

2019 Montana Youth Risk Behavior Survey



Vaping Report

A Health Risk Behavior Comparison of
Montana High School Students
Based on Current Use of Electronic Vapor Products

Youth Risk Behavior Survey Program
Coordinated School Health Unit
August 2020

2019 Montana Youth Risk Behavior Survey – Vaping Report

Montana Youth Risk Behavior Survey

The Montana Youth Risk Behavior Survey (YRBS) is administered by the Montana Office of Public Instruction every two years to students in grades 7 through 12. The purpose of the survey is to help monitor the prevalence of behaviors that not only influence youth health, but also put youth at risk for the most significant health and social problems that can occur during adolescence. While all schools in Montana can participate in the survey on a volunteer basis, approximately 50 high schools are randomly selected to be included to provide the Montana statewide data to be used in other national YRBS reports.

The 2019 YRBS was conducted in February 2019. Schools administering the survey were provided with detailed written instructions on conducting a random survey in their schools. To encourage accurate responses to sensitive questions, a strict protocol was implemented to protect the privacy and confidentiality of all participating students. The questionnaire was designed without skip patterns to ensure survey completion by students in a similar timeframe.

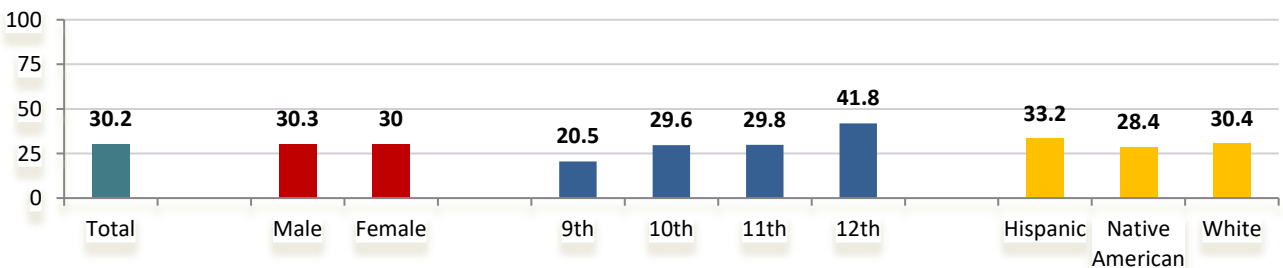
Survey Validity, Limitations and Results

Data used in this report from the 2019 YRBS are based on a random sample survey of Montana high school students. The weighted data results contained in this report can be used to make inferences about the priority health-risk behaviors of all Montana high school students in grades 9 through 12. However, users should be careful in using the data since respondents in self-reported surveys may have a tendency to underreport behaviors that are socially undesirable, unhealthy, or illegal (alcohol consumption, drug use, seat belt nonuse, etc.) and overreport behaviors that are socially desirable (amount of exercise, etc.).

For this report, the 30.2 percent of Montana high school students who currently vape are those students who reported using an electronic vapor product (including e-cigarettes, e-cigars, e-pipes, vaping pens, e-hookahs, and hookah pens [such as blu, NJOY, Vuse, MarkTen, Logic, Vapin Plus, eGo, and Halo] on at least one day during the past 30 days. Fifty-three separate risk behaviors were queried for association with vaping. These findings are presented in narrative bullet, table, and graph forms in the following report.

MONTANA STUDENTS WHO CURRENTLY VAPE

30.2 percent of Montana high school students report using an electronic vapor product on one or more of the past 30 days.



For more on the YRBS go to www.opi.mt.gov/yrbs.

