



# Results of the 2021 Healthy Kids Colorado Survey

*Boulder County*



BOULDER COUNTY  
PUBLIC HEALTH  
Opportunity for a healthy life.

# Survey is Anonymous and Voluntary

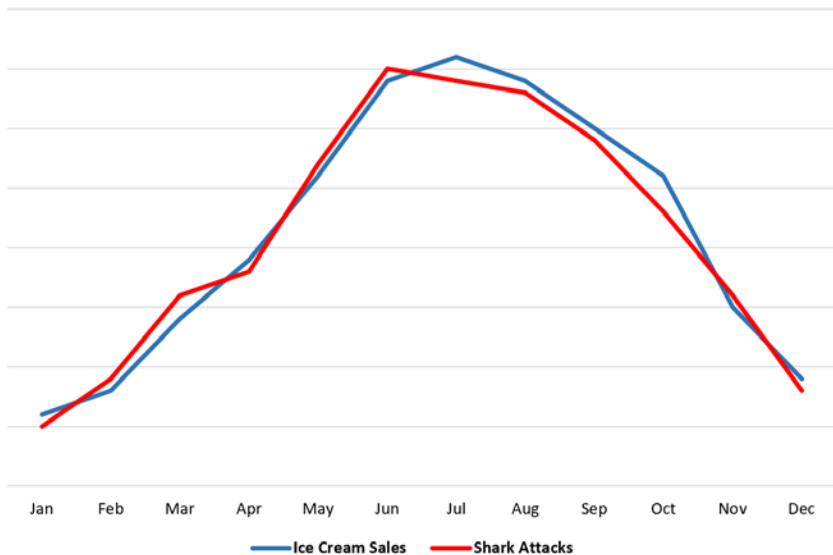


- BVSD middle (N=127 students) and high schools (N=1749 students)
- Voluntary - can opt out
- Anonymous - no student-level results
- Asks about own health behaviors
- Measures various health issue areas



# Correlation does not equal causation

### Ice Cream Sales vs. Shark Attacks

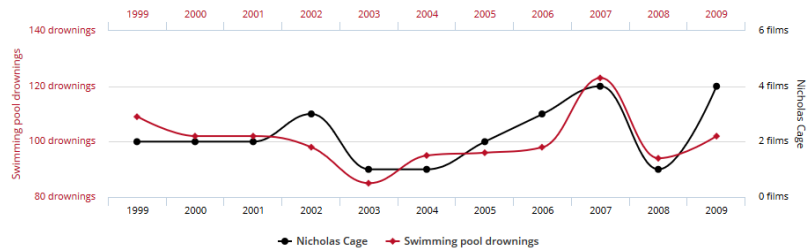


### Number of people who drowned by falling into a pool

correlates with

### Films Nicolas Cage appeared in

Correlation: 66.6% ( $r=0.666004$ ,  $p>0.05$ )

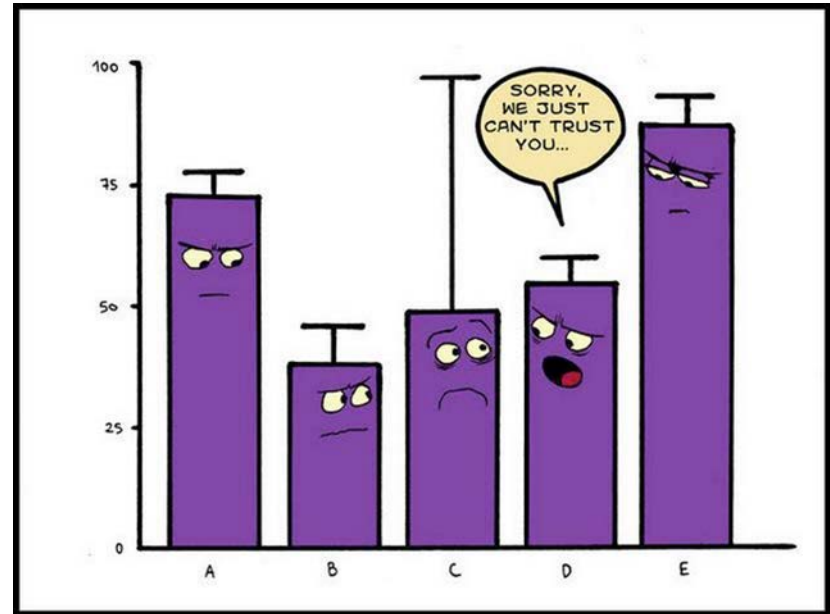


Data sources: Centers for Disease Control & Prevention and Internet Movie Database

tyenvigen.com

# Confidence intervals help identify statistically significant differences

- Tell us how precise data is
- Tell us how confident we are in the prevalence estimate we provided
- Are included in bar graphs



