

Don't use body mass index to determine whether people are healthy, study says

February 4 2016



UCLA's A. Janet Tomiyama. Credit: A. Janet Tomiyama

Over the past few years, body mass index, a ratio of a person's height and weight, has effectively become a proxy for whether a person is considered healthy. Many U.S. companies use their employees' BMIs as



a factor in determining workers' health care costs. And people with higher BMIs could soon have to pay higher health insurance premiums, if a rule proposed in April by the Equal Employment Opportunity Commission is adopted.

But a new study led by UCLA psychologists has found that using BMI to gauge <u>health</u> incorrectly labels more than 54 million Americans as "unhealthy," even though they are not. The researchers' findings are published online today in the *International Journal of Obesity*.

"Many people see obesity as a death sentence," said A. Janet Tomiyama, an assistant professor of psychology in the UCLA College and the study's lead author. "But the data show there are tens of millions of people who are overweight and obese and are perfectly healthy."

The scientists analyzed the link between BMI—which is calculated by dividing a person's weight in kilograms by the square of the person's height in meters—and several health markers, including blood pressure and glucose, cholesterol and triglyceride levels, using data from the most recent National Health and Nutrition Examination Survey.

The study found that close to half of Americans who are considered "overweight" by virtue of their BMIs (47.4 percent, or 34.4 million people) are healthy, as are 19.8 million who are considered "obese."

Given their health readings other than BMI, the people in both of those groups would be unlikely to incur higher medical expenses, and it would be unfair to charge them more for health care premiums, Tomiyama said.

Among the other findings:

• More than 30 percent of those with BMIs in the "normal"



range—about 20.7 million people—are actually unhealthy based on their other health data.

• More than 2 million people who are considered "very obese" by virtue of having a BMI of 35 or higher are actually healthy. That's about 15 percent of Americans who are classified as very obese.

Tomiyama, who directs UCLA's Dieting, Stress and Health laboratory, also called DiSH, found in previous research that there was no clear connection between weight loss and health improvements related to hypertension, diabetes, and cholesterol and blood glucose levels.

She said she was surprised at the magnitude of the numbers in the latest study.

"There are healthy people who could be penalized based on a faulty health measure, while the unhealthy people of normal weight will fly under the radar and won't get charged more for their health insurance," she said. "Employers, policy makers and insurance companies should focus on actual health markers."

Jeffrey Hunger, a co-author of the paper and a doctoral candidate at UC Santa Barbara, said the research shows that BMI is a deeply flawed measure of health. "This should be the final nail in the coffin for BMI," he said.

Hunger recommends that people focus on eating a healthy diet and exercising regularly, rather than obsessing about their weight, and strongly opposes stigmatizing people who are overweight.

The proposed EEOC rule would allow employers to charge higher insurance rates to people whose BMI is 25 or higher. A BMI between 18.5 and 24.99 is considered normal, but the study emphasizes that



normal BMI should not be the primary goal for maintaining good health.

Tomiyama is planning a new study of people with high BMIs who are very healthy. Prospective participants may contact her laboratory for more information.

Provided by University of California, Los Angeles

Citation: Don't use body mass index to determine whether people are healthy, study says (2016, February 4) retrieved 23 April 2024 from <u>https://medicalxpress.com/news/2016-02-dont-body-mass-index-people.html</u>

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