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Findings

Montana high school students who currently vape are more likely than those students who do not currently vape to have:

- Never or rarely wore a seat belt when riding in a car driven by someone else (12% of students who vape, 5% of students who do not vape).
- Never or rarely wore a seat belt when driving (13% of students who vape, 4% of students who do not vape).
- Rode with a driver who had been drinking alcohol during the past 30 days (32% of students who vape, 12% of students who do not vape).
- Drove when drinking alcohol during the past 30 days (18% of students who vape, 1% of students who do not vape).
- Texted or e-mailed while driving a car during the past 30 days (72% of students who vape, 41% of students who do not vape).
- Used the Internet or apps on a cell phone while driving a car during the past 30 days (61% of students who vape, 35% of students who do not vape).
- Carried a weapon such as a gun, knife, or club during the past 30 days (31% of students who vape, 20% of students who do not vape).
- Did not go to school because they felt unsafe at school or on their way to or from school during the past 30 days (14% of students who vape, 6% of students who do not vape).
- Been threatened or injured with a weapon on school property during the past 12 months (12% of students who vape, 5% of students who do not vape).
- Ever been physically forced to have sexual intercourse when they did not want to (15% of students who vape, 6% of students who do not vape).
- Been bullied on school property during the past 12 months (27% of students who vape, 20% of students who do not vape).
- Been electronically bullied during the past 12 months (27% of students who vape, 13% of students who do not vape).
- Been the victim of teasing or name calling because someone thought they were gay, lesbian, or bisexual during the past 12 months (17% of students who vape, 11% of students who do not vape).
- Felt sad or hopeless almost every day for 2 or more weeks in a row during the past 12 months (49% of students who vape, 29% of students who do not vape).
- Seriously considered attempting suicide during the past 12 months (36% of students who vape, 17% of students who do not vape).
- Made a plan about how they would attempt suicide during the past 12 months (31% of students who vape, 14% of students who do not vape).
- Attempted suicide during the past 12 months (16% of students who vape, 6% of students who do not vape).
- Ever tried cigarette smoking (64% of students who vape, 16% of students who do not vape).
- Currently smoked cigarettes during the past 30 days (25% of students who vape, 1% of students who do not vape).
- Currently used smokeless tobacco during the past 30 days (19% of students who vape, 1% of students who do not vape).
- Currently smoked cigars, cigarillos, or little cigars during the past 30 days (24% of students who vape, 1% of students who do not vape).

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Montana high school students who are sleep-deprived are more likely than those students who get 8 or more hours of sleep to have:






















- Used an electronic vapor product on school property during the past 30 days (54% of students who vape, less than 1% of students who do not vape).
- Currently smoked cigarettes or cigars or used smokeless tobacco or electronic vapor products during the past 30 days (100% of students who vape, 3% of students who do not vape).
- Had a drink of alcohol during the past 30 days (73% of students who vape, 13% of students who do not vape).
- Had 4 or more drinks, if female, 5 or more drinks, if male, of alcohol within a couple hours during the past 30 days (47% of students who vape, 4% of students who do not vape).
- Ever used marijuana in their lifetime (80% of students who vape, 19% of students who do not vape).
- Used marijuana during the past 30 days (53% of students who vape, 5% of students who do not vape).
- Ever took prescription pain medicine (such as Vicodin, OxyContin, Hydrocodone and Percocet) without a doctor's prescription or differently than how a doctor told them to use it (25% of students who vape, 7% of students who do not vape).
- Ever had sexual intercourse in their lifetime (74% of students who vape, 27% of students who do not vape).
- Had sexual intercourse with four or more persons during their life (29% of students who vape, 4% of students who do not vape).
- Had sexual intercourse during the past 3 months (58% of students who vape, 17% of students who do not vape).
- Drank alcohol or used drugs before last sexual intercourse (25% of students who vape, 7% of students who do not vape).
- Drank a can, bottle, or glass of soda or pop daily during the past 7 days (20% of students who vape, 9% of students who do not vape).
- Drank a can, bottle, or glass of an energy drink daily during the past 7 days (7% of students who vape, 3% of students who do not vape).
- Not eaten breakfast during the past 7 days (18% of students who vape, 12% of students who do not vape).
- Watched 3 or more hours of TV on an average school day (23% of students who vape, 17% of students who do not vape).
- Received help from a resource teacher, speech therapist, or other special education teacher during the past 12 months (18% of students who vape, 13% of students who do not vape).
- Not usually sleep in their parent's or guardian's home during the past 30 days (6% of students who vape, 2% of students who do not vape).
- Had a concussion from playing a sport or being physically active during the past 12 months (23% of students who vape, 12% of students who do not vape).