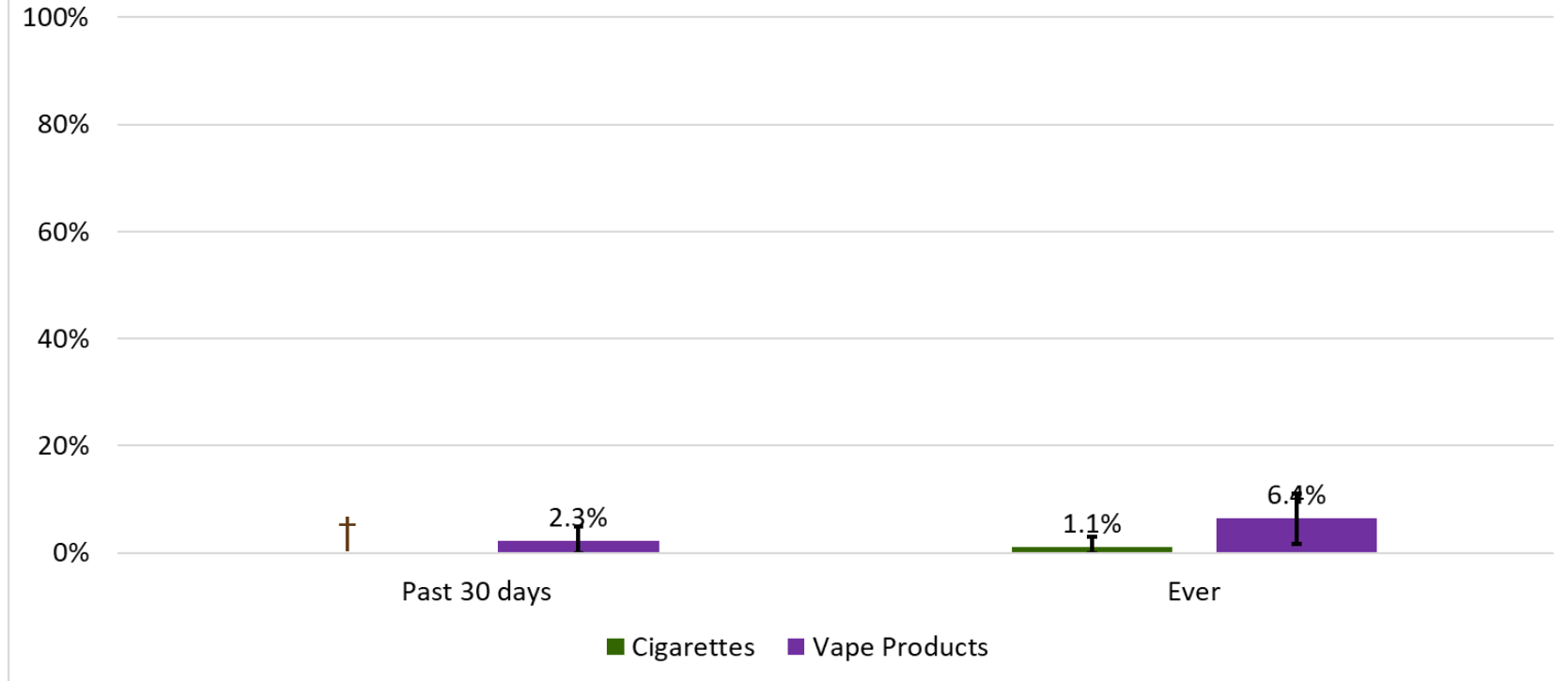


# Survey Results

# **Tobacco use (cigarettes and vape products)**



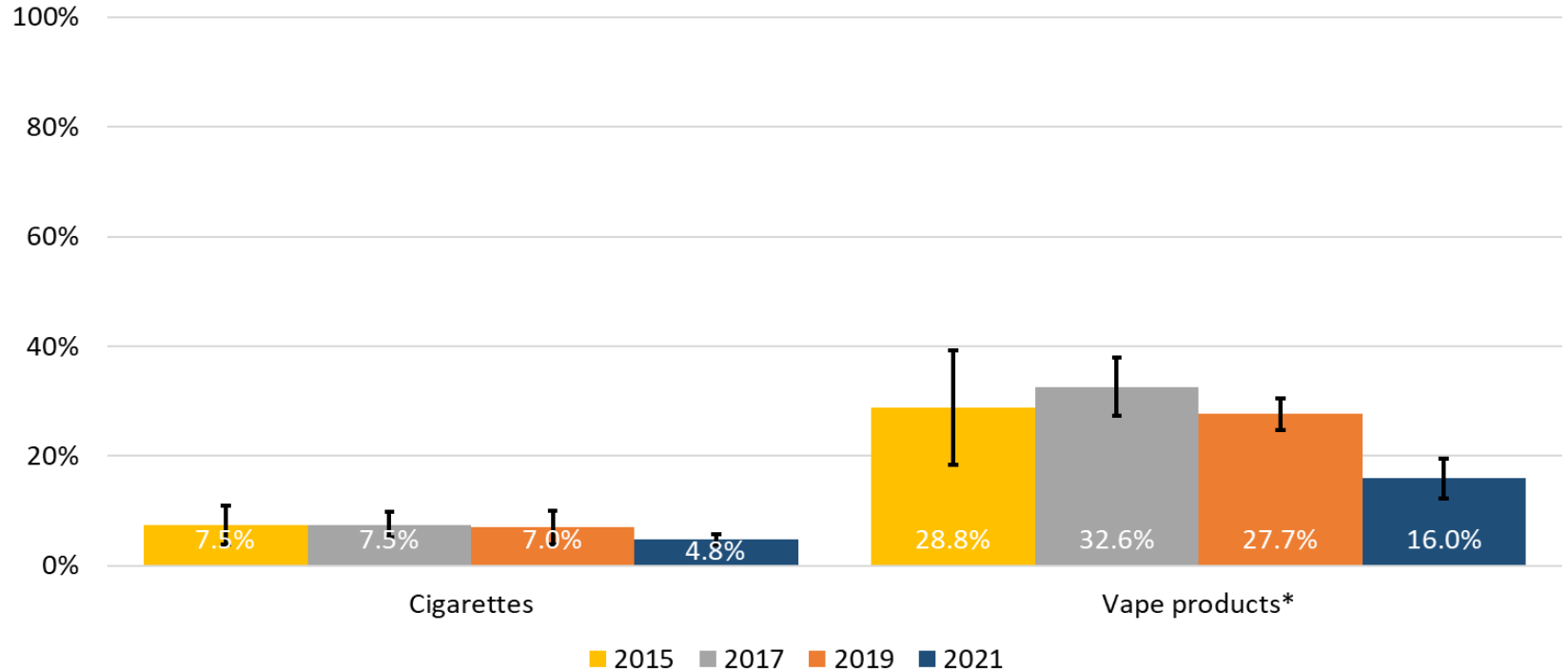
## Ever and past 30-day use of vape products, BVSD middle school students, Healthy Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level. † Denotes data is suppressed.

Source: 2021 Healthy Kids Colorado Survey

## Past 30-day use of cigarettes and vape products, BVSD high school students, Healthy Kids Colorado Survey, 2015-2021



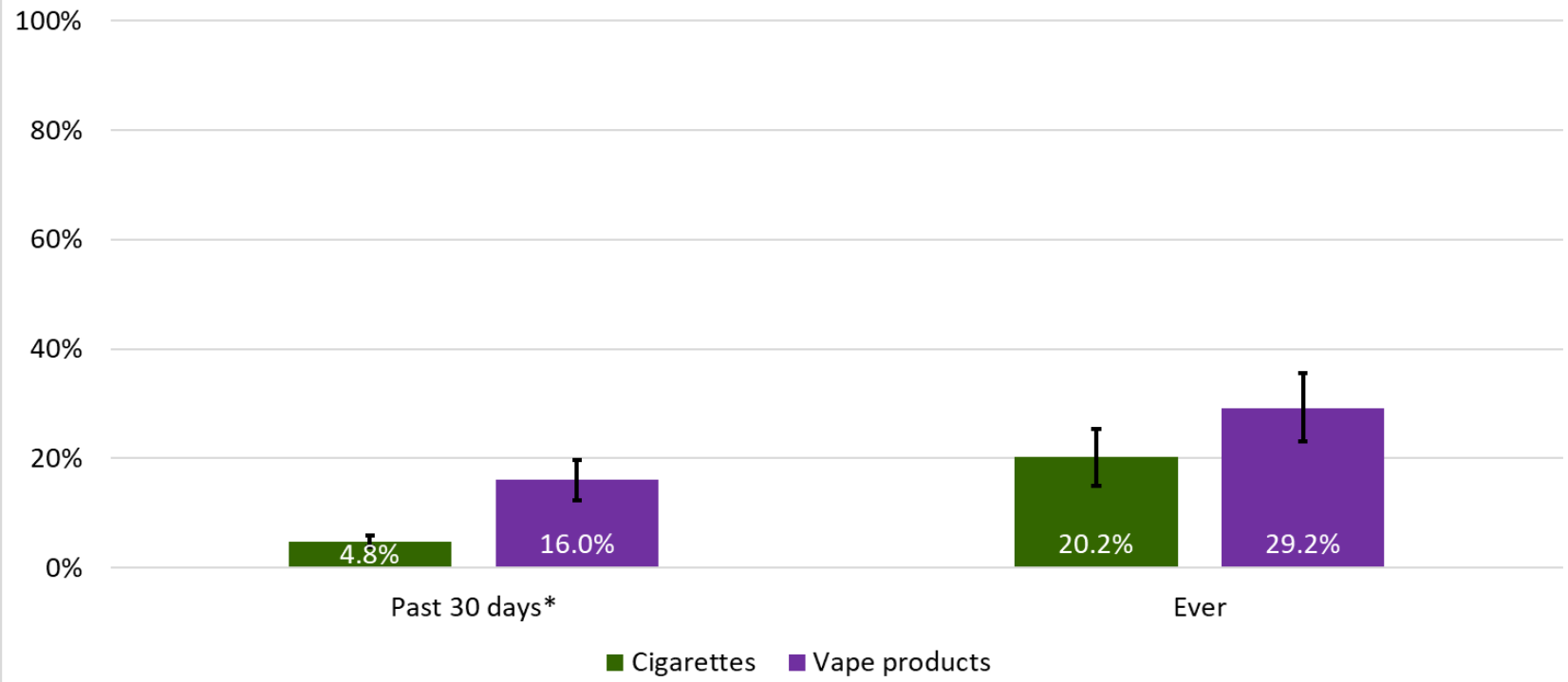
\* Denotes statistical significance at the  $p < 0.05$  level comparing 2021 to 2019 only.

Source: 2015 - 2021 Healthy Kids Colorado Survey





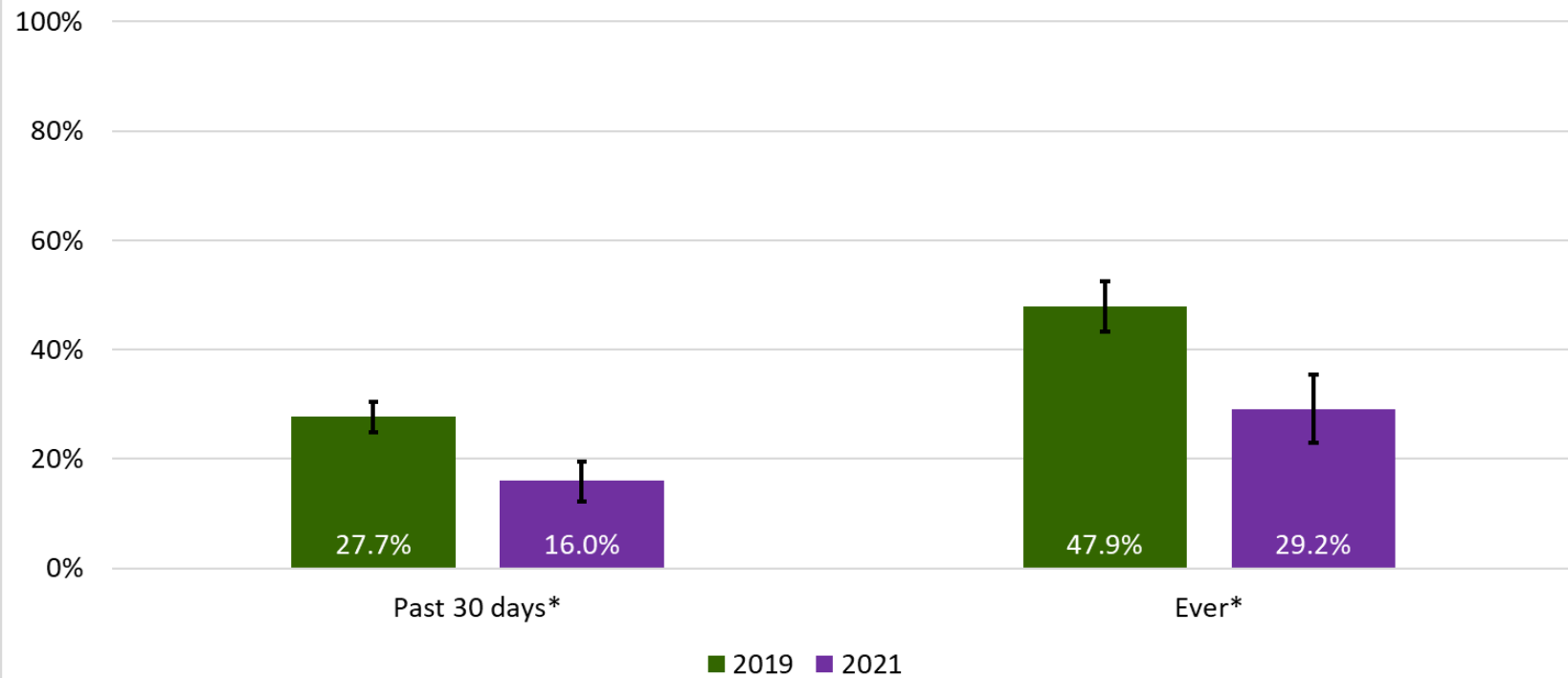
### Past 30-day and ever use of cigarettes and vape products, BVSD high school students, Healthy Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

