

Welcome to our Annual Health Report 2023

We've crunched the data from thousands of customers and surveyed the UK public to bring you our health and wellness insights of 2023.

At a time when we can be more proactive about wellness than ever before, with countless personalisation and tracking options, we saw many positive signs of people taking control of their health.

Our attitudes to health survey showed many of us are investing in our health, despite increased living costs, and sales of our prostate cancer screening tests surged in reaction to celebrities sharing their diagnoses in the media.

We also highlight how the current financial squeeze may be costing our health, as we explore the decline in several key health biomarkers between 2021 and 2023.

As people continue to tighten their belts, one of this year's biggest trends could be finding ways to live well on a budget. At Medichecks, we'll continue to play our part by giving personalised health insights that have the potential to help people live longer, healthier lives.



Helen MarsdenDirector and Co-founder

Contents Year in review A breakdown of biomarker trends from 2023 The cost-of-living crisis **Attitudes towards** health in 2023 How do age and gender affect health mindsets? When celebrities speak How public figures have influenced PSA test sales The big menopause survey First-hand insights from women going through the change



A breakdown of biomarker trends from 2023



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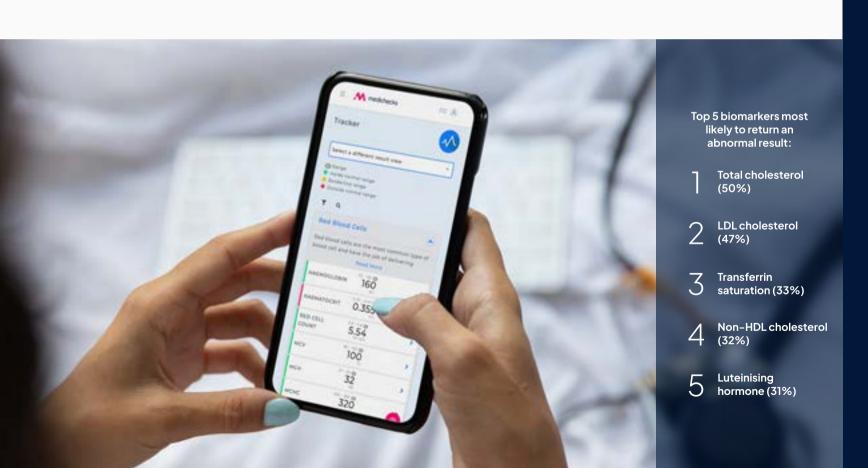
Data

Data is based on all Medichecks customer results from 2023. Exclusions from thi dataset include any failed samples and biomarkers lacking established reference ranges.

All data was accurate at the time of publication.
Percentage values have been rounded to the nearest integer

After crunching the numbers from thousands of customer results in 2023, we've discovered some interesting insights about the nation's health.

From cholesterol markers to sex hormones, it's clear that certain biomarkers are more challenging to keep in check.



Abnormal Tlevels

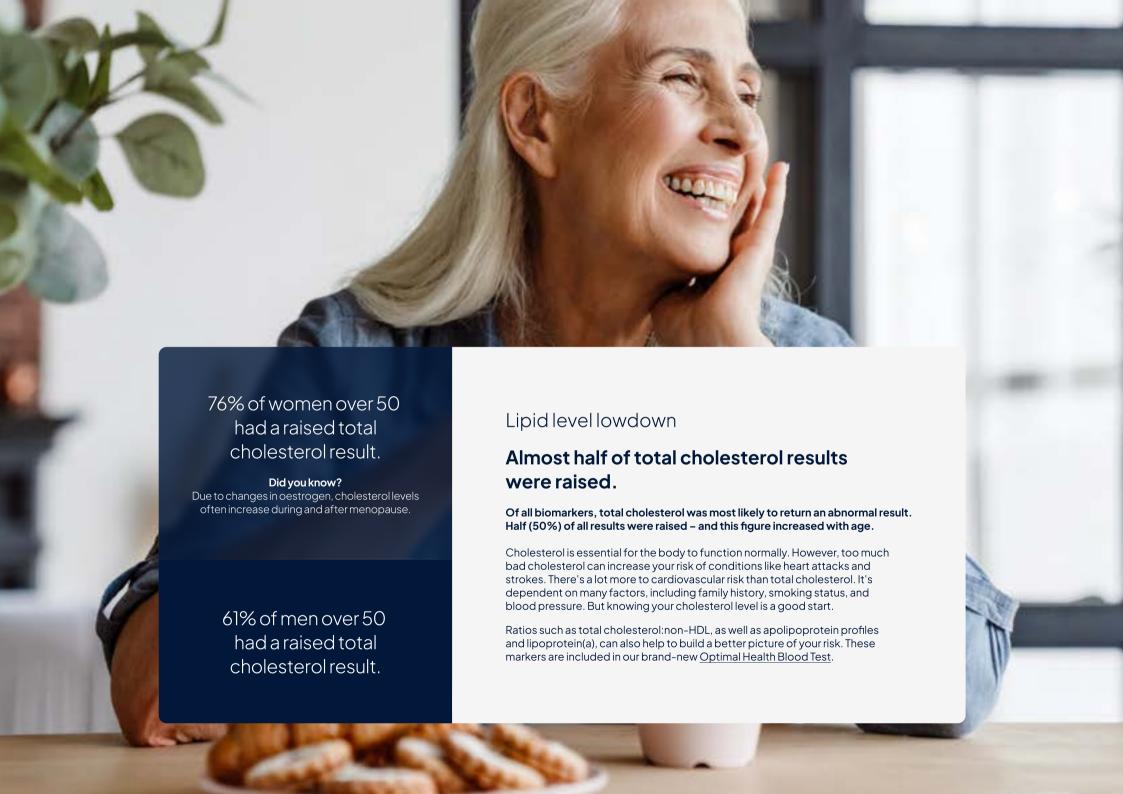
One in four men and women had an abnormal testosterone result.

Over a quarter of men (26%) had a total testosterone result outside the normal range. And a third (33%) had an abnormal free testosterone result.

Testosterone supplementation and anabolic steroid use may have skewed these results, but it could also reflect the population-level decline in this hormone.

