

Appendix
Concussion and Academic Impairment Among U.S. High School Students
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Appendix Table 1. Assessment of Sport- or Physical Activity-related Concussion, Athlete Status, Cognitive Impairment, and Academic Grades Among U.S. High School Students – National Youth Risk Behavior Survey, 2017

Variable assessed	Questionnaire item	Analytic coding
Sport- or physical activity-related concussion	<i>The next question asks about concussions. A concussion is when a blow or jolt to the head causes problems such as headaches, dizziness, being dazed or confused, difficulty remembering or concentrating, vomiting, blurred vision, or being knocked out.</i> <i>During the past 12 months, how many times did you have a concussion from playing a sport or being physically active?</i>	Yes (≥1) vs. No (0) times Frequency of occurrence: 2 or more times 1 time 0 times
Athlete status	<i>During the past 12 months, on how many sports teams did you play? (Count any teams run by your school or community groups.)</i>	Yes (≥1) vs. No (0) teams
Cognitive impairment	<i>Because of a physical, mental, or emotional problem, do you have serious difficulty concentrating, remembering, or making decisions?</i>	Yes vs. No
Academic grades	<i>During the last 12 months, how would you describe your grades in school?</i> Response options: <i>Mostly A's</i> <i>Mostly B's</i> <i>Mostly C's</i> <i>Mostly D's</i> <i>Mostly F's</i> <i>None of these grades</i> <i>Not sure</i>	Mostly A's vs. Mostly B's, C's, D's, or F's Grade point average (GPA): Mostly A's=4.0 Mostly B's=3.0 Mostly C's=2.0 Mostly D's=1.0 Mostly F's=0.0 "None of these grades" and "Not sure" responses were set to missing.