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Montana high school students who currently vape are *less likely* than those students who do not currently vape to have:

- Not eaten fruit or drunk 100% fruit juice during the past 7 days (3% of students who vape, 6% of students who do not vape).
- Gotten 8 or more hours of sleep on an average school night (21% of students who vape, 35% of students who do not vape).
- Made mostly A's or B's in school during the past 12 months (66% of students who vape, 82% of students who do not vape).










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Health Risk Behavior Percentage of students	Vaping Students	Non-Vaping Students	Statistical Difference
Never or rarely wore a seat belt when riding in a car driven by someone else	12.4% (9.6-15.3)	4.6% (3.1-6.2)	
Never or rarely wore a seat belt when driving	12.8% (10.1-15.5)	3.8% (2.6-5.0)	
Rode with a driver who had been drinking during the past 30 days	31.5% (28.1-34.8)	11.7% (10.6-12.8)	
Drove when drinking alcohol during the past 30 days	18.3% (15.5-21.2)	0.9% (0.4-1.4)	
Texted or e-mailed while driving a car or other vehicle during the past 30 days	71.6% (67.4-75.7)	41.2% (38.2-44.1)	
Used the Internet or apps on a cell phone while driving during the past 30 days	60.5% (57.1-63.9)	34.6% (31.9-37.2)	
Carried a weapon such as a gun, knife, or club during the past 30 days	30.9% (27.2-34.7)	20.4% (18.0-22.7)	
Did not go to school because they felt unsafe at school or on their way to or from school during the past 30 days	14.2% (11.6-16.9)	6.3% (5.1-7.6)	
Were threatened or injured with a weapon on school property during the past 12 months	11.6% (8.9-14.3)	5.3% (4.3-6.2)	
Ever physically forced to have sexual intercourse when they did not want to	15.2% (12.9-17.5)	6.1% (5.1-7.1)	
Were bullied on school property during the past 12 months	27.3% (24.5-29.9)	19.6% (17.4-21.8)	
Were electronically bullied (texting, Instagram, Facebook, or other social media) during the past 12 months	26.9% (23.9-29.9)	12.6% (11.2-14.0)	
Were the victim of teasing or name calling because someone thought they were gay, lesbian, or bisexual during the past 12 months	17.4% (14.9-19.9)	11.0% (9.5-12.5)	
Felt sad or hopeless almost every day for 2 or more weeks in a row during the past 12 months	49.4% (45.9-52.9)	29.3% (27.2-31.4)	
Seriously considered attempting suicide during the past 12 months	36.4% (32.9-39.8)	16.7% (14.9-18.5)	
Made a plan about how they would attempt suicide during the past 12 months	30.6% (27.4-33.9)	14.0% (12.3-15.6)	
Attempted suicide during the past 12 months	16.3% (13.4-19.2)	6.1% (4.6-7.6)	
Ever tried cigarette smoking	63.6% (60.6-66.7)	15.5% (12.9-18.2)	
Currently smoked cigarettes during the past 30 days	25.3% (22.0-28.6)	1.3% (0.5-2.1)	
Currently used smokeless tobacco during the past 30 days	19.1% (16.1-22.0)	1.3% (0.9-1.7)	
Currently smoked cigars, cigarillos, or little cigars during the past 30 days	23.9% (20.7-27.1)	1.3% (0.7-1.8)	

