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More Than 1.15 Billion Shots Given: Covid-19 Tracker

In the U.S., 243 million doses have been administered

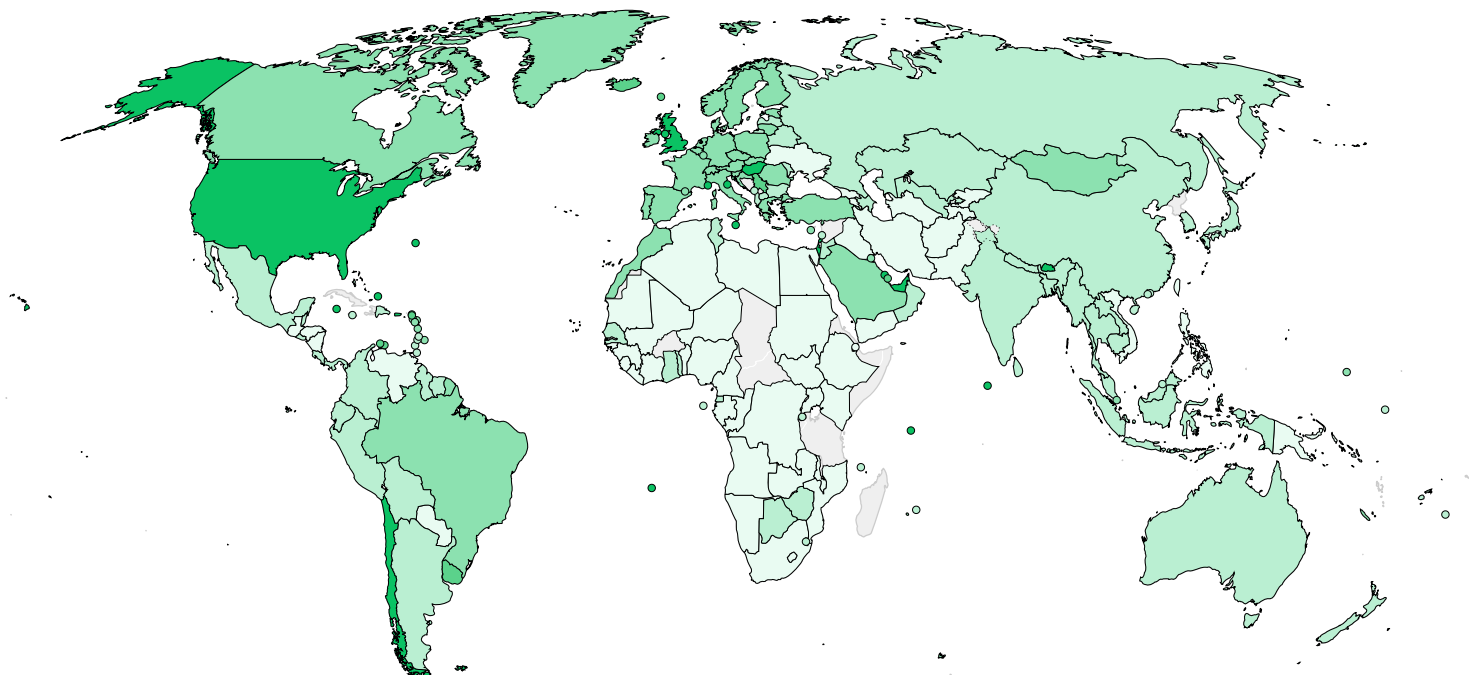
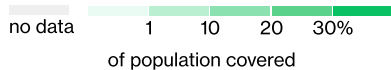
Updated: May 2, 2021, 6:03 AM GMT+7

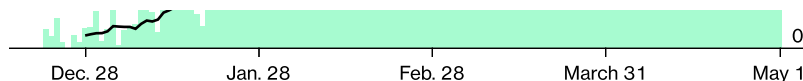
The biggest vaccination campaign in history is underway. More than **1.15 billion doses** have been administered across 174 countries, according to data collected by Bloomberg. The latest rate was roughly **21.1 million doses a day**.

In the U.S., **243 million doses** have been given so far. In the last week, an average of **2.55 million doses per day** were administered.

World Map of Vaccinations

More than 1.15 billion doses have been administered—enough to fully vaccinate 7.5% of the global population





Note: Immunity calculations take into account the number of doses required and the current rate of administration for each vaccine type. The "daily rate estimate" is a seven-day trailing average; interpolation is used for countries with infrequent updates. *Coverage may exceed 100% in some jurisdictions, as shots may be administered to non-residents. Data are from Bloomberg's Covid-19 Vaccine Tracker.