Testosterone levels are thought to be declining by about 1% every year on average in men.

But it's not just a male hormone. Testosterone plays a crucial role in women too in maintaining bone density, muscle strength, libido, mood, and energy. We found that a similar proportion of women's total testosterone results (26%) were also abnormal. Conditions like polycystic ovary syndrome (PCOS), taking hormone replacement therapy, and getting older can all affect testosterone levels.



Female trends, ironed out

More than one in three young women had an abnormal transferrin saturation result.

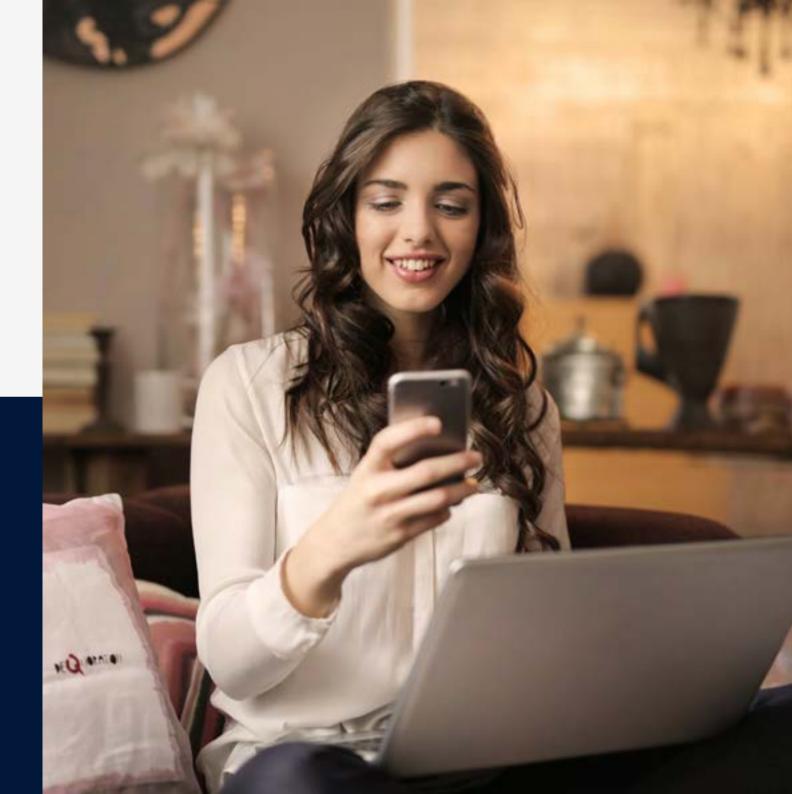
For women aged 18-45, transferrin saturation was abnormal in over a third of cases (38%).

A low transferrin saturation result most often points to an iron deficiency, of which there are many potential causes. Women are more likely to have low iron than men due to periods and pregnancy.

Sweet 60s

Nearly one in five customers over 60 had a raised HbA1c result.

HbA1c is an indicator of blood sugar control over approximately three months. Our results showed that 19% of people over 60 had a raised HbA1c result which usually indicates prediabetes or diabetes itself.



Low D in the land of tea

Vitamin D deficiency was one of the most common nutrient deficiencies.

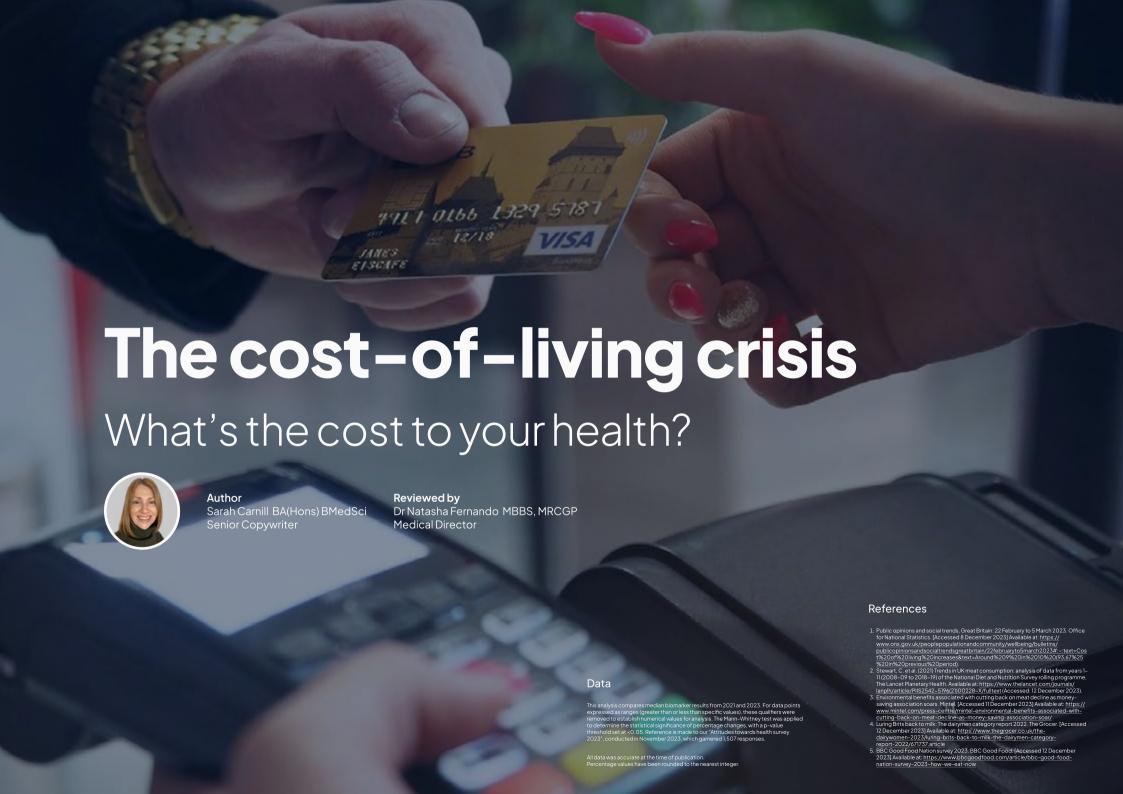
It's perhaps no surprise that many Brits don't quite get enough of the sunshine vitamin. We found that 20% of vitamin D results were abnormal, which can have significant health implications. Vitamin D helps to regulate our mood, immune system, and energy levels.

