



A Compound In Avocados May Reduce Type 2 Diabetes

Avocados aren't merely a tasty addition to a diet — they contain a fat molecule that may safely reduce [insulin resistance](#).

A study by researchers from the University of Guelph, in Canada, suggests that this compound, which avocados alone contain, may forestall or prevent the hallmark of [type 2 diabetes](#) in mice.

The team also tested the safety of this compound in human participants. They have published a summary of their findings in the journal [Molecular Nutrition & Food Research](#).

The problem with type 2 diabetes

Type 2 diabetes prevents the body from successfully processing glucose, or sugar, in the blood.

In people without [diabetes](#), this processing happens with the assistance of the pancreatic hormone [insulin](#). In people who have diabetes, the body either does not produce enough of the hormone, or it cannot use it effectively.

Either type of diabetes can cause too much glucose to remain in the blood, an unhealthy state that — if left unmanaged — can cause a range of serious issues, including [heart disease](#), [stroke](#), and kidney or nerve damage.

“We advocate healthy eating and exercise as solutions to the problem, but that’s difficult for some people. We’ve known this for decades, and [obesity and diabetes are still a significant health problem.](#)” - Nawaz Ahmed, lead author of the paper

The University of Guelph research, led by an associate professor at the school, Paul Spagnuolo, Ph.D., looked particularly at insulin resistance.

Insulin resistance, say the study’s authors, occurs when mitochondria in cells cannot burn fatty acids via oxidation sufficiently. In diabetes, that oxidation is incomplete.

Meet AvoB

The compound in question is a fat molecule called avocatin B, or AvoB.

For the study, the researchers fed mice a high fat diet for 8 weeks to promote obesity and insulin resistance. Then, the team added AvoB to the diet of half the mice for the next 5 weeks.

At the end of the 13 weeks, the mice that had ingested AvoB had gained weight at a slower rate than their counterparts, and their insulin sensitivity had increased.

The researchers conclude that AvoB worked against incomplete mitochondrial fatty acid oxidation in the skeletal muscle and pancreas, ensuring the complete oxidation of fats, and thus leading to improved glucose tolerance and utilization, enhancing the rodents’ insulin sensitivity.

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