

# One year of vaccines: Many lives saved, many needlessly lost

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Boxes containing the Pfizer COVID-19 vaccine are prepared to be shipped at the Pfizer Global Supply Kalamazoo manufacturing plant in Portage, Mich., Dec. 13, 2020. The nation's COVID-19 death toll stands at around 800,000 as the anniversary of the U.S. vaccine rollout arrives. A year ago it stood at 300,000. What might have been a time to celebrate a scientific achievement is fraught with discord and mourning. Credit: AP Photo/Morry Gash, Pool, File

One year ago, the biggest vaccination drive in American history began with a flush of excitement in an otherwise gloomy December. Trucks loaded with freezer-packed vials of a COVID-19 vaccine that had proved wildly successful in clinical trials fanned out across the land, bringing shots that many hoped would spell the end of the crisis.

That hasn't happened. A year later, too many Americans remain unvaccinated and too many are dying.

The nation's COVID-19 [death](#) toll stands at around 800,000 as the anniversary of the U.S. vaccine rollout arrives. A year ago it stood at 300,000. An untold number of lives, perhaps tens of thousands, have been saved by vaccination. But what might have been a time to celebrate a scientific achievement is fraught with discord and mourning.

National Institutes of Health Director Francis Collins said scientists and health officials may have underestimated how the spread of misinformation could hobble the "astounding achievement" of the vaccines.

"Deaths continue ... most of them unvaccinated, most of the unvaccinated because somebody somewhere fed them information that was categorically wrong and dangerous," Collins said.

Developed and rolled out at blistering speed, the vaccines have proved incredibly safe and highly effective at preventing deaths and hospitalizations. Unvaccinated people have a 14 times higher risk of dying compared to fully vaccinated people, the Centers for Disease Control and Prevention estimated based on available data from September.



A syringe is prepared with the Pfizer COVID-19 vaccine at a clinic in the Norristown Public Health Center in Norristown, Pa., Tuesday, Dec. 7, 2021. The nation's COVID-19 death toll stands at around 800,000 as the anniversary of the U.S. vaccine rollout arrives. A year ago it stood at 300,000. What might have been a time to celebrate a scientific achievement is fraught with discord and mourning. Credit: AP Photo/Matt Rourke, File

Their effectiveness has held up for the most part, allowing schools to reopen, restaurants to welcome diners and families to gather for the holidays. At last count, 95% of Americans 65 and older had had at least one shot.

"In terms of scientific, [public health](#) and logistical achievements, this is in the same category as putting a man on the moon," said Dr. David



Dowdy, an infectious-disease epidemiologist at Johns Hopkins Bloomberg School of Public Health.

The vaccines' first year has been rocky with the disappointment of breakthrough infections, the political strife over mandates and, now, worries about whether the mutant omicron will evade protection.

Despite all that, Dowdy said, "we're going to look back and say the vaccines were a huge success story."

On the very day that an eager nation began rolling up its sleeves, Dec. 14, 2020, the U.S. death toll from COVID-19 hit 300,000. And deaths were running at an average of more than 2,500 a day and rising fast, worse than what the country witnessed during the harrowing spring of 2020, when New York City was the epicenter of the U.S. outbreak.



Grand marshal Sandra Lindsay, a health care worker who was the first person in the country to get a COVID-19 vaccine shot, waves to spectators as she leads marchers through the Financial District as confetti falls during a parade honoring essential workers for their efforts in getting New York City through the COVID-19 pandemic, Wednesday, July 7, 2021, in New York. The nation's COVID-19 death toll stands at around 800,000 as the anniversary of the U.S. vaccine rollout arrives. A year ago it stood at 300,000. What might have been a time to celebrate a scientific achievement is fraught with discord and mourning. Credit: AP Photo/John Minchillo, File

By late February total U.S. deaths had crossed 500,000, but the daily death count was plummeting from the horrible heights of early January. With hopes rising in early March, some states began reopening, lifting mask mandates and limits on indoor dining. Former President Donald Trump assured his supporters during a Fox News interview that the vaccine was safe and urged them to get it.

But by June, with the threat from COVID-19 seemingly fading, demand for vaccines had slipped and states and companies had turned to incentives to try to restore interest in vaccination.

It was too little, too late. Delta, a highly contagious mutated form of coronavirus, had silently arrived and had begun to spread quickly, finding plenty of unvaccinated victims.

"You have to be almost perfect almost all the time to beat this virus," said Andrew Noymer, a public health professor at the University of California, Irvine. "The vaccine alone is not causing the pandemic to crash back to Earth."





Sandra Lindsay, left, a nurse at Long Island Jewish Medical Center, is inoculated with the Pfizer COVID-19 vaccine by Dr. Michelle Chester, in the Queens borough of New York, on Dec. 14, 2020. The nation's COVID-19 death toll stands at around 800,000 as the anniversary of the U.S. vaccine rollout arrives. A year ago it stood at 300,000. What might have been a time to celebrate a scientific achievement is fraught with discord and mourning. Credit: AP Photo/Mark Lennihan, Pool, File

One of the great missed opportunities of the COVID-19 pandemic is the shunning of vaccination by many Americans.

This fall, Rachel McKibbens, 45, lost her father and brother to COVID-19. Both had refused the protection of vaccination because they

believed false conspiracy theories that the shots contained poison.

"What an embarrassment of a tragedy," McKibbens said. "It didn't have to be this way."

More than 228,500 Americans have died from COVID-19 since April 19, the date when all U.S. adults were eligible to be vaccinated. That's about 29% of the count since the first U.S. coronavirus deaths were recorded in February 2020, according to an Associated Press analysis.

