

## **Experimental COVID-19 vaccine is put to its biggest test**

July 27 2020, by Lauran Neergaard, Michael Hill and Jocelyn Noveck



Nurse Kathe Olmstead, right, gives volunteer Melissa Harting, of Harpersville, N.Y., an injection as the world's biggest study of a possible COVID-19 vaccine, developed by the National Institutes of Health and Moderna Inc., gets underway Monday, July 27, 2020, in Binghamton, N.Y. (AP Photo/Hans Pennink)



The biggest test yet of an experimental COVID-19 vaccine got underway Monday with the first of some 30,000 Americans rolling up their sleeves to receive shots created by the U.S. government as part of the all-out global race to stop the pandemic.

The glimmer of hope came even as Google, in one of the gloomiest assessments of the coronavirus's staying power from a major employer, decreed that most of its 200,000 employees and contractors should work from home through next June—a decision that could influence other big companies.

Final-stage testing of the vaccine, developed by the National Institutes of Health and Moderna Inc., began with volunteers at numerous sites around the U.S. given either a real dose or a dummy without being told which.

"I'm excited to be part of something like this. This is huge," said Melissa Harting, a 36-year-old nurse who received an injection in Binghamton, New York. Especially with family members in front-line jobs that could expose them to the virus, she added, "doing our part to eradicate it is very important to me."

Another company, Pfizer Inc., announced late Monday that it had started its own study of its vaccine candidate in the U.S. and elsewhere. That study also aimed to recruit 30,000 people.

It will be months before results trickle in, and there is no guarantee the vaccines will ultimately work against the scourge that has killed over 650,000 people around the world, including almost 150,000 in the U.S.





Passengers wearing face masks arrive at Son Sant Joan airport on the Spanish Balearic Island of Mallorca, Spain, Monday, July 27, 2020. Britain has put Spain back on its unsafe list and announced Saturday that travelers arriving in the U.K. from Spain must now quarantine for 14 days. (AP Photo/Joan Mateu)

"We've been sitting on the sidelines passively attempting to wear our masks and social distance and not go out when it's not necessary. This is the first step of becoming active against this," said Dr. Frank Eder of Meridian Clinical Research, the company that runs the Binghamton trial site. "There's really no other way to get past this."

As if to underline how high the stakes are, there were more setbacks in efforts to contain the coronavirus.



In Washington, the Trump administration disclosed that national security adviser Robert O'Brien has the virus—the highest-ranking U.S. official to test positive so far. The White House said he has mild symptoms and "has been self-isolating and working from a secure location off site."

The move to restart the national pastime ran into trouble just five days into the long-delayed season: Two major league baseball games scheduled for Monday night were called off as the Miami Marlins coped with an outbreak—the Marlins' home opener against the Baltimore Orioles, and the New York Yankees' game in Philadelphia, where the Marlins used the clubhouse over the weekend.



Healthcare worker Dante Hills, left, passes paperwork to a woman in a vehicle at a COVID-19 testing site outside of Marlins Park, Monday, July 27, 2020, in Miami. The Marlins home opener against the Baltimore Orioles on Monday



night has been postponed as the Marlins deal with a coronavirus outbreak that stranded them in Philadelphia. (AP Photo/Lynne Sladky)

As for relief from the economic damage done by the virus, Republicans on Capitol Hill rolled out a \$1 trillion package that includes another round of \$1,200 direct payments but reduces the extra \$600 a week in federal unemployment benefits that expire for millions of Americans on Friday. Republicans proposed \$200 a week, saying the generous bump discourages people from returning to work. Democrats call the added benefits a lifeline for those who have lost their jobs.

Treasury Secretary Steven Mnuchin and White House chief of staff Mark Meadows worked through the weekend on the GOP proposal and have agreed to negotiate with House Speaker Nancy Pelosi and Democratic Senate leader Chuck Schumer. House Democrats passed a \$3 trillion relief package a couple of months ago.

