

Obese students' childbearing risk varies with high school obesity rates

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For young women in high school, the risk of childbearing may depend on the prevalence of obesity in their schools, according to sociologists, who found that as the prevalence of obesity rises in a school, so do the odds of obese high school students bearing children.

"We did find that obese females are at lower risk of having a child while in high school," said Jennifer Buher Kane, recent Penn State Ph. D. recipient and current postdoctoral fellow at Carolina Population Center, University of North Carolina. "But that relative risk depends a lot on the type of school they attend."

Health officials tend to focus on the biological link between obesity and childbearing, but [sociologists](#) also recognize the stigma of obesity limits obese females choices in finding and establishing relationships and sexual partnerships, Frisco said. However, the researchers said that the stigma may be reduced in high schools with higher levels of obesity and the risk of childbearing increases for obese females in those schools because young women have more partnership opportunities.

"In general, we tend to partner with people who look like us," said Michelle Frisco, associate professor of sociology and [demography](#), Penn State.

When the researchers examined the risk of childbearing for obese and non-obese young women, the obesity prevalence of schools did not change non-obese young women's risk of childbearing, but it did change

the risk for obese young women having children. For these young women, the odds of childbearing consistently increased as the obesity prevalence in schools increased and eventually surpassed non-obese young women's risk of childbearing when roughly 17 percent of students in a high school were obese.

The researchers used information from the National Longitudinal Study of Adolescent Health to examine the behaviors of 4,242 female students attending 102 high schools in the U.S.

The researchers, who report their findings in the current issue of *Social Science and Medicine*, determined whether young women and students in their schools were obese by using the height and weight data from the National Longitudinal Study of Adolescent Health and guidelines from the Centers for Disease Control and Prevention on determining obesity.

Kane said that one theory suggests that obese females may have limited opportunities to establish sexual relationships. However, when they do have opportunities, they may also feel less empowered in a relationship and research shows they are more likely to engage in risky sexual behavior, including unprotected sex. She added that they are also more likely to use drugs and alcohol before sex, which also increases the likelihood of unprotected sex.

[Health officials](#), who may ignore intervention strategies for obese students because they believe the risk of pregnancy is minimal, should consider how [obesity prevalence](#) rates may affect the pregnancy risks in their schools, according to the researchers.

"We need to teach all [young women](#) to make better and smarter decisions," Frisco said. "A one-size-fits-all approach to understanding adolescent pregnancy and childbirth doesn't work."

Provided by Pennsylvania State University

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