[Did we miss a country? Drop us a link](#)

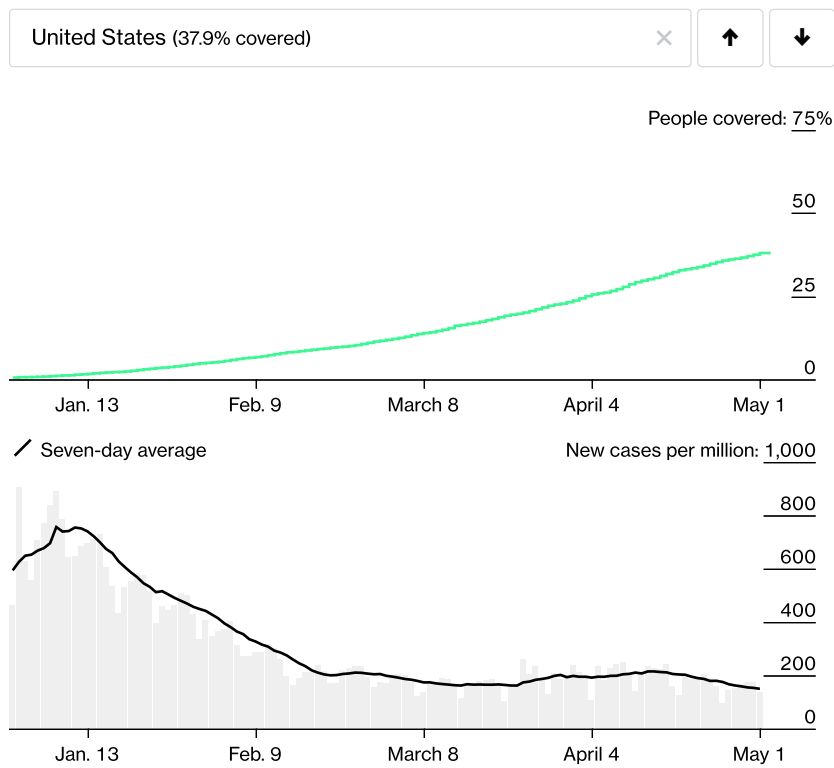
Are we bending the curve yet?

Israel was first to show that vaccinations were having a nationwide effect. The country has led the world in vaccinations, and by February more than 84% of people ages 70 and older had received two doses. Severe covid cases and deaths declined rapidly. A separate analysis in the U.K. showed similar results.

It's now a life-and-death contest between vaccine and virus. New strains threaten renewed outbreaks. In the early stages of a campaign, the effect of vaccinations are often outweighed by other factors of transmissibility: virus mutations, seasonality, effectiveness of mask use and social distancing. In time, higher vaccination rates should limit the Covid-19 burden around the world.

Vaccinations vs. Cases

Covid rates have generally flattened or declined in countries with the most vaccinations. Currently, **six places** have administered enough shots to cover at least **40%** of the population.



Note: "People covered" divides the doses administered for each vaccine type by the number of doses required for full vaccination. Vaccine data from Bloomberg's Covid-19 Tracker. Cases data: [Johns Hopkins University](#).

Methodology and Analysis

We've changed our data source for Netherlands. The reason we're doing it provides a little insight into the complexities of vaccine tracking...

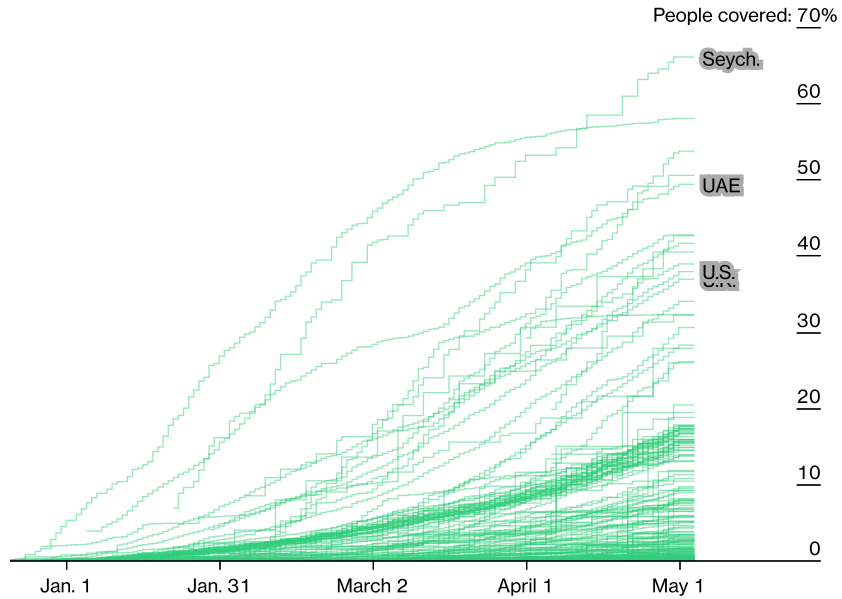
Since the start of the global vaccination campaign, countries have experienced unequal access to vaccines and varying degrees of efficiency in getting shots into people's arms. Before March, few African nations had received a single shipment of shots. In the U.S., 73.3 doses have been administered for every 100 people.

