

# No bones about it: Eating dried plums helps prevent fractures and osteoporosis

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Bahram Arjmandi is Florida State's Margaret A. Sitton Professor and chairman of the Department of Nutrition, Food and Exercise Science. Credit: FSU Photography Services

When it comes to improving bone health in postmenopausal women — and people of all ages, actually — a Florida State University researcher has found a simple, proactive solution to help prevent fractures and osteoporosis: eating dried plums.

"Over my career, I have tested numerous fruits, including figs, dates, strawberries and raisins, and none of them come anywhere close to having the effect on [bone](#) density that dried plums, or prunes, have," said Bahram H. Arjmandi, Florida State's Margaret A. Sitton Professor and chairman of the Department of Nutrition, Food and Exercise Sciences in the College of Human Sciences. "All fruits and vegetables have a

positive effect on nutrition, but in terms of bone health, this particular food is exceptional."

Arjmandi and a group of researchers from Florida State and Oklahoma State University tested two groups of [postmenopausal women](#). Over a 12-month period, the first group, consisting of 55 women, was instructed to consume 100 grams of dried plums (about 10 prunes) each day, while the second — a comparative control group of 45 women — was told to consume 100 grams of dried apples. All of the study's participants also received daily doses of calcium (500 milligrams) and vitamin D (400 international units).

The group that consumed dried plums had significantly higher bone mineral density in the ulna (one of two long bones in the forearm) and spine, in comparison with the group that ate dried apples. This, according to Arjmandi, was due in part to the ability of dried plums to suppress the rate of bone resorption, or the breakdown of bone, which tends to exceed the rate of new bone growth as people age.

The group's research, "[Comparative Effects of Dried Plum and Dried Apple on Bone in Post Menopausal Women](#)," was published in the *British Journal of Nutrition*. Arjmandi conducted the research with his graduate students Shirin Hooshmand, Sheau C. Chai and Raz L. Saadat of the College of Human Sciences; Dr. Kenneth Brummel-Smith, Florida State's Charlotte Edwards Maguire Professor and chairman of the Department of Geriatrics in the College of Medicine; and Oklahoma State University statistics Professor Mark E. Payton.

In the United States, about 8 million women have osteoporosis because of the sudden cessation of ovarian hormone production at the onset of menopause. What's more, about 2 million men also have osteoporosis.

"In the first five to seven postmenopausal years, women are at risk of

losing bone at a rate of 3 to 5 percent per year," Arjmandi said.

"However, osteoporosis is not exclusive to women and, indeed, around the age of 65, men start losing bone with the same rapidity as women."

Arjmandi encourages people who are interested in maintaining or improving their [bone health](#) to take note of the extraordinarily positive effect that dried plums have on bone density.

"Don't wait until you get a fracture or you are diagnosed with osteoporosis and have to have prescribed medicine," Arjmandi said. "Do something meaningful and practical beforehand. People could start eating two to three dried plums per day and increase gradually to perhaps six to 10 per day. Prunes can be eaten in all forms and can be included in a variety of recipes."

Provided by Florida State University

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