In Europe, rising infections in Spain and other countries caused alarm only weeks after nations reopened their borders in hopes of reviving tourism. Over the weekend, Britain imposed a 14-day quarantine on travelers arriving from Spain, Norway ordered a 10-day quarantine for people returning from the entire Iberian peninsula, and France urged its citizens not to visit Spain's Catalonia region.





People wearing a face mask walk on Las Ramblas in Barcelona, Spain, Monday, July 27, 2020. Britain has put Spain back on its unsafe list and announced Saturday that travelers arriving in the U.K. from Spain must now quarantine for 14 days. (AP Photo/Felipe Dana)

Scientists set speed records getting vaccines into massive testing just months after the coronavirus emerged. But they stressed that the public shouldn't fear that anyone is cutting corners.

"This is a significant milestone," NIH Director Francis Collins said after the first test injection of Moderna's vaccine was given, at 6:45 a.m. in Savannah, Georgia. "Yes, we're going fast, but no, we are not going to compromise" on proving whether the vaccine is safe and effective.



"We are focusing on speed because every day matters," added Stephane Bancel, CEO of Massachusetts-based Moderna.

After volunteers get two doses a month apart, scientists will closely track which group experiences more infections as they go about their daily routines, especially in areas where the virus is spreading unchecked.



A woman shops for postcards in town of Sóller in the Balearic Island of Mallorca, Spain, Monday, July 27, 2020. Britain has put Spain back on its unsafe list and announced Saturday that travelers arriving in the U.K. from Spain must now quarantine for 14 days. (AP Photo/Joan Mateu)

The answer probably won't come until November or December,



cautioned Dr. Anthony Fauci, NIH's infectious-diseases chief.

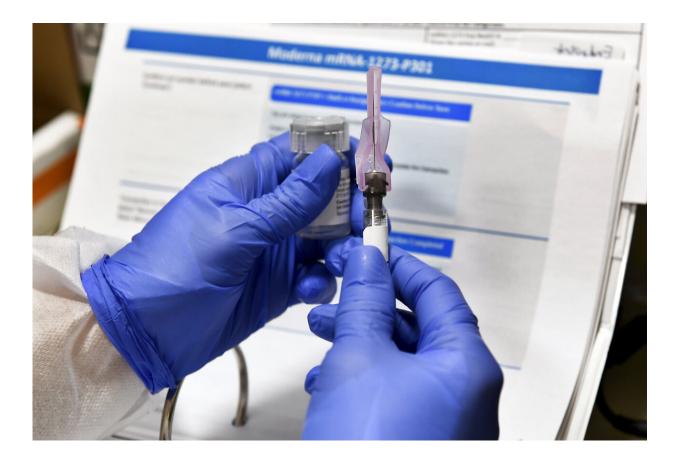
Among many questions the study may answer: How much protection does just one dose offer compared with the two scientists think are needed? If it works, will it protect against severe disease or block infection entirely?

Don't expect a vaccine as strong as the measles vaccine, which prevents about 97% of measles infections, Fauci said, adding he would be happy with a COVID-19 vaccine that's 60% effective.

Several other vaccines made by China and by Britain's Oxford University began smaller final-stage tests in Brazil and other hard-hit countries earlier this month. But the U.S. requires its own tests of any vaccine that might be used in the country.

Every month through the fall, the government-funded COVID-19 Prevention Network will roll out a new study of a leading candidate, each with 30,000 volunteers.





Nurse Kathe Olmstead prepares a shot as the world's biggest study of a possible COVID-19 vaccine, developed by the National Institutes of Health and Moderna Inc., gets underway Monday, July 27, 2020, in Binghamton, N.Y. (AP Photo/Hans Pennink)





Nurse Carolyn Grausgruber gives volunteer Ithaca firefighter Wade Bardo, of Erin, N.Y., an injection as the world's biggest study of a possible COVID-19 vaccine, developed by the National Institutes of Health and Moderna Inc., gets underway Monday, July 27, 2020, in Binghamton, N.Y. (AP Photo/Hans Pennink)





Shoppers walk by storefronts while wearing masks to protect against coronavirus, Saturday, July 25, 2020, in Bath, Maine. (AP Photo/Robert F. Bukaty)





