

Limiting access to fast-food restaurants unlikely to reduce obesity

August 7 2017

Living near fast-food restaurants and supermarkets has little impact on an individual's body mass index, according to new Indiana University research.

The researchers, including Coady Wing from IU's School of Public and Environmental Affairs, used results from the largest national study ever conducted of the connection between residential environments and BMI.

"Fast [food](#) is generally not good for you, and supermarkets do sell healthy food, but our results suggest blocking the opening of a new fast-food restaurant or subsidizing a local [supermarket](#) will do little to reduce obesity," Wing said.

The key findings and the policy implication:

- Changes in the availability of fast-food restaurants and supermarkets near a person's home are not associated with reductions in BMI.
- There is no evidence that relationships between BMI and food outlets are different in neighborhoods with higher poverty levels.
- Public policies that are designed to reduce the number of fast-food restaurants and increase the number of supermarkets are unlikely to reduce obesity, although such policies may make it easier for people to access healthy foods.

The research team based its findings on the Weight and Veterans'

Environments Study, a comprehensive database stretching from 2009 to 2014 and covering 1.7 million veterans living in 382 metropolitan areas. The researchers could assess how BMI changed with each veteran and match it with the locations of fast-food outlets and supercenters such as Target and Walmart stores.

The researchers calculated BMI by using height and weight measurements taken when the veterans visited a doctor, nurse practitioner or other provider. They added up the number of chain fast-food restaurants, supermarkets and other [food outlets](#) within one mile and three miles of the person's residence. With that information, the researchers could track BMI changes, even when a person moved from one area to another or when a fast-food or other outlet opened or closed.

Previous research on this topic has been based on snapshots in time—known as cross-sectional data—and had suggested a link between food outlet access and BMI.

"We couldn't find evidence to support policies based on that presumed link," Wing said. "Strategies like the healthy food financing initiatives some cities are pursuing could have benefits, for example reducing the saturation of unhealthy food sources in impoverished neighborhoods. But those policies alone aren't likely to lead to healthier BMI."

More information: Shannon N. Zenk et al, Geographic Accessibility Of Food Outlets Not Associated With Body Mass Index Change Among Veterans, 2009–14, *Health Affairs* (2017). [DOI: 10.1377/hlthaff.2017.0122](#)

Provided by Indiana University

Citation: Limiting access to fast-food restaurants unlikely to reduce obesity (2017, August 7)
retrieved 6 April 2023 from
<https://medicalxpress.com/news/2017-08-limiting-access-fast-food-restaurants-obesity.html>

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