Experts recommend that everyone takes a vitamin D supplement throughout the autumn and winter months in the UK.

Down on vitamin D

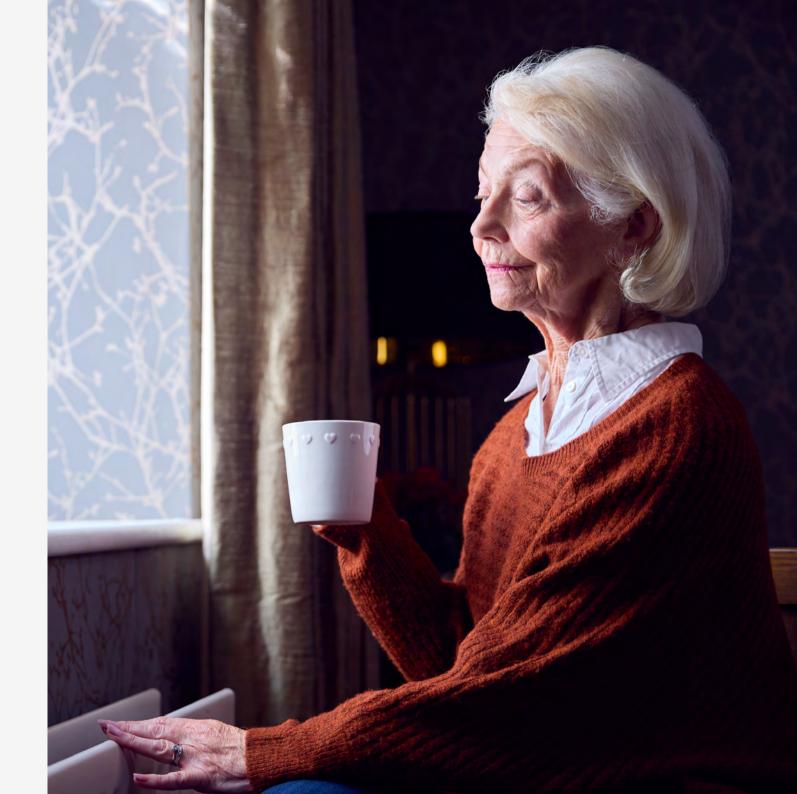
1 in 5 vitamin D results were abnormal in 2023.



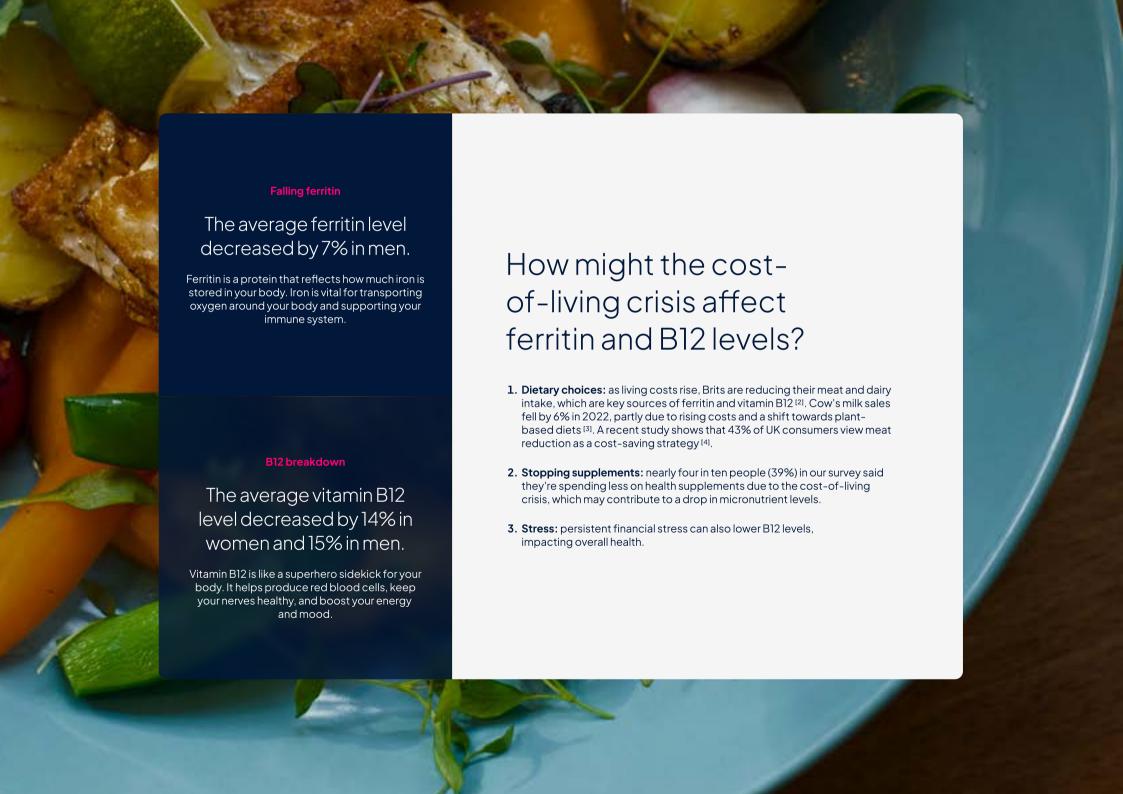


In 2023, 93% of Brits reported increased living costs [1].
And it seems that rising energy, housing, and food prices are not just straining budgets but may also be impacting our health.

Our analysis showed a decline in key health biomarkers like vitamins, minerals, and cholesterol between 2021 and 2023, and it's possible the financial crisis has played a part. Let's delve into these critical findings.







5 tips for eating well on a budget

- 1. Plan your meals ahead and cook from scratch eating at home also gives you more control over ingredients than eating out and takeaways.
- 2. Buy in bulk and freeze food frozen fruit and veggies can retain just as many nutrients as fresh ones.
- 3. Love your legumes legumes such as chickpeas and lentils are excellent (but inexpensive) sources of protein, iron, and vitamin B12.
- **4. Buy seasonal produce** it's not only fresher, it's usually cheaper too.
- **5. Snap up cafe and restaurant leftovers –** when you fancy a treat, you can grab delicious food at a hefty discount on apps like Too Good To Go.

