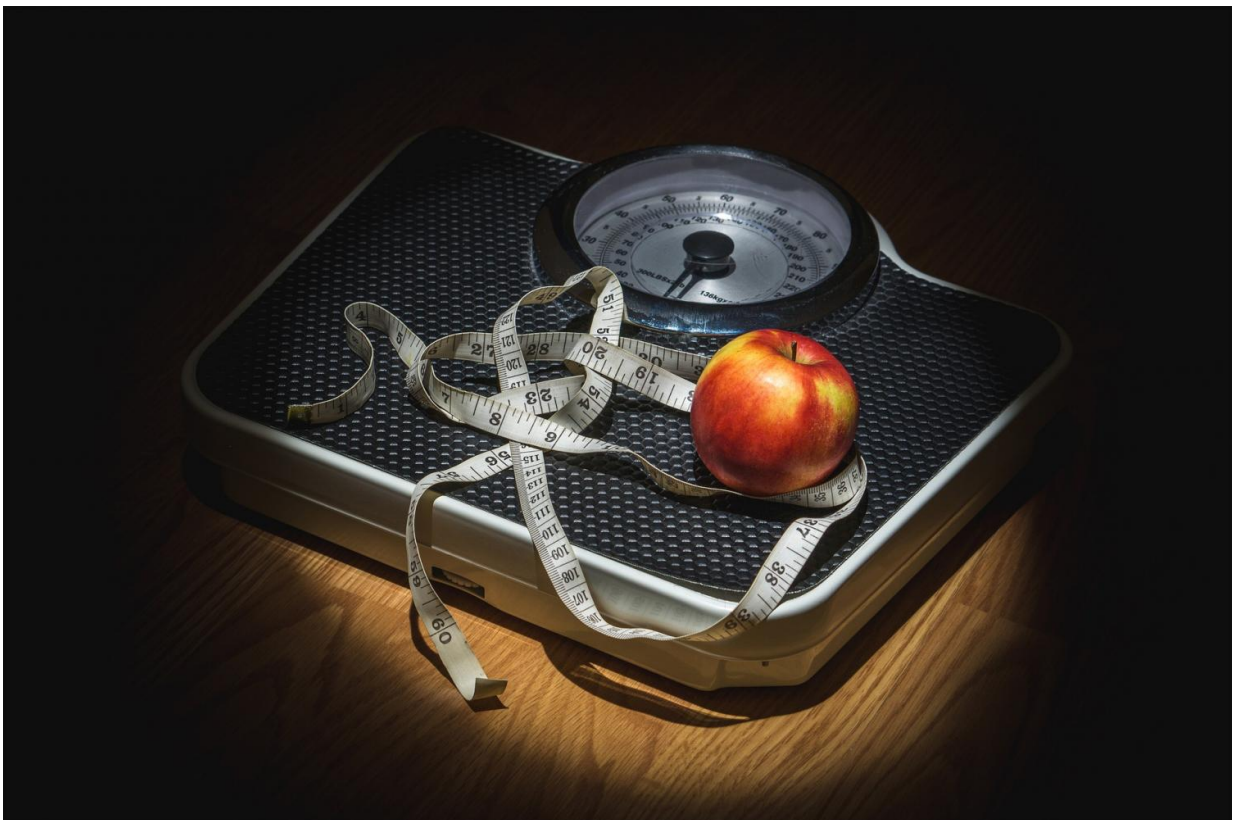


UK obesity levels among the worst in Europe—heart disease statistics from more than 45 countries

November 27 2017



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A decline in deaths from heart attack and stroke in high income countries could be threatened by rising rates of obesity and diabetes,

according to a study from the European Society of Cardiology with a leading contribution from Barts Heart Centre, Queen Mary University of London (QMUL).

The study also finds that the UK is lagging behind many lower income countries in some aspects of [heart disease](#) prevention.

The European Society of Cardiology (ESC) study involved researchers from the UK (QMUL, University of Leeds, University of Oxford, University of East Anglia), Netherlands, Belgium and Portugal, and analysed cardiovascular disease statistics for 56 member countries. The countries not only include European nations but also some former Soviet states, North Africa and parts of the Middle East.

Published in the *European Heart Journal*, their analysis shows that huge inequalities persist with heart disease accounting for over 50 per cent of all deaths in many [middle income countries](#), compared with less than 30 per cent in the high income countries of Western Europe.

Just under half of the middle income countries saw an increase in disease prevalence over the last 25 years, unlike high income countries where there have been small but consistent declines.

Hypertension was more prevalent in middle income countries, and while smoking is in decline across member countries, over 40 per cent of men in middle income countries smoke, compared with around 30 per cent in high income countries.

The statistics reveal that while the UK performs well in some aspects of heart disease prevention, it is doing comparatively badly in terms of others. The UK has:

- the highest prevalence of adult obesity in males (26.9 per cent of

the population, compared to an average of 21.4 per cent amongst 47 countries), and the 2nd highest prevalence of obesity in females (29.2 per cent of the population, compared to an average of 22.9 per cent).

- one of the highest levels of mean total blood cholesterol concentration, ranking joint 3rd for both males and females out of 47 countries.
- the joint 5th (with Ireland) highest prevalence of raised blood cholesterol (6.2mmol/L) at 21.7 per cent of population, compared to an average of 16.3 per cent amongst 47 countries.
- the joint 4th highest body mass index (BMI) for males (27.5 kg/m² compared to an average of 26.8 kg/m² amongst 47 countries) and 7th highest BMI for females (27.1 kg/m² compared to an average of 25.8 kg/m²).
- the 10th highest prevalence of heavy episodic drinking in the past 30 days, affecting 27.1 per cent of the population, compared to an average 19.1 per cent amongst 47 countries.
- the 3rd highest prevalence of insufficiently active adults, at 40 per cent of the population, compared to an average of 26.5 per cent amongst 36 countries.

However, the UK has the lowest prevalence of raised blood pressure at 15.2 per cent of the population, compared to an average of 24.2 per cent amongst 47 countries, and prevalence of smoking is among the lowest in Europe. This contributes to the UK's position in the lower half of the cardiovascular mortality rankings for ESC member countries.

Lead author Dr Adam Timmis from Barts Heart Centre, QMUL, said: "Heart disease still remains the leading cause of death for middle income countries, while declines in high-income countries mean that cancer deaths have now become more common there. But this downward trend for high-income countries is being threatened by the emerging obesity epidemic that is seeing rates of diabetes increase almost everywhere.

"Interestingly, the figures show that [heart](#) disease is as much of a problem for women as for men, as we see that more are dying than before. This is especially the case for younger women, and these deaths are largely preventable through lifestyle changes."

The authors warn the limitations that apply to the quality, precision and availability of the data demand cautious interpretation.

More information: "European Society of Cardiology: Cardiovascular Disease Statistics 2017" *European Heart Journal* (2017). [DOI: 10.1093/eurheartj/ehx628](#)

Provided by Queen Mary, University of London

Citation: UK obesity levels among the worst in Europe—heart disease statistics from more than 45 countries (2017, November 27) retrieved 19 April 2024 from <https://medicalxpress.com/news/2017-11-uk-obesity-worst-europeheart-disease.html>

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