Delivering billions of vaccines to stop the spread of Covid-19 worldwide will be one of the greatest logistical challenges ever undertaken.

Race to End the Pandemic

Seychelles leads the world, with enough vaccinations to cover **66.1%** of its population

Select a location... ↑ ↓



Note: "People covered" divides the doses administered for each vaccine type by the number of doses required for full vaccination. Data from Bloomberg's Covid-19 Vaccine Tracker

Global Vaccination Campaign

Countries and regions	Doses administered ▼	% of population		Daily rate of doses administered
		Enough for % of people given 1+ dose	fully vaccinated	
◀ ▶				

	Doses administered ▼	Enough for % of people	% of population		Daily rate of doses administered
			given 1+ dose	fully vaccinated	
Global Total	1,152,011,996	-	-	-	21,144,961
China	265,064,000	9.5	-	-	6,997,143
U.S.	243,463,471	37.9	44.0	31.2	2,546,144
India	156,637,825	5.7	9.4	2.1	2,262,147
EU	147,294,988	16.6	24.2	8.7	2,993,125
U.K. +	49,287,257	36.9	51.4	22.4	529,551
Brazil	47,111,974	11.2	15.0	7.4	958,911
Germany	28,774,580	17.3	26.9	7.7	703,408
Turkey	22,954,623	13.8	16.6	11.0	265,798
France	22,272,519	17.2	24.3	10.0	436,114
Indonesia	20,135,649	3.8	4.7	2.9	231,266
Italy	20,111,976	16.7	23.3	10.0	407,759
Russia	19,800,000	6.7	8.2	5.2	428,571
Mexico	17,718,806	6.9	9.7	5.6	263,428
Spain	16,364,595	17.6	25.1	10.1	350,468
Chile	14,867,867	38.9	42.6	35.2	108,410
Canada +	13,339,374	17.8	29.7	2.6	300,232
Poland	11,470,800	15.1	22.6	7.8	255,789
UAE	10,609,950	49.4	-	-	59,384
Israel	10,497,355	58.0	59.7	56.3	17,719

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Note: Population coverage accounts for the number of doses required for each vaccine administered. The daily rate is a 7-day average; for countries that don't report daily, the last-known average rate is used.

U.S. Vaccinations: State by State

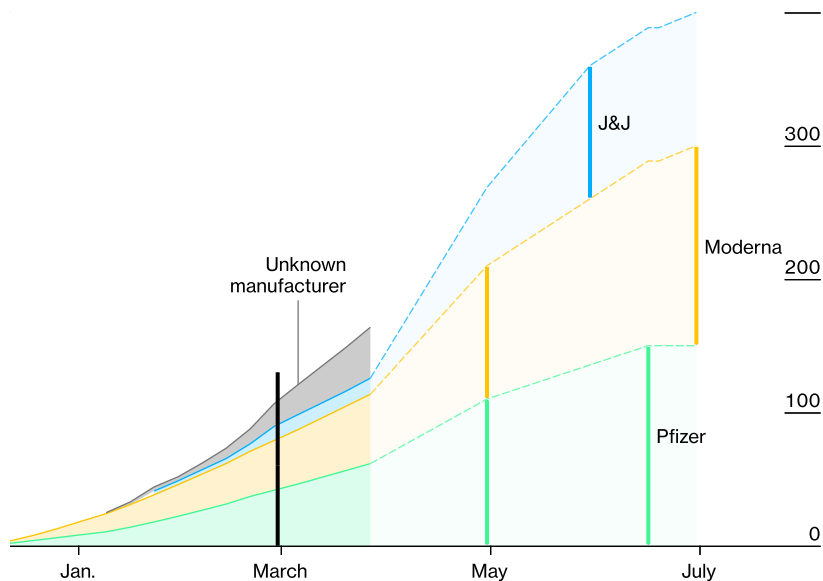
The U.S. leads the world in total vaccines administered, and more supply is on the way. Drugmakers have promised to deliver enough shots to fully vaccinate more than 300 million people by the end of June. That's more than enough for every adult, and clinical studies in children are underway.