3 ways to break a sweat without breaking the bank

- Embrace the great outdoors enjoy outdoor workouts in your local park, or try Couch to 5K or Parkrun.
- Use DIY weights upcycle your way to stronger muscles at home, using water bottles, tins, or a packed rucksack for a cost-free resistance workout.
- **3. Use YouTube, your new personal trainer –** access hundreds of workouts, from yoga to HIIT each with a fitness guru to guide you.





Men's and women's attitudes towards health in 2023

How do age and gender affect health mindsets?



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Dat

Based on 1,507 responses to our "Attitudes towards health 2023 survey which ran in November 2023.

All data was accurate at the time of publication. Percentage values have been rounded to the nearest integer. References

1. Lobstein T, Jackson-Leach R, Powis J, Brinsden H, Gray M. 2023. Available from: https://www.worldobesity.org/resources/resource-library/world-obesity-atlas-2023

Our health is affected by our individual set of beliefs, priorities, and experiences•

We decided to explore the impact of age and gender on current UK health perspectives in our attitudes towards health survey.

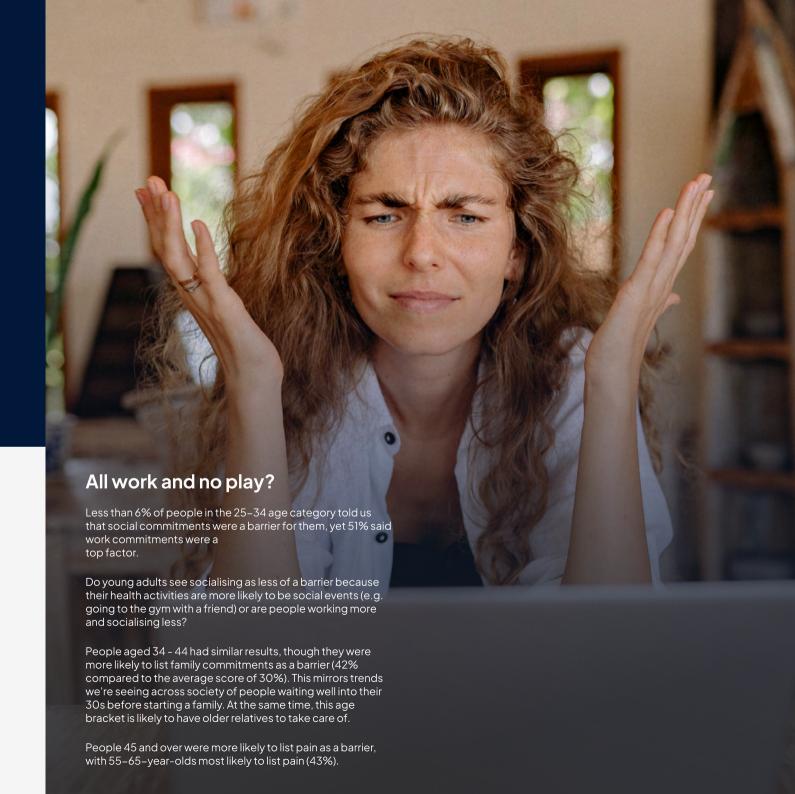
Now let's unpack the 1,507 responses.

A lack of motivation is preventing us from prioritising our health.

Work, affordability, and even pain or injury didn't hold us back quite as much in 2023 as lack of motivation.

Nearly half of people (47%) listed lack of motivation as a factor that impacts how much they prioritise their health. This figure rose among 25 - 34-year-olds, with 60% of this cohort listing it as a factor.

So what's causing this lack of motivation?



The top health concerns of 2023 were energy or mental health-related - regardless of age or gender.

People were twice as likely to select feeling tired as a health concern as being overweight, despite over 38% of the world's population being overweight or obese ^[1]. Are we prioritising how we feel rather than what we see on the scales?

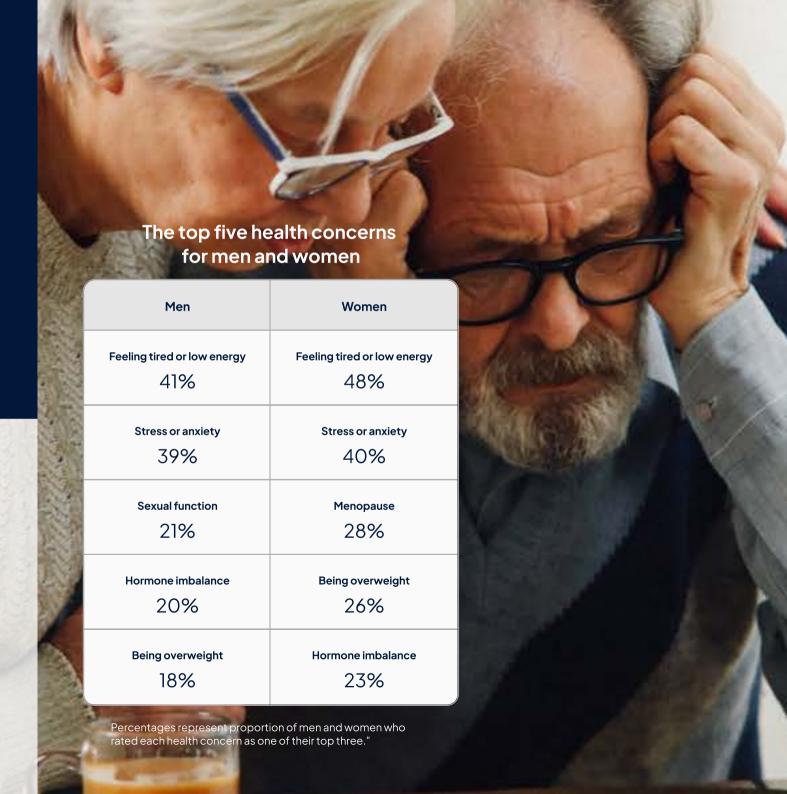
The second most common health concern was stress or anxiety, with 39% of people selecting it, which was reported twice as often as physical illness

Men vs women

Sexual function featured in men's top five, whereas menopause featured for women.