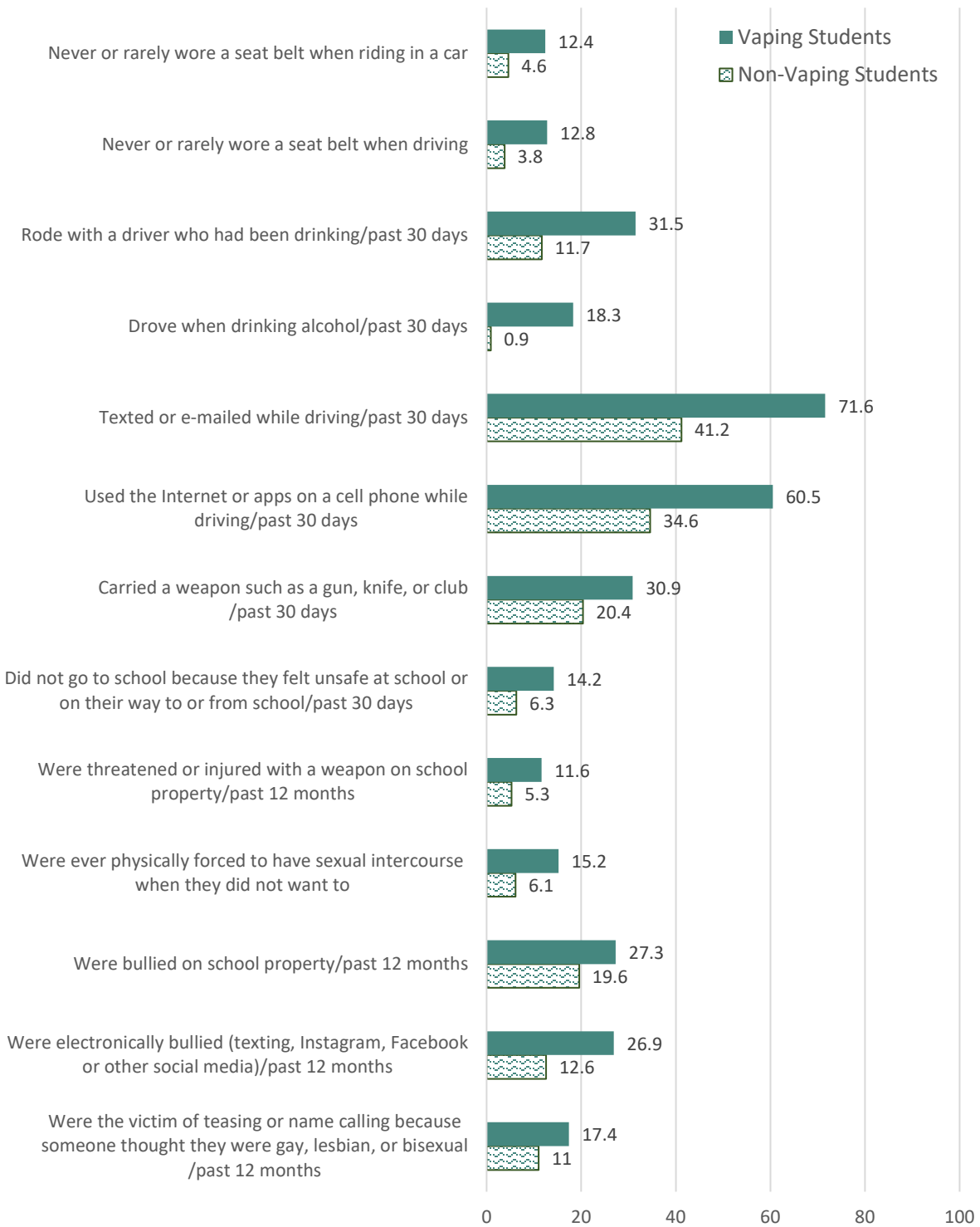
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Health Risk Behavior Percentage of students	Students Who Currently Vape	Students Who Do Not Currently Vape	Statistical Difference
Used an electronic vapor product on school property during the past 30 days	53.7% (50.0-57.3)	0.2% (0.0-0.3)	
Currently used electronic vapor products frequently (on 20 or more of the past 30 days)	41.9% (38.4-45.5)	----% (----)	
Currently used electronic vapor products daily (on all the past 30 days)	28.8% (25.5-32.2)	----% (----)	
Currently smoked cigarettes or cigars or used smokeless tobacco or electronic vapor products during the past 30 days	100.0% (100.0-100.0)	2.9% (2.0-3.8)	
Currently drank alcohol during the past 30 days	72.5% (69.1-75.8)	12.8% (10.9-14.6)	
Had 4 or more drinks, if female, 5 or more drinks, if male, of alcohol within a couple hours during the past 30 days	47.2% (43.5-50.9)	4.1% (3.1-5.1)	
Ever used marijuana in their lifetime	80.0% (77.1-82.8)	18.7% (15.4-22.0)	
Currently used marijuana during the past 30 days	52.8% (48.7-56.9)	5.3% (3.5-7.2)	
