

## An avocado a day may help keep bad cholesterol at bay

January 7 2015

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Credit: Wikipedia

Eating one avocado a day as part of a heart healthy, cholesterol-lowering moderate-fat diet can help improve bad cholesterol levels in overweight and obese individuals, according to new research published in the *Journal of the American Heart Association*.

Researchers evaluated the effect avocados had on traditional and novel

cardiovascular risk factors by replacing saturated fatty acids from an average American [diet](#) with unsaturated fatty acids from avocados.

Forty-five healthy, overweight or obese patients between the ages of 21 and 70 were put on three different [cholesterol](#)-lowering diets.

Participants consumed an average American diet (consisting of 34 percent of calories from fat, 51 percent carbohydrates, and 16 percent protein) for two weeks prior to starting one of the following cholesterol lowering diets: lower fat diet without [avocado](#), moderate-fat diet without avocado, and moderate-fat diet with one avocado per day. The two moderate fat diets both provided 34 percent of calories as fat (17 percent of calories from monounsaturated fatty acids/MUFAs), whereas the lower fat diet provided 24 percent of calories as fat (11 percent from MUFAs). Each participant consumed each of the three test diet for five weeks. Participants were randomly sequenced through each of the three diets.

Researchers found:

- Compared to the baseline average American diet, low-density lipoprotein (LDL) - the so called '[bad cholesterol](#)' - was 13.5 mg/dL lower after consuming the moderate fat diet that included an avocado. LDL was also lower on the moderate fat diet without the avocado (8.3 mg/dL lower) and the lower fat diet (7.4 mg/dL lower), though the results were not as striking as the avocado diet.
- Several additional blood measurements were also more favorable after the avocado diet versus the other two cholesterol-lowering diets as well: total cholesterol, triglycerides, small dense LDL, non-HDL cholesterol, and others.

These measurements are all considered to be cardio-metabolic risk factors in ways that are independent of the heart-healthy fatty acid

effects, said Penny M. Kris-Etherton, Ph.D., R.D., senior study author and Chair of the American Heart Association's Nutrition Committee and Distinguished Professor of Nutrition at Pennsylvania State University, in University Park, Pennsylvania.

"This was a controlled feeding study, but that is not the real-world - so it is a proof-of-concept investigation. We need to focus on getting people to eat a heart-healthy diet that includes avocados and other nutrient-rich food sources of better fats," Kris-Etherton said.

"In the United States avocados are not a mainstream food yet, and they can be expensive, especially at certain times of the year. Also, most people do not really know how to incorporate them in their diet except for making guacamole. But guacamole is typically eaten with corn chips, which are high in calories and sodium. Avocados, however, can also be eaten with salads, vegetables, sandwiches, lean protein foods (like chicken or fish) or even whole."

For the study researchers used Hass avocados, the ones with bumpy green skin. In addition to MUFAs, avocados also provided other bioactive components that could have contributed to the findings such as fiber, phytosterols, and other compounds.

According to researchers, many heart-healthy diets recommend replacing saturated fatty acids with MUFAs or polyunsaturated fatty acids to reduce the risk of heart disease. This is because saturated fats can increase bad [cholesterol levels](#) and raise the risk of cardiovascular disease.

The Mediterranean diet, includes fruits, vegetables, whole grains, fatty fish, and foods rich in monounsaturated [fatty acids](#)—like extra-virgin olive oil and nuts. Like avocados, some research indicates that these not only contain better fats but also certain micronutrients and bioactive

components that may play an important role in reducing risk of heart disease.

Provided by American Heart Association

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