

(CNN) — Nearly two dozen cases of measles have been reported since December 1, according to an alert from the US Centers for Disease Control and Prevention.

this spate of cases, experts say. The Philadelphia Department of Public Health has confirmed at least nine cases of measles over the past month after a person contracted the highly contagious virus outside the United States and exposed a parent and child at a children's hospital,

International travel, coupled with declining global vaccination rates, is probably behind

according to health department spokesperson James Garrow. That exposure then led to a Philadelphia day care outbreak that includes at least five children. Health officials in Virginia are also warning people who recently traveled out of two D.C.-area airports - Dulles ELLA VIPUS VACCINE LIVE International Airport on January 3 and Reagan



individual while they were infectious."

symptoms of the disease, so it's very contagious."

US Centers for Disease Control and Prevention.

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resident of the metro Atlanta area," the Georgia Department of Public Health announced this month. "The individual was exposed to measles while traveling out of the country." a news

Washington National Airport on January 4 - of potential

exposure to the virus after someone returning to the US

since October. The UK Health Security Agency has declared a national incident to signal the growing public health risk.

Why is measles spreading? Measles was eliminated in the United States in 2000, after zero virus spread for more than a year, largely due to a "highly effective vaccination campaign," according to the

countries with active outbreaks. "Many of the diseases for which we have vaccines have virtually disappeared from the United States but

said.

## back to the US, Murray notes, they can spread the virus to other unvaccinated people.

Vaccination rates in the US also remain low, particularly among children, according to

children has reached the highest level ever reported in

Children should get two doses of the MMR vaccine,

of age and the second at 4 to 6 years of age.

according to the CDC: the first dose at 12 to 15 months

However, clusters in the US are still possible because

the virus is not eliminated worldwide. There are several

certainly not in other places around the world," Murray

The percentage of kindergartners who got their staterequired vaccines for measles also remained below the federal target for the 2022-23 school year, according to CDC data. And the rate of vaccine exemptions for

the US.

About 92% of US children have been vaccinated against measles, mumps and rubella

(called the MMR vaccine) by age 2, according to a 2023 report from the CDC - below

The last significant measles outbreak in the US was in 2018-19 in Rockland County, New York, focused among unvaccinated children in Orthodox Jewish communities.

Although the CDC reported only 56 measles cases in 2023, Johns says that is too

"Most people haven't seen a case of measles," she stressed. "They don't really have

Measles spread and symptoms The measles virus can spread when an infected person coughs or sneezes, lingering in

Is it normal for cold-like symptoms to last for weeks? An expert explains

recognize a measles rash.

afterwards," the CDC says.

word out on what to look for."

to Murray.

infections."

year.

say.

the air for up to two hours after they leave a room, according to Murray. The virus can also live on surfaces such as doorknobs for about the same amount of time. When symptoms begin, they're similar to those of many respiratory illnesses - high fever, cough, red eyes, runny nose and congestion - followed by a "fairly characteristic" rash, Murray said. "You get flat red lesions, flat red spots that typically start

on your face and move down across the body across the

chest and trunk and extremities," he said. "It can be a

The incubation period for measles is very long, Murray

total body rash, and it's pretty severe."

adds. It takes about 10 to 12 days for initial symptoms to appear after exposure.

but a cold until the rash appears three to five days after the initial illness begins,

according to Murray. Even then, most people - including some doctors - will not

"Infected people are contagious from 4 days before the rash starts through 4 days

"The younger the health care provider, the less likely they are to have seen a case,"

Murray said. "But certainly, when it's circulating, we do everything we can to get the

Lower MMR vaccination rates can put unvaccinated and undervaccinated individuals

at risk, Johns says, especially children and those with immune system problems.

Measles can lead to serious complications, especially in children under 2, such as

"Measles is also a virus that knocks down parts of the immune system," he said.