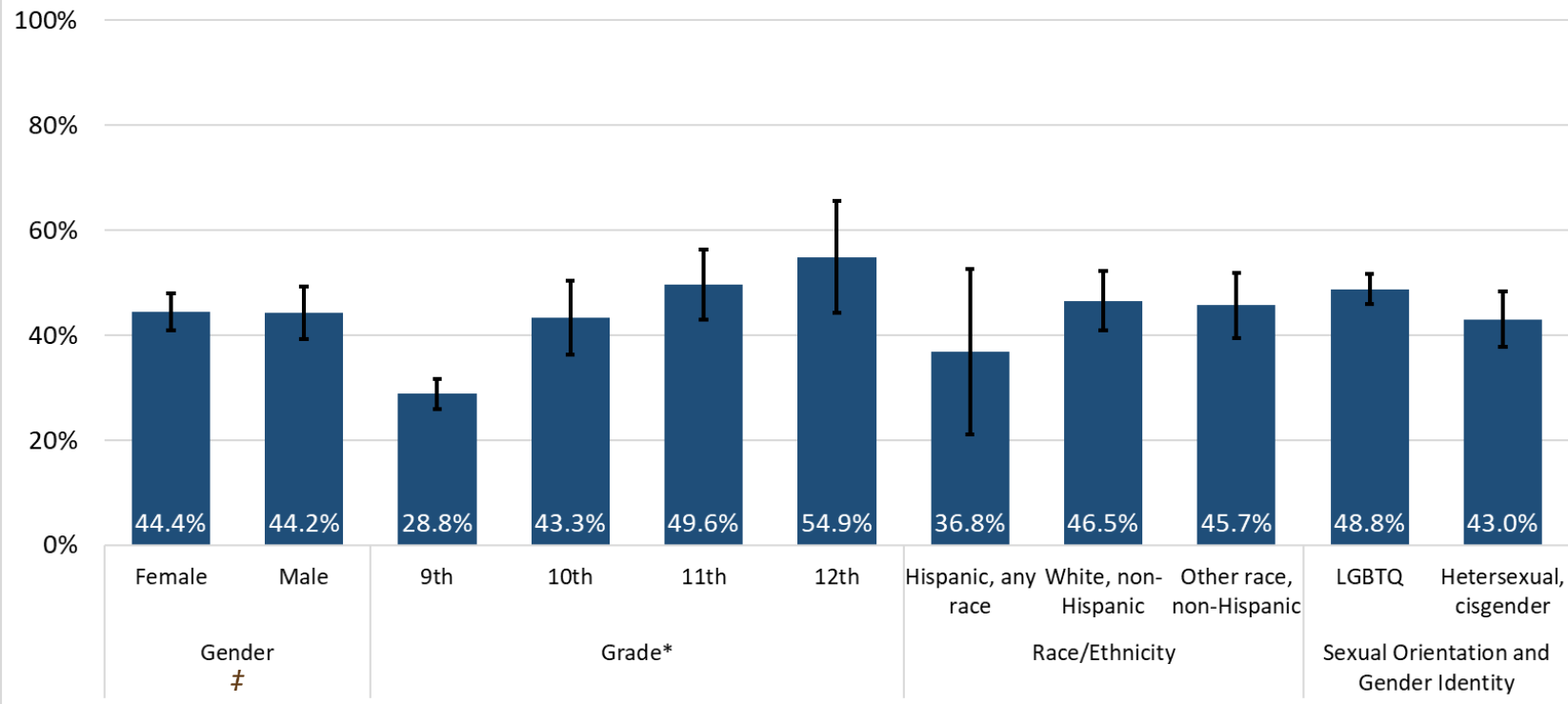
## Ever and past 30-day use of vape products, BVSD high school students, Healthy Kids Colorado Survey, 2019 & 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2019 & 2021 Healthy Kids Colorado Survey

## Feel it would be sort of easy or very easy to get cigarettes if they wanted, BVSD high school students, Healthy Kids Colorado Survey, 2021

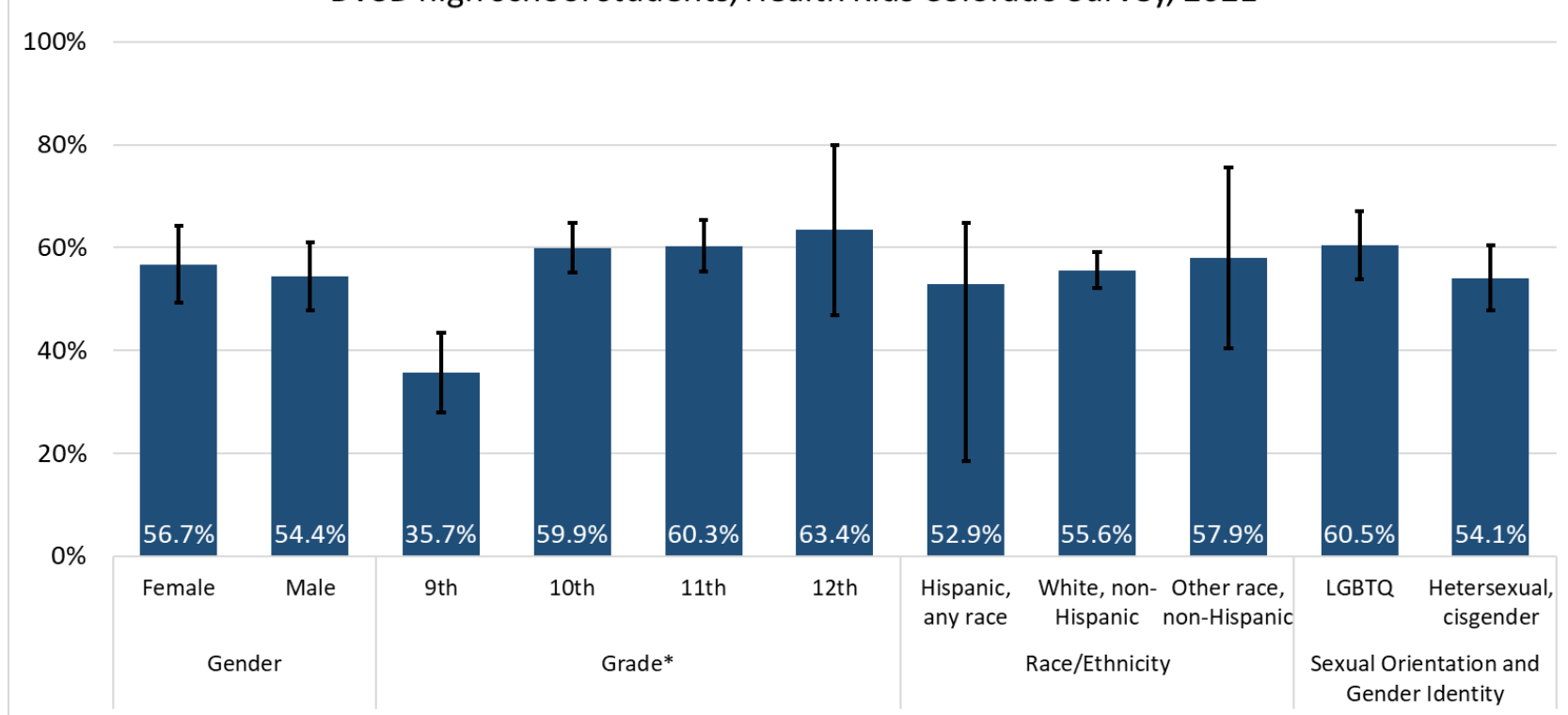


HC: Heterosexual and cisgender; LGBTQ: Lesbian, gay, bisexual, transgender, or questioning

Source: 2021 Healthy Kids Colorado Survey

\* Denotes statistical significance at the  $p < 0.05$  level.

