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Explainer

# XFG could become the next dominant COVID variant. Here's what to know about 'Stratus'

By Paul Griffin

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Given the number of times this has happened already, it should come as little surprise that we're now faced with yet another new subvariant of SARS-CoV-2, the virus responsible for COVID.

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This new subvariant is known as XFG (nicknamed "[Stratus](#)") and the [World Health Organization](#) (WHO) designated it a "variant under monitoring" in late June. XFG is a subvariant of Omicron, of which there are now [more than 1,000](#).

A "variant under monitoring" signifies a variant or subvariant which [needs prioritised attention](#) and monitoring due to characteristics that may pose an additional threat compared to other circulating variants.



📷 A young woman sits sick in bed. Shutterstock

XFG was one of [seven variants under monitoring](#) as of June 25. The most recent addition before XFG was [NB.1.8.1](#) (nicknamed "Nimbus"), which the WHO declared a [variant under monitoring](#) on May 23.

Both nimbus and stratus are [types of clouds](#).

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Nimbus is [currently the dominant subvariant](#) worldwide – but Stratus is edging closer. So what do you need to know about Stratus, or XFG?

## A recombinant variant

XFG is [a recombinant of LF.7 and LP.8.1.2](#) which means these two subvariants have [shared genetic material](#) to come up with the new subvariant. Recombinants are designated with an X at the start of their name.

While recombination and other spontaneous changes happen often with SARS-CoV-2, it becomes a problem when it creates a subvariant that is changed in such a way that its properties cause more problems for us.

Most commonly this means the virus looks different enough that protection from past infection (and vaccination) [doesn't work so well](#), called [immune evasion](#). This basically means the population becomes more susceptible and can lead to an increase in cases, and even a whole new wave of COVID infections across the world.

XFG has [four key mutations](#) in the spike protein, a protein on the surface of SARS-CoV-2 which allows it to attach to our cells. Some are believed to enhance evasion by certain antibodies.

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Early [laboratory studies](#) have suggested a [nearly two-fold reduction](#) in how well antibodies block the virus compared to LP.8.1.1.

## Where is XFG spreading?

The earliest XFG sample was collected [on January 27](#).

As of June 22, there were [1,648 XFG sequences](#) submitted to GISAID from 38 countries ([GISAID](#) is the global database used to track the prevalence of different variants around the world). This represents 22.7% of the globally available sequences at the time.

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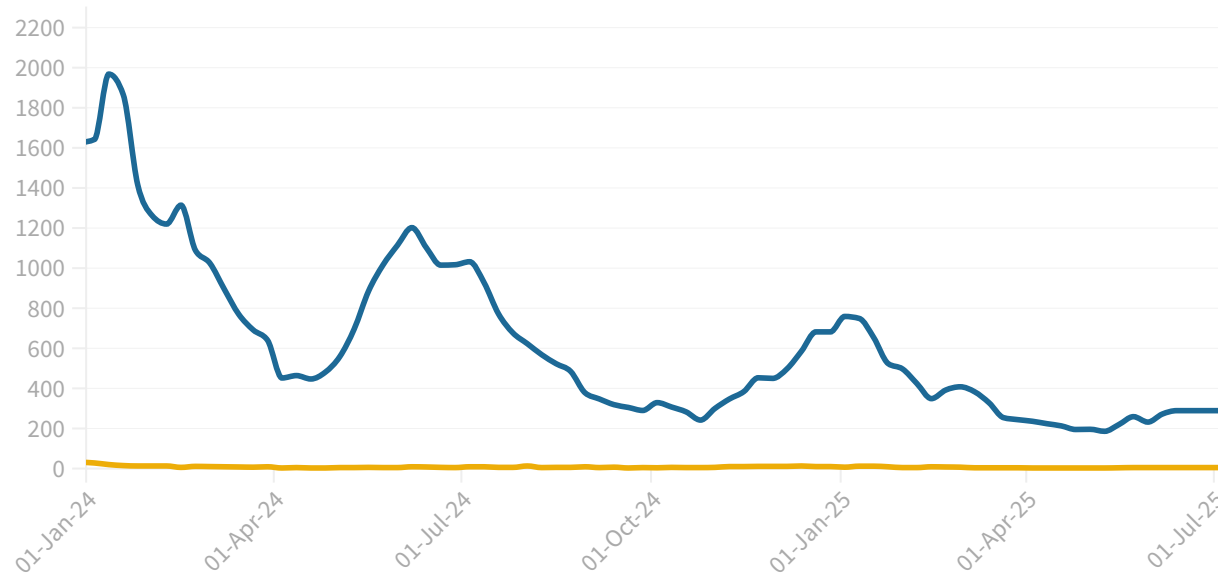
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This was a significant [rise from 7.4%](#) four weeks prior and only just below the proportion of NB.1.8.1 at 24.9%. Given the now declining proportion of viral sequences of NB.1.8.1 overall, and the rapid rise of XFG, it would seem reasonable to expect XFG to become dominant very soon.