Distribution in the U.S. is directed by the federal government. Pfizer and BioNTech's vaccine, as well as Moderna's shot both require two doses taken several weeks apart. J&J's inoculation requires just a single dose.

Time to Deliver

Vaccine makers pledge 700M doses for the U.S. by the end of July—enough to cover 400M people

■ ■ ■ Vaccines available
 ■ ■ ■ Delivery targets
 ■ ■ ■ Projected

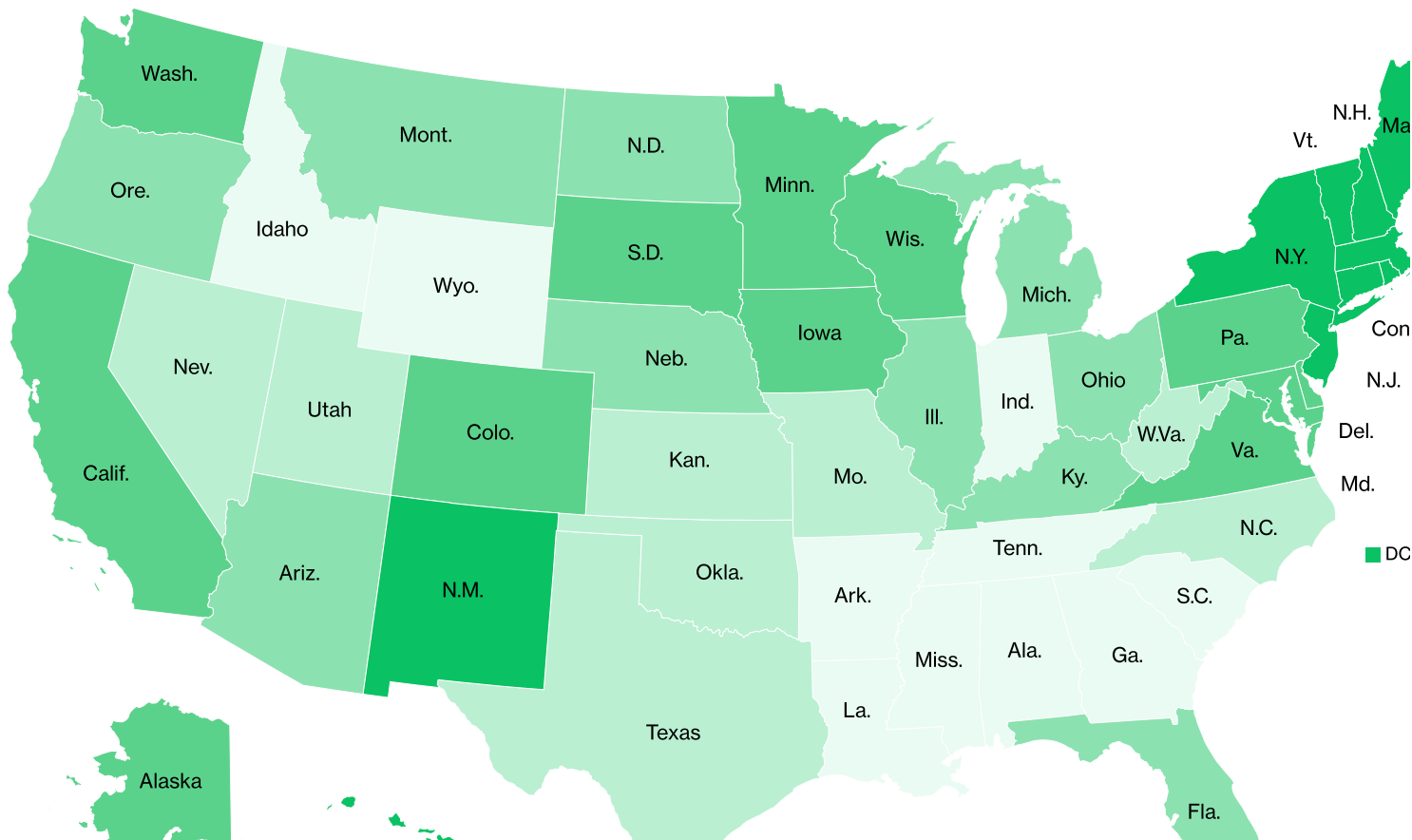
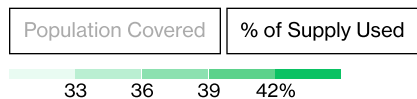


Source: "Unknown manufacturer" refers to vaccine allocations reported by the White House that are not further identified; the coverage calculation assumes they are two-dose vaccines. Specified allocations are from CDC. Targets are provided by the manufacturers and don't always align with government forecasts for availability.