## Feel it would be sort of easy or very easy to get vape products if they wanted, BVSD high school students, Health Kids Colorado Survey, 2021



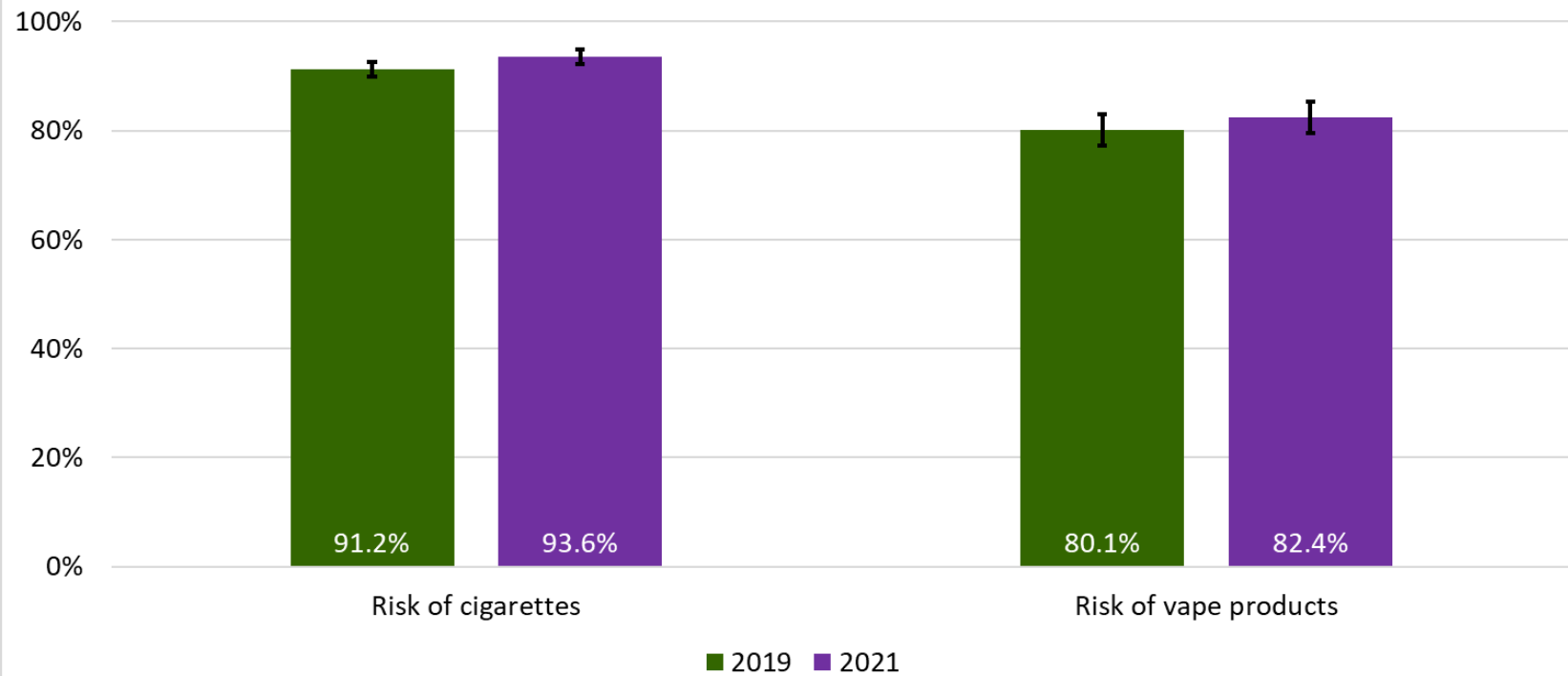
HC: Heterosexual and cisgender; LGBTQ: Lesbian, gay, bisexual, transgender, or questioning

Source: 2021 Healthy Kids Colorado Survey

\* Denotes statistical significance at the  $p < 0.05$  level.



### Perceived risk of harm of those who use the following substances daily, BVSD high school students, Healthy Kids Colorado Survey, 2019 & 2021

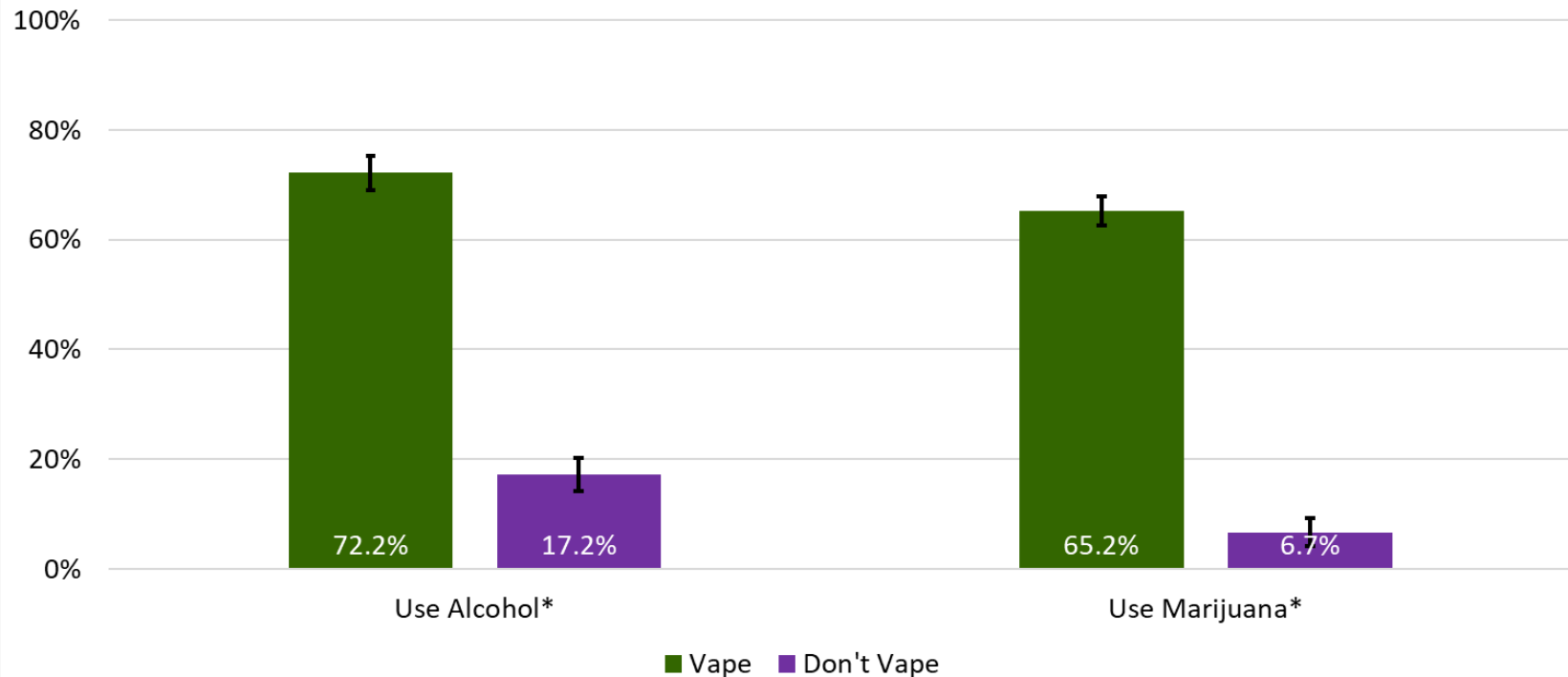


\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2019 & 2021 Healthy Kids Colorado Survey



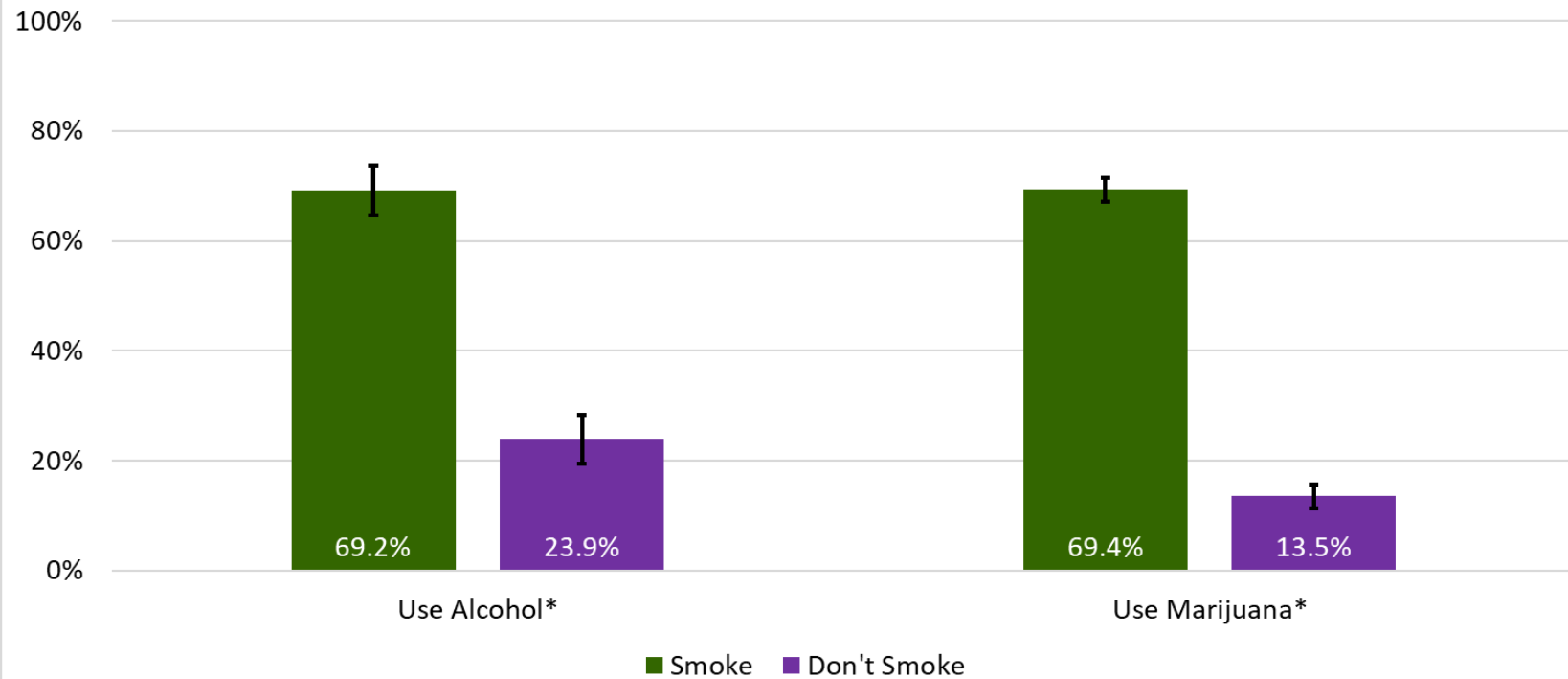
### Past 30-day use of alcohol and marijuana by past 30-day use of vape products, BVSD high school students, Healthy Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

