

Risk Behaviors and Academic Achievement Report Documentation

Purpose The Risk Behaviors and Academic Achievement Report describes the relationships between health-risk behaviors and academic achievement overall and by sex and race/ethnicity.

Example

2012 YOUTH RISK BEHAVIOR SURVEY RESULTS
Metropolis High School Survey
Risk Behaviors and Academic Achievement Report

Total Unintentional Injuries/Violence	Percentage of students who engaged in each risk behavior, by type of grades mostly earned in school				Significant Association*
	A's	B's	C's	D's/F's	
	% 95% CI [†]	% 95% CI	% 95% CI	% 95% CI	
Health Risk Behavior					
QN8: Among students who rode a bicycle during the past 12 months, the percentage who never or rarely wore a bicycle helmet	76.8 (68.1-83.7)	88.1 (83.8-91.4)	93.8 (88.9-96.6)	98.5 (89.6-99.8)	Yes
QN9: Percentage of students who never or rarely wore a seat belt when riding in a car driven by someone else	4.8 (2.5-9.0)	8.1 (5.9-11.0)	15.0 (11.2-19.6)	24.8 (16.5-35.4)	Yes
QN10: Percentage of students who rode one or more times during the past 30 days in a car or other vehicle driven by someone who had been drinking alcohol	20.1 (16.0-24.9)	18.8 (14.8-23.5)	24.4 (19.9-29.7)	36.7 (26.0-48.9)	Yes
QN11: Among students who drove a car or other vehicle during the past 30 days, the percentage who drove when they had been drinking alcohol one or more times during the past 30 days	4.1 (1.2-12.7)	5.5 (2.9-10.4)	8.5 (4.6-15.2)	30.7 (16.6-49.7)	Yes
QN12: Among students who drove a car or other vehicle during the past 30 days, the percentage who texted or e-mailed while driving on one or more of the past 30 days	11.6 (5.2-23.7)	18.2 (12.5-25.7)	21.0 (14.1-30.0)	43.7 (28.2-60.5)	Yes
QN14: Percentage of students who carried a gun on one or more of the past 30 days	3.7 (1.7-7.6)	4.8 (3.1-7.1)	8.9 (5.8-13.5)	18.8 (10.9-30.3)	Yes
QN15: Percentage of students who carried a weapon such as a gun, knife, or club on school property on one or more of the past 30 days	6.8 (3.7-12.2)	6.8 (4.7-9.7)	11.2 (7.9-15.6)	23.5 (15.7-33.5)	Yes

*Based on logistic regression analysis controlling for sex, race/ethnicity, and grade in school, p<0.05.
† Confidence interval.

Inclusion Criteria Sites with weighted data in 2013 that assessed academic achievement with the following question receive this report.

During the past 12 months, how would you describe your grades in school?

- A. Mostly A's
- B. Mostly B's
- C. Mostly C's
- D. Mostly D's
- E. Mostly F's
- F. None of these grades
- G. Not sure

Content

Risk Behavior and Academic Achievement reports contain the following columns:

Column	Content
Health Risk Behavior	All variables calculated from standard questions and site added questions. Variables are grouped by risk behavior category. Variables based on site added questions are listed after the variables based on standard questions.
Percentage of students who engaged in each risk behavior, by type of grades mostly earned in school	Weighted percentages and 95% confidence intervals for each type of grade
Significant Association	Indicates whether there is a statistically significant association between type of grades mostly earned in school and the health risk behavior.

Note: If the number of students in a subgroup is less than 30, the results for the subgroup are not presented.

How to Interpret the Risk Behaviors and Academic Achievement Report

This is an example of a Risk Behaviors and Academic Achievement Report.

Health Risk Behavior	Percentage of students who engaged in each risk behavior by type of grades mostly earned in school				Significant Association
	A's	B's	C's	D/F's	
Percentage of students who were in a physical fight one or more times during the past 12 months	19.3	29.9	41.4	57.5	Yes
Percentage of students who were overweight (i.e., at or above the 85th percentile but below the 95th percentile for body mass index, by age and sex)	13.6	15.3	17.4	18.4	No

The report indicates that among students who received mostly A's, 19.3% were in a physical fight during the past 12 months, compared to 57.5% of students who received mostly D/F's." Further, a significant association exists between engaging in a physical fight and academic achievement. Students with poor grades have a significantly higher prevalence of physical fighting than students with better grades.

The report also indicates that there is no association between academic achievement and overweight. The prevalence of overweight does not differ by types of grades earned in school, controlling for race/ethnicity, grade in school, and sex.

Notes

SUDAAN logistic regression was used to model the risk behavior (outcome) on the type of grades mostly earned in school (academic achievement predictor), controlling for sex, race/ethnicity, and grade in school.

See [Software for Analysis of YRBS Data](#) on the [YRBS website](#) for more information about analyzing YRBS data.