## COVID cases admitted to hospital (National)

■ Hospitalised ■ ICU



Source: [covidlive.com.au](https://covidlive.com.au)

According to Australian data expert Mike Honey, the countries showing the highest rates of detection of XFG as of mid-June include India at more than 50%, followed by Spain at 42%, and the United Kingdom and United States, where the subvariant makes up more than 30% of cases.

In Australia as of June 29, NB.1.8.1 was the dominant subvariant, accounting for [48.6% of sequences](#). In the most recent report from Australia's national [genomic surveillance platform](#), there were 24 XFG sequences with 12 collected in the last 28 days meaning it currently comprises approximately 5% of sequences.

## The big questions

When we talk about a new subvariant, people often ask questions including if it's more severe or causes new or different symptoms compared to previous variants. But we're still learning about XFG and we can't answer these questions with certainty yet.

Some sources have reported XFG may be more likely to cause "hoarseness" or a [scratchy or raspy voice](#). But we need more information to know if this association is truly significant.

Notably, there's no evidence to suggest XFG causes [more severe illness](#) compared to other variants in circulation or that it is necessarily any more transmissible.

## Will vaccines still work against XFG?

Relatively frequent changes to the virus means we have continued to update the COVID vaccines. The most recent update, which targets the JN.1 subvariant, became available in Australia [from late 2024](#). XFG is a descendant of the JN.1 subvariant.

Fortunately, based on the evidence available so far, currently approved COVID vaccines are expected [to remain effective](#) against XFG, particularly

against symptomatic and severe disease.

Because of SARS-CoV-2's continued evolution, the effect of this on our immune response, as well as the fact protection from COVID vaccines declines over time, COVID vaccines are offered regularly, and recommended for those at the highest risk.

COVID booster dose recommendations, Australia

	Children	18 to 64 years	65 to 74 years	75 years and older
Without severe immunocompromise	Not recommended	Eligible every 12 months	Recommended every 12 months and eligible every 6 months	Recommended every 6 months
With severe	Under 5 not recommended; 5–17 eligible	Recommended every 12 months and	Recommended every 12 months and	Recommended

One of the major challenges we face at present in Australia is low COVID vaccine uptake. While rates have increased somewhat recently, they remain relatively low, with [only 32.3% of people](#) aged 75 years and over having received a vaccine in the past six months. Vaccination rates in younger age groups are significantly lower.



Although the situation with XFG must continue to be monitored, at present the WHO has assessed the global risk posed by this subvariant as low. The advice for combating COVID remains unchanged, including vaccination as recommended and the early [administration of antivirals](#) for those who are eligible.

Measures to [reduce the risk of transmission](#), particularly wearing masks in crowded indoor settings and focusing on air quality and ventilation, are worth remembering to [protect against COVID](#) and other viral infections.

- [Paul Griffin](#), Professor, Infectious Diseases and Microbiology, [The University of Queensland](#)
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