## Past 30-day use of alcohol and marijuana by past 30-day use of cigarettes, BVSD high school students, Healthy Kids Colorado Survey, 2021



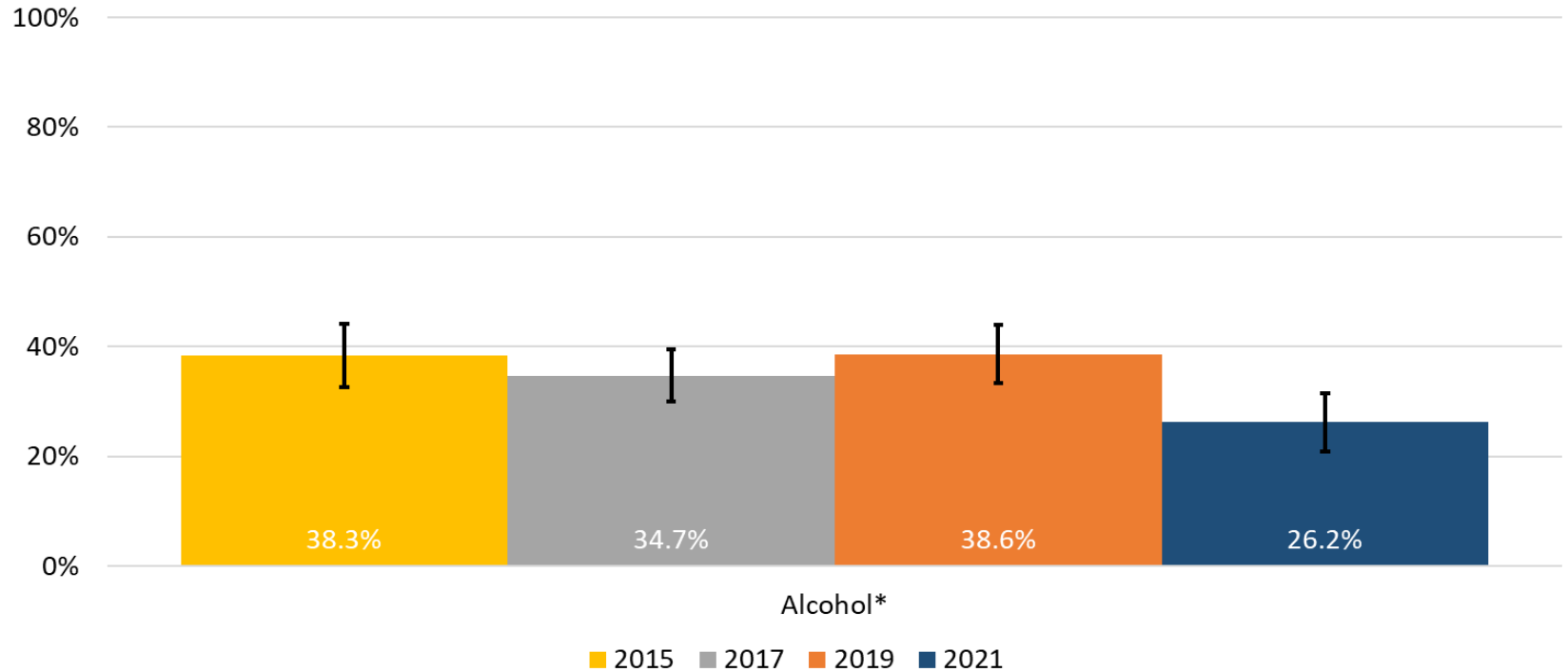
\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

# Alcohol Use



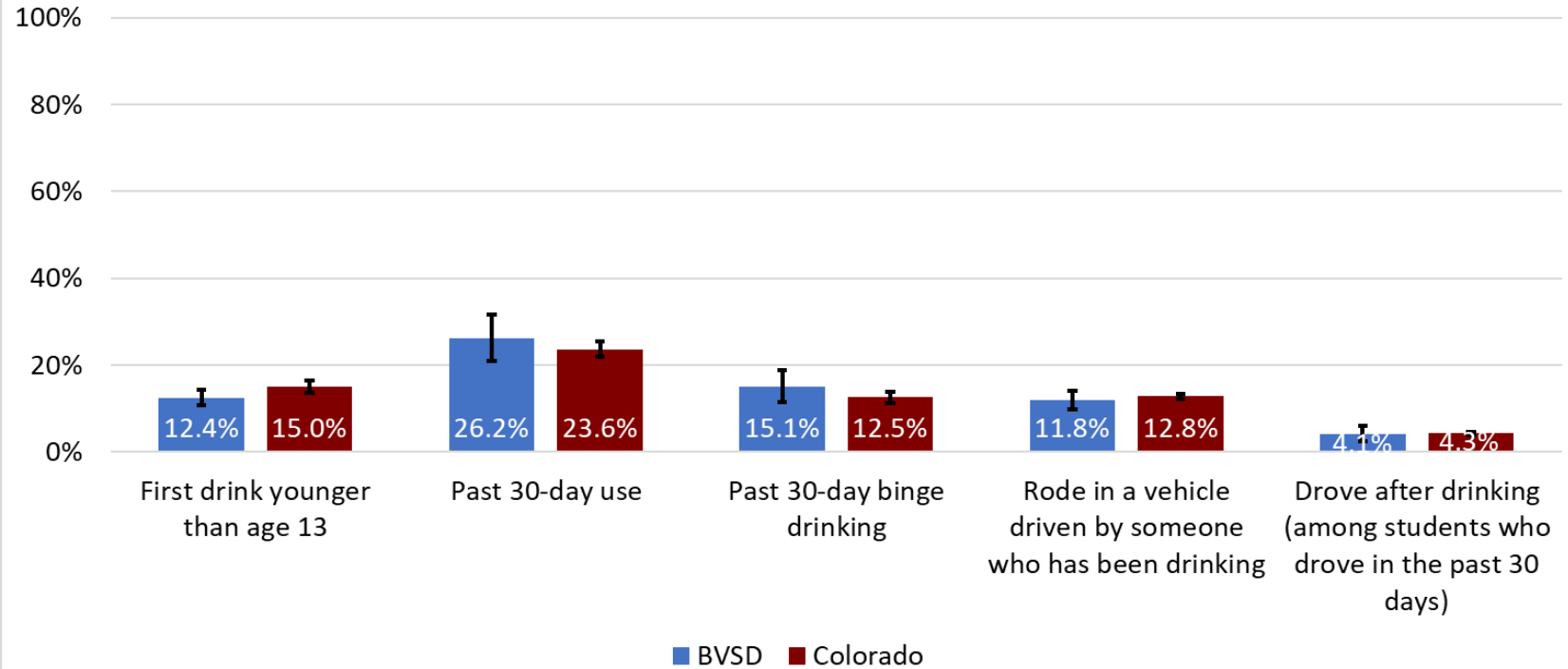
## Past 30-day use of alcohol, BVSD high school students, Healthy Kids Colorado Survey, 2015-2021



\* Denotes statistical significance at the  $p < 0.05$  level comparing 2021 to 2019 only.

