

# Decrease in physical activity may not be a factor in increased obesity rates among adolescents

November 2 2009

---

Decreased physical activity may have little to do with the recent spike in obesity rates among U.S. adolescents, according to researchers at the Johns Hopkins Bloomberg School of Public Health.

Prompted by growing concern that the increase was due to decreased [physical activity](#) associated with increased [TV viewing](#) time and other sedentary behaviors, researchers examined the patterns and time trends in physical activity and sedentary behaviors among U.S. adolescents based on nationally representative data collected since 1991. The review found signs indicating that the physical activity among adolescents increased while TV viewing decreased in recent years. The results are featured in the October 30 online issue of [Obesity Reviews](#).

"Although only one third of U.S. adolescents met the recommended levels of physical activity, there is no clear evidence they had become less active over the past decade while the prevalence of obesity continued to rise," said Youfa Wang, MD, PhD, MS, senior author of the study and an associate professor with the Bloomberg School's Center for Human Nutrition and the Department of International Health. "During the recent decade, U.S. adolescents had greater access to TV, but significantly fewer of them watched TV for three or more hours per day. In addition, daily physical education attendance rates improved along with the use of physical education class in engaging in physical activity. However, there are considerable differences in the patterns by age, sex

and ethnicity."

Wang, along with co-authors Shiru Li, MD, MS, former visiting scholar with the Bloomberg School's Center for Human Nutrition, and Margarita Treuth, PhD, adjunct associate professor with the Bloomberg School's Center for Human Nutrition and a professor with the University of Maryland East Shore, examined findings from the nationally representative Youth Risk Behavior Surveillance (YRBS) surveys from 1991 to 2007. The survey included U.S. high school students in grades 9 through 12 and provided information about their physical activities including enrollment and participation in physical education in school and sedentary behaviors including screen time. Based on these surveys, researchers examined the patterns and time trends and compared the observed physical activity patterns with the national goals set in Healthy People 2010, a comprehensive agenda for improving the health of all Americans. They found that minority students were less likely to be physically active and more likely to engage in sedentary behaviors than white students. Girls were less active than boys and decreased physical activity was related to an increase in age.

"The large gaps between the 2007 achievement and the 2010 targets indicate that the goals are unlikely to be achieved by 2010," said Wang. "Our study suggests that more vigorous efforts are needed to help young Americans engage in adequate regular physical activity and reduce sedentary behaviors, which will help promote good health. In addition, these findings may suggest factors other than physical activity, and sedentary behaviors such as unhealthy eating may play a more important role to help explain the recent increase in obesity."

More information: "How Active are American Adolescents and Have They Become Less Active" was written by S. Li, M.S. Treuth and Y. Wang.

Source: Johns Hopkins University ([news](#) : [web](#))

Citation: Decrease in physical activity may not be a factor in increased obesity rates among adolescents (2009, November 2) retrieved 24 April 2024 from <https://medicalxpress.com/news/2009-11-decrease-physical-factor-obesity-adolescents.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.