

Measles is on the rise around the world. We can't let vaccination rates falter

January 31 2024, by Jaya Dantas



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In recent weeks a series of measles alerts have been issued [around Australia](#), including in [New South Wales](#), [Victoria](#) and [Queensland](#), after the identification of a small number of cases in travelers returning from overseas.

Meanwhile, places such as the [United States](#) and the [United Kingdom](#)

have been contending with larger measles outbreaks.

In fact, the World Health Organization reported a [45-fold increase](#) in [measles cases](#) in Europe last year, with 42,200 cases recorded in 2023 compared to 941 in 2022.

In South Asia, [India](#) and [Pakistan](#) have also recently reported outbreaks.

So what's the risk of a larger outbreak in Australia? Fortunately, it's likely to be quite low—but ensuring we continue to have high rates of vaccination coverage is crucial.

Remind me, what is measles?

Measles is a [highly infectious](#) viral disease. It spreads through tiny droplets when an infected person coughs or sneezes. Measles is so contagious that if one infected person comes into contact with ten unvaccinated people, they can infect [nine of them](#).

It can take around ten to 12 days for symptoms to appear after a person has been exposed to the virus. Although measles is characterized by a rash, symptoms are generally cold-like to begin with, including a fever, runny nose, fatigue, and sore or red eyes. The rash, which is not itchy, emerges two or three days later and spreads from the face down the body.

Sometimes measles can lead to secondary infections such as an ear infection, diarrhea or pneumonia. In rare cases measles can cause encephalitis (inflammation of the brain).

In severe cases, measles can lead to hospitalization and death. We saw this in 2019 in the Pacific Island nation of Samoa. Out of [5,667 infections](#) in a four-month period, 81 died, mostly [young children](#).

Vaccination works

Vaccination is the most effective strategy to protect against measles. Two doses of the MMR vaccine (given to children at [12 months and 18 months](#) in Australia) provide protection against measles, mumps and rubella.

Babies under one year have natural protection from their mums that wears off gradually. Infants six to 11 months [can be vaccinated](#) if they will be traveling internationally, but will still need to take a further two doses.

Once vaccinated, the chance of getting measles is [very low](#) and you are considered protected for life.

However, [about 1 in 100 people](#) who are vaccinated may still contract measles if they're exposed to the virus. Although it's not entirely clear why this happens, the infection in a vaccinated person is generally mild.

Vaccination rates are faltering

Globally, there has been [a drop in childhood vaccinations](#) over the course of the COVID pandemic. This is likely due to a [range of factors](#) including declining trust in vaccines, misinformation and disruptions to access.

In Europe, the [proportion of children](#) who received a first dose of the MMR vaccine dropped from 96% in 2019 to 93% in 2022, and from 93% to 91% for the second dose. This is important because about [95% vaccination coverage](#) is needed to achieve herd immunity against measles. Under this scenario, those who are not vaccinated will be protected because the virus won't spread.

In the UK, [health authorities have expressed alarm](#) at the number of children who have not been vaccinated, with reports up to almost half of children in parts of London have not received both shots.

As of September 2023, the [Australian government](#) reported immunization rates across all childhood vaccinations of 93.26% for one-year-olds, 91.22% for 2-year-olds, and 94.04% for 5-year-olds. There are slight disparities between different states and territories and among some population groups.

Boosting vaccination coverage

While we appear to be quite close to the herd immunity threshold for measles and not in immediate danger of an outbreak, we still need to be vigilant.

Australia has an excellent outbreak surveillance in place in all states for infectious diseases including measles. But outbreaks are [occurring globally](#), and are liable to take hold when people are unvaccinated or under-vaccinated. So we need to be alert in all states, increase surveillance at international transit points, and continue to increase immunization coverage, especially among young children. Educating parents and the wider community about the importance of MMR vaccines is key.

It's never too late to be vaccinated against measles if you missed out as a child, or are unsure if you've had two doses. As a single infected traveler can cause an outbreak, vaccination is particularly important if you travel frequently. If you're unsure of your vaccination status, you can ask your GP or check your own or your children's record through the [Australian Immunization Register](#).

If you suspect you or someone in your family is infected it's important to

stay isolated and contact your doctor. They will confirm the infection by [referring you](#) for a blood test and possibly a RT-PCR test.

The Australian department of health in collaboration with the Australian Academy of Science has developed a set of [useful resources](#) on measles which can assist travelers, the general public and health professionals.

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