Making the Connection: Dietary Behaviors and Academic Grades

Data from the 2019 national Youth Risk Behavior Survey (YRBS) show that students with higher academic grades are more likely to engage in healthy dietary behaviors compared to students with lower grades. It is important to remember that these associations do not prove causation. School health professionals, school officials, and other decision makers can use this fact sheet to better understand the associations between healthy dietary behaviors and grades and reinforce policies and practices that support healthy eating in schools.

Key Findings

Compared to students with lower grades, students with higher grades are

more likely to



- Eat breakfast on all 7 days.
- Eat fruit or drink 100% fruit juice one or more times per day



Eat vegetables one or more times per day.

mostly D/F's.

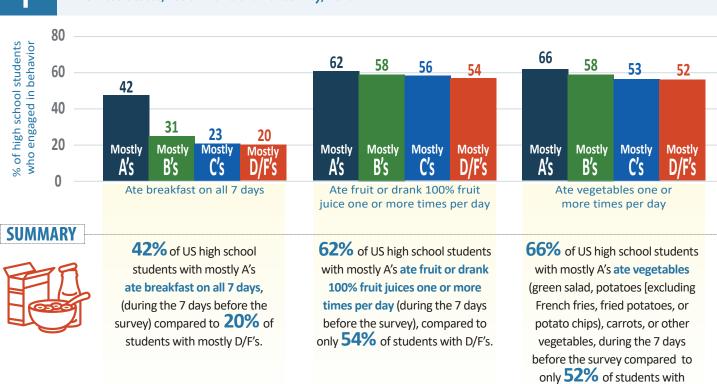
 Not drink a can, bottle, or glass of soda or pop.

The findings do not show that academic grades are associated with drinking one or more glasses per day of milk.

FIGURE 1A

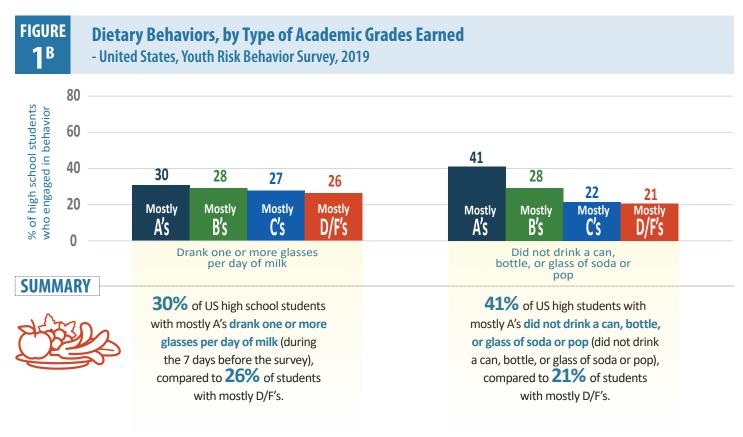
Dietary Behaviors, by Type of Academic Grades Earned

- United States, Youth Risk Behavior Survey, 2019



^{*}Figure 1A and Figure 1B illustrate the percentage of students who engaged in each health-related behavior, by type of grades mostly earned in school (mostly A's, B's, C's, D's/F's) (row proportions). The percentage of students who did not engage in each health-related behavior are not shown. However, the percentages of students who did and did not engage in each health-related behavior, by type of grades mostly earned in school, sum to 100%. Logistic regression analyses (not shown) controlling for sex, race/ethnicity, and grade in school confirmed a significant association between dietary behaviors and academic grades.

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Conclusions

These results from the YRBS provide evidence of a significant association between academic grades and dietary behaviors. Further research is warranted to determine whether higher grades in school lead to healthy dietary behaviors, if healthy dietary behaviors lead to higher grades, or some other factors lead to these dietary behaviors.

There is a close relationship between health and education. By working together, education and health agencies, parents, and communities can ensure that students are healthy and ready to learn in school. Find out more about the connection between health and academic achievement on CDC's Healthy Schools Health and Academics website.

About the Data

The <u>Youth Risk Behavior Surveillance System</u> (YRBSS) monitors priority health-risk behaviors that contribute to the leading causes of death, disability, and social problems among youth and adults in the United States. It is conducted every 2 years during the spring and provides data representative of 9th through 12th grade students in public and private schools throughout the nation. In 2019, students completing the YRBS were asked, "During the past 12 months, how would you describe your grades in school?" and given seven response options (Mostly A's, Mostly B's, Mostly C's, Mostly D's, Mostly F's, None of these grades, Not sure). In 2019, 38.0% of students received mostly A's, 37.1% received mostly B's, 16.0% received mostly C's, 4.6% received mostly D's or F's, and 4.3% reported receiving none of these grades or not sure.

