

Study finds two servings of fish per week can help prevent recurrent heart disease

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An analysis of several large studies involving participants from more than 60 countries, spearheaded by researchers from McMaster University, has found that eating oily fish regularly can help prevent

cardiovascular disease (CVD) in high-risk individuals, such as those who already have heart disease or stroke.

The critical ingredient is omega-3 fatty acids, which researchers found was associated with a lower risk of major CVD events such as heart attacks and strokes by about a sixth in high-risk people who ate two servings of [fish](#) rich in omega-3 each week.

"There is a significant protective benefit of fish consumption in people with [cardiovascular disease](#)," said lead co-author Andrew Mente, associate professor of research methods, evidence, and impact at McMaster and a principal investigator at the Population Health Research Institute.

No benefit was observed with consumption of fish in those without [heart disease](#) or stroke.

"This study has important implications for guidelines on fish intake globally. It indicates that increasing fish consumption and particularly [oily fish](#) in vascular patients may produce a modest cardiovascular benefit."

Mente said people at low risk for cardiovascular disease can still enjoy modest protection from CVD by eating fish rich in omega-3, but the [health benefits](#) were less pronounced than those high-risk individuals.

The study was published in *JAMA Internal Medicine* on March 8.

The findings were based on data from nearly 192,000 people in four studies, including about 52,000 with CVD, and is the only study conducted on all five continents. Previous studies focused mainly on North America, Europe, China and Japan, with little information from other regions.

"This is by far the most diverse study of fish intake and [health outcomes](#) in the world and the only one with sufficient numbers with representation from high, middle and low income countries from all inhabited continents of the world," said study co-lead Dr. Salim Yusuf, professor of medicine at the Michael G. DeGroote School of Medicine and executive director of the PHRI.

This analysis is based in data from several studies conducted by the PHRI over the last 25 years. These studies were funded by the Canadian Institutes for Health Research, several different pharmaceutical companies, charities, the Population Health Research Institute and the Hamilton Health Sciences Research Institute.

More information: Dariush Mozaffarian. Fish, Cardiovascular Disease, and Mortality—What Is the Global Evidence?, *JAMA Internal Medicine* (2021). [DOI: 10.1001/jamainternmed.2021.0045](https://doi.org/10.1001/jamainternmed.2021.0045)

Provided by McMaster University

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