

# Genetics may be the key to hormonal treatment of fractures in women

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Specifically, researchers at the University of Buffalo have discovered that women with the highest genetic risk associated with fractures can be treated with hormone therapy.

Before that, **bone density** (MBD) in women began to decrease when the age was higher, more easily fractured. However, not only age but genetic factors are also associated with an increased risk of fractures.



Study about 10,000 women from the National Women's Health Research Program, a long-term study of WHI investigated and applied hormonal and gene therapy on postmenopausal white women. broken bones.

For this study, the team of scientists used a set of genes related to the risk of fracture through specific genomic meta-analysis methods.

Heather Ochs-Balcom, a professor of epidemiology and environmental health at UB's School of Public Health and Health, said: " We found that women at high risk of fractures due to di Transmission can be protected, restoring treatment from hormone therapy - He said in a press release . "



This study helps to better understand the optimal benefits that hormonal therapy provides for bone health. This is an important finding for women as well as physicians who have been using hormone therapy to treat some diseases.

In this finding, the team also discovered two genetic risk points that cause fractures based on 16 variants of bone-related genes and another 50 related to bone density from which they beat. effective price, the effect of hormone therapy on genetic fractures.

Ochs-Balcom said: *"Our research represents a first look at how new therapeutic trends have been broken at a new level, involving the use of hormone therapy in the This is very important because, as previous studies WHI has identified, there are risk factors and benefits that are effectively associated with hormone-related therapeutic hormone therapy. is a new, effective, less harmful, less effective side-effect medicine ' .*

Researchers found that women can use hormone therapy to reduce the risk of fractures, especially for women with low bone mineral density. This study has just been published in the Journal of Clinical Endocrinology and Metabolism.

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