

Pandemic caused 'staggering' economic, human impact in developing countries, research says

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Scene in Bangladesh under COVID. Credit: Mehdi Hasan/Dhaka Tribune

The onset of the COVID-19 pandemic last year led to a devastating loss of jobs and income across the global south, threatening hundreds of

millions of people with hunger and lost savings and raising an array of risks for children, according to new research co-authored at the University of California, Berkeley.

The research, to be published Friday Feb. 5, 2021, in the journal *Science Advances*, found "staggering" income losses after the pandemic emerged last year, with a median 70% of households across nine countries in Africa, Asia and Latin America reporting financial losses. By April last year, roughly 50% or more of those surveyed in several countries were forced to eat smaller meals or skip meals altogether, a number that reached 87% for rural households in the West African country of Sierra Leone.

"In the early months of the pandemic, the [economic downturn](#) in low- and [middle-income countries](#) was almost certainly worse than any other recent global economic crisis that we know of, whether the Asian financial crisis of the late 1990s, the Great Recession that started in 2008, or the more recent Ebola crisis," said UC Berkeley economist Edward Miguel, a co-author of the study. "The [economic costs](#) were just severe, absolutely severe."

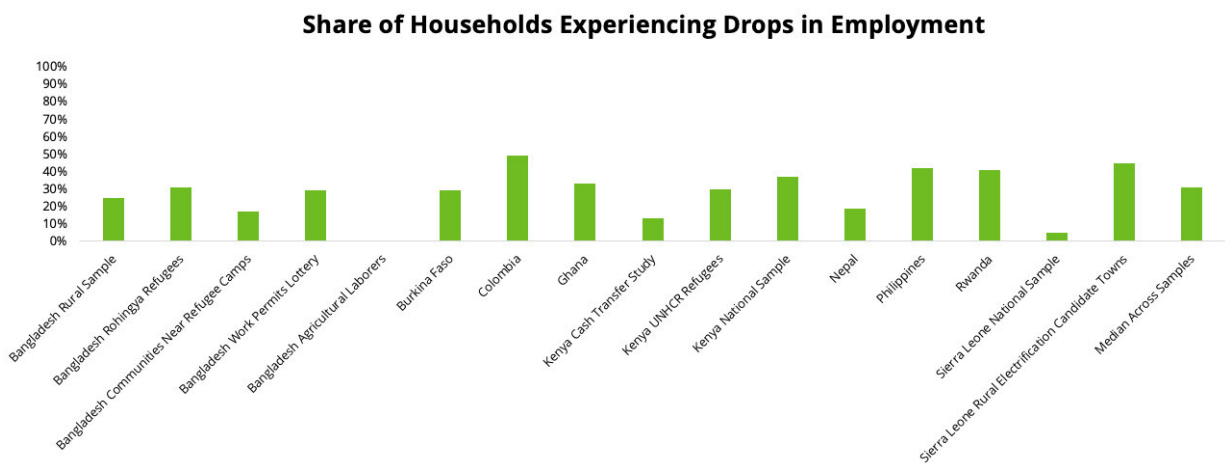
The pandemic has produced some hopeful innovations, including a partnership between the government of Togo in West Africa and UC Berkeley's Center for Effective Global Action (CEGA) on [a system to provide relief payments via digital networks](#).

But such gains are, so far, isolated.

The new study—the first of its kind globally—reports that after two decades of growth in many low- and middle-income countries, the economic crisis resulting from the COVID-19 pandemic threatens profound long-term impact: Reduced childhood nutrition could have health consequences later in life. Closed schools may lead to delayed

development for some students, while others may simply drop out. When families use their savings to eat, rather than invest in fertilizer or farm improvements, crop yields can decline.

"Such effects can slow economic development in a country or a region, which can lead to political instability, diminished growth or migration," said Miguel, a co-director at CEGA.



Share of households experiencing drops in employment. Credit: Innovations for Poverty Action

A troubling picture of life during the pandemic

The study was launched in spring 2020, as China, Europe and the U.S. led global efforts to check spread of the virus through ambitious lockdowns of business, schools and transit. Three independent research teams, including CEGA, joined to conduct surveys in the countries where they already worked.

