

# The key to a better mood for young men is walnuts

November 1 2016, by Katie Williams

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Credit: California Walnut Commission

College can be a stressful time for young adults as they figure out how to manage intense daily routines that include work, study and play. Eat well, exercise and get plenty of sleep is a familiar mantra to alleviate this stress, but now with the results of his latest study, UNM Nutrition Professor Peter Pribis is able to tell college students that walnuts could be a key to a happier state-of-mind.

In this first intervention study in humans, Pribis measured the effect of walnut consumption on mood.

"In the past, studies on walnuts have shown beneficial effects on many health outcomes like heart disease, diabetes and obesity," said Pribis. "Our study was different because we focused on cognition, and in this controlled randomized trial (CRT) we measured mood outcomes in males and females."

The participants of the study were 64 students between the ages of 18-25. They represented most ethnic groups: Caucasian, African American, Hispanic and Asian.

The participants were asked to eat three slices of banana bread every day for sixteen weeks—eight weeks of banana bread with walnuts and eight weeks of banana bread without walnuts. The nuts were finely ground into the dough so the two banana breads were similar in taste and appearance. While eating banana bread with walnuts the participants consumed half a cup of walnuts daily.

The mood of the students was measured at the end of each eight-week period.

"We used a validated questionnaire called Profiles of Mood States (POMS)," says Pribis. "It is one of the most widely used and accepted mood scales in studies on cognition. The test has six mood domains: tension, depression, anger, fatigue, vigor, confusion and also provides a Total Mood Disturbance score (TMD). The lower the TMD score the better the mood."



UNM Nutrition Professor Peter Pribis recently completed a research study that shows the consumption of walnuts produces a meaningful difference in mood in young men. Credit: University of New Mexico

In this double-blind, randomized, placebo controlled, cross-over feeding trial with walnuts for eight weeks, Pribis observed a significant improvement in mood in young, healthy males.

"There was a meaningful, 28 percent improvement of mood in young men," said Pribis. "However we did not observe any improvement of mood in females. Why this is we do not know."

There are several nutrients in walnuts that could be responsible for the improved mood like alpha-Linolenic acid, vitamin E, folate, polyphenols or melatonin. However, this was a whole food study, so in the end it was the synergy and interaction of all the nutrients in the walnuts combined.

For Pribis, the lesson learned from this food study is clear, "Eat more walnuts. This is an easy intervention. They're not only good for your [mood](#), but overall health as well. The recommended amount is one handful per day."

With this knowledge in hand—and hopefully [walnuts](#) in the other—young men can happily tackle life's daily stress.

Provided by University of New Mexico

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