

# Can a Mediterranean diet pattern slow aging?

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A [series of six articles](#) appearing in the March issue of *The Journals of Gerontology, Series A: Biological Sciences and Medical Sciences* finds new correlations between a Mediterranean diet and healthy aging outcomes—while also underscoring the need for careful approaches to the use of data in order to measure the diet's potential benefits.

Among their findings, the new articles report on underlying mechanisms of the diet; the positive relationship between the diet and physical and cognitive function; the value of taking a coenzyme Q10 supplement while adhering to the diet; and the role of the diet in reducing inflammation. But in several of the studies, the level of benefit was dependent on how [adherence](#) to the diet was measured.

"Greater clarity on how this diet is defined, in both interventions and observational studies, will be critical in the aim of achieving a consensus on how to optimally apply this dietary pattern towards maximizing healthy aging," state Michelle A. Mendez, PhD, and *Journals of Gerontology: Medical Sciences* Editor-in-Chief Anne B. Newman, MD, FGSA, in an opening editorial.

Hallmarks of the Mediterranean diet include: a variety of minimally processed whole grains and legumes as the staple food; plenty of a huge diversity of fresh vegetables consumed on a daily basis; fresh fruits as the typical daily dessert; cold pressed extra-virgin olive oil, nuts, and seeds as the principal source of fat; moderate consumption of fish; dairy products consumed in low amounts; red and processed meat consumed in

very low frequency and amounts; and wine consumed in low to moderate amounts only with meals.

There are a number of scales used to measure adherence to the diet. One of the journal's studies, conducted by researchers at the University of Paris 13, found that among test subjects, higher numbers on the Literature-based Adherence Score to the Mediterranean Diet were associated with higher odds of meeting certain healthy aging criteria. Similar results were found with another index, the Mediterranean Diet Score; however, use of the Mediterranean Diet Scale yielded a weaker correlation. In another study by researchers at the Autonomous University of Madrid, closer adherence to the diet was associated with a lower likelihood of physical function impairment in older adults, although in this case using the Mediterranean Diet Adherence Screener provided more significant results than the Mediterranean Diet Score.

The exact mechanism by which an increased adherence to the [diet](#) exerts its favorable effects is still unknown to scientists. However, writing in one of the new articles, researchers from Washington University in St. Louis state there is accumulating evidence of five important adaptations induced by the Mediterranean dietary pattern. These include lipid lowering; protection from oxidative stress and inflammation; modification of growth factors that can promote cancer; inhibition of nutrient sensing pathways by amino acid restriction and gut microbiota-mediated production of metabolites.

Provided by The Gerontological Society of America

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