

# Pumpkin pulp, seeds lower blood pressure in rat study

September 6 2019

---



Photo: Westend61, Getty Images

Incorporating pumpkin pulp or seeds into a healthy diet may help reduce

blood pressure levels, according to a new study using rats.

The research, presented Thursday at the American Heart Association's Hypertension 2019 Scientific Sessions in New Orleans, compared the effect of a control [diet](#) to one that contained pumpkin pulp or seeds on the rats' blood pressure and [heart muscle](#). The rats were put on the diet at 6 weeks old and fed it for eight weeks. The rats on a diet in which 4% of the calories came from pumpkin seeds or pulp had [blood pressure levels](#) more than 20% lower than the rats on the control diet.

For close to two decades, researchers have looked at the nutritional benefit of pumpkin oil and seeds, said Dr. Soweto Thomas, a biomedical researcher at Tuskegee University in Alabama who conducted the study. "But most of this research has been in other countries."

Until now, he said, no one had looked at the effect of pumpkin flesh on [high blood pressure](#).

High blood pressure, also called hypertension, affects nearly half of American adults. Often called "the silent killer," it has no symptoms. High blood pressure puts people at risk of heart disease, stroke, [kidney disease](#) and more.

Using medications as prescribed and making lifestyle changes, such as eating a [healthy diet](#) and getting regular exercise, can lower blood pressure.

A 2017 study in the *Journal of the American College of Cardiology* suggested a diet called Dietary Approaches to Stop Hypertension (DASH) combined with a low-salt diet might lower high blood pressure.

The DASH diet includes vegetables, fruits and whole grains; fat-free or low-fat dairy products; and fish, poultry, beans, nuts and vegetable oils.

It limits foods high in saturated fat, tropical oils, sugar-sweetened drinks and sweets.

For his study, Thomas used the pulp and seeds from calabaza squash, which often is used in canned pumpkin. The pulp and seeds were freeze dried and then made into a powder that was added to the rat food.

Thomas said the amount the rats ate would be equivalent to about 1 1/2 cups of boiled pumpkin or 1/3 cup of pumpkin seeds. Adding this amount of pumpkin to a person's diet "is easily attainable," he said.

Judith Wylie-Rosett, a professor in the Department of Epidemiology and Population Health at Albert Einstein College of Medicine in New York, said pumpkin is one of the vegetables recommended by the DASH diet.

Wylie-Rosett, who was not involved in the new study, said pumpkin is rich in [beta carotene](#) and is a good source of potassium and other compounds thought to help lower blood pressure.

Even so, whether eating [pumpkin](#) pulp or seeds daily would lower [blood pressure](#) in humans as it did in rats isn't known.

"With the animal model we can never really fully say that what we see is exactly what is going to happen in a human trial," Thomas said. "But there is a slew of dietary intervention studies that have shown that, overall, a healthy diet can make real changes in someone's health."

American Heart Association News covers heart and brain health. Not all views expressed in this story reflect the official position of the American Heart Association. Copyright is owned or held by the American Heart Association, Inc., and all rights are reserved. If you have questions or comments about this story, please email [editor@heart.org](mailto:editor@heart.org).

Citation: Pumpkin pulp, seeds lower blood pressure in rat study (2019, September 6) retrieved 19 September 2024 from

<https://medicalxpress.com/news/2019-09-pumpkin-pulp-seeds-blood-pressure.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.