

# Study links perimenopause to accelerated fat mass gains, lean mass losses

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The menopause transition, also known as perimenopause, is the time in a

woman's life when hormonal changes lead to irregular menstruation, hot flashes and other symptoms leading up to menopause, when menstruation stops altogether. The researchers found that women undergoing perimenopause lost lean body mass and more than doubled their fat mass. The women's lean and fat mass remained stable after the transition to menopause. The researchers also noted ethnic/racial differences in the impact of menopause on body composition.

The relationship between menopause and changes in body composition has not been well understood. While some smaller studies have looked at the impact of the [menopause transition](#) on body composition and weight, the Study of Women's Health Across the Nation provides sufficiently voluminous and detailed data to enable researchers to disentangle the effects of chronological aging and reproductive aging.

The researchers examined 18 years of data from the women's health study, assessing women's [body composition](#) using a model that gave them a picture of that composition from the time before and after their final menstrual period, accounting for race/ethnicity and hormone therapy.

Until now, there was no proof that menopause leads to gains in [fat mass](#) or losses of lean mass. The study demonstrates that a simple measurement of body weight does not illustrate what is happening "under the skin." Other research has found that, as women grow older, body mass index becomes a less reliable predictor of conditions such as diabetes or cardiovascular disease. These menopause-related shifts in fat and lean mass may be one of the reasons for the decline in the ability to predict the capacity of body mass index in older women.

**More information:** Gail A. Greendale et al. Changes in body composition and weight during the menopause transition, *JCI Insight* (2019). [DOI: 10.1172/jci.insight.124865](https://doi.org/10.1172/jci.insight.124865)

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