

Risk of smell loss from COVID-19 omicron variant is as low as 6% compared with initial variants, finds new study

June 6 2023, by Olivia Trani



Credit: Pixabay/CC0 Public Domain

The risk of losing your sense of smell and taste from the most recent COVID-19 omicron variants is only 6%–7% of what it was during the



early stages of the pandemic, according to a new study led by researchers at Virginia Commonwealth University's School of Medicine. Their findings were published in the journal *Otolaryngology—Head and Neck Surgery*.

"At the beginning of the pandemic, <u>smell</u> and <u>taste loss</u> were considered common symptoms of COVID-19. Before viral tests were readily accessible, we relied a lot more on such symptoms to diagnose those infected. However, as different variants of the COVID-19 virus have emerged, the types of symptoms most commonly experienced changed as well," said Evan Reiter, M.D., who is the medical director of VCU Health's Smell and Taste Disorders Center, a professor in the Department of Otolaryngology at the VCU School of Medicine and lead author of the new study.

The researchers accessed data from a <u>national database</u> of more than 7 million patients who tested positive for COVID-19 since the pandemic accelerated in 2020. Using this data, they calculated the prevalence of smell and taste loss as a symptom of COVID-19 during peak periods of <u>infection</u> for each variant wave.

They found that the risks of smell loss from a COVID-19 infection for alpha and delta, two of the most pervasive variants in 2021, were only 74% and 64% of what was observed in the early stages of the pandemic. Even steeper declines in smell loss were observed in 2022 and early 2023, when omicron variants were the most dominant strains of the COVID-19 virus. During this period, the risk of smell loss from infection was as low as 6% compared with 2020 rates.

The study doesn't calculate the absolute percent risk of smell loss from COVID-19 today, but rather compares it with the risk of smell loss from early 2020. The researchers set the chance of smell loss in early 2020 as the "100%" baseline and found that the chance of smell loss from the



most recent omicron variants is just 6%–7% of that baseline.

"This data shows that smell and taste loss is no longer a reliable indicator of COVID-19 infection," Reiter said. "This means that you can't rule out COVID-19 if you are feeling sick but haven't lost your <u>sense of smell</u>. This also means that if you have lost your sense of smell, it's not a guarantee that it's from a COVID-19 infection."

While it's unclear exactly why the prevalence of smell loss has dropped over time, higher immunity to the virus could be a factor.

"We don't have the data on what's causing this decline in smell loss as a symptom of COVID-19, but I would speculate that this might be related to our increased immunity to the virus, either through vaccines or having an earlier infection, as this typically helps reduce the severity of future infections," Reiter said.

He and his colleagues noted that the next steps for the <u>scientific</u> <u>community</u> include continuing to research potential treatments for those still affected by smell loss from COVID-19.

For example, Coelho and Costanzo have led a team of researchers focused on developing an implant device to restore sense of smell, much like a cochlear implant restores hearing. The project has been in development for several years but has received international interest since the onset of the pandemic.

A previously published nationwide survey co-authored by Coelho, Reiter and Costanzo revealed that after two years since infection, 7.5% of people who developed smell loss from COVID-19 had not regained the sense, and 54% only partially recovered it.

"While the risk of smell loss is far less prevalent than the initial waves of



COVID-19, we are still seeing patients who have either completely lost or have a distorted sense of smell, which can take a significant toll on their quality of life. There are a fair number of patients who have trouble maintaining a healthy diet because there are so many foods that are displeasing to them," Reiter said. "Luckily, there is a lot of work being done in hopes of finding an effective treatment for those affected by this condition."

More information: Evan R. Reiter et al, COVID-19-Associated Chemosensory Loss Continues to Decline, *Otolaryngology–Head and Neck Surgery* (2023). DOI: 10.1002/ohn.384

Provided by Virginia Commonwealth University

Citation: Risk of smell loss from COVID-19 omicron variant is as low as 6% compared with initial variants, finds new study (2023, June 6) retrieved 23 June 2024 from https://medicalxpress.com/news/2023-06-loss-covid-omicron-variant-variants.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.