In all, two states—Florida and Texas—contributed more than 52,000 deaths since that date. Alaska, Hawaii, Oregon, Wyoming and Idaho also saw outside death tolls after mid-April.



In this 2021 photo provided by Tanya B. Alves-Otero, her sister, Tamara Alves Rodriguez poses for a photo in San Juan, Puerto Rico. Seven months pregnant and unvaccinated, Rodriguez tested positive for the coronavirus Aug. 9. The young mother never held her child. Rodriguez died Oct. 30 at age 24. She left behind her husband, two other children and an extended family. Credit: Layzné Alves-Otero via AP

Red states were more likely than blue states to have greater than average death tolls since then.

"I see the U.S. as being in camps," Noymer said. "The vaccines have become a litmus test for trust in government."

Wyoming and West Virginia, the states with the highest vote percentages for Donald Trump in 2016, have recorded about 50% of their total COVID-19 deaths since all adults were declared eligible for the vaccine in those states. In Oklahoma, nearly 60% of COVID-19 deaths occurred after all adults were vaccine-eligible.

There are exceptions: Notably, Hawaii and Oregon are the only Joe Biden-supporting states where more than half of the COVID-19 deaths came after shots were thrown open to all adults. North Dakota and South Dakota—both ardent Trump states—have kept their share of deaths after the vaccine became available across the board to under 25%.





Medical staff tend to a patient with coronavirus, on a COVID-19 ward inside the Willis-Knighton Medical Center in Shreveport, La., Aug. 18, 2021. The nation's COVID-19 death toll stands at around 800,000 as the anniversary of the U.S. vaccine rollout arrives. A year ago it stood at 300,000. What might have been a time to celebrate a scientific achievement is fraught with discord and mourning. Credit: AP Photo/Gerald Herbert, File

California has seen more than 15,000 COVID-19 deaths since the state opened eligibility to all adults in mid-April. McKibbens' father and brother died in Santa Ana, California, in their shared home.

McKibbens pieced together what happened from text messages on her brother's phone. Some of the texts she read after his death, including back-and-forth messages with a cousin who cited TikTok as the source

of bad advice.

"My brother did not seek medical attention for my dad," keeping him lying on his back, even as his breathing began to sound like a broken-down motor, said McKibbens, who lives across the country in Rochester, New York.

Her father, Pete Camacho, died Oct. 22 at age 67. McKibbens flew to California to help with arrangements.

Her brother was sick, too, but "he refused to let me into the house because he said I shed coronavirus because I was vaccinated," McKibbens recalled. "It was a strange new belief I had never heard before."



Boxes containing the Moderna COVID-19 vaccine are loaded into a truck for shipping at the McKesson distribution center in Olive Branch, Miss., Dec. 20, 2020. The nation's COVID-19 death toll stands at around 800,000 as the anniversary of the U.S. vaccine rollout arrives. A year ago it stood at 300,000. What might have been a time to celebrate a scientific achievement is fraught with discord and mourning. Credit: AP Photo/Paul Sancya, Pool, File

A friend found her brother's body after noticing food deliveries untouched on the porch. Peter Camacho, named for his father, died Nov. 8 at age 44.

"For me to have lost two-thirds of my family, it just levels you," McKibbens said.

Important advice came too late for some. Seven months pregnant and unvaccinated, Tamara Alves Rodriguez tested positive for the coronavirus Aug. 9. Two days later, with many pregnant women falling seriously ill, U.S. [health officials](#) strengthened their guidance to urge all mothers-to-be to get vaccinated.

Rodriguez had tried to get vaccinated weeks earlier but was told at a pharmacy she needed authorization from her doctor. "She never returned," said her sister, Tanya Alves of Weston, Florida.

Six days after testing positive, Rodriguez had to have a breathing tube inserted down her throat at a hospital near her home in San Juan, Puerto Rico. Her [baby girl](#) was delivered by emergency cesarean section Aug. 16.





Cristela Martinez, left, helps people with their forms as they wait in line to receive the Johnson and Johnson COVID-19 vaccine at a clinic held by Healthcare Network, April 10, 2021, in Immokalee, Fla. The nation's COVID-19 death toll stands at around 800,000 as the anniversary of the U.S. vaccine rollout arrives. A year ago it stood at 300,000. What might have been a time to celebrate a scientific achievement is fraught with discord and mourning. Credit: AP Photo/Lynne Sladky, File



People hold signs as several hundred anti-mandate demonstrators rally outside the Capitol during a special legislative session considering bills targeting COVID-19 vaccine mandates, Nov. 16, 2021, in Tallahassee, Fla. The vaccines' first year has been rocky with the disappointment of breakthrough infections, the political strife over mandates and, now, worries about whether the mutant omicron will evade the vaccine's protection. Credit: AP Photo/Rebecca Blackwell, File



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People carry signs and flags as several hundred anti-mandate demonstrators rally outside the Capitol during a special legislative session considering bills targeting COVID-19 vaccine mandates, Tuesday, Nov. 16, 2021, in Tallahassee, Fla. The vaccines' first year has been rocky with the disappointment of breakthrough infections, the political strife over mandates and, now, worries about whether the mutant omicron will evade the vaccine's protection. Credit: AP Photo/Rebecca Blackwell, File

The young mother never held her child. Rodriguez died Oct. 30 at age 24. She left behind her husband, two other children and an extended family.

"Her children ask for her constantly," Alves said. "I literally feel like a piece of me has been ripped out of me and even those words aren't

enough to describe it."

She urges others to get vaccinated: "If you would know the terror of being hospitalized or having a loved one there ... if people would know, they would be afraid of this instead of fearing the vaccine."

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