News in focus

WHY URUGUAY LOST CONTROL OF COVID

Once a pandemic success story, the country couldn't withstand the surge now rocking South America.

By Luke Taylor

SOURCE: OUR WORLD IN DATA

nce looked to as a global model for how to respond to the COVID-19 pandemic, Uruguay has in recent months lost its grip on the coronavirus SARS-CoV-2. It's now one of several countries in South America struggling to control a wave of infections.

Uruguayan scientists say a mix of complacency – fuelled by the country's early success at controlling the virus – and the challenges posed by a particularly transmissible SARS-CoV-2 variant are to blame.

"We were a model in 2020," says Rafael Radi, a biochemist at the University of the Republic in Montevideo. "Unfortunately, things are not following the same path in 2021."

For all of last year, the 3.5-million-person country recorded only about 19,100 cases of COVID-19, and 180 deaths from the disease. But this year, it has already reported more than 346,000 infections and 5,300 deaths, according to the online publication Our World in Data, maintained by researchers at the University of Oxford, UK (see 'Uruguay's surge'). On several occasions in May and June, Uruguay recorded the world's highest number of COVID-19 deaths per capita.

In the past few weeks, however, new infections and deaths have dropped, thanks to the country's swift vaccine roll-out, says Radi.

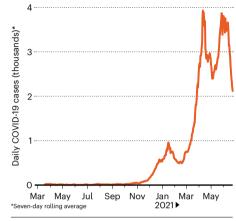
Uruguayan scientists and representatives attributed the country's early success at keeping the pandemic in check to government officials following the advice of the Honorary Scientific Advisory Group (GACH), a team of 55 multidisciplinary science experts led by Radi. In March 2020, after the country confirmed its first COVID-19 cases, the government swiftly shut down businesses and schools, and restricted travel at the borders, on the basis of the group's recommendations.

"We got many things right," says Radi. "The coupling of health, science, government and society in 2020 was almost perfect."

At the same time, scientists – including Gonzalo Moratorio, a virologist at the Pasteur Institute and the University of the Republic, both in Montevideo – realized that Uruguay would need COVID-19 tests to identify people who are infected, and that the country couldn't rely on purchasing those kits from

URUGUAY'S SURGE

The country managed to keep COVID-19 under control for most of 2020, but infections and deaths began to rise late in the year, and skyrocketed in March.



other nations. So the researchers developed their own, and achieved one of the highest testing rates per capita in Latin America. Thanks to widespread testing and an aggressive contact-tracing system put in place by Uruguay's Ministry of Health, the country was able to break transmission chains before they could grow exponentially (P. Moreno *et al.* Preprint at medRxiv https://doi.org/gksc; 2020).

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But all of that changed in 2021. COVID-19 cases began climbing in December. The GACH once again recommended restrictions, such as border closures, but government officials did not implement all of them. For instance, they did not close restaurants because it would have harmed the economy, says Radi.

As the number of infections continued to grow, Uruguay's test, trace, isolate (Tetris) programme faltered. Once more than 4% of tests come back positive, says Moratorio, Tetris cannot identify and isolate COVID-19 cases quickly enough to contain the virus.

"This really persistent first wave we are suffering is way beyond the Tetris strategy," says Radi.

Another reason for Uruguay's recent spike

is the country's geography, researchers say.

South America is currently reporting some of the highest rates of weekly COVID-19 deaths per capita in the world. Uruguay is wedged between two of the region's hotspots – Argentina and Brazil – where infections have been driven in part by a highly transmissible variant of SARS-CoV-2 called P.1, or Gamma. Some Uruguayan cities, such as Rivera, press against the border with Brazil, making travel restrictions between the countries ineffective there.

In February, less than 15% of all viruses sequenced in Uruguay were the Gamma variant – but in Rivera, that figure stood at 80%, says Rodney Colina, head of the molecular-virology laboratory at the University of the Republic in Salto, Uruguay.

Relaxed vigilance

But the Gamma variant is only one part of the equation, Uruguay's scientists say. Paradoxically, the country's early success in containing the pandemic probably played a part in the loss of control in 2021.

"National authorities claimed victory too early," says Moratorio. "Fear of the virus was lost because of all the good things we had done."

When case numbers surged, Uruguay should have locked down to bring them back to manageable levels, says Zaida Arteta, secretary of the Medical Union of Uruguay and a member of the Uruguayan Interdisciplinary COVID-19 Data Analysis Group, which monitors the pandemic.

The office of the Uruguayan president and the Ministry of Public Health did not respond to *Nature*'s queries about why they chose not to follow the GACH's recommendations to enact restrictions the second time around.

Government officials weren't the only ones to let their guard down when it came to COVID-19. Researchers say that compliance with social-distancing recommendations waned in 2021 because Uruguayans were confident in how the pandemic had been managed, and in the COVID-19 vaccines. The first shots were administered in Uruguay on 1 March.

Research published by the GACH that month found that, although the majority of Uruguayans think that COVID-19 is a severe disease, only one in three thought they themselves would get infected within the next six months.

So far, about 43% of Uruguayans have been fully vaccinated, and 63% have received at least one dose of a COVID-19 vaccine. For those who have been vaccinated, admissions to intensive-care units have dropped by more than 92%, according to a study by Uruguay's Ministry of Public Health.

So experts remain cautiously hopeful. "It's not over yet," says Arteta. "But the vaccine roll-out is one of Uruguay's strengths. They are efficacious, and we are vaccinating very well and quickly."