

Endometriosis causally associated with ischemic stroke

January 24 2023, by Elana Gotkine



Endometriosis has a causal link to ischemic stroke, according to a

research letter published in the February issue of *Stroke*, a theme issue focused on the topic of cerebrovascular diseases and women, in conjunction with the American Heart Association Go Red for Women initiative.

Ming Zheng, M.D., Ph.D., from the Academy of Military Medical Sciences in Beijing and Shaoping Zheng, from the Beijing Institute of Basic Medical Sciences, examined genetically determined endometriosis in a stroke cohort with 521,612 participants. Genetic instruments of single nucleotide polymorphisms for endometriosis were selected from an endometriosis cohort of 77,257 participants. A total of 46 [single nucleotide polymorphisms](#) were selected with an average F statistic of 38.7. The risk for stroke was examined following endometriosis using Mendelian randomization (MR) analysis.

The researchers found that endometriosis was significantly associated with increased risks for ischemic stroke, including total and cardioembolic ischemic stroke. Risks for ischemic stroke were significantly increased for endometriosis subtypes of the ovary, pelvic peritoneum, rectovaginal septum, and vagina and occurring infertility. Causality was most significant for infertility-related endometriosis and cardioembolic [ischemic stroke](#). This causal effect was significant across different MR tests.

"We strongly suggest a shift in the perception of [endometriosis](#) from a purely gynecological disease to a complex systemic disease involving increased stroke risk," the authors write.

More information: Ming Zheng et al, Endometriosis Increases the Risk of Stroke: A Mendelian Randomization Study, *Stroke* (2023). [DOI: 10.1161/STROKEAHA.122.041163](https://doi.org/10.1161/STROKEAHA.122.041163)

Citation: Endometriosis causally associated with ischemic stroke (2023, January 24) retrieved 27 April 2024 from <https://medicalxpress.com/news/2023-01-endometriosis-causally-ischemic.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.