

## Dietary nitrate intake linked to lower risk for AMD progression

December 28 2022, by Elana Gotkine HealthDay Reporter



Dietary nitrate intake is associated with a lower risk for progression of



age-related macular degeneration (AMD), according to a study published online Dec. 22 in *JAMA Ophthalmology*.

Geoffrey K. Broadhead, M.D., Ph.D., from the National Eye Institute at the National Institutes of Health in Bethesda, Maryland, and colleagues examined the association between dietary nitrate intake and AMD progression using data from the prospective Age-Related Eye Disease Study (AREDS) and AREDS2 randomized clinical trial cohorts and extended follow-up studies. Data were included for 7,788 participants in the combined AREDS/AREDS2 cohort, with 13,511 eligible eyes.

The researchers found that in the combined AREDS/AREDS2 cohort, dietary nitrate intake was associated with a reduced risk for progression to late AMD (hazard ratio, 0.77 for quartile 4 versus 1 of intake); the risks for geographic atrophy (GA) and neovascular AMD (nAMD) were also reduced (hazard ratios, 0.71 and 0.85, respectively). Increased nitrate intake (quartile 4 versus 1) was associated with a <u>reduced risk</u> for late AMD and GA (hazard ratios, 0.77 and 0.80, respectively), but not with nAMD in AREDS; no association between nitrate intake and late AMD or nAMD was seen in AREDS2. An association was noted between Mediterranean dietary patterns and dietary nitrate intake.

"These results are from post hoc analyses and are therefore hypothesisgenerating in nature," the authors write. "Much of the outcome associated with <u>nitrate</u> intake can be attributed to plant-based dietary patterns in general, such as a Mediterranean diet."

**More information:** Geoffrey K. Broadhead et al, Association of Dietary Nitrate and a Mediterranean Diet With Age-Related Macular Degeneration Among US Adults, *JAMA Ophthalmology* (2022). DOI: 10.1001/jamaophthalmol.2022.5404

Michael Larsen, Nitrates and Age-Related Macular Degeneration, JAMA



## Ophthalmology (2022). DOI: 10.1001/jamaophthalmol.2022.5625

Copyright © 2022 HealthDay. All rights reserved.

Citation: Dietary nitrate intake linked to lower risk for AMD progression (2022, December 28) retrieved 19 April 2024 from

https://medicalxpress.com/news/2022-12-dietary-nitrate-intake-linked-amd.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.