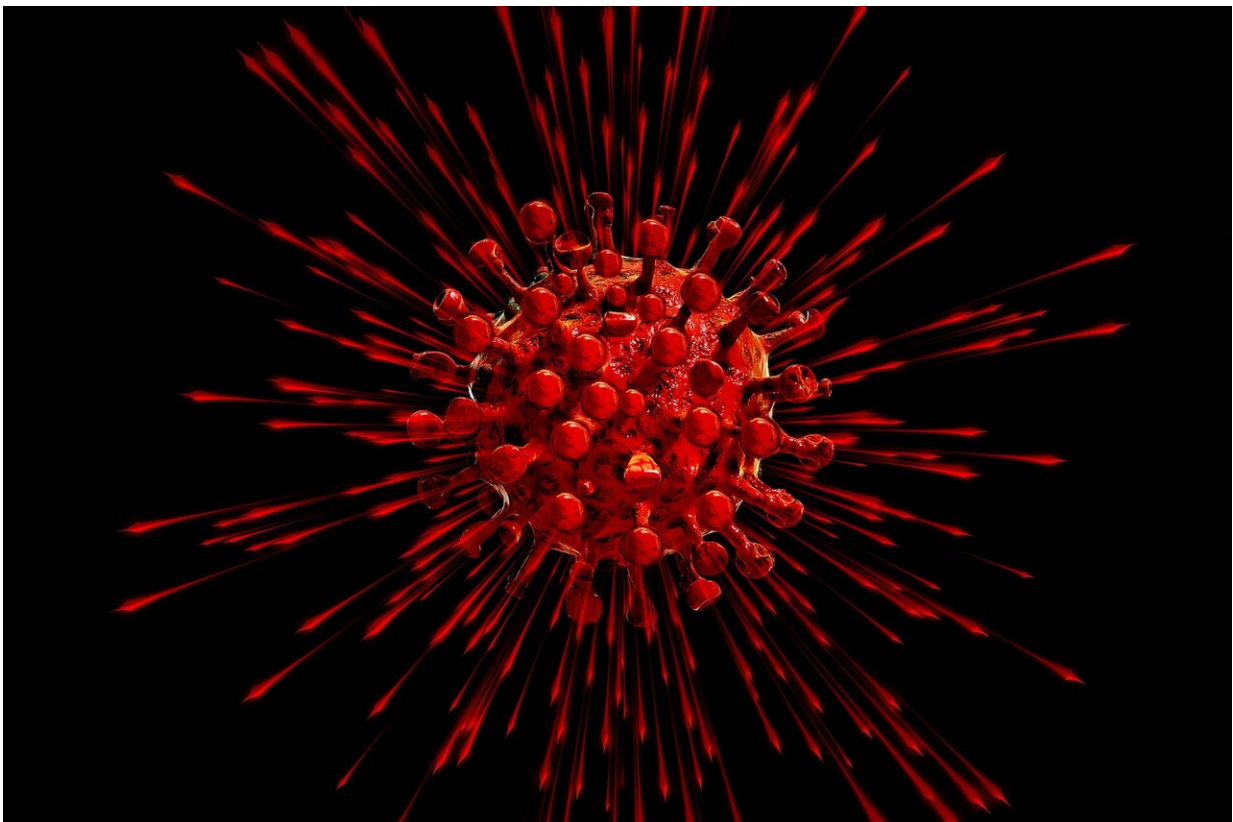


# Increased risk of some neurological and psychiatric disorders remains two years after COVID-19 infection

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A new study published in *The Lancet Psychiatry* from the University of Oxford and the National Institute for Health and Care Research (NIHR)

Oxford Health Biomedical Research Centre investigated neurological and psychiatric diagnoses in over 1.25 million people following diagnosed COVID-19 infection, using data from the US-based TriNetX electronic health record network.

The study reports on 14 neurological and [psychiatric diagnoses](#) over a 2-year period and compares their frequency with a matched group of people recovering from other respiratory infections. It also reports data in children and [older adults](#) separately, and compares data across three waves of the pandemic. To our knowledge, these are the first robust data addressing these important questions.

Confirming previous studies, many of the disorders are more common after COVID-19. Notably, the increased risk of anxiety and depression subsides within two months of COVID-19 and, over the whole 2-year period, are no more likely to occur than after other respiratory infections. In contrast, diagnoses of many neurological disorders (such as dementia and seizures), as well as psychotic disorders and 'brain fog,' continue to be made more often after COVID-19 throughout the two years.

Results in children (under 18) showed similarities and differences to adults. The likelihood of most diagnoses after COVID-19 was lower than in adults, and they were not at greater risk of anxiety or depression than children who had other respiratory infections. However, like adults, children recovering from COVID-19 were more likely to be diagnosed with some conditions, including seizures and [psychotic disorders](#).

More neurological and [psychiatric disorders](#) were seen during the delta variant wave than with the prior alpha variant. The omicron wave is associated with similar neurological and psychiatric risks as delta.

The study has several limitations. It is not known how severe, or how

long-lasting, the disorders are. Nor is it clear when they began, since problems may be present for some time before a diagnosis is made. Unrecorded cases of COVID-19 and unrecorded vaccinations introduce some uncertainty into the results.

Professor Paul Harrison, Department of Psychiatry, University of Oxford, and Theme Lead, NIHR Oxford Health Biomedical Research Centre, who headed the study, says that "it is good news that the excess of depression and anxiety diagnoses after COVID-19 is short-lived, and that it is not observed in [children](#). However, it is worrying that some other disorders, such as dementia and seizures, continue to be more likely diagnosed after COVID-19, even two years later. It also appears that omicron, although less severe in the acute illness, is followed by comparable rates of these diagnoses."

Dr. Max Taquet, NIHR Academic Clinical Fellow, University of Oxford, who led the analyses, says that "the findings shed new light on the longer-term mental and brain [health](#) consequences for people following COVID-19 [infection](#). The results have implications for patients and [health services](#) and highlight the need for more research to understand why this happens after COVID-19, and what can be done to prevent these disorders from occurring, or treat them when they do."

**More information:** Paul Harrison et al, Neurological and psychiatric risk trajectories after SARS-CoV-2 infection: an analysis of 2-year retrospective cohort studies including 1,284,437 patients, *The Lancet Psychiatry* (2022). [\(22\)00260-7/fulltext](http://www.thelancet.com/journals/lan...)

Provided by University of Oxford

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