Our findings were pretty consistent across ages, though people under 45 were more likely to be concerned by a poor diet, which may be due to a lack of time, money, or confidence in the kitchen.

More than one in five men listed sexual function as one of their top health concerns.



Hey big spenders!

One in ten people spent over £200 on their health on things like gym memberships, superfoods, and health tests. That's even despite the pinch of the financial crisis.

People aged 25 to 54 spent the most on their health. And nearly a third (33%) of people in the 25-34 age bracket shelled out over £100 a month.

People aged 65 and over were likely to spend the least on their health, with 41% spending £25 a month or less.



Feel-good findings.

Three-quarters of women are up to date with health checks

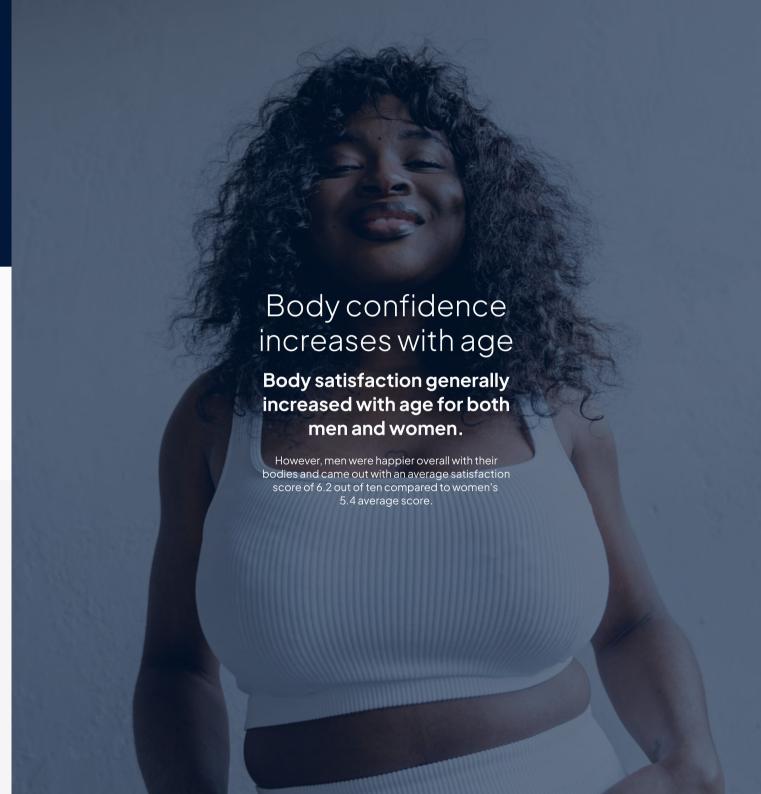
There isn't much more to say other than keep up the good work! Men, you have more room for improvement as 57% of men told us they were up to date – so please talk to a doctor to see what's available.

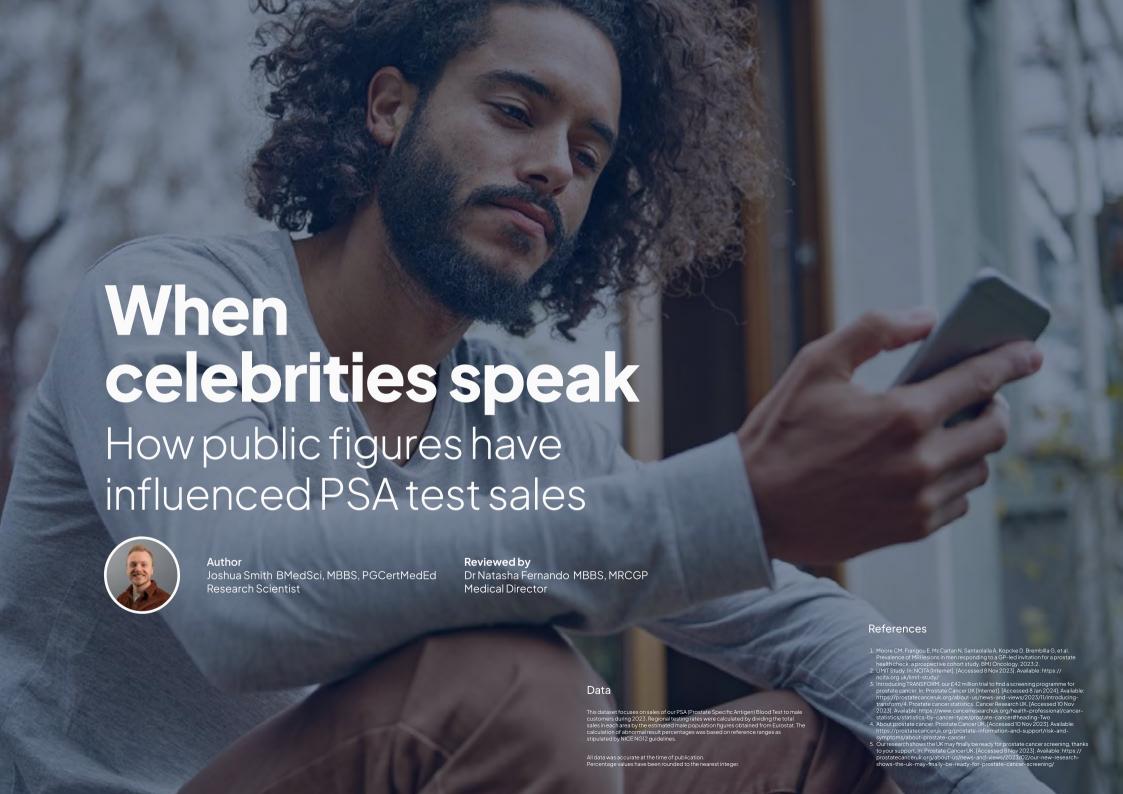
Let's par-tee-total!

Nearly half (48%) of people said they don't drink alcohol – at all! This percentage rose to 54% in the under-45s categories.