Ever used methamphetamines in their lifetime	4.8% (3.1-6.5)	0.7% (0.2-1.1)	
Ever used ecstasy in their lifetime	10.9% (8.6-13.2)	0.9% (0.4-1.4)	
Ever took prescription pain medicine (such as codeine, Vicodin, OxyContin, Hydrocodone and Percocet) without a doctor's prescription or differently than how a doctor told them to use it	24.8% (21.8-27.7)	6.7% (5.5-7.9)	
Ever had sexual intercourse in their lifetime	73.5% (70.1-76.9)	26.5% (23.7-29.2)	
Had sexual intercourse with four or more persons during their life	28.5% (24.8-32.1)	4.2% (3.3-5.1)	
Had sexual intercourse during the past 3 months	57.8% (54.1-61.6)	16.5% (14.6-18.4)	
Drank alcohol or used drugs before last sexual intercourse	25.3% (21.2-29.4)	7.1% (4.3-9.9)	
Did not eat fruit or drink 100% fruit juice during the past 7 days	3.3% (2.0-4.6)	6.3% (5.1-7.5)	
Did not eat fruit during the past 7 days	5.4% (3.8-6.9)	5.4% (4.4-6.4)	
Did not eat any vegetables (green salad, potatoes, carrots, or other vegetables) during the past 7 days	5.9% (4.0-7.8)	5.2% (4.0-6.5)	

