

# Following healthy lifestyle may reduce risk of long COVID

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Women who followed most aspects of a healthy lifestyle, including healthy body weight, not smoking, regular exercise, adequate sleep, high quality diet, and moderate alcohol consumption, had about half the risk

of long COVID compared with women without any healthy lifestyle factors, according to a study led by Harvard T.H. Chan School of Public Health.

"With ongoing waves of COVID-19, long COVID has created a serious public health burden. Our findings raise the possibility that adopting more healthy behaviors may reduce the risk of developing long COVID," said Andrea Roberts, senior research scientist in the Department of Environmental Health and senior author of the study.

The study appears online February 6, 2023, in *JAMA Internal Medicine*.

It's estimated that 8-23 million Americans suffer from long COVID, which is defined as having COVID-19 symptoms four weeks or more after initial SARS-CoV-2 infection. Symptoms can include fatigue, fever, and a variety of respiratory, heart, neurological, and digestive symptoms.

The researchers analyzed data from more than 32,000 female nurses in the Nurses' Health Study II, who reported on lifestyle in 2015 and 2017 and reported history of SARS-CoV-2 infection from April 2020 to November 2021.

During that time, more than 1,900 participants contracted COVID-19. Among these, 44% developed long COVID. Compared to women without any [healthy lifestyle](#) factors, those with five or six had 49% lower risk of long COVID. Among the six lifestyle factors, maintaining a healthy body weight and getting [adequate sleep](#) (seven to nine hours daily) were the ones most strongly associated with lower risk of long COVID. The results also showed that, even among women who developed long COVID, those with a healthier pre-infection lifestyle had 30% lower risk of having symptoms that interfered with their [daily life](#).

The authors noted that one possible explanation for the associations they observed is that, based on prior research, an unhealthy lifestyle is associated with increased risk of chronic inflammation and immune dysregulation, which have been linked with increased risk of long COVID.

"In the past decades, scientists have accumulated evidence that healthy lifestyle is good for overall health. However, in the U.S. for example, 70% of the population do not have a [healthy body weight](#) and 30% do not sleep enough. Findings from this study suggest that simple lifestyle changes, such as having adequate sleep, may be beneficial for the prevention of long COVID," said lead author Siwen Wang, research fellow in the Department of Nutrition.

Other Harvard Chan School authors included Yanping Li, Yiyang Yue, Changzhen Yuan, Jorge Chavarro, and Shilpa Bhupathiraju.

**More information:** Adherence to Healthy Lifestyle Prior to Infection and Risk of Post-COVID-19 Condition, *JAMA Internal Medicine* (2023). [DOI: 10.1001/jamainternmed.2022.6555](https://doi.org/10.1001/jamainternmed.2022.6555)

Provided by Harvard T.H. Chan School of Public Health

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