The introduction of J&J's one-shot option in March is speeding up deliveries and making it easier to vaccinate hard-to-reach populations. So far, 146 million Americans have received at least one dose of a vaccine—56.7% of the adult population. At least 103 million people have completed a vaccination regimen.

Vaccines Across America

Across the U.S., enough doses have been administered to cover 37.9% of the population, and 78% of the delivered shots have been used





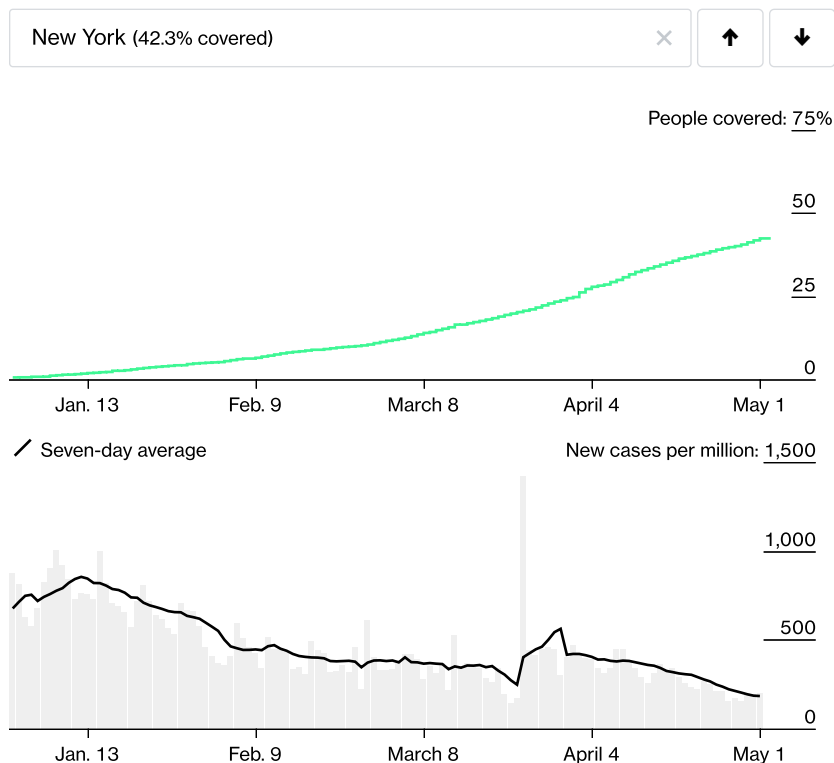
Note: "Population covered" divides the doses administered for each vaccine type by the number of doses required for full vaccination. Data added after Feb. 20 is from the CDC and includes doses administered by federal entities in state totals. Prior data from the Bloomberg Covid-19 Tracker. It can take several days for counts to be reported through the CDC database.

The U.S. hasn't yet achieved vaccination rates high enough to quell the outbreaks. New Covid variants have driven a surge in cases in some states—especially Michigan. Even states with relatively high vaccine coverage, including Minnesota and Pennsylvania, have seen their numbers rise.

Younger, unvaccinated populations are increasingly viewed as key to heading off a potential fourth wave. New vaccine supplies have allowed states to open up eligibility to wide swaths of residents. President Joe Biden has said that by April 19 all adults will be eligible to get vaccinated. Until recently, eligibility has mostly been based on age, occupation, and underlying medical conditions.

U.S. Vaccinations vs. Cases

Covid rates have generally flattened or declined in states with the most vaccinations. Currently, **21 places** have administered enough shots to cover at least **40%** of the population.



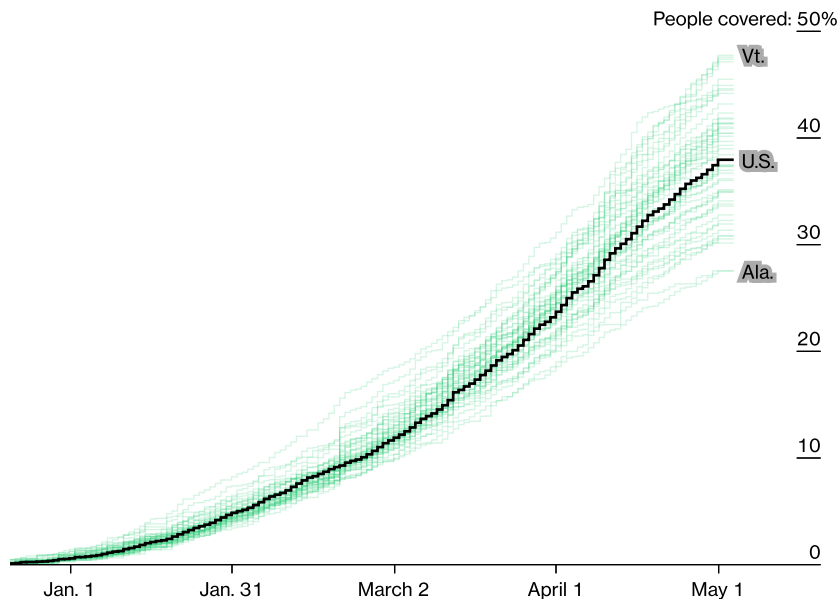
Note: "People covered" divides the doses administered for each vaccine type by the number of doses required for full vaccination. Vaccine data from Bloomberg's Covid-19 Tracker. Cases data: [Johns Hopkins University](#).

