

N.C. children in rural counties, high poverty schools face obesity risk

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North Carolina children who live in rural counties or attend high poverty schools are more likely to be obese, a newly published study finds.

The research, available online this week in the *Journal of School Health*, analyzed Body Mass Index data from 74,665 third through fifth grade students from 317 urban and rural schools. The researchers looked at whether the socioeconomic and racial composition of a <u>school</u> affected the likelihood of children being obese.

Overall, 20 percent of the students in the study were obese, a somewhat higher rate than among their peers nationally. However, students living in a rural county were 1.25 times more likely to be obese than their urban counterparts, even when researchers accounted for the county's socioeconomic and racial composition. Obesity was defined as having a Body Mass Index at or above the 95th percentile for students of the same age and sex.

"There are a lot of unique features in <u>rural areas</u> that could lead to higher levels of obesity," said Joy Piontak, a research analyst at Duke University's Center for Child and Family Policy who co-authored the article with Michael D. Schulman, a professor at N.C. State University. "Food insecurity, poverty, the inability to recover from economic recession or a lack of access to grocers could all potentially affect obesity rates."

Researchers also found that a student who attends a high-poverty school



is 1.5 times more likely to be obese than a student attending a low-poverty school.

Higher rates of obesity were also found in schools with a high minority population. However, once researchers took into account whether the schools had high levels of poverty, it became clear that poverty, not race, was driving the outcome.

The researchers said public school initiatives could hold the key to lowering obesity rates in both rural areas and schools with higher rates of poverty.

"We should look at interventions in schools and not just target individual kids," Piontak said. "We can teach a kid how to eat better or exercise more, but if we know that particular schools or places are more likely to have higher rates of obesity, we can look at the food or the types of physical education opportunities available there."

Piontak said more research is needed to understand differences in urban and rural <u>obesity rates</u>.

More information: Joy Rayanne Piontak et al, School Context Matters: The Impacts of Concentrated Poverty and Racial Segregation on Childhood Obesity, *Journal of School Health* (2016). <u>DOI:</u> <u>10.1111/josh.12458</u>

Provided by Duke University

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