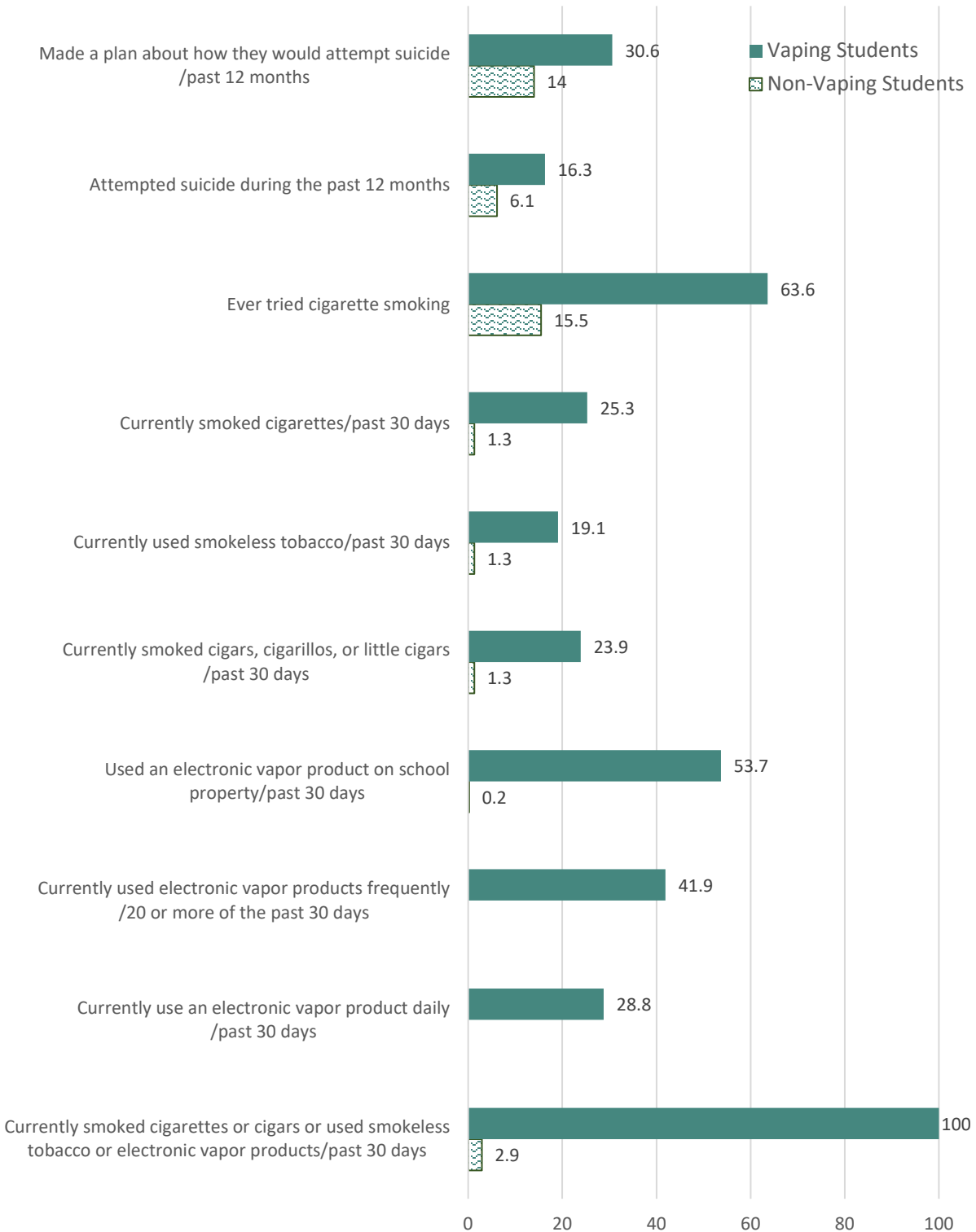
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Health Risk Behavior <small>Percentage of students</small>	Students Who Currently Vape	Students Who Do Not Currently Vape	Statistical Difference
Drank a can, bottle, or glass of soda or pop daily during the past 7 days	19.5% (16.3-22.8)	9.4% (7.7-11.1)	
Drank a can, bottle, or glass of an energy drink daily during the past 7 days	7.4% (5.4-9.3)	2.5% (1.7-3.3)	
Did not drink milk during the past 7 days	26.1% (23.0-29.2)	22.2% (20.2-24.2)	
Did not eat breakfast on any of the past 7 days	17.9% (15.2-20.6)	12.0% (10.7-13.4)	
Were physically active at least 60 minutes per day on 5 or more of the past 7 days	48.1% (44.4-51.8)	52.4% (49.1-55.8)	
Were not physically active at least 60 minutes per day on any of the past 7 days	13.4% (10.9-16.0)	11.0% (9.2-12.7)	
Played on at least one sports team during the past 12 months	56.9% (53.9-60.0)	60.4% (57.5-63.4)	
Watched 3 or more hours of TV on an average school day	22.8% (19.9-25.6)	17.4% (15.3-19.4)	
Screen time - Played video or computer games or used a computer 3 or more hours per day (counting time spent on things such as Xbox, PlayStation, an iPad or other tablet, a smartphone, texting, YouTube, Instagram, Facebook, or other social media, for something that was not school work, on an average school day)	38.4% (35.3-41.5)	36.4% (33.3-39.5)	
Got 8 or more hours of sleep on an average school night	21.1% (18.7-23.6)	34.7% (32.2-37.2)	
Made mostly A's or B's in school during the past 12 months	65.8% (62.1-69.5)	82.4% (79.4-85.5)	
Received help from a resource teacher, speech therapist, or other special education teacher during the past 12 months	17.6% (14.9-20.4)	13.1% (11.4-14.8)	
Did not usually sleep in their parent's or guardian's home during the past 30 days	6.0% (4.2-7.7)	1.7% (1.1-2.2)	
Had a concussion from playing a sport or being physically active during the past 12 months	23.3% (20.4-26.1)	12.2% (10.8-13.5)	