Between April and early July 2020, they connected with 30,000 households, including over 100,000 people, in nine countries with a combined population of 500 million: Burkina Faso, Ghana, Kenya, Rwanda and Sierra Leone in Africa; Bangladesh, Nepal and the Philippines in Asia; and Colombia in South America. The surveys were conducted by telephone.

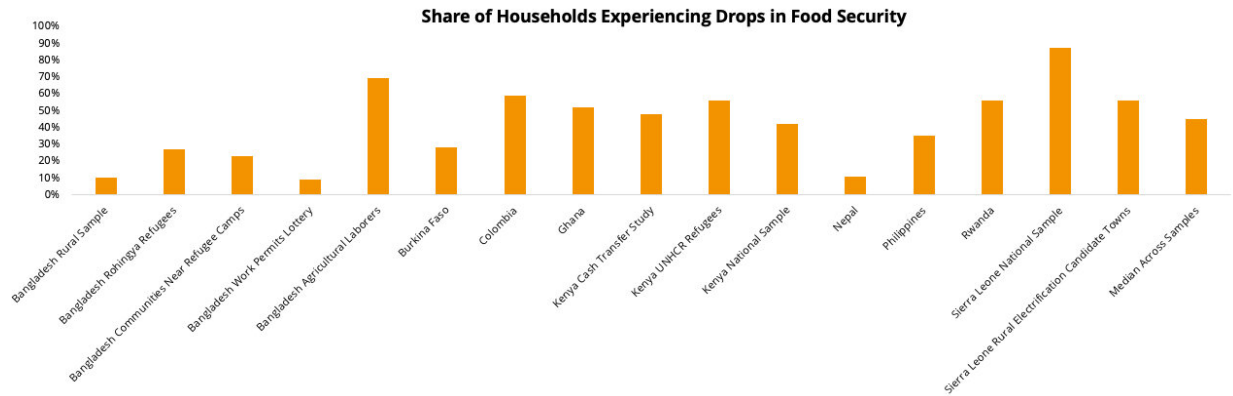
Reports early in the pandemic suggested that developing countries might be less vulnerable because their populations are so much younger than those in Europe and North America.

But the research teams found that, within weeks after governments imposed lockdowns and other measures to control the virus's spread, the pandemic was having a pervasive economic impact:

Income fell broadly. In Colombia, 87% of respondents nationwide reported lost income in the early phase of the pandemic. Such losses were reported by more than 80% of people nationwide in Rwanda and Ghana.

People struggled to find food. In the Philippines, 77% of respondents nationwide said they faced difficulty purchasing food because stores were closed, transport was shut down or food supplies were inadequate. Similar reports came from 68% of Colombians and 64% of respondents in Sierra Leone; rates were similar for some communities within other countries.

Food insecurity rose sharply. While the impact was worst in rural Sierra Leone, other communities were hard hit: In Bangladesh, 69% of landless agricultural households reported that they were forced to eat less, along with 48% of households in rural Kenya.



Share of households experiencing drops in food security. Credit: Innovations for Poverty Action

Children faced increased risk. With schools closed, the risk of educational setbacks rose. Many respondents reported delaying health care, including prenatal care and vaccinations. Some communities reported rising levels of domestic violence.

"The combination of a lengthy period of undernutrition, closed schools, and limited health care may be particularly damaging in the long run for children from poorer households who do not have alternative resources," the authors wrote.

Miguel's recent research has focused on economic conditions for poor people in Kenya, and he said people there scrambled to cope with the crisis.

"People moved in with relatives," he said. "People moved back to their home areas in rural places where there was food. Other people were just relying on the generosity of friends and relatives and co-workers to get by. When you're living on only a couple of dollars a day, and you don't

get that money, it's a desperate situation."