Limiting or abstaining from alcohol can help to prevent some lifestyle-related diseases and help keep organs functioning at their best.

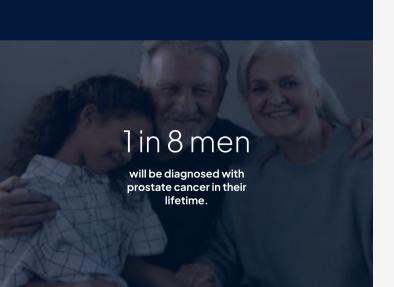
The age group most likely to drink more than the recommended intake was people 65 and over, with 12% consuming more than 14 units a week.





Demand for prostate cancer screenings surge in line with media focus

Last year, a wave of familiar faces bravely shared their prostate cancer journeys in the media spotlight, and the public didn't just listen - they acted.



Public figures driving the prostate cancer conversation in 2023



Paul

In January, Paul opened up about his diagnosis of prostate cancer in an episode of Lorraine.

The former butler of Princess Diana had a blood test for a TV show in 2022, which revealed high levels of PSA. A follow-up MRI scan revealed prostate cancer.



Colin McFarlane

In June actor and voice artist. Colin McFarlane spread a heartfelt message for Men's Health Week and Father's Day. He and his brother were both diagnosed with prostate cancer in the same year with no symptoms.

The condition was picked up through regular PSA testing.



Owen

The respected broadcaster shared his diagnosis of prostate cancer in early August.

Aged 75, Owen had

surgery in April and has since urged other men to get tested. His announcement triggered a ten-fold spike in Prostate Cancer UK's risk checker tool.



Andy Taylor

In August, Duran Duran's original quitarist was in the news after starting a radioactive treatment. Lutetium-117. extending his life expectancy.

shared his diagnosis of stage four prostate cancer in 2022.



Turnbull

The BBC presenter. Bill Turnbull died on 31st August 2022. aged 66, following a long battle with prostate cancer.

His death continues to have a considerable The 62-year-old had impact, with a spike in prostate cancer referrals around the same date in 2023.



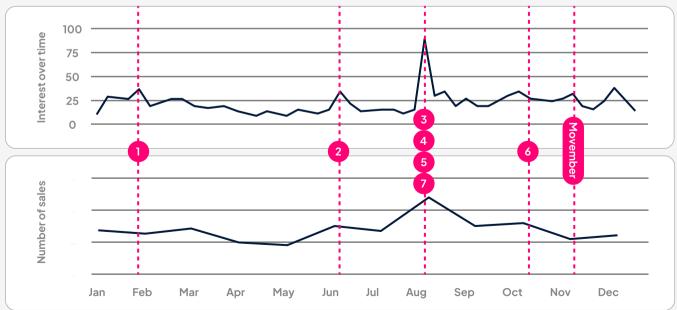
Steve

Sports presenter, Steve Rider, revealed on BBC breakfast that he was receiving treatment for prostate cancer and encouraged other men to get checked.

Alfie Moon (Eastenders)

Eastenders aired a new prostate cancer storvline in August 2023, which saw Alfie Moon (played by Shane Richie) diagnosed with prostate cancer.

Interest in "PSA tests" on Google Trends



Sales of Medichecks PSA Blood Tests

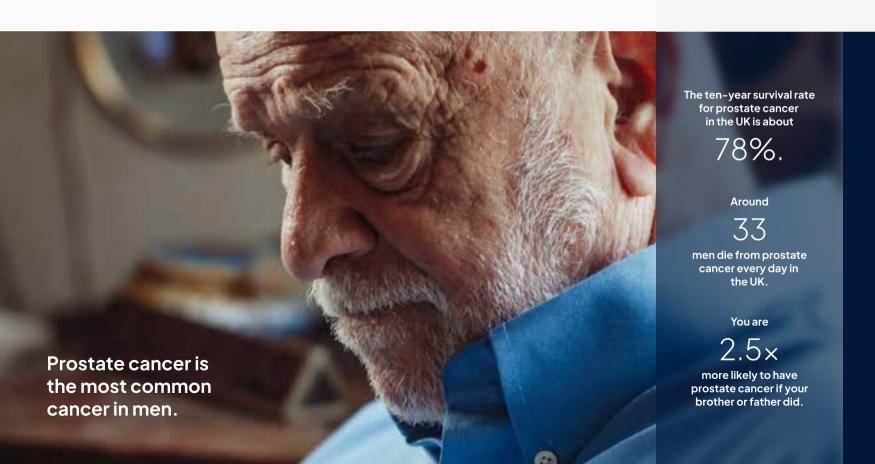
A surge in PSA testing•

The media's spotlight on prostate cancer sparked conversation and spurred action.

Sales of our PSA (Prostate Specific Antigen) Blood Test markedly increased in August 2023. We sold 1.9 times as many PSA tests compared to November 2023, typically our best-selling month due to Movember initiatives. Why is there no prostate cancer screening programme in the UK?

The UK doesn't currently have a national PSA screening programme as the PSA test alone isn't reliable enough to detect prostate cancer that needs treatment.

The REIMAGINE study found over half of men with a positive MRI and serious prostate cancer had a low PSA result ^[1], which shows the importance of research into using technology like MRI scans alongside PSA testing.



Testing rates by location.

Men in the West Midlands were 1.9 times more likely to take a Medichecks PSA Blood Test in 2023 than men in London.

Populations with the lowest testing rates (percentage of male population who took a Medichecks PSA Blood Test) included London, Northern Ireland, and Scotland.

Differences may be due to socioeconomic factors, population demographics, cultural differences, accessibility to testing, and attitudes towards prostate cancer screening.

What's next for prostate cancer screening?

The LIMIT trial aims to investigate the feasibility of community-based prostate cancer screening using a portable MRI scanner in a travelling van [2]. The hope is that this five-minute scan will increase accessibility to men who would otherwise not be scanned. If successful, larger-scale trials would be necessary before this type of screening is rolled out.

In November 2023, Prostate Cancer UK announced the launch of their £42 million TRANSFORM trial [3]. The study will compare the most promising tests and provide more definitive evidence for the best way to screen for prostate cancer.

