

Eating more fiber may lower risk of first-time stroke

March 28 2013

Eating more fiber may decrease your risk of first-time stroke, according to new research in the American Heart Association journal *Stroke*.

Dietary fiber is the part of the plant that the body doesn't absorb during digestion. Fiber can be soluble, which means it dissolves in water, or insoluble.

Previous research has shown that dietary fiber may help reduce risk factors for stroke, including high blood pressure and high [blood levels](#) of low-density lipoprotein (LDL) "bad" [cholesterol](#).

In the new study, researchers found that each seven-gram increase in total daily fiber intake was associated with a 7 percent decrease in first-time stroke risk. One serving of whole wheat pasta, plus two servings of fruits or vegetables, provides about 7 grams of fiber, researchers said.

"Greater intake of fiber-rich foods – such as whole-grains, fruits, vegetables and nuts – are important for everyone, and especially for those with [stroke risk factors](#) like being overweight, smoking and having [high blood pressure](#)," said Diane Threapleton, M.Sc., lead author of the study and Ph.D. candidate at the University of Leeds' School of [Food Science](#) & Nutrition in Leeds, United Kingdom.

Researchers analyzed eight studies published between 1990-2012. Studies reported on all types of stroke with four specifically examining the risk of ischemic stroke, which occurs when a clot blocks a blood

vessel to the brain. Three assessed hemorrhagic stroke, which occurs when a blood vessel bleeds into the brain or on its surface.

Findings from the observational studies were combined and accounted for other stroke risk factors like age and smoking.

The results were based on total [dietary fiber](#). Researchers did not find an association with soluble fiber and stroke risk, and lacked enough data on insoluble fiber to make any conclusions.

The average daily fiber intake among U.S. adults is lower than the American Heart Association's recommendation of at least 25 grams per day. Six to eight servings of grains and eight to 10 servings of fruits and vegetables can provide the recommended amount.

"Most people do not get the recommended level of fiber, and increasing fiber may contribute to lower risk for strokes," Threapleton said. "We must educate consumers on the continued importance of increasing [fiber intake](#) and help them learn how to increase fiber in their diet."

In the United States, stroke is the fourth leading cause of death, killing more than 137,000 people annually. Among survivors, the disease is a leading cause of disability.

In addition to following a nutritious diet, the [American Heart Association](#) recommends being physically active and avoiding tobacco to help prevent stroke and other heart and blood vessel diseases.

Provided by American Heart Association

Citation: Eating more fiber may lower risk of first-time stroke (2013, March 28) retrieved 25 April 2024 from <https://medicalxpress.com/news/2013-03-fiber-first-time.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.