Source: 2015 - 2021 Healthy Kids Colorado Survey

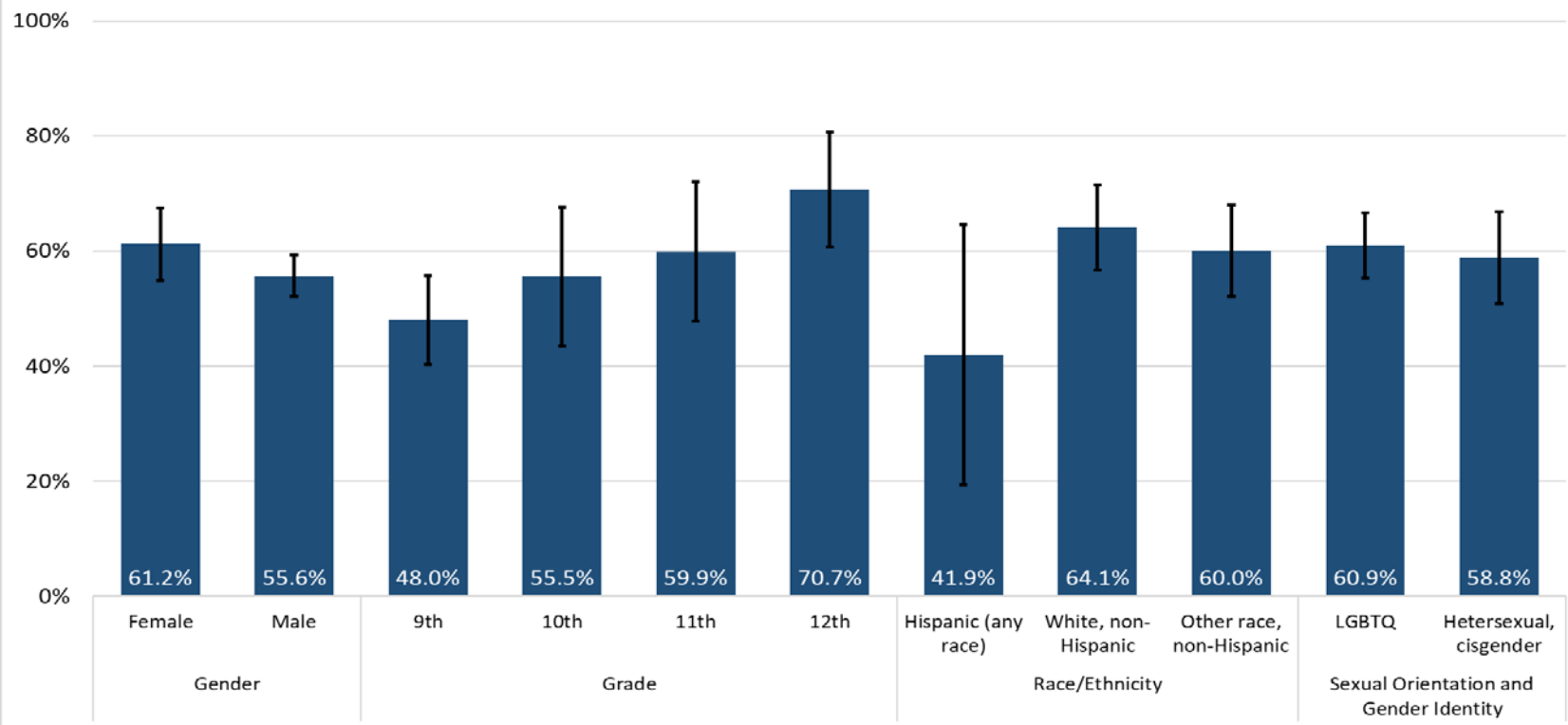
## Alcohol related indicators, BVSD and Colorado high school students, Healthy Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

Feel it would be sort of easy or very easy to get alcohol if they wanted, BVSD high school students, Health Kids Colorado Survey, 2021

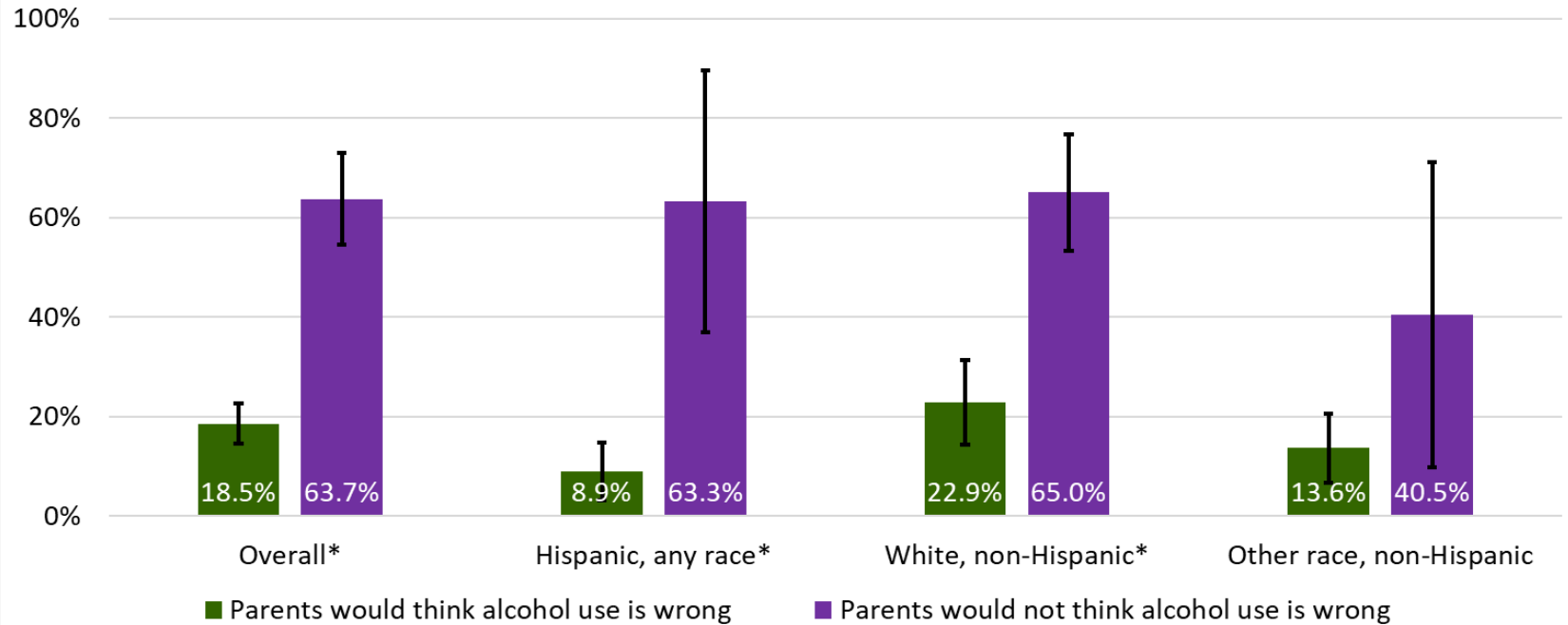


HC: Heterosexual and cisgender; LGBTQ: Lesbian, gay, bisexual, transgender, or questioning

\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

Past 30-day alcohol use by whether student reports their parents would think it is wrong for them to use alcohol, BVSD high school students, Healthy Kids Colorado Survey, 2021