Studies like this are paving the way for a national screening programme, which might soon become a reality.

Who is most at risk of prostate cancer?

In the UK, one in eight men will be diagnosed with prostate cancer in their lifetime. Some men are more at risk than others.

Risk factors for prostate cancer include:

- **Age** the risk increases if you're over 50.
- Ethnicity rates of prostate cancer are higher among black men.
- Family history you're at greater risk if you have a firstdegree relative with prostate cancer.

Check your risk in 30 seconds.

Percentage of raised PSA results according to age

18 - 50 years

4%

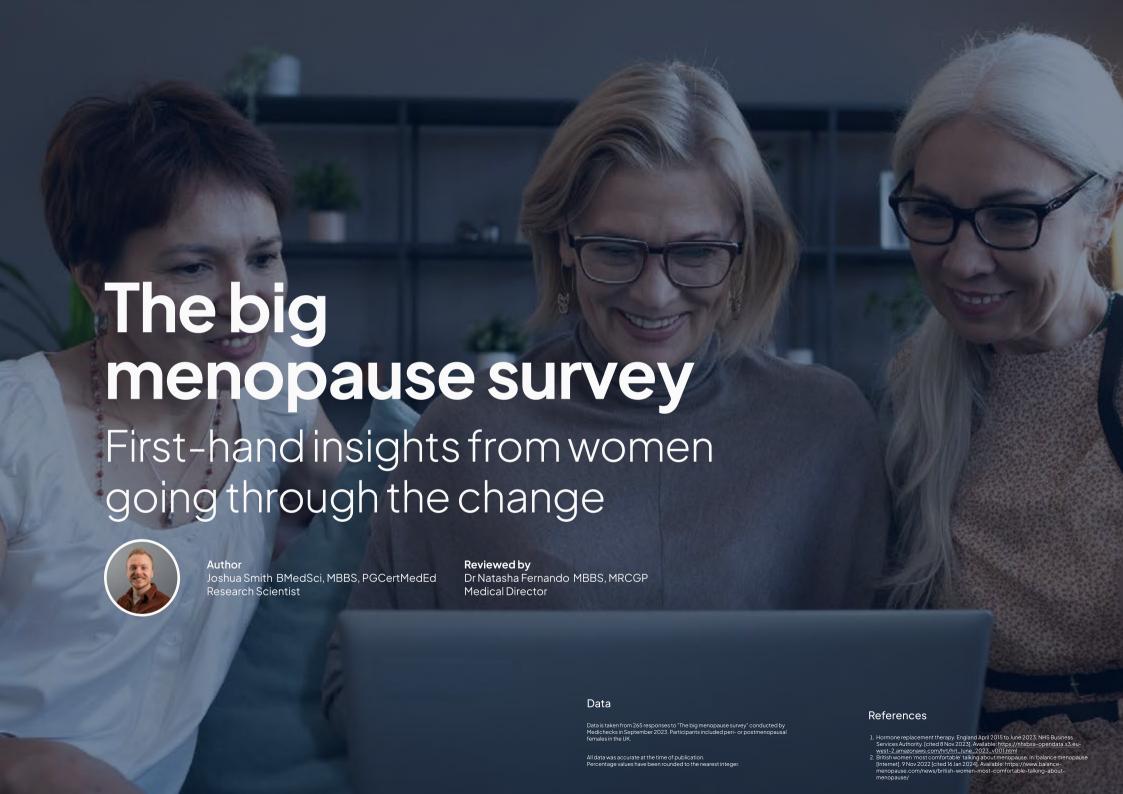
51 - 60 years

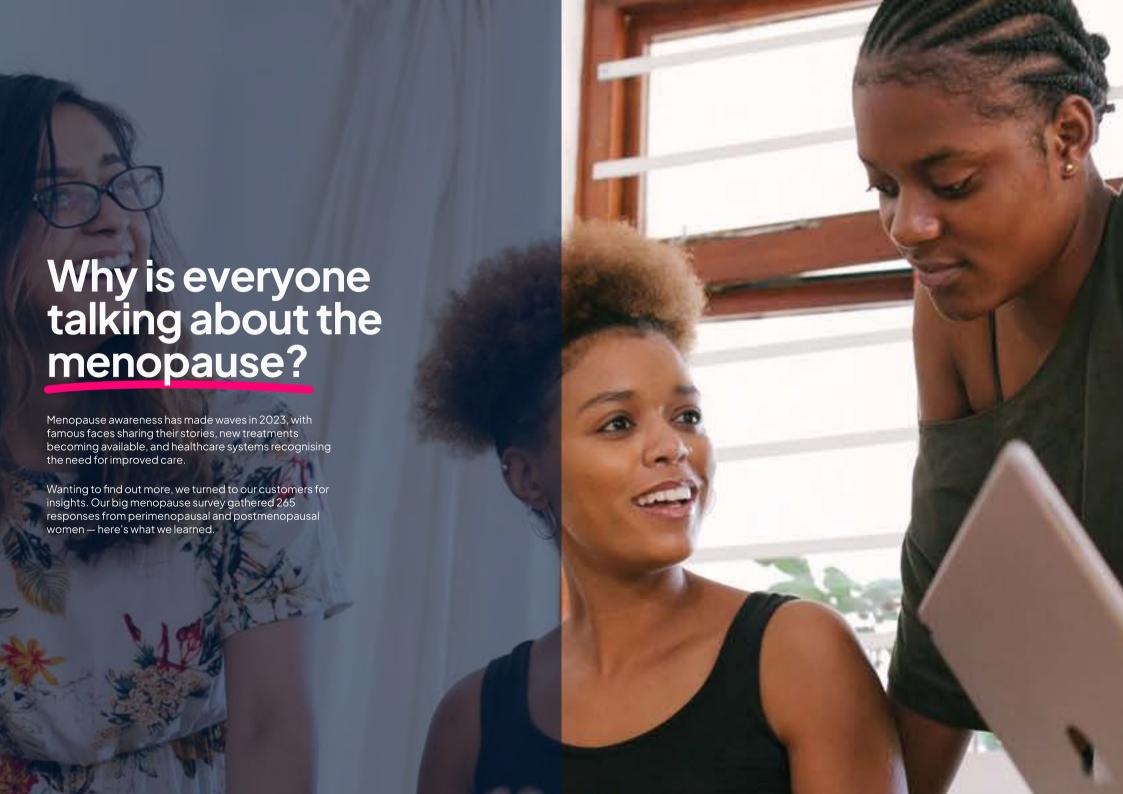
7%

> 60 years

17%







Symptoms of menopause•

It's commonly stated around 80% of women experience symptoms of menopause.

