

# How far schoolkids live from junk food sources tied to obesity

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Credit: Maliz Ong/public domain

For the more than 1 million children attending New York City public schools, their choice of what to eat depends on which food sources are close to where they live.

As measured in city blocks, proximity to fast and convenience food sellers can impact a student's chances of becoming obese, according to a new study by researchers at NYU School of Medicine.

Reporting in the journal *Obesity* online Oct. 29, the research team found that among children between the ages of 5 and 18 living within a half-block of (or roughly 0.025 miles from) a fast-food outlet, 20 percent were obese and 38 percent were overweight. Similarly, among children who lived within a half-block of corner stores or bodegas, 21 percent were obese and 40 percent overweight.

For every half or full block farther away that students lived from unhealthy [food sources](#), [obesity](#) figures dropped from between 1 percent to more than 4 percent, depending on the type of food outlet, according to the study authors.

The team's findings stemmed from an analysis of public-school records from kindergarten through [high school](#), which included periodic measurements of children's height and weight. Researchers used mapping software to compare that information with how far every child lived from sellers of both junk and healthy foods at fast food outlets, corner stores, sit-down restaurants and [grocery stores](#).

According to the researchers, the study comparisons made were "highly neighborhood specific." For example, kids in a small section of Harlem were compared only to other kids in the same part of Harlem.

"Our study indicates that living very close to food outlets with a lot of unhealthy, junk food choices is likely not good for reducing the risk of children being overweight and/or obese," says study senior investigator Brian Elbel, Ph.D.

"Just having food outlets a block farther away—and potentially less convenient or accessible—can significantly lessen children's chances of being obese or overweight," adds Elbel, who says his team's latest study is the largest analysis to date of urban childhood obesity in the United States.

Even a drop in obesity rates of just a few percentage points, he says, translates into potentially saving thousands of children from obesity and its associated health problems, including increased risks of heart disease, diabetes, and early death.

Experts estimate that about one in five school-age children in the United States have an excess of body fat and are now obese (having a body mass index at or above the 95 percentile for children and teens of the same age and sex), a tripling of rates since the 1970s. Record numbers are also overweight (having a body mass index at or above the 85 percentile and below the 95 percentile for [children](#) and teens of the same age and sex,

according to the U.S. Centers for Disease Control and Prevention).

Elbel, an associate professor in the Department of Population Health at NYU School of Medicine and at the NYU Wagner Graduate School of Public Service, says the findings could support policies that limit fast food outlets and corner stores to keep them at a minimum distance away from housing complexes or neighborhoods with persistently high rates of obesity.

Surprisingly, Elbel notes, the study found no increase in obesity risk based on the distance from home to grocery stores and sit-down restaurants. Elbel says this finding suggests that neighborhood "food deserts," where fresh produce is in short supply, plays a small role one way or another in childhood obesity rates in urban areas.

In essence, he says, what appears to put kids at risk is how easily and quickly they can access [junk food](#).

Provided by NYU Langone Health

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