

Study: Higher rates of diabetes, hypertension, heart disease and stroke found in food desert

November 5 2013

There is more to the cost of living in a food desert than higher prices for the few fruits and vegetables sold nearby, according to a study by an Indiana University-Purdue University Indianapolis researcher and the Marion County Public Health Department.

The study, being discussed at 12:30 p.m. Tuesday during the American Public Health Association's annual meeting in Boston, examined the health impact of developing a grocery store in a low-income urban neighborhood on the east side of Indianapolis. Researchers found that residents of the community have much higher rates of diabetes, hypertension, heart disease and stroke than in other areas of Marion County.

"We looked at those particular diagnoses because they are ones that are influenced by eating a healthy diet and being more physically active," said Cynthia Stone, clinical associate professor in the Richard M. Fairbanks School of Public Health at IUPUI. Stone led the research project.

The neighborhood, which has no full-service grocery store, is on the east side of the Indiana State Fairgrounds, bounded by 38th and 42nd Streets and Fall Creek Parkway and Sherman Drive. The nearest grocery stores are two to five miles away, falling within the U.S. Department of Agriculture's federal designation of a food desert, Stone said. The



federal agency defines a food desert as a census tract with a substantial share of residents who live in low-income areas that have low levels of access to a grocery store or healthy, affordable food retail outlet.

The USDA's Economic Research Service estimates that 23.5 million people in the U.S. live in food deserts in urban neighborhoods and rural towns without ready access to fresh, healthy and affordable food. This lack of access contributes to a poor diet and can lead to higher levels of obesity and other diet-related illness, such as diabetes and heart disease. In the eastside neighborhood, many residents depend upon public transportation. Traveling to the closest grocery stores takes 30 to 45 minutes each way. Some residents had cars or were able to arrange for a ride in a car to the grocery store.

Stone said interviews were conducted with neighborhood association members and officials, as well as representatives of other agencies working in the community. Residents were given a written survey with questions about food shopping, including a question that asked how their food purchases might change if their community had a grocery store.

Researchers gathered data on the current health of the community, looking at hospital and emergency room data, Stone said. The study also found that the residents have a higher hospitalization rate and more frequent visits to the emergency room, compared to other county residents.

The community has 11 convenience stores. Ten of the stores allowed researchers to come inside and look at the kinds of foods they provided, Stone said. One of the stores sold fresh fruits and vegetables, while another one had a basket with a few apples and oranges, Stone said. Selections of healthier foods were limited, and what was available was more expensive than at a grocery store.



The survey showed neighborhood residents would be very supportive of a grocery store in their neighborhood and would change what foods they purchased if a grocery store were located nearby, Stone said. Residents also indicted a need not only for a grocery store but for nutritional education about healthy <u>food</u>, particularly for men who tended to purchase fewer healthy foods than women.

Provided by Indiana University

Citation: Study: Higher rates of diabetes, hypertension, heart disease and stroke found in food desert (2013, November 5) retrieved 11 July 2023 from https://medicalxpress.com/news/2013-11-higher-diabetes-hypertension-heart-disease.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.