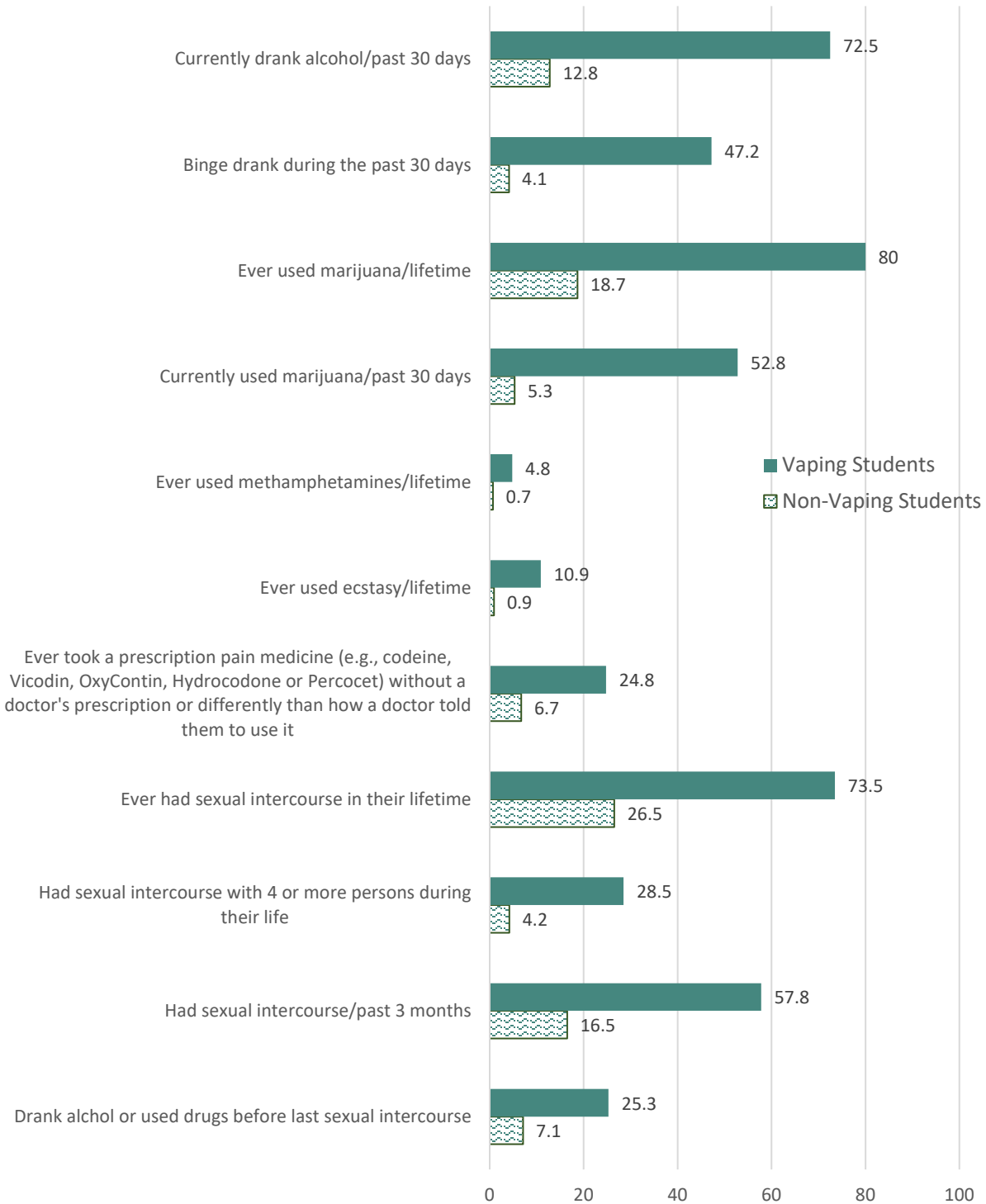
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