

Lower Belly Fat and Healthier Weight is Linked to Olive Oil Intake

Researchers investigated the specific role of extra-virgin olive oil (EVOO), a key component of the Mediterranean diet, in its association with [abdominal obesity](#). The study leveraged a substantial sample cohort comprising data from over 16,000 adults to estimate the association between the frequency of EVOO consumption and abdominal obesity metrics.

Study findings revealed that regular EVOO consumption was independently associated with lower body mass index (BMI) and [waist circumference](#) (WC). Furthermore, participants demonstrating irregular or low EVOO consumption were observed to have five times higher odds of being classified as having abdominal obesity than their EVOO-adherent counterparts, indicating EVOO's combined influence as a mediator of part of the Mediterranean diet's association with waist circumference and as an independent factor associated with waist circumference.



Study

The present study sought to clarify this knowledge gap by providing consumers with a clearer view of whether habitual EVOO intake frequency is associated with BMI and waist circumference within the [Chrono Mediterranean Diet Score](#) (CMDs) framework, rather than only within the traditional MedDiet.

The study analyzed data from 20,784 respondents who completed an online questionnaire survey based on the CMDs, a metric that assesses adherence to a Mediterranean-style diet while also incorporating chrono-nutrition principles such as the timing of [food intake](#). Screening protocols that included only adults (age ≥ 18) resulted in a final dataset of 16,273 participants (8,712 females).

The questionnaire also collected data on sociodemographics (age, sex), morphometrics (height, weight, waist circumference), and detailed [dietary habits](#). Based on their self-reported intake of about two tablespoons (~25 g) of EVOO per day, participants were categorized into three groups: "sporadic" (fewer than 3 days/week), "frequent" (3 to 5 days/week), or "regular" (6 or more days/week).

Statistical analyses were conducted to examine the associations between EVOO intake frequency, anthropometric measures (BMI and waist circumference, WC), and overall CMDs adherence across categories. Analyses included analysis of variance (ANOVA) and [multivariate logistic regression models](#).

Results

The present study revealed a clear, dose-dependent association between EVOO intake and [metabolic health](#). Participants reporting regular EVOO consumption demonstrated a significantly lower average BMI (24.7 kg/m² versus 26.6 kg/m² [p < 0.001]) and waist circumference (89.1 cm versus 99.4 cm [p < 0.0001]) than their sporadic intake-reporting counterparts.

A mediation analysis showed that a substantial portion (61.9 percent) of the association between [Mediterranean diet](#) adherence and waist circumference was mediated through the consumption of EVOO. The oil also demonstrated a direct association with waist circumference, independent of the overall diet score ($\beta = -0.59$, p < 0.0001).

Logistic regression analyses revealed that, after adjusting for age, sex, and overall diet quality/CMD5 score, individuals who did not consume EVOO regularly were five times more likely to be classified as having abdominal [obesity](#) compared to regular consumers (Odds Ratio [OR] 5.1, 95 percent Confidence Interval [CI] 3.3–6.8, p < 0.0001).

Conclusion

This large-scale study provides evidence that regular [EVOO intake](#) is independently associated with lower BMI and waist circumference in this cross-sectional sample. The oil was further identified as a key mediator of Mediterranean diet adherence effects, strengthening the dietary pattern's positive associations.

The considerably higher risk of abdominal obesity among non-regular consumers supports existing guidance to include EVOO within [healthy dietary patterns](#), while future longitudinal and randomized studies will be necessary to establish causality.

This cross-sectional, self-reported survey in a predominantly European sample cannot infer causality, residual confounding and measurement error remain possible, and some [socioeconomic variables](#) were not captured.

Source:

<https://www.news-medical.net/news/20250930/Olive-oil-intake-is-linked-to-lower-belly-fat-and-healthier-weight.aspx>