

- Variation (Biology) / Virus**Studies reveal why new Covid variant less severe****Omicron, though more contagious, causes milder Covid disease, say experts**

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Multiple new studies on human tissue and lab animals have provided the first insight into why the Omicron variant, though more contagious, causes milder disease than previous strains of Covid-19.

Research carried out on mice and hamsters by a team of Japanese and American scientists showed that Omicron, which first emerged in South Africa in November, produces less damaging infections, often limited to the nose, throat and windpipe.

The study also found the strain did much less harm to the lungs — whereas previous variants would often cause serious breathing difficulty and scarring — and that rodents infected with Omicron lost less weight and were less likely to die.

To the team's surprise, Syrian hamsters, a species known to get severely ill with all previous versions of the virus, also experienced much milder symptoms with Omicron.

"This was surprising, since every other variant has robustly infected these hamsters," Washington University virologist and co-author of the study, Dr Michael Diamond, told the New York Times.

A similar finding came from University of Hong Kong researchers, who studied bits of tissue taken from human airways during surgery. The scientists found that Omicron grew more slowly than Delta and other variants did in 12 lung samples.

"It's fair to say that the idea of a disease that manifests itself primarily in the upper respiratory system is emerging," Berlin Institute computational biologist, Roland Eils, who has studied how coronaviruses infect the airway, told the Times.

The findings, which will have to be followed with further studies, such as examining the airways of people infected with Omicron, could explain why people infected with the variant seem less likely to be hospitalised than those with Delta.

In New South Wales, Australia, while case numbers continue to soar, hospitalisation numbers have remained relatively steady, as has the number of patients admitted to intensive care as a result of the strain. During the state's Delta outbreak in mid-2021, a quarter of hospitalised patients were in the ICU whereas, at the moment, it's less than one-in-10. The number of ICU patients in NSW requiring a ventilator is also down. During the Delta outbreak, the percentage of people in intensive care who required ventilation was over 20 per cent; now, only 2 per cent of patients require the use of one. "Hospitalisations are rising, but not at the same rate as newly reported cases, even allowing for a time lag as people who go on to develop serious symptoms usually do so a week or more into their infection," chair of epidemiology at Deakin University, Professor Catherine Bennett, said.

“It is probably not yet time to rest on our laurels,” British GP Dr Amir Khan wrote for Aljazeera. “Omicron cases have been rising across the world, far faster than initially thought . . . Even accounting for 40-50 per cent less severity and hospital admissions, if there are three times more cases, that will result in more hospitalisations and deaths than what we saw with Delta.”

Khan warned that the number of people forced to isolate “will inevitably start to affect frontline services”. “The other danger is if the public holds onto this ‘milder’ narrative, there is a risk that some people may become complacent about regular lateral flow testing, mask-wearing and ventilating indoor spaces. It may even lead to fewer people taking up the booster vaccines. This will then result in further cases and eventually an increase in hospitalisations and deaths.” — news.com.au