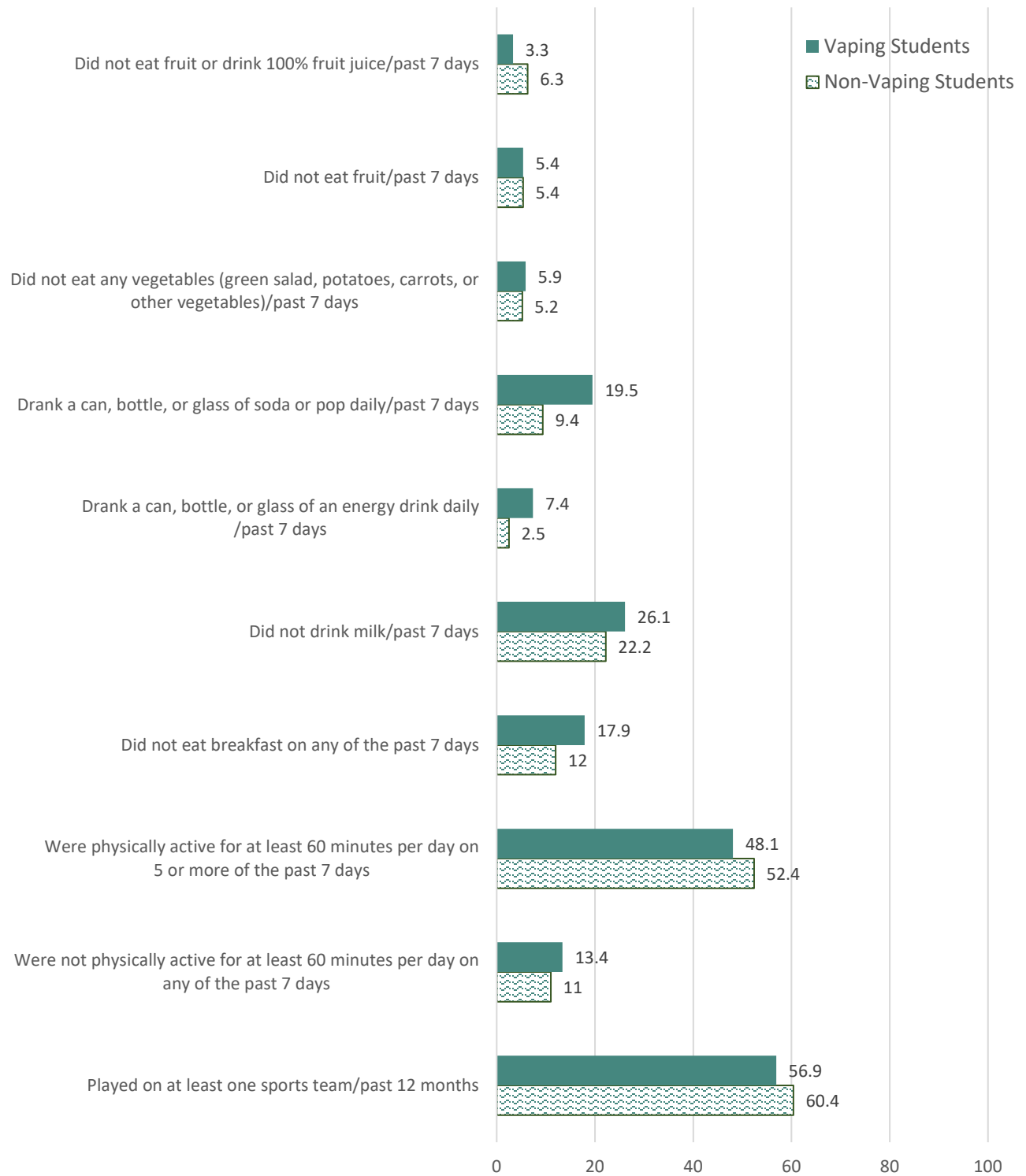
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