## Driven by anti-vaxxers, measles outbreaks cost everyone money

12 March 2021, by Amy Norton



The misery-and danger-of measles is well documented. The viral infection causes a high fever, cough, runny nose and rash. In some cases it leads to complications like pneumonia and swelling of the brain.

According to the CDC, about 20\% of Americans who contract measles end up in the hospital, while 1 to 3 in every 1,000 die.

But there is also an economic toll, Pike said. When an outbreak strikes, public health agencies jump into action, performing testing, contact tracing and vaccination of susceptible people.

Then, Pike said, there is the lost productivity when people exposed to measles have to quarantine, or stay home to care for a sick family member. During the Clark County outbreak, 839 people went into quarantine-with three weeks being the recommended duration.

Pike and her colleagues estimate that the public health response alone cost about $\$ 2.3$ million. Productivity losses, meanwhile, added up to just over $\$ 1$ million. Direct medical costs tacked on another \$76,000.

While the number of measles cases was not huge, at 71 , each case cost the county more than $\$ 47,000$, the CDC team estimates.

Yet those figures do not capture the full bill, according to Pike. For one, the Clark County outbreak was linked to additional measles cases, in Oregon and faraway Georgia.

It's also hard to account for all the societal costs, Pike said. As one example, a measles outbreak can divert resources from routine public health services, such as nutrition programs and surveillance of other diseases.
"There are ripple effects," Pike said. "It's not only
the infectious disease that spreads."
get caught up."
Dr. Jessica Cataldi wrote an editorial published with Parents can make the mistake of believing they do the study March 12 in Pediatrics. She agreed it's important to understand the economic fallout of measles outbreaks.
"It really does reflect the shared impact in the community," said Cataldi, a pediatric infectious disease specialist at Children's Hospital Colorado and University of Colorado Anschutz Medical Campus in Aurora.

Due to the pandemic, she said, many people now grasp the burden of quarantining and needing time off from work to recover from illness or care for a family member.

But the broader public health response to disease outbreaks, which are publicly funded, also affects the community, Cataldi said.

The year of the Clark County outbreak, 2019, was a bad measles year for the United States. The country saw its highest number of cases since 1992, according to the CDC. The largest outbreak occurred in New York, primarily affecting a Brooklyn Orthodox Jewish community with low vaccination rates.

In the United States, the CDC says, measles outbreaks generally happen when a traveler brings the virus into the country, and it then spreads among clusters of unvaccinated people-often fostered by "anti-vaxxer" sentiment among some parents.

Cataldi said measles is highly contagious-much more so than COVID-19, in fact. So even a small decline in MMR coverage can make a community vulnerable.
"This is why we vaccinate," Cataldi said.
During the pandemic, when many U.S. children were not getting routine checkups, vaccination rates plummeted.

If your child fell behind on the recommended vaccine schedule, Cataldi said, "now is the time to

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