

With testing, Iceland claims major success against COVID-19

May 4 2020, by Egill Bjarnason



In this photo taken on Wednesday, April 29, 2020, people gather at a restaurant in Reykjavik after the country recorded days of zero new cases of COVID-19. High schools, dentists and hair salons are about to reopen in Iceland, which has managed to get a grip on the coronavirus through the world's most extensive regime of testing. By identifying infected people even when they had no symptoms, the tiny North Atlantic nation managed to identify and isolate cases where many bigger countries have struggled. (AP Photo/Egill Bjarnason)

Winter storms isolated the northern village of Hvammstangi from the rest of Iceland. Then spring brought the coronavirus, isolating villagers from each other. Now, as summer approaches, residents hope life is getting back to some kind of normal.

High schools, hair salons, dentists and other businesses across Iceland are reopening Monday after six weeks of lockdown, after this North Atlantic nation managed to tame its [coronavirus](#) outbreak.

Iceland has confirmed 1,799 cases of the virus, but just 10 people have died. The number of new COVID-19 cases each day has fallen from 106 at the peak of the outbreak to single digits—even, on some days, zero.

"I didn't expect the recovery to be this fast," said Iceland's chief epidemiologist, Thorolfur Gudnason.

Iceland's success is partly testament to its tiny population—just 360,000 people. But it also reflects decisive action by authorities, who used a rigorous policy of testing and tracking to find and isolate infected people, even when they had no symptoms.

That has helped Iceland weather the pandemic without resorting to the near-total social and economic shutdowns enforced in many other European countries. Infected people and their contacts were quarantined, but the rest of the population was not forced to stay inside, only to be careful.



In this photo taken on Wednesday, April 29, 2020, two local boys walk past the empty plaza of Hallgrímskirkja Church, a popular tourist destination in downtown Reykjavik. High schools, dentists and hair salons are about to reopen in Iceland, which has managed to get a grip on the coronavirus through the world's most extensive regime of testing. By identifying infected people even when they had no symptoms, the tiny North Atlantic nation managed to identify and isolate cases where many bigger countries have struggled. (AP Photo/Egill Bjarnason)

A volcanic island nudging the Arctic Circle, Iceland may be remote, but it is far from isolated. Its Keflavik Airport is a trans-Atlantic hub, and Icelanders are enthusiastic travelers. As in several other European countries, some of the first cases of the virus here were brought back from ski resorts in the Alps, including the Austrian village of Ischgl.

Early vigilance was key to Iceland's success. The country confirmed its first case of the virus on Feb. 28, and declared Ischgl a high-risk zone on March 5, two days before authorities there confirmed the first case.

Gudnason said Iceland had been updating and testing its response to a global pandemic since 2004. Hospitals had been testing people arriving from abroad for a month before the first confirmed case, and a media campaign urged hand washing and social distancing.

"Each institution involved in the response knew its role from the start," he said.

Iceland quarantined everyone returning from virus hotspots and began test-and-trace measures to locate and isolate every case. Bigger countries such as Britain took the same approach, at first. But the U.K. abandoned test-and-trace in March as the number of cases overwhelmed the country's testing capacity. More than a month later and with almost 30,000 Britons dead, the U.K. is scrambling to resume testing and tracing as part of its route out of national lockdown.

Iceland's testing capacity was helped by the presence of Reykjavik-based biopharmaceutical company deCODE Genetics, which early in the outbreak teamed up with health authorities to ramp up public testing.



In this photo taken on Thursday, April 30, 2020, Margret Gudjonsdottir, 28, poses for a photo as she works alone at a roadstop in Hvammstangi, Iceland. High schools, dentists and hair salons are about to reopen in Iceland, which has managed to get a grip on the coronavirus through the world's most extensive regime of testing. By identifying infected people even when they had no symptoms, the tiny North Atlantic nation managed to identify and isolate cases where many bigger countries have struggled. (AP Photo/Egill Bjarnason)

Over six weeks, Iceland managed to test almost 50,000 people, more than 13 percent of the population, the biggest chunk of any country in the world.

DeCODE did not test people already feeling sick or in quarantine, who

were tested in hospitals. The company used its facilities to test a cross-section of the population, and identified scores of new cases, including people with mild or no symptoms.

Kari Stefansson, deCODE's ebullient CEO, said the approach showed that "with the use of modern science, even an epidemic like this one can be contained."

Iceland's testing yielded new leads for scientists about how the virus behaves. Early results suggested 0.6 percent of the population were "silent carriers" of the disease with no symptoms or only a mild cough and runny nose.

Preliminary research suggests one-third of those who tested positive at deCODE infected someone around them, providing evidence that silent carriers do transmit the disease but much less than symptomatic patients.

In a random sample of 848 children under the age of 10 none of them tested positive, which guided Icelandic authorities' decision to keep schools open for children under 16.



In this photo taken on Thursday, April 30, 2020, people walk down a street in downtown Reykjavik. High schools, dentists and hair salons are about to reopen in Iceland, which has managed to get a grip on the coronavirus through the world's most extensive regime of testing. By identifying infected people even when they had no symptoms, the tiny North Atlantic nation managed to identify and isolate cases where many bigger countries have struggled. (AP Photo/Egill Bjarnason)

Alongside the testing, civil defense authorities set up a Contact Tracing Team, including police officers and university students, which used legwork and phone calls to identify people who had come into contact with infected individuals. A mobile phone tracing app was up and running a few weeks later.

Gudnason said the approach's success is shown by the fact that about 60% of people who tested positive were already in quarantine after being contacted by the tracing team.

Altogether, 19,000 people were ordered into two-week quarantine. Everyone else carried on with a semblance of normality. Primary schools remained open, and some cafes and restaurants kept operating, following social distancing rules: no more than 20 people gathered at once and everyone 2 meters (6.5 feet) apart.

Starting Monday, gatherings of up to 50 will be permitted, high schools and colleges can resume classes and all businesses except bars, gyms and swimming pools can reopen.

The entire country, however, must self-isolate from the rest of the world for the time being. Everyone arriving from abroad faces a 14-day quarantine.

That means a bleak economic outlook for a country that depends on tourism. On Road Number One, the "Ring Road" looping through Iceland's coastal towns and villages, the Associated Press passed empty vista points and few cars.



This photo taken on Thursday, April 30, 2020, shows a general view of the village of Hvammstangi in northern Iceland. High schools, dentists and hair salons are about to reopen in Iceland, which has managed to get a grip on the coronavirus through the world's most extensive regime of testing. By identifying infected people even when they had no symptoms, the tiny North Atlantic nation managed to identify and isolate cases where many bigger countries have struggled. (AP Photo/Egill Bjarnason)

"Business can only go up from here," said Margrét Guðjónsdóttir, 28, working alone at the roadstop in Hvammstangi.

The village, population 600, was hit badly early on. The town ended up having 26 confirmed cases of the virus, and was put under lockdown for a week while the transmission was being mapped out.

The local grocery store created "shifts" for customers so they could shop while socially isolating. In an April snowstorm, local search and rescue volunteers used their super-jeps to drive hospital staff to and from work and shuttled warm meals to elderly residents around town.

"Making each other's lockdown a little more pleasant became people's mission," Guðjónsdóttir said. "It really showed me the benefit of living in a small community."

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