

Leave the car at home for a healthier daily commute, say experts

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Commuting to work by active (walking or cycling) and public modes of transport is linked to lower body weight and body fat composition compared with those using private transport, suggests a UK study published in *BMJ* today.

The researchers point out that the benefits were similar for both active (walking and cycling) and public transport, which may have important implications for transport and [health policy](#).

The health benefits of physical activity are well known, and studies suggests that active commuters are at lower risk of being overweight. However, self-reported measures of weight are prone to bias, especially in adults, and there is a lack of good evidence linking active commuting with objective measures of obesity.

So a team of researchers from the London School of Hygiene & Tropical Medicine and UCL set out to investigate the relationship between active commuting and two known markers for obesity - body mass index (BMI) and percentage [body fat](#).

They analysed 7,534 BMI measurements and 7,424 percentage body fat measurements from men and women taking part in Understanding

Society, the United Kingdom Household Longitudinal Study - a large, nationally representative dataset.

A total of 76% of men and 72% of women commuted to work by private motorised transport, 10% of men and 11% of women reporting using public transport, while 14% of men walked or cycled to work compared with 17% of women. Overall BMI score for men was 28 and 27 for women.

Generally, a BMI of 18.5 to 24.9 indicates optimal weight, a BMI lower than 18.5 suggests the person is underweight, a number above 25 may indicate the person is overweight, and a number above 30 suggests the person is obese.

Compared with using [private transport](#), commuting by public and active modes significantly and independently predicted lower BMI and healthier body composition, for both men and women.

Men who commuted via public or active modes had BMI scores around 1 point lower than those who used private transport, equating to a difference in weight of 3kg (almost half a stone) for the average man.

Women who commuted via public or active transport had BMI scores around 0.7 points lower than their private transport using counterparts, equating to a difference in weight of 2.5kg (5.5lb) for the average woman.

Results for percentage body fat were similar in size and significance. And the associations remained after adjusting for several potentially confounding factors, such as age, presence of a limiting illness or disability, monthly income, social class, level of physical activity in the workplace and diet.

The researchers say these differences are "larger than those seen in the majority of individually

focused diet and [physical activity](#) interventions to prevent overweight and obesity."

They point out that although their study was large, no firm conclusions can be drawn about direct cause and effect. However, they say the use of [public transport](#) and walking and cycling in the journey to and from work "should be considered as part of strategies to reduce the burden of obesity and related health conditions."

And they suggest that further research "is required in order to confirm the direction of causality in the association between active commuting and body weight".

In an accompanying editorial, researchers from Imperial College London say there is an increasing interest in persuading the public to drive less and to walk and cycle more to achieve health, [transport](#), and environmental policy objectives. Unfortunately, they point out that [active commuting](#) has declined steadily in most high income countries since the mid-20th century as car ownership has grown.

They say, given the political sensitivity around policy measures that discourage use of cars, "it is crucial that the public health community, including healthcare professionals, provide strong and consistent messages to politicians and the public which frame these measures as positive public health actions."

More information: Paper:

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