Yet 98% of the women we surveyed had symptoms and 67% of women experienced at least one atypical symptom.

5 most common symptoms.

- 1. Brain fog or memory problems
- 2. Tiredness or low energy
- 3. Joint pain or stiffness
- 4. Difficulty sleeping
- 5. Hot flushes

5 most common atypical symptoms.

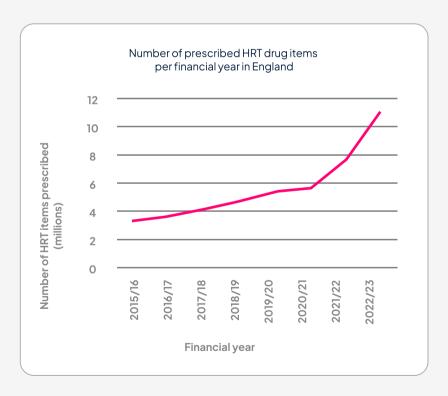
- 1. Formication (sensation of bugs crawling over the skin)
- 2. Dental problems
- 3. Increased body odour
- 4. Numbness of the extremities
- 5. Altered spatial awareness



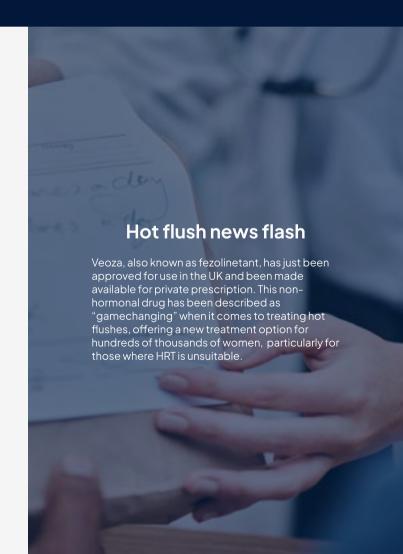
2023: the year HRT prescriptions soared

More than 11 million HRT items were prescribed in England in 2022/23 — that's a 47% increase compared to 2021/22 [1].

Rising demand led to shortages in HRT treatments like Utrogestan®. The surge has been put down to the "Davina effect" and wider awareness around menopause.



Graph adapted from NHS Business Services Authority [1].

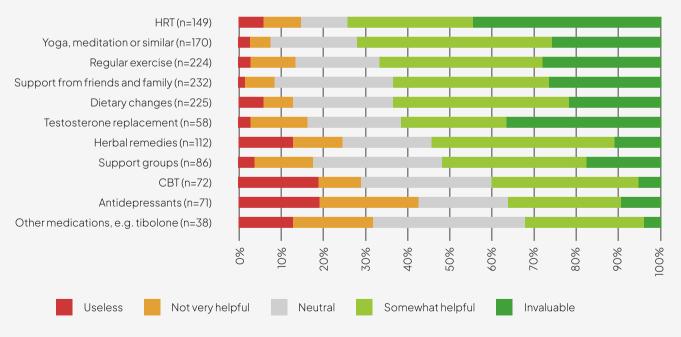


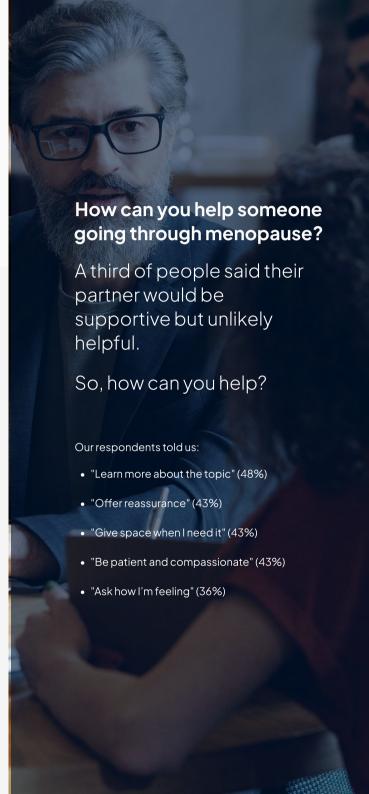
Voices of experience

What truly works according to women going through the change.

Menopause is a unique and individual experience – what works for some women might not work for you. However, we found that some treatment strategies, such as HRT and lifestyle changes, were particularly effective for many women.

Which management techniques were most effective?





Missed our webinar?

Dr Clare Spencer (My Menopause Centre) and Dr Natasha Fernando (Medichecks) discuss how to manage low libido, cardiovascular risk, sleep problems, and much more.

Watch our webinar

Still a way to go

While menopause is finally getting the increased attention it deserves, the journey is far from over.

72% attended their GP to discuss menopause.
Of these women, 36% said they had a poor experience and didn't get the help they needed.

57% still felt there was a stigma attached to talking openly about menopause.

76% didn't think there was enough support available for people going through menopause.

48% of women didn't feel their workplace offered adequate support around menopause



Where to learn more

We asked women to share their favourite and most helpful sources of information on menopause.

Here's what they came up with.

Websites

- British Menopause Society
- Postcards from Midlife
- My Menopause Centre
- Menopause Matters

Apps

• Balance app by Louise Newson

TV Programmes

- Davina McCall: Sex, Mind, and the Menopause
- The Truth About Menopause with Mariella Frostrup

Books

- Owning Your Menopause Kate Rowe-Ham
- The Happy Menopause: Smart Nutrition To Help You Flourish - Jackie Lynch
- The Wisdom of Menopause: Creating Physical and Emotional Health During the Change - Christiane Northrup
- Hormone Repair Manual: Every Woman's Guide to Healthy Hormones After 40 Lara Briden
- Second Spring: The ultimate self-care guide to help you through menopause - Kate Codrington

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