It takes about two weeks after a final vaccine dose for immunity to fully develop. After that, a person can safely meet indoors with other vaccinated people without wearing masks, according to [CDC guidance](#) issued in March. Grandparents can spend time with their grandchildren again.

Even for people fully vaccinated, some restrictions remain in place while the virus still circulates across the country. The CDC advises against travel and recommends wearing masks and social distancing while in public.

How State Vaccinations Stack Up

Vermont leads all states, with enough vaccinations to cover 47.7% of its populations

↑
↓


Note: Two doses are needed for full protection with the Pfizer and Moderna vaccines, while the J&J shot requires a single dose. Data from Bloomberg's Covid-19 Vaccine Tracker

After focusing first on hospitals and other institutional health-care settings, states have expanded the number of places that offer the shots. Mass vaccination centers were created from sport stadiums, theme parks, convention halls and race tracks. Millions of doses are now being shipped directly to local pharmacies.

The vaccines available today are only approved for people over the age of 16. Pfizer and BioNTech have asked the FDA to expand authorization to ages 12 and older. Tests for dosing, safety, and effectiveness are underway in younger ages, with results expected later this year.

Tips and Feedback: Help us improve the Covid-19 Vaccine Tracker

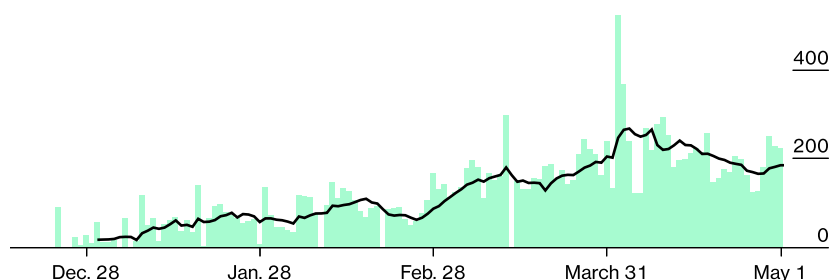
The Path to Immunity in the U.S.

In **New York**, the latest vaccination rate is **183,936 doses** per day, on average. At this pace, it will take another **2 months** to cover **75%** of the population.

↑
↓

✓ Average daily rate estimate

Doses administered: 600k



Note: Vaccinating roughly 70% to 85% of a country's population would enable a return to normalcy, according to top U.S. infectious disease doctor Anthony Fauci. Immunity calculations take into account the number of doses required and the current rate of administration for each vaccine type. Data are from Bloomberg's Covid-19 Vaccine Tracker.

U.S. Vaccination Campaign

Jurisdiction	Doses administered ▼	Enough for % of people	% of population		Daily rate of doses administered	Supply used
			given 1+ dose	fully vaccinated		
<i>U.S. Totals</i>	243,463,471	37.9	44.0	31.2	2,546,144	77.9%
California	30,820,835	40.4	49.2	31.1	359,825	77.8%
Texas	19,090,255	34.0	38.5	27.5	186,869	74.8%
New York +	15,858,599	42.3	48.0	35.3	183,936	83.4%
Florida	15,488,105	37.3	42.3	29.8	176,482	74.1%
Pennsylvania	10,238,628	41.4	50.1	32.7	115,389	79.5%
Illinois	9,551,269	38.9	46.9	30.8	95,862	78.4%
Federal Entities* +	9,252,468	-	-	-	54,054	78.0%
Ohio	8,461,702	37.4	40.6	32.8	81,041	79.5%
New Jersey	7,381,197	43.1	52.0	36.6	79,205	84.2%
Michigan	7,216,189	37.3	42.9	32.5	79,093	76.0%
North Carolina	7,078,485	34.9	39.4	29.6	61,125	71.4%
Virginia	6,751,219	40.8	47.5	33.6	79,191	82.0%
Georgia	6,386,954	30.7	35.2	24.9	66,414	67.3%
Massachusetts	6,276,416	47.1	56.7	37.1	86,322	84.1%
Washington	5,907,522	40.1	46.8	32.7	72,914	80.2%
Arizona	5,123,812	36.1	41.0	29.4	44,097	77.0%
Maryland	4,859,616	41.7	48.9	34.7	57,619	79.0%
Wisconsin	4,700,739	41.8	45.9	35.9	43,728	89.0%
Colorado	4,506,339	40.4	46.8	33.0	62,007	83.1%

