

Low-carb diets linked to higher odds for A-fib

March 6 2019, by Serena Gordon, Healthday Reporter



(HealthDay)—Keto, Paleo, Atkins—there's no shortage of low-carb

diets to try, but new research suggests that over time, living low-carb can raise your risk of a heart condition called atrial fibrillation, or a-fib.

People who regularly got fewer than 45 percent of their calories from carbohydrates were 18 percent more likely to develop a-fib than people who ate a moderate amount of carbohydrates (about 45 percent to 52 percent of their calories).

The Chinese researchers said the risk of a-fib was raised no matter what types of protein or fat were used to replace carbohydrates.

"Extremes of anything aren't good. Too much carbohydrate is bad and too little is also bad," explained Dr. Laurence Epstein, system director of electrophysiology at Northwell Health in Manhasset, N.Y. Epstein wasn't involved with the new study.

Atrial fibrillation is a [heart](#) rhythm disorder. Instead of the usual heartbeat, the heart sometimes quivers in people with a-fib. Because the heart isn't pumping properly, blood pools in the heart and can form clots. If a blood clot breaks free, it can reach the brain and cause a stroke, according to the American Heart Association.

Although the current study was only designed to find an association, and not a cause-and-effect relationship, Epstein pointed to several reasons a [low-carb diet](#) could have negative consequences.

He said that one way [low-carb](#) diets cause such fast weight loss is by flushing fluids out of the body, and dehydration can cause a-fib. Low-carb diets can also cause electrolyte abnormalities, which can affect the heart rhythm.

The researchers pointed out that people eating [low-carbohydrate diets](#) also tend to eat fewer vegetables, fruits and grains—foods linked to

lower levels of inflammation. People on low-carb diets may experience more inflammation, which has been linked to a-fib.

Epstein said the reason someone is on a low-carb [diet](#) may matter, too. "If you're diabetic and trying to control your blood sugar, you may be on a very low-carb diet. Diabetes is a risk factor for a-fib," he pointed out.

For the study, researchers reviewed data from a U.S. National Institutes of Health study that included almost 14,000 people. At the study's start, none of them had a-fib.

Over an average of 22 years of follow-up, about 1,900 participants developed the heart rhythm disorder.

All of the study participants filled out detailed diet surveys, and researchers divided them into three groups: low-, moderate-, and high-carbohydrate intake. The low-carb group got fewer than 45 percent of their daily calories from carbs. Moderates consumed between about 45 percent and 52 percent of calories from carbs, and the high-carb group included people who got more than 52 percent of their calories from carbs.

The researchers said their findings complement other studies suggesting that both low- and high-carbohydrate diets are linked with a higher risk of premature death.

Samantha Heller, a nutritionist with NYU Langone Health in New York City, said any extremes may lead to serious health consequences.

"There are many iterations of low-carb diets. On some, people don't eat a lot of bread, pasta or desserts, and that's good. But sometimes fad diets eliminate healthy foods like vegetables, fruits and legumes, and you don't get enough nutrients and fiber," she said.

Everyone needs a more balanced dietary pattern that includes fruits, non-

starchy vegetables, whole grains, legumes, nuts and seeds, Heller said.

"A more plant-based diet decreases the risk for many chronic diseases," she added.

The researchers, along with Epstein and Heller, all said more research is needed to tease out the exact reasons a lower-carb diet is linked to a-fib.

Dr. Xiaodong Zhuang, the study's lead author and a cardiologist at Sun Yat-Sen University in Guangzhou, China, is scheduled to present the findings at the American College of Cardiology meeting March 16, in New Orleans.

Findings presented at meetings are typically viewed as preliminary until they've been published in a peer-reviewed journal.

More information: Learn more about atrial fibrillation from the [American Heart Association](#).

Copyright © 2019 [HealthDay](#). All rights reserved.

Citation: Low-carb diets linked to higher odds for A-fib (2019, March 6) retrieved 18 February 2023 from <https://medicalxpress.com/news/2019-03-low-carb-diets-linked-higher-odds.html>

<p>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.</p>
--