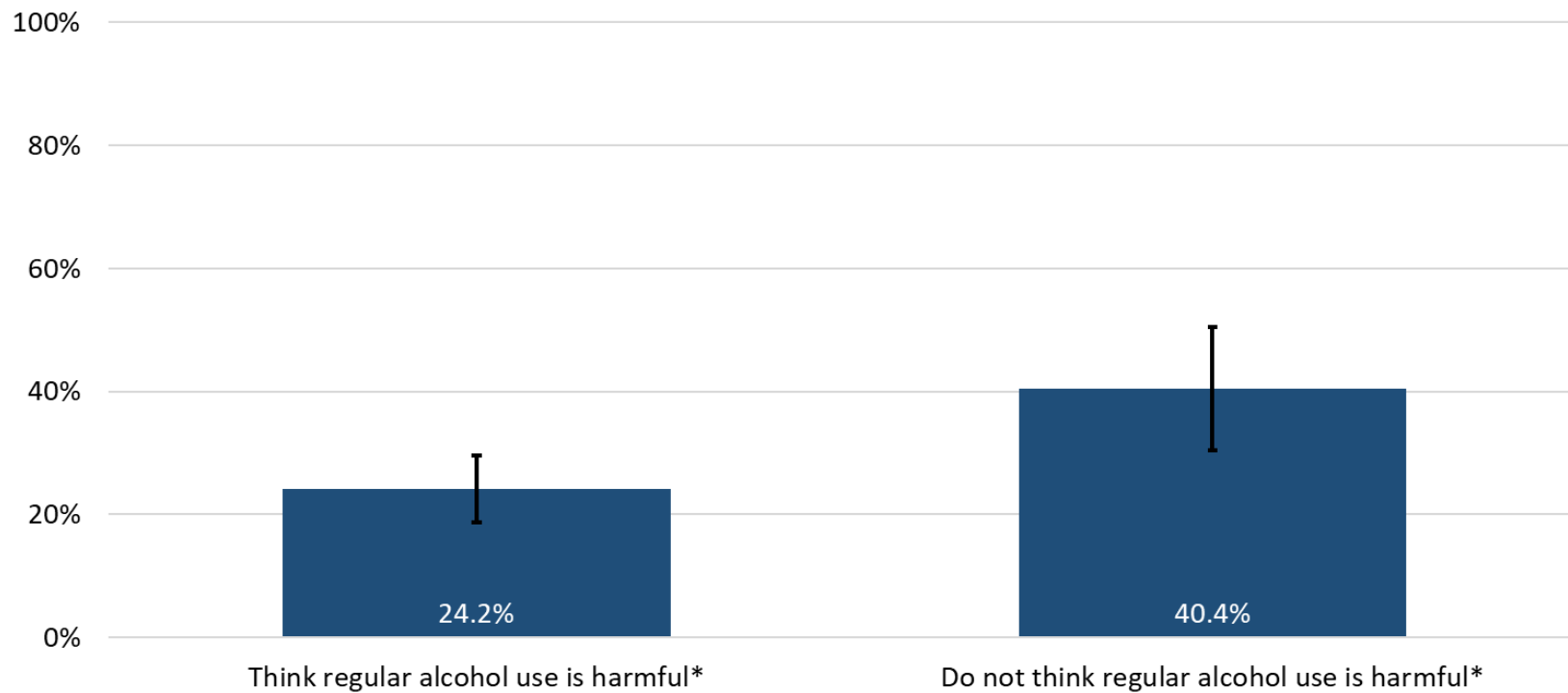


\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey



### Past 30-day alcohol use by perception of alcohol harm, BVSD high school students, Healthy Kids Colorado Survey, 2021

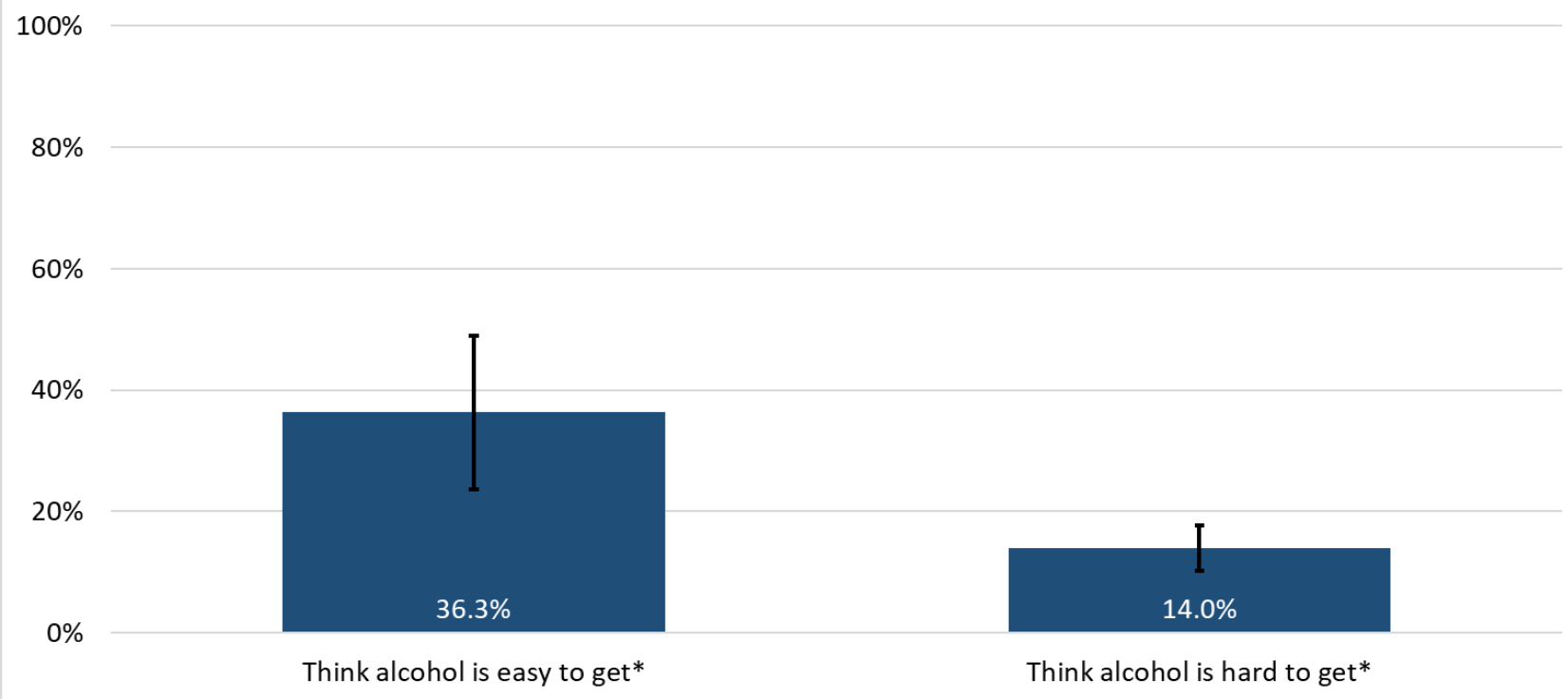


\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey



### Past 30-day alcohol use by ease of access to alcohol, BVSD high school students, Healthy Kids Colorado Survey, 2021

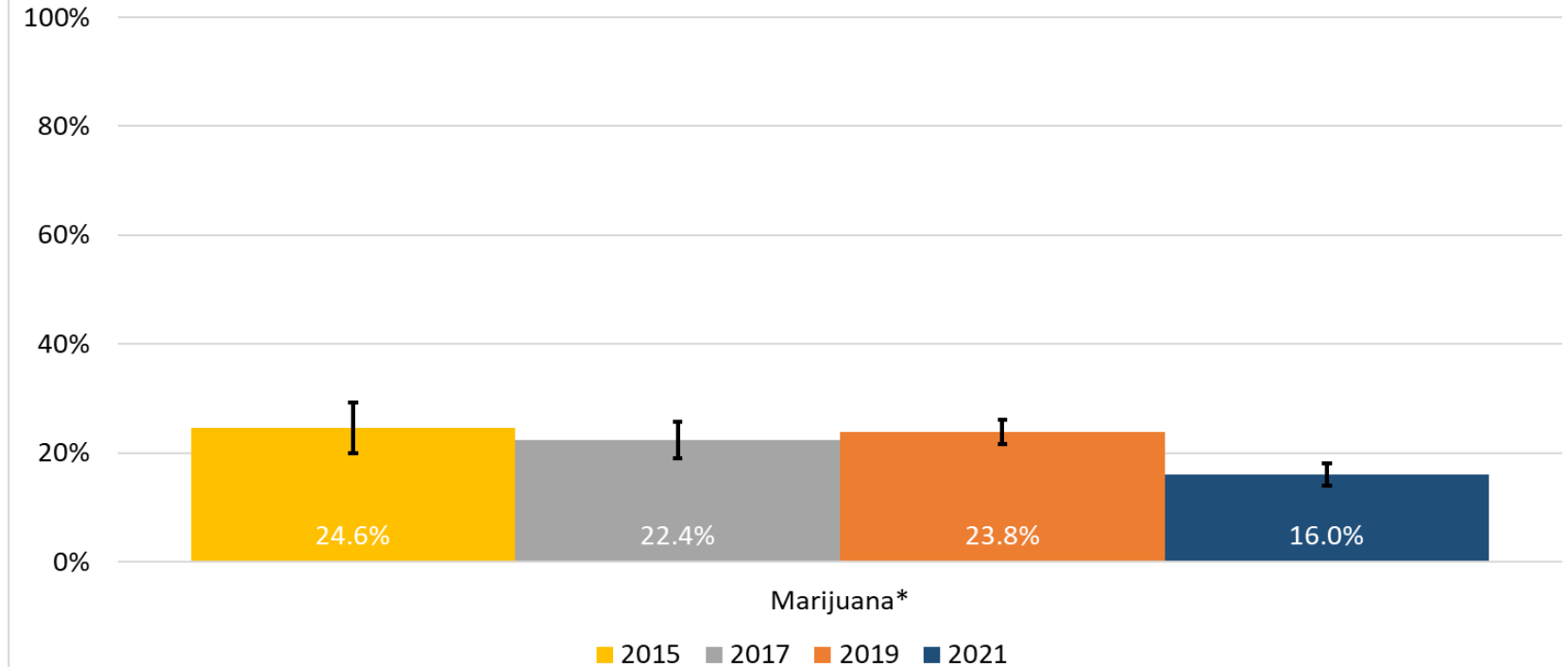


\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

# Marijuana Use

## Past 30-day use of marijuana, BVSD high school students, Healthy Kids Colorado Survey, 2015-2021

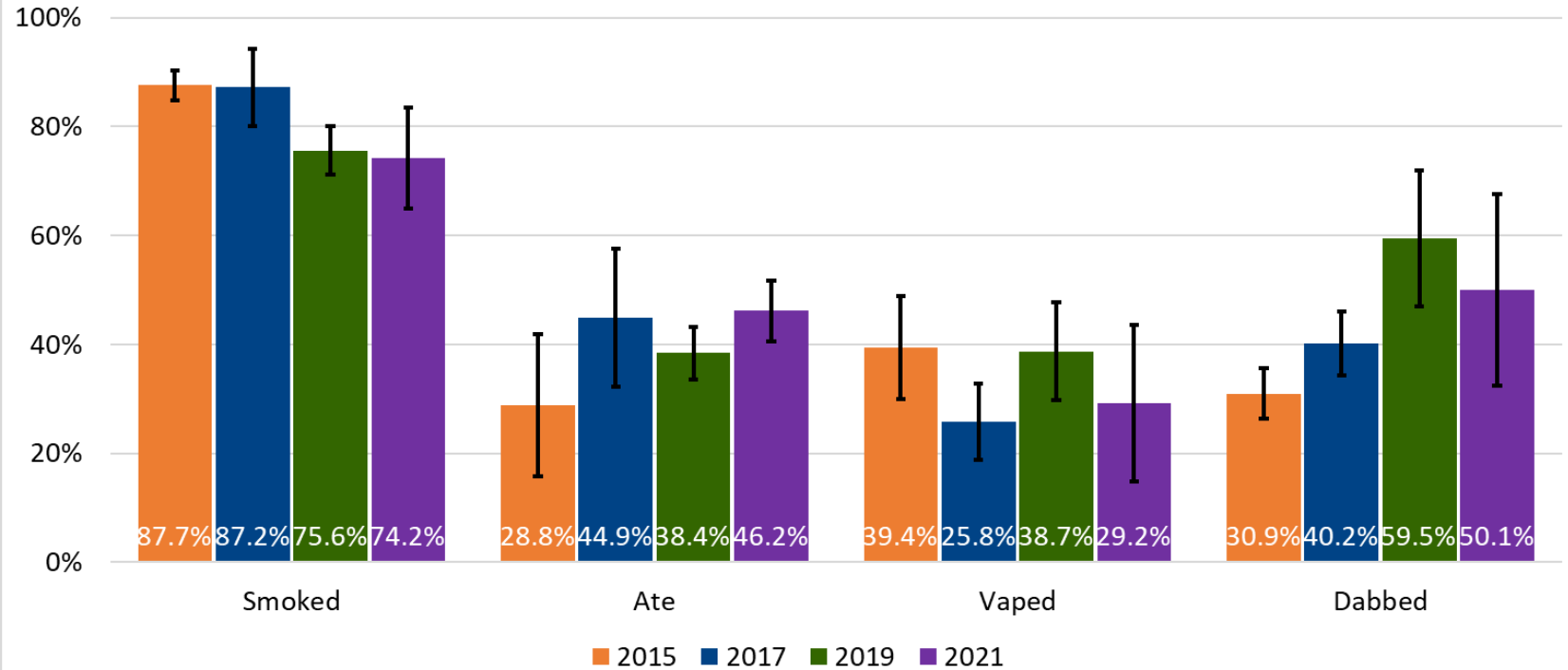


\* Denotes statistical significance at the  $p < 0.05$  level comparing 2021 to 2019 only.