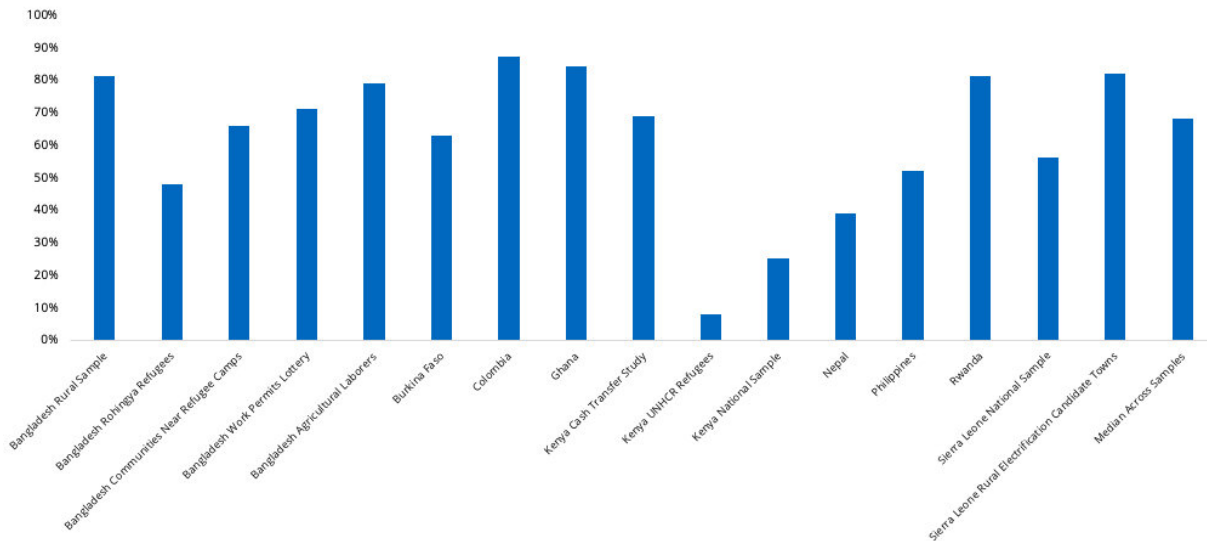
Wealthier countries are also gripped by crisis, but co-author Susan Athey, an economist at Stanford University's Graduate School of Business, said they're better able to cope.

"COVID-19 and its economic shock present a stark threat to residents of low- and middle-income countries—where most of the world's population resides—which lack the social safety nets that exist in [rich countries](#)," Athey said. "The evidence we've collected shows dire economic consequences ... which, if left unchecked, could thrust millions of vulnerable households into poverty."

A model of positive, high-impact international partnership

In fact, Miguel said, governments everywhere have struggled to address the health and economic dimensions of the pandemic. In both rich and poor nations, he said, governments have used the pandemic as a reason to crack down on political opponents.

Share of Households Experiencing Drops in Income



Share of households experiencing drop sin income. Credit: Innovations for Poverty Action

But the crisis has also produced hopeful engagements. The CEGA initiative to support Togolese leaders in developing a system for digital relief payments could be a model for international partnerships.

Under that project, CEGA co-Director Joshua Blumenstock has worked closely with top government officials in Togo to develop an advanced data-driven system for identifying people in need and delivering financial aid. The system uses new computational technologies, with data from satellite imagery, mobile phones and traditional surveys to identify people or communities in economic distress.

CEGA and the GiveDirectly aid organization have just won a \$1.2 million grant under the [data.org Inclusive Growth and Recovery Challenge](#) to allow further work on the project.

Already, "over 550,000 Togolese individuals have received cash transfers of roughly \$20 a month," said Lauren Russell, CEGA director of operations. "The grant should allow for the project to be scaled and evaluated even further, with the hope that the methods might be well-suited for adoption by other low- and middle-income countries."

Global crises require global solutions

Still, Miguel said the disparities between rich and poor nations have been "disheartening." In North America and Europe, nations may be struggling with vaccination plans, but vaccines have barely arrived in most low-income countries, he said.

"We will not recover in the rich countries until the whole world gets the vaccine and until the crisis is dealt with globally," he said. "As long as there's active pandemic in parts of the world that's affecting travel and tourism and trade, our economy and our society is going to suffer. If we can spread the wealth in terms of [pandemic](#) relief assistance and vaccine distribution, we're all going to get out of this hole faster."

More information: D. Egger et al., "Falling living standards during the COVID-19 crisis: Quantitative evidence from nine developing countries," *Science Advances* (2021). advances.sciencemag.org/lookup...1126/sciadv.abe0997

Provided by University of California - Berkeley

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