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Note: The category entry for Federal Entities isn't counted in the country total because those vaccinations are already included in relevant state totals. The "Unassigned" entry refers to vaccinations from CDC's U.S. totals that the agency didn't assign to a specific state or territory. "Doses administered" figures include all vaccinations within a state, regardless of a person's residency, while population coverage data only accounts for residency. "Shots used" shows the proportion of administered vaccines compared with the total doses received by a state.

Frequently Asked Questions

[Curious about how we collect our data? Wondering why we made certain decisions for the tracker? We have answers...](#)

Vaccine Timeline

Bloomberg is tracking the development of nine of the globe's most promising vaccines. A total of seven vaccines are now available for public use, in limited quantities, in at least 174 countries.

Nations have poured billions of dollars into developing new vaccine technologies, testing them in thousands of volunteers, scaling up manufacturing, and then bringing them to market in record time.

None of these shots, on its own, is enough to inoculate a global population of some 7.8 billion people. But together they represent humanity’s best chance of ending a scourge that has claimed more than 3 million lives and triggered global economic calamity.

[Sign up for our daily coronavirus newsletter](#)

When to Expect the Next Vaccine

Pfizer/BioNTech

44K 2 -70°C 95%

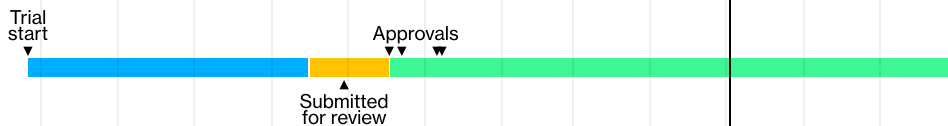
Pfizer was the first company to report positive phase 3 clinical data. It plans to produce 50M doses in 2020 and 1.3B in 2021.



Moderna

30K 2 2-8°C 95%

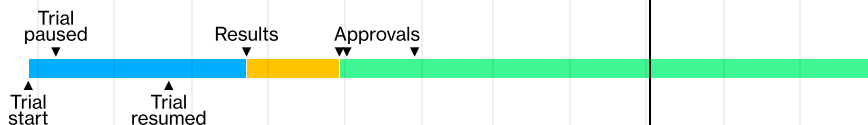
Moderna and Pfizer both use a new vaccine approach involving messenger RNA. Moderna expects to have 20M doses for the U.S. in December and 100M globally in Q1.



AstraZeneca/Oxford

65K 2 2-8°C 70%

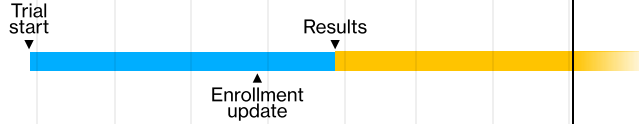
AstraZeneca struck deals for 3 billion doses even before any late-stage study results. That’s more than twice as many as any other candidate. Initial clinical results were mixed.



Novavax

45K 2 2-8°C 89%

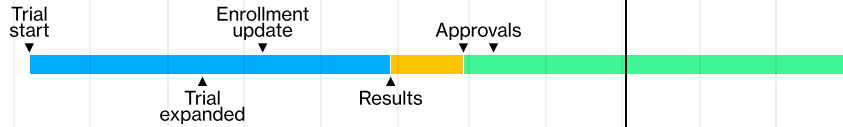
This small biotech firm has never brought a product to market. It received more than \$1.6 billion from the U.S. and \$399 million from the Coalition for Epidemic Preparedness. The stock rose 3,000% in nine months.



Johnson & Johnson

70K 1 2-8°C 66%

Of the leading candidates, this is the easiest to distribute, requiring just one dose and standard refrigeration. To hedge its bets, J&J announced a separate trial with two doses in November.

