

Pressemitteilung

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Young adults at highest risk of weight gain

Young adults aged 18 to 24 are at the highest risk of becoming overweight or developing obesity in the next decade of their life compared to adults in any other age group, and obesity prevention policies should target this group, according to a new study led by researchers at the Berlin Institute of Health at Charité –Universitätsmedizin Berlin (BIH) at UCL, and the University of Cambridge.

The study, published in The Lancet Diabetes & Endocrinology, found that being a young adult is a more important risk factor for weight gain than sex, ethnicity, geographic region, or socioeconomic area characteristics. The risk of gaining weight is not only highest in the youngest adult age group, but it steadily decreases with age.

Data of two million adults

The researchers looked at anonymised primary care health records from more than 2 million adults (with more than 9 million measurements of BMI and weight) in England between 1998 and 2016 to investigate the risk of weight changes at different ages and among different groups.

They found that people aged 18 to 24 were four times more likely to become overweight or develop obesity over the next 10 years than those aged 65 to 74. Young adults classed as overweight or obese were also more likely to move to a higher BMI category (from the overweight category to obesity or from non-severe obesity to severe obesity) than those classed as overweight or with obesity in any other age group.

Online Calculator for risk of weight change

The authors provide the public (for the first time) an online tool to calculate their risk of weight change over the next 1, 5, and 10 years based on an individual's current weight and height, age, sex, ethnicity and socioeconomic area characteristics. The online tool is available at http://bmi.caliberresearch.org/

Covid-19 pandemic collides with the obesity pandemic

Speaking about the online tool, co-senior author Professor Harry Hemingway (UCL Institute of Health Informatics and BIH Fellow) said: "Calculating personal risk of transitioning to a higher weight category is important as the Covid-19 pandemic collides with the obesity pandemic: people are exercising less and finding it harder to eat healthy diets during lockdowns."

Lead author Dr Michail Katsoulis (UCL Institute of Health Informatics) said:

"Our results show clearly that age is the most important sociodemographic factor for BMI change. Young people aged 18 to 24 have the highest risk of BMI gain, compared to older people. We also found that among individuals with obesity,



those aged between 35 and 54 had the highest risk of not losing weight compared to other adults."

Life Changes as risk factors

Co-senior author Professor Claudia Langenberg (MRC Epidemiology Unit, University of Cambridge, and Berlin Institute of Health) said: "Young people go through big life changes. They may start work, go to university or leave home for the first time – the habits they form in these years may stick through adulthood. If we are serious about preventing obesity, then we should develop interventions that can be targeted and are relevant for young adults."

In the study, the risks of moving to a higher BMI category over 10 years were 4-6 times higher in the youngest (18–24 years) than the oldest (65–74 years) age group. People aged 18-24 were 4.2 times more likely than people aged 65-74 to transition from normal weight to overweight/obesity, were 4.6 times more likely to transition from the overweight category to obesity and 5.9 times more likely to move from non-severe obesity to severe obesity. The link between sociodemographic factors such as deprivation and ethnicity and these transitions was less pronounced.

Only small effect of social deprivation on risks of weight gain

For example, the risk of transitioning from overweight to obesity over 10 years for white men with a BMI of 26 (weight 87kg, height 1.82m) varies substantially according to age: the risks are 40%, 25%, 22%, 18%, 13% and 10% for individuals aged 18-24, 25-34 35-44, 45-54, 55-64 and 65-74 years respectively. The researchers were surprised to see only a small additional effect of social deprivation on risks of weight gain. In the example above, the risk of the youngest men living in the most deprived areas was 44% compared to 40% in average areas).

The study used data from 400 primary care centres. Participants were aged 18 to 74 and had had their weight and BMI measured at their general practice on more than one occasion between 1998 and 2016. Researchers looked at changes in BMI after one year, five years and 10 years, calculating the likelihood of moving between weight categories (underweight, normal weight, overweight, obese) at different ages and in different groups.

New prevention ways needed

Professor Hemingway said: "Health systems, like the NHS, need to identify new ways to prevent obesity and its consequences. This study demonstrates that NHS data collected over time in primary care holds an important key to unlocking new insights for public health action."

Originalpublikation:

Michail Katsoulis, Alvina G Lai, Karla Diaz-Ordaz, Manuel Gomes, Laura Pasea, Amitava Banerjee, Spiros Denaxas, Kostas Tsilidis, Pagona Lagiou, Gesthimani Misirli, Krishnan Bhaskaran, Goya Wannamethee, Richard Dobson, Rachel Batterham, Dimitra-Kleio Kipourou, R Thomas Lumbers, Lan Wen, Nick Wareham, Claudia Langenberg, Harry Hemingway, "Identifying adults at high-risk for change in weight and BMI in England: a longitudinal, large-scale, population-based cohort study using electronic health records", will be published in The Lancet Diabetes & Endocrinology on Thursday 2 September, 23:30 UK time and is under a strict embargo until this time.

URL zur Pressemitteilung: https://www.youtube.com/watch?v=4JefRvdHSqs The authors provide a You Tube video explaining the findings

URL zur Pressemitteilung:

https://www.bihealth.org/en/notices/risiko-fuer-gewichtszunahme-bei-jungen-erwachsenen-besonders-hoch

(idw)



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