

NATURAL BEAUTY

With their 6 grams of energizing protein, 4 grams of fibre and nutrients including magnesium and vitamin E, it's no wonder that almonds are known for being one of the healthiest snacks around.

Did you know that almonds could be one of the tastiest steps in your skincare routine, too?



ALMONDS: A BOOST FOR YOUR BEAUTY ROUTINE

Several key nutrients found in almonds are linked to skin health, making them a delicious addition to daily beauty regimens:

- Almonds are rich in the antioxidant **vitamin E**, which may help protect the body from oxidative stress caused by pollution, UV rays from the sun, cigarette smoke and other environmental and intrinsic factors. One serving of 23 almonds (about 28 grams) provides 60% of your daily recommended vitamin E needs.
- You'll find 9% of the NRV for **zinc**. Zinc contributes to the maintenance of skin.
- Two B vitamins also contribute to the maintenance of normal skin. Almonds offer 23% of the NRV for **riboflavin** and 6% of the NRV for **niacin**.
- Almonds are a high source of **copper**, which plays a role in skin and hair pigmentation.





SKIN DEEP FINDINGS

Researchers at the University of California, Davis (USA) found that a daily snack of two servings of almonds in place of other nut-free snacks helped reduce measures of wrinkle width and severity in a study group of postmenopausal women.

In this 16-week randomized controlled pilot study, 28 healthy postmenopausal women with Fitzpatrick skin types 1 or 2 (characterized by increased tendency to burn with sun exposure) were randomly assigned to one of two groups:

- The intervention group, which ate almonds as a snack, accounting for 20% of total daily calorie intake or 340 calories on average (about two 30-gram servings or 60 grams).
- The control group, which ate a nut-free snack (a cereal bar, granola bar or pretzels) that also accounted for 20% of daily calories, averaging about 340 calories per day.

Aside from these snacks, study participants ate their regular diets and did not eat any nuts or nut-containing products.



Skin assessments were made at the start of the study and at four-week intervals ending at 16 weeks. At each visit, facial wrinkles were assessed using high-resolution facial imaging and validated 3-D facial modeling and measurement. Skin barrier function was also assessed. By the end of the study at 16 weeks, photographic image analysis showed improvements for participants in the almond snack group compared to the control group:

- **Wrinkle width decreased by 10%**
- **Wrinkle severity decreased by 9%**



There were no significant changes in skin barrier function between groups. There are a few limitations in this study that should be noted:

- Aging is a long-term process so the findings from this 16-week study may be difficult to reproduce and generalize to extended periods of time.
- Skin aging is multi-factorial in nature and, although certain groups were excluded, there is variance in aging confounders, which were outside the scope of the study.
- This study was limited to cosmetic evaluation as no measurements were made regarding collagen production.
- The study did not evaluate disease or younger subjects so results are limited to otherwise healthy postmenopausal females.
- This study served as a pilot study with a limited number of participants enrolled.

Source: Foolad N, Vaughn AR, Rybak I, Burney WA, Chodur GM, Newman JW, Steinberg FM, Sivamani RK. 2019. Prospective randomized controlled pilot study on the effects of almond consumption on skin lipids and wrinkles. *Phytotherapy Research*. 2019;1-6. <https://doi.org/10.1002/ptr.6495>.

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