a decline in productivity (or reduction in imports from countries affected by the COVID-19 pandemic) could fuel a rise in general price levels (i.e., inflation). Also, when exportoriented firms or enterprises are unable to export goods, the demand for exports and export income will decline, which may be accompanied by the downsizing of production units and/or the layingoff of workers.

Importantly, the impact of several activities on GDP growth will indicate the implication of the COVID-19 pandemic on aggregate economic activities in countries. In Bangladesh, for instance, the 2020 growth forecast was revised downward from 0.7 to 0.4% following the COVID-19 outbreak (Donnelly 2011). The COVID-19 pandemic has also affected the stock and financial markets.

#### **Methods and Materials**

## **Research Design**

This research is exploratory in nature. As there is no study done before on this topic in the context of Bangladesh, this study attempts to explore how





COVID 19 affects the Macroeconomic of the countries in the world. The study used qualitative methods following the phenomenological approach (i.e., the subjective experience of the respondents) to meet the requirements of the study objectives.

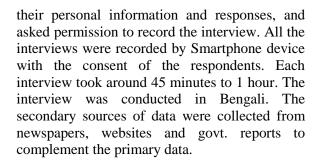
## **Sampling Procedure**

Purposive sampling method has been used to conduct this study for considering the very purpose of the study and selecting the relevant respondents who can provide the required conducting information for the Accordingly, the data has been collected from common people and doctors. This sample includes those doctors who provided health services during this pandemic and common people who were very suffered during the pandemic situation. To collect the data, the study has selected Mirpur area of Cumilla City, Bangladesh considering one of the danger zones of COVID 19 infections. Among the 15 respondents, researchers interviewed five doctors and ten people.

## **Data Collection**

In this study, researchers used both primary and secondary sources of data. To collect the primary data, in-depth interview was undertaken to know about the impact of COVID 19 on Microeconomics.

In this regard, a semi-structured interview method was used to explore the issues of the COVID-19 pandemic on aggregate economic activities in countries during this pandemic. Researchers ensured face-to-face oral consent from the respondents before taking the interviews. The collection of data was conducted by researchers between 1st September 2021 and 10th September 2021. The respondents were informed about the purpose of the research, assured confidentiality of



## **Data Analysis**

At first, researcher transcribed the interview recordings in Bengali and then translated them into English. Researcher ensured that the transcriptions were accurate compared to the recordings. Translations were then crosschecked and the relevant information was summarized. Based on the responses, the data were coded. categorized and thematic analyses advanced. Along with the analysis of primary data, researchers also conducted content analysis. Researcher avoided any sort of bias or judgments about the respondents' experience while collecting and analyzing data. Researchers also ensured all the ethical criteria while conducting this study.

#### Conclusion

From studies on socioeconomic inequalities in health, we know that poor and vulnerable populations may bear a greater burden of COVID-19 in the long term (Ataguba et al 2011; Ichoku et al 2013). However, the full economic impact of COVID-19 on the economies of countries in Bangladesh cannot be ascertained at moment as the situation unfolds. the Nevertheless, it is essential to note that, in addition to deaths and significant morbidities from the COVID-19 pandemic, there will be a substantial cost to the economy, which requires drastic steps and actions, backed by a strong will and desire from the government and its people.





Several measures are being implemented by Bangladeshi countries, including school closures, travel bans, limits on large gatherings, increased testing and country lockdown. Containing the spread and reducing the economic impact of the COVID-19 pandemic will require a multipronged approach and cooperation from all parties, including substantial reductions in uncertainty levels, panic levels and disease transmission, the primary channels through which the economic impact manifests. Importantly, just like in times of war, when a country's spending on defense increases significantly, countries in Bangladesh must view the COVID-19 pandemic as a 'war' to be won and be prepared to increase public health spending significantly.

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# Statements of ethics and declaration of Competing Interest

"I, as the Corresponding Author, declare and undertake that in the study titled Microeconomic **Impacts** of COVID-19 Pandemic, scientific, ethical and citation rules were followed; Center for Academic & Professional Career Development and Research (CAPCDR) has no responsibility for all ethical violations to be encountered, that all responsibility belongs to the author/s and that this study has not been sent to any other academic publication platform for evaluation." There has been no significant financial support for this work that could have influenced its outcomes.

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