

COVID Outbreak Sparked by Fully Vaccinated Patient Challenges Vaccine-Induced Herd Immunity Theory

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A paper published Sept. 30, in Eurosurveillance showed COVID spread rapidly by a fully vaccinated patient to fully vaccinated staff, patients and family members — despite a 96% vaccination rate and use of full personal protective equipment. Five patients died and nine had severe cases.

A [paper](#) published Sept. 30 in Eurosurveillance [raises questions](#) about the legitimacy of “vaccine-generated herd immunity.”

The study cites a [COVID](#) outbreak which spread rapidly among hospital staff at an Israeli Medical Center — despite a 96% vaccination rate, use of N-95 surgical masks by patients and full personal protective equipment worn by providers.

The [calculated rate of infection](#) among all exposed patients and staff was 10.6% (16/151) for staff and 23.7% (23/97) for patients, in a population with a 96.2% vaccination rate (238 vaccinated/248 exposed individuals).

The paper noted several transmissions likely occurred between two individuals both wearing surgical masks, and in one instance using full PPE, including N-95 mask, face shield, gown and gloves.

Of the 42 cases diagnosed in the outbreak, 38 were fully vaccinated with two doses of [Pfizer and BioNTech's Comirnaty](#) vaccine, one had received only one vaccination and three were unvaccinated.

Of the infected, 23 were patients and 19 were staff members. The staff all recovered quickly. However, eight vaccinated patients became severely ill, six became critically ill and five of the critically ill died. The two unvaccinated patients tracked had mild COVID cases.

The authors concluded:

“This communication ... challenges the assumption that high universal vaccination rates will lead to [herd immunity](#) and prevent COVID-19 outbreaks ... In the outbreak described here, 96.2% of the exposed population was vaccinated. Infection advanced rapidly (many cases became symptomatic within 2 days of exposure), and viral load was high.”

[According to the paper](#), the outbreak originated from a fully vaccinated haemodialysis patient in his/her 70s who was admitted with fever and cough and placed in a room with three other patients.

The patient had not been tested for SARS-CoV-2 on admission day, because his/her symptoms were mistaken for a possible bloodstream infection exacerbating congestive heart failure.

To determine the source of the outbreak, researchers conducted [phylogenetic analysis](#) on the whole-genome SARS-CoV-2 sequences that were available for 12 cases in the outbreak, including staff and patients from Wards A, B and C and dialysis departments.

All were infected with the [Delta variant](#) and epidemiologically and phylogenetically connected to the same outbreak, except for one case. That case and three staff members were not considered part of the outbreak.

“This is a very interesting paper and it is scientifically very sound,” said [Dr. Brian Hooker](#), Ph.D., P.E., [Children’s Health Defense](#) chief scientific officer and professor of biology at Simpson University.

“The breakthrough rate of 96.2% of the vaccinated population shows that in this instance, the vaccine was virtually useless in preventing transmission,” Hooker said. “It should also be noted the two reported cases among unvaccinated patients were mild, whereas six of the vaccinated patients died.”

BioNTech CEO says new COVID vaccine will be needed in 2022

The head of BioNTech — the German company that co-developed a COVID vaccine with Pfizer — said a new formula will likely be needed by mid-2022 to protect against future mutations of the virus.

[According to Bloomberg](#), [Ugur Sahin](#), co-founder and CEO of BioNtech, told the Financial Times that while current COVID variants, such as the contagious [Delta strain](#), were not different enough to undermine current vaccinations, new strains will emerge that can evade [booster shots](#) and the body’s immune defenses.

“This year [a different vaccine] is completely un-needed, but by mid-next year, it could be a different situation,” Sahin said. “This is a continuous evolution, and that evolution has just started.”

According to a [new pre-print study](#) submitted for peer review, Pfizer/BioNTech vaccine antibodies disappear in many by seven months.

Six months after receiving the second dose of Pfizer’s two-shot vaccine, many recipients no longer have vaccine-induced antibodies that can immediately neutralize worrisome SARS-

CoV-2 variants, [Reuters reported](#).

Researchers analyzed blood samples from 46 healthy, mostly young or middle-aged adults after receipt of the two doses and again six months after the second dose.

“Our study shows vaccination with the Pfizer-BioNtech vaccine induces high levels of neutralizing antibodies against the original vaccine strain, but these levels drop by nearly 10-fold by seven months” after the initial dose, **Bali Pulendran** of Stanford University and Mehul Suthar of Emory University said in an [email to Reuters](#).

In roughly half (47%) of all subjects, neutralizing antibodies that can block infection against COVID variants, such as Delta, Beta and Mu, were undetectable at six months after the second dose, [the study showed](#).

Neutralizing antibodies are not the immune system’s only defense against the virus. Still, they “are critically important in protecting against SARS-CoV-2 infection,” said Pulendran and Suthar.

Researchers said the findings warrant administering a booster dose around six to seven months to enhance protection against SARS-CoV-2 and its variants.

Fauci says three shots of a COVID vaccine is ‘optimal regimen’

Dr. Anthony Fauci, director of the [National Institute of Allergy and Infectious Diseases](#), said Tuesday he believes the “[optimal regimen](#)” of vaccination against the SARS-CoV-2 virus will include a booster shot.

Fauci’s comments come a week after the U.S. Food and Drug Administration (FDA) and Centers for Disease Control and Prevention [authorized boosters](#) for millions of Americans, including those whose professions make them “high risk.”

Nearly 1 million Americans have already scheduled appointments to receive a third dose of Pfizer’s COVID vaccine, [according to the White House](#).

Pfizer and BioNTech on Sept. 30 [submitted initial data](#) from their vaccine trial on children between 5 and 11 years old to the FDA.

The FDA’s independent vaccine advisory committee will hold three meetings in October to discuss COVID booster shots, mix-and-match boosters and vaccines for children 5 to 11 years old, [the agency announced Friday](#).

The first two meetings, on Oct. 14 and 15, will cover booster doses of [Moderna](#) and [Johnson & Johnson’s](#) COVID vaccines — both of which are authorized for use in adults.

During the second meeting, the committee also will discuss data from the National Institutes of Health on the safety and efficacy of getting initial doses of one COVID vaccine and, later, a booster dose of another manufacturer’s shot, [Politico reported](#).

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