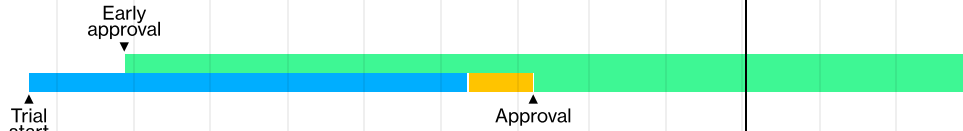


Russia and China took the unusual step of allowing vaccine distribution before conducting large-scale clinical trials.

Sinovac Biotech

26K 2 2-8°C 50%

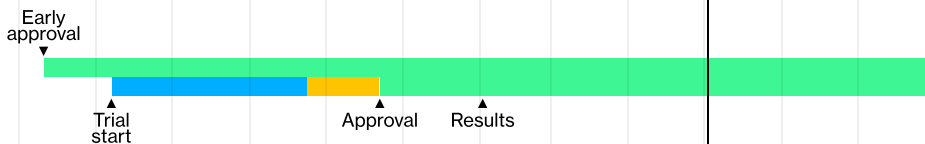
Sinovac's vaccine triggers an immune response using the Covid-19 virus itself, after it has been chemically inactivated.



Gamaleya

40K 2 -18°C 92%

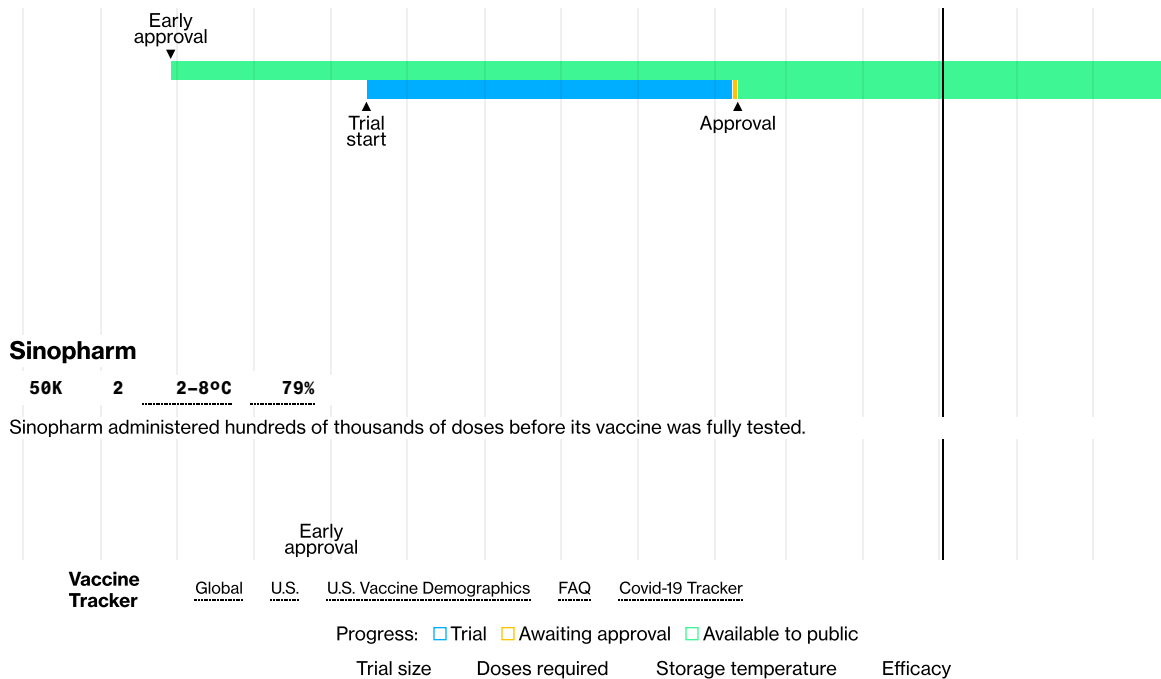
A variation of the Russian vaccine, known as Sputnik V, can be stored using standard refrigeration temperatures of 2-8°C. It's currently available in limited quantities.



CanSino Biologics

40K 1 2-8°C 66%

CanSino's shot was approved for the Chinese military even before late-stage tests began. It uses a harmless cold virus to deliver its genetic payload.



Note: Data are based on interviews, company disclosures, news reports and government data. In many countries, vaccines are first coming to market under emergency measures that let them bypass normal regulatory requirements. Because millions of people will get the vaccines under these rules, they are displayed as "available to the public." Bloomberg will note when the regulatory status changes in the future.

Covid-19 Deals Tracker

Doses Under Contract: Our vaccine deals tracker is no longer being updated as of March 1. The page is still available through this link, and has counted 137 contracts between drugmakers and countries accounting for 9.6 billion doses.

Correction (April 18):

[Tips and Feedback: Help us improve the Covid-19 Vaccine Tracker](#)

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