Health workers arrives to screen people for COVID-19 symptoms at a residential building in Mumbai, India, Sunday, July 26, 2020. India is the third hardest-hit country by the pandemic in the world after the United States and Brazil. (AP Photo/Rafiq Maqbool)





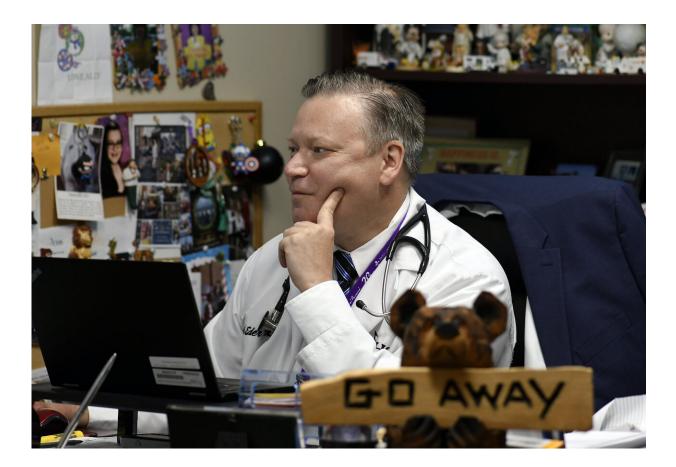
A healthcare worker measures body temperature as a precaution against the spread of the new coronavirus in COVID-19 hospital in Sarajevo, Bosnia, Monday, July 27, 2020. Regional WHO office in Bosnia expressed its concern with recent reports that medical institutions around the country are closing to maximum capacity as recent spike in COVID-19 infections are reaching record levels. (AP Photo/Eldar Emric)





Visitors wear face coverings while walking around Monday, July 27, 2020, in the Mountain tourist town of Georgetown, Colo. (AP Photo/David Zalubowski)





Dr. Frank Eder works in his office as the world's biggest study of a possible COVID-19 vaccine, developed by the National Institutes of Health and Moderna Inc., gets underway Monday, July 27, 2020, in Binghamton, N.Y. (AP Photo/Hans Pennink)





People gather for a demonstration in Prague, Czech Republic, Monday, July 27, 2020. Hundreds of musicians, concert promoters, club owners and other involved in the music industry rallied in Prague's Old Town Square to protest against government restrictions due to the coronavirus pandemic that they say ruin their business. (AP Photo/Petr David Josek)





People sit among photographs of people printed on sheets of paper stuck on seats in order for the audience to social distance, at the Municipal Theater in capital Nicosia, Cyprus, Monday, July 27, 2020. A group of actors are performing a number of short plays dealing with the goings-on during coronavirus lockdown conditions that Cyprus imposed between March and May of this year. (AP Photo/Petros Karadjias)





Inmates protest on the roof of a San Sebastian prison, asking for better medical attention amid the pandemic and to be given the results from previously administered COVID-19 tests, in Cochabamba, Bolivia, Monday, July 27, 2020. (AP Photo/Dico Solis)





Workers spray each other with disinfectant solution after unloading the body of a person who died from suspected COVID-19, at the crematorium at Xilotepec Cemetery in Xochimilco, Mexico City, Monday, July 27, 2020. (AP Photo/Rebecca Blackwell)

The final U.S. study of the Oxford shot is set to begin in August, followed by a candidate from Johnson & Johnson in September and one from Novavax in October.

That's a stunning number of people needed to roll up their sleeves for science. In recent weeks, more than 150,000 Americans filled out an online registry signaling interest, Collins said. But many more are needed.



NIH is working to make sure that the study isn't just filled with healthy, younger volunteers but includes populations hit hardest by COVID-19, including older adults, those in poor health and African-Americans and Latinos.

"We really are going to depend upon that sense of volunteerism for individuals from every different corner of society if we're going to really find out how this vaccine, and its potential to end this terrible pandemic, is go to work in each of those groups," Collins said.

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