A rare complication called subacute sclerosing panencephalitis can also happen

"There's recent evidence that having measles increases your susceptibility to other

blindness, encephalitis or inflammation of the brain, and severe pneumonia, according

Because of this, most infected people assume their respiratory symptoms are nothing

specific isolation rooms or private rooms instead of having them waiting in common areas; to test patients with suspected cases; and promptly alert state and local health departments.

travel. In 2023, 436 mumps cases were reported by 42 jurisdictions, according to CDC data.

"It's not impossible, but it's very, very low," Murray GET CNN HEALTH'S WEEKLY notes. NEWSLETTER Sign up here to get The Results But for people who aren't unvaccinated or who have Are in with Dr. Sanjay Gupta every Tuesday from the CNN

What to do if you were exposed to measles If you're fully vaccinated against measles, your chance of infection after exposure is very low because the two childhood doses typically confer lifelong immunity, experts

## "Call ahead before you go to any health care facility, because that health care facility can anticipate your arrival and make sure you are placed in the appropriate isolation

the illness, Murray adds.

rooms," Murray said. "The last thing we want to do is have someone with measles

you would call your health care provider and work with

As for treatment, the virus simply has to run its course, he says. There is no specific antiviral treatment, and medical care is mainly supportive: staying home from school or work to rest and drink plenty of fluids. If a person infected with measles is showing symptoms of encephalitis, such as a

from lung involvement like pneumonia or are dehydrated and need IV fluids," Johns said.

to the CDC, to support the immune system. "Vitamin A should be administered immediately on diagnosis and repeated the next

day," the agency said. Correction: A previous version of this story misstated the year measles was eliminated

from abroad traveled through Northern Virginia. Measles outbreak involving Additionally, a single case of measies has been confirmed in "an unvaccinated

release said. "DPH is working to identify anyone who may have had contact with the

It's not only the United States. In the UK, a measles outbreak continues to widen: As of

January 18, there have been 216 confirmed cases and 103 probable cases reported

"It's always concerning when we have a case of measles because of the probability

that it's going to spread to other individuals," said Dr. Thomas Murray, a professor of

pediatrics at the Yale School of Medicine who focuses on infectious diseases and

"About 90% of susceptible people who are exposed will come down with signs and

## NGO says If an unvaccinated person goes to a country where a disease is still common, becomes infected and brings it

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Sudan's displacement camps,

## American Academy of Pediatrics spokesperson Dr. Christina Johns, a Maryland-based pediatric emergency physician at a PM Pediatric Care urgent care. The CDC noted in its alert that the majority of the measles cases "were among children and adolescents who had not received a measles-containing vaccine (MMR or MMRV), even if age eligible."

the federal target of 95%.

Health misinformation and lack

continue to grow, years after

the Covid-19 pandemic, survey

of confidence in vaccines

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"There's a lot of travel back and forth," he said. "If there are pockets of unvaccinated individuals that are congregating closely together and that disease gets introduced into that population, you can have large clusters of cases." Falling vaccination rates

Before the nation's measles vaccination program, about 3 million to 4 million people got the virus every year, and about 400 to 500 died.

many when a highly effective vaccine exists.

an appreciation for the severity of the illness."

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The CDC advises health-care workers to isolate patients who may have measles in Measles health risks

mental deterioration. Additionally, someone who doesn't get the MMR vaccine is at risk of contracting mumps and rubella, which are rare but still in circulation in the US due to international

Rubella is less common, with fewer than 10 people in the US getting the virus each

seven to 10 years after infection and may result in seizures as well as behavioral and

weak immune systems, the risk increases - "especially if Health team. they know they're in an area where measles has been circulating," he said. "In that case, what you would do is,

Unvaccinated people who know when they were exposed can get the MMR vaccine within 72 hours of exposure to prevent the disease altogether or lessen the severity of

[them] to determine next steps."

headache, high fever or seizures, they should be taken to a hospital immediately. "Typically, hospitalization for measles occurs when children are in respiratory distress

Severe measles cases among children can also be treated with vitamin A, according

from the United States.

If you think you might have been exposed to measles, stay home until a plan is in place, Murray advises. sitting in the emergency room waiting room."