Source: 2015 - 2021 Healthy Kids Colorado Survey



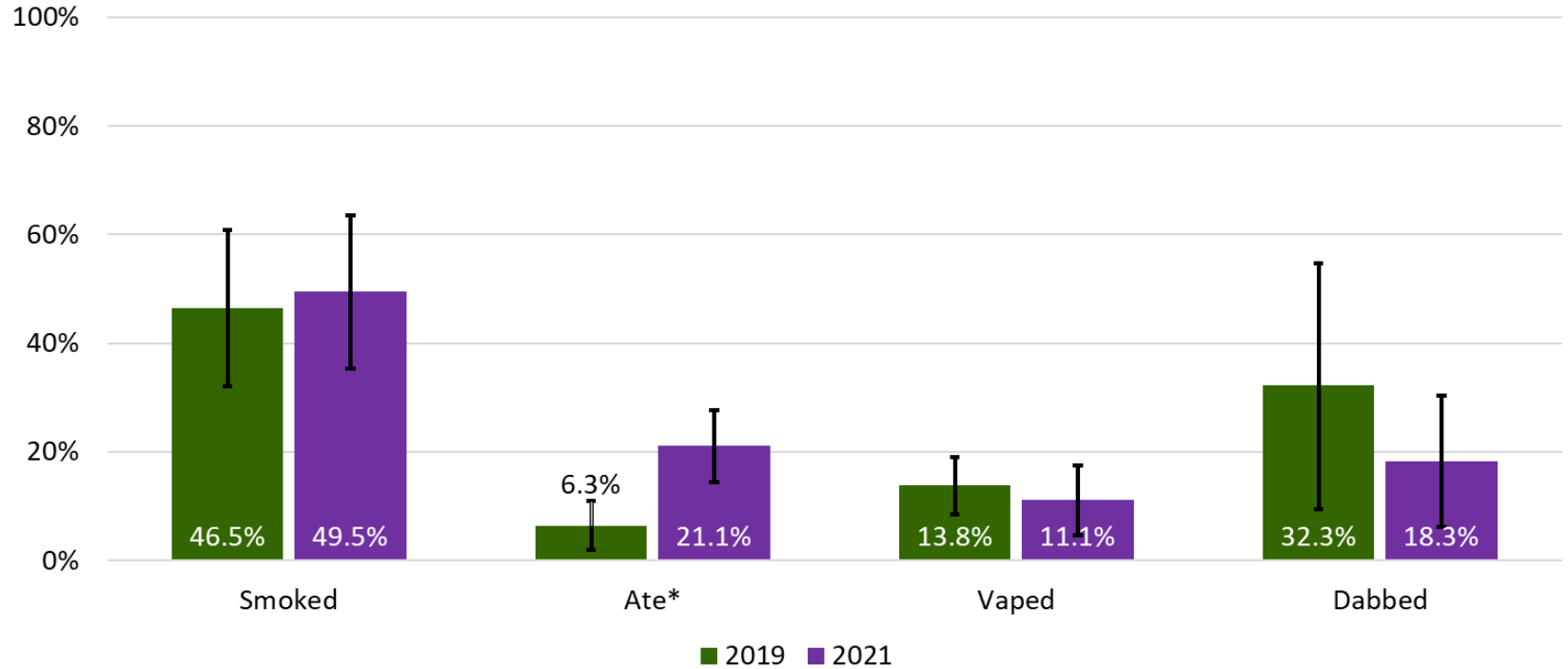
## Method of marijuana use among those who used marijuana in the past 30 days, BVSD high school students, Healthy Kids Colorado Survey, 2015-2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2019 & 2021 Healthy Kids Colorado Survey

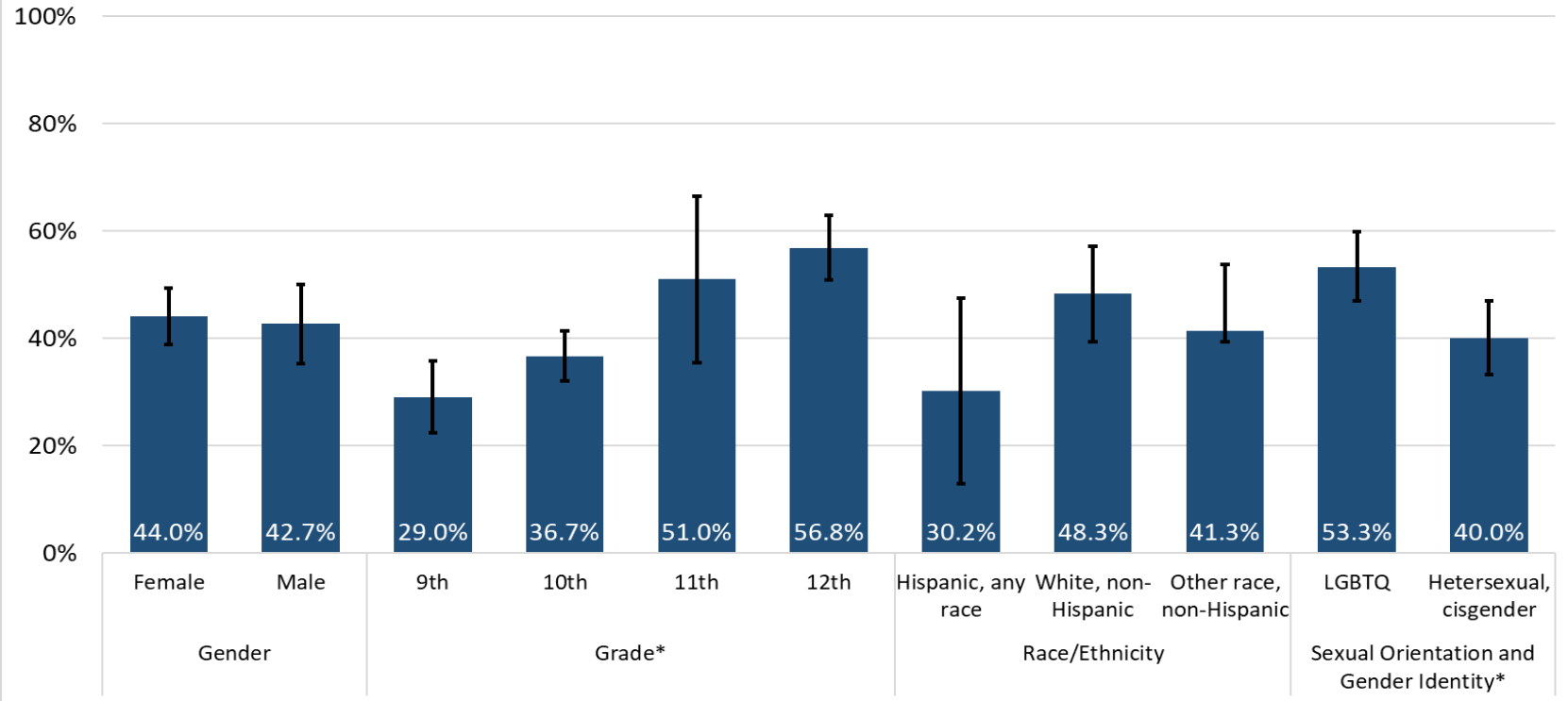
Usual method of marijuana use among those who used marijuana in the past 30 days, BVSD high school students, Healthy Kids Colorado Survey, 2019 & 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2019 & 2021 Healthy Kids Colorado Survey

## Feel it would be sort of easy or very easy to get marijuana if they wanted, BVSD high school students, Health Kids Colorado Survey, 2021



