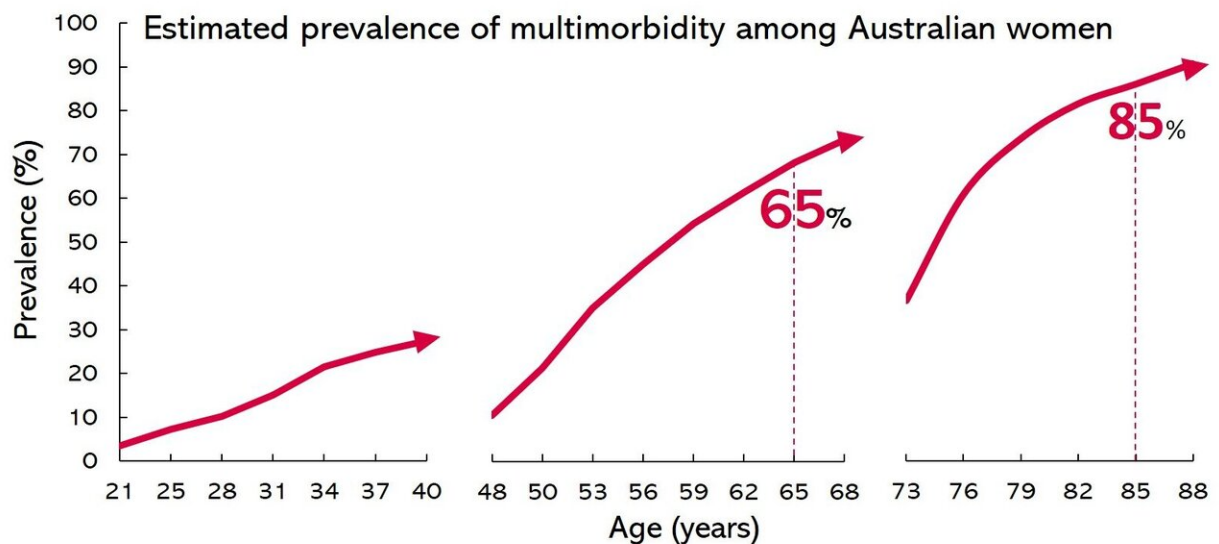


Premature menopause increases the risk of multiple health problems in your 60s

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Estimated prevalence of multimorbidity among Australian women. Credit: *Human Reproduction*

Women who experience premature menopause are almost three times more likely to develop multiple, chronic medical problems in their 60s compared to women who went through the menopause at the age of 50 or 51.

These are the findings from a study of 5107 women who were part of a national study of 11,258 Australian women, aged 45-50 years in 1996

and who were followed until 2016. The study is published today (Monday) in *Human Reproduction*, one of the world's leading reproductive medicine journals.

As life expectancy is now more than 80 years for women in [high income countries](#), a third of a woman's life is spent after the menopause. It is known already that premature menopause, occurring at the age of 40 or younger, is linked to a number of individual medical problems in later life, such as cardiovascular disease and diabetes. However, there is little information about whether there is also an association between the time of natural menopause and the development of multiple medical conditions—known as multimorbidity.

Researchers at the Centre for Longitudinal and Life Course Research at The University of Queensland, Brisbane (Australia) used data on women who had joined the prospective Australian Longitudinal Study on Women's Health between 1946 and 1951. The women responded to the first survey in 1996 and then answered questionnaires every three years (apart from a two-year interval between the first and second survey) until 2016. The women reported whether they had been diagnosed with or treated for any of 11 health problems in the past three years: diabetes, high blood pressure, heart disease, stroke, arthritis, osteoporosis, asthma, [chronic obstructive pulmonary disease](#), depression, anxiety or breast cancer. Women were considered to have multimorbidity if they had two or more of these conditions.

The women's age at natural menopause was defined as at least 12 months without monthly bleeding, where this was not the result of a surgical intervention such as removal of the ovaries or hysterectomy.

During the 20 years of follow-up, 2.3% of women experienced premature menopause and 55% developed multimorbidity. Compared with women who experienced menopause at the age of 50-51 years,

women with premature menopause were twice as likely to develop multimorbidity by the age of 60, and three times as likely to develop multimorbidity from the age of 60 onwards.

Dr. Xiaolin Xu, who conducted the research as part of his Ph.D. thesis at the University of Queensland and who is now a research professor at Zhejiang University, China, said: "We found that 71% of women with premature menopause had developed multimorbidity by the age of 60 compared with 55% of women who experienced menopause at the age of 50-51. In addition, 45% of women with premature menopause had developed multimorbidity in their 60s compared with 40% of women who experienced menopause at the age of 50-51."

Professor Gita Mishra, director of the Centre and senior author of the paper, said: "Our findings indicate that multimorbidity is common in mid-aged and early-elderly women. Premature menopause is associated with an [increased risk](#) of developing multimorbidity, even after adjusting for previous chronic conditions and for possible factors that could affect the results, such as whether or not the women had children, how many, education, body mass index, smoking and physical activity."

Dr. Xu added: "We also found that premature menopause is associated with a higher incidence of individual chronic conditions."

The researchers say they believe that this is the first study to assess the link between premature menopause and the development of multimorbidity in a large group of women and with long-term, prospective follow-up.

"Our findings suggest that health professionals should consider providing comprehensive screening and assessment of risk factors when treating women who experience natural premature menopause in order to assess their risk of multimorbidity," said Prof Mishra. "Our findings also

highlight that multimorbidity should be considered as a clinical and public health priority when policy-makers are considering how to control and prevent chronic health problems in women."

The study does not show that premature [menopause](#) causes the development of multimorbidity, only that there is an association. A limitation of the study is that the researchers relied on self-reported information from the women.

The researchers are now investigating what risk factors could be targeted in order to prevent or slow down the development of [health problems](#) in [women](#) who experience [premature menopause](#). These include improving diet and exercise, not smoking, controlling body weight, engaging in mentally stimulating activity and regular screening for cancer and other medical problems related to the reproductive system.

More information: Xiaolin Xu et al, Age at natural menopause and development of chronic conditions and multimorbidity: results from an Australian prospective cohort, *Human Reproduction* (2019). [DOI: 10.1093/humrep/dez259](#)

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