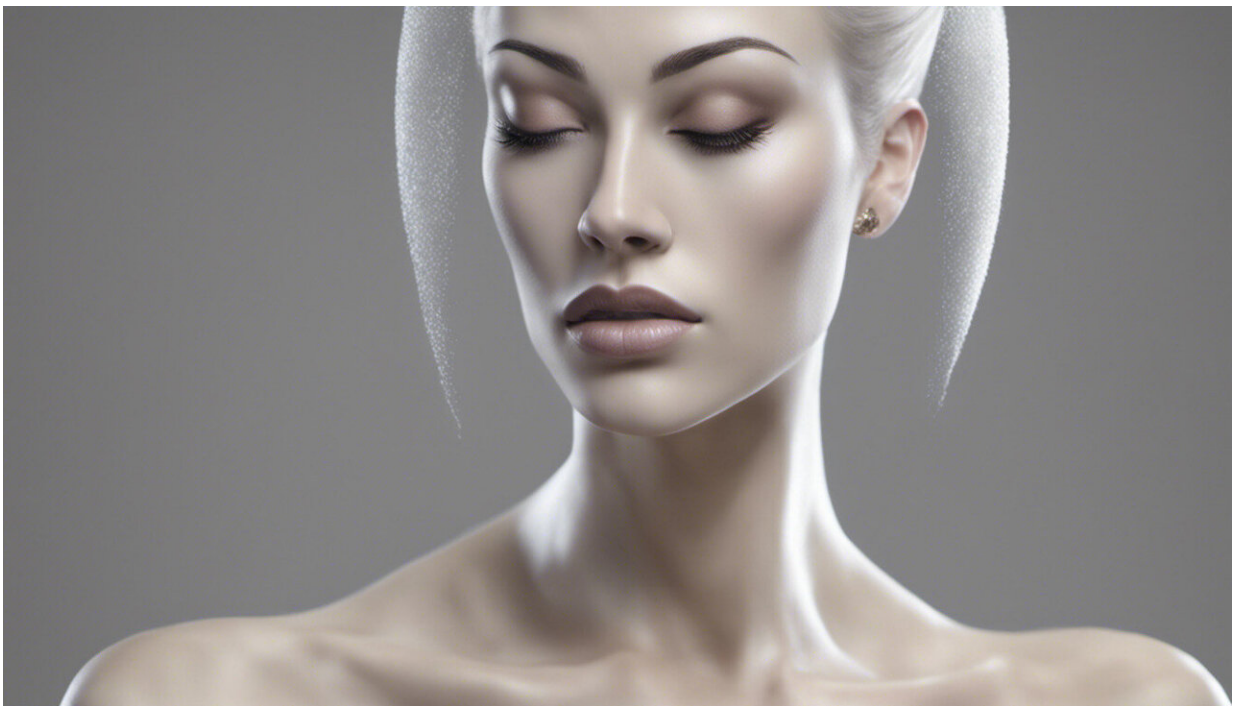


Women with undetected hypothyroidism earn 5% lower wages compared to women with no thyroid dysfunction

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Credit: AI-generated image ([disclaimer](#))

New research has found the adverse effects of thyroid dysfunction on labor market productivity could be a contributing factor to why women earn lower wages than men.

One in 20 people in the U.K. have a [thyroid](#) problem, with [women](#) six times more likely to suffer from the condition than men. Posing serious implications for the physical, mental and emotional life of those affected, thyroid patients are at greater risk of long-term sick leave and impairment of working ability.

While there is already evidence of the impact that [chronic diseases](#) have on various labor [market](#) outcomes, comparatively little is known about how thyroid dysfunctions influence the labor market prospects of those affected.

Released on World Thyroid Day (25 May), a study from researchers at the University of Aberdeen Business School has examined whether thyroid diseases, in particular hypothyroidism, contributes to [gender differences](#) in labor market outcomes and what difference diagnosis and treatment has on an individual's career prospects.

Using data from the U.K. Household Longitudinal Study, the largest survey of its kind which tracks information from 40,000 homes across the country, researchers were able to map changes in individuals before and after being diagnosed with thyroid conditions and compare them to those not affected.

The study, conducted using data covering a 10 year period (2009–2018), found that women who suffer from undetected hypothyroidism earn 5% lower wages compared to women with no thyroid dysfunction. Once hypothyroidism was diagnosed and treatment assumed to start, however, the data showed their wages to rise.

No similar effect was seen on men with thyroid disfunction.

The research also found women improved their employment prospects once hypothyroidism was diagnosed. However, thyroid disease does not

appear to play a significant role on an individuals' labor force participation decision and their working hours.

"Analysis shows that individuals do not change jobs, get promoted or change grades once diagnosed with thyroid issues, suggesting the estimated wage effects might be driven by productivity gains," said University of Aberdeen Professor Alexandros Zangelidis, co-author of the report.

"There have been many debates among [policy makers](#) in parliament in recent years highlighting problems with diagnosis and ongoing failures in the treatment of people with thyroid conditions.

"Thyroid dysfunction can easily be identified and, in most cases, treated. The analysis we carried out suggests that, if left undiagnosed, it can have a serious negative impact not only on the health and well-being of those concerned but also on their labor market prospects.

"It emphasizes the importance of being tested and the potential labor market benefits that can be achieved through [early diagnosis](#) and treatment. The fact that women are more affected by thyroid dysfunctions than men amplifies existing gender inequalities in the labor market and suggests another contributing factor for the [gender wage gap](#)."

Co-author Professor Catia Montagna, said: "This research has important implications for [public health](#), as it suggests that there may be potential productivity gains that could be achieved through the early detection and treatment of thyroid dysfunction.

"The findings call for a deeper understanding of the consequences of untreated borderline thyroid levels and subclinical cases. Any new evidence on what may contribute to the gender gap can potentially help

in formulating relevant policy interventions and initiatives in the labor market."

More information: The paper is available online:
[aura.abdn.ac.uk/bitstream/handle ... 6595E8D9C?sequence=1](https://aura.abdn.ac.uk/bitstream/handle/10785/6595E8D9C?sequence=1)

Provided by University of Aberdeen

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