

# Nearby greenspace tied to lower stroke risk

April 20 2022

---



Living in areas with greater greenspace is tied to a lower risk for stroke, according to a study published online April 18 in the *Journal of Patient-Centered Research and Reviews*.

Heloise Cheruvalath, from Smith College in Northampton, Massachusetts, and colleagues assessed whether residential greenspace is an independent [stroke](#) risk factor. The analysis included 1,174 stroke and 4,696 control patients over a three-year period from Milwaukee County, Wisconsin. Greenspace was estimated using the normalized difference vegetation index (NDVI) for a 250-m radius surrounding the participant's residence.

The researchers observed an inverse correlation between NDVI and stroke risk (odds ratio [OR], 0.33), with lower odds of stroke for patients living in the highest greenspace quartile versus the lowest quartile (OR, 0.81). Patients living in the most deprived quartile had greater stroke risk than those living in the least deprived quartile (OR, 1.28). Compared with White participants, non-Hispanic Black patients lived in residential [areas](#) with lower greenspace and neighborhoods with a greater state and national area deprivation index.

"With the novel findings from our study, [stroke risk](#) can now be added to the growing list of health issues impacted by residential greenspace. Our data also confirmed neighborhood disadvantage as a risk factor for stroke, further suggesting the environment in which we live is an [independent risk factor](#) for stroke after controlling for individual characteristics," the authors write. "This is important from a public health perspective. Greenspace is a readily modifiable environmental factor that should be protected and expanded in the face of relentless urbanization."

**More information:** [Abstract/Full Text](#)

Copyright © 2022 [HealthDay](#). All rights reserved.

Citation: Nearby greenspace tied to lower stroke risk (2022, April 20) retrieved 3 May 2024

from <https://medicalxpress.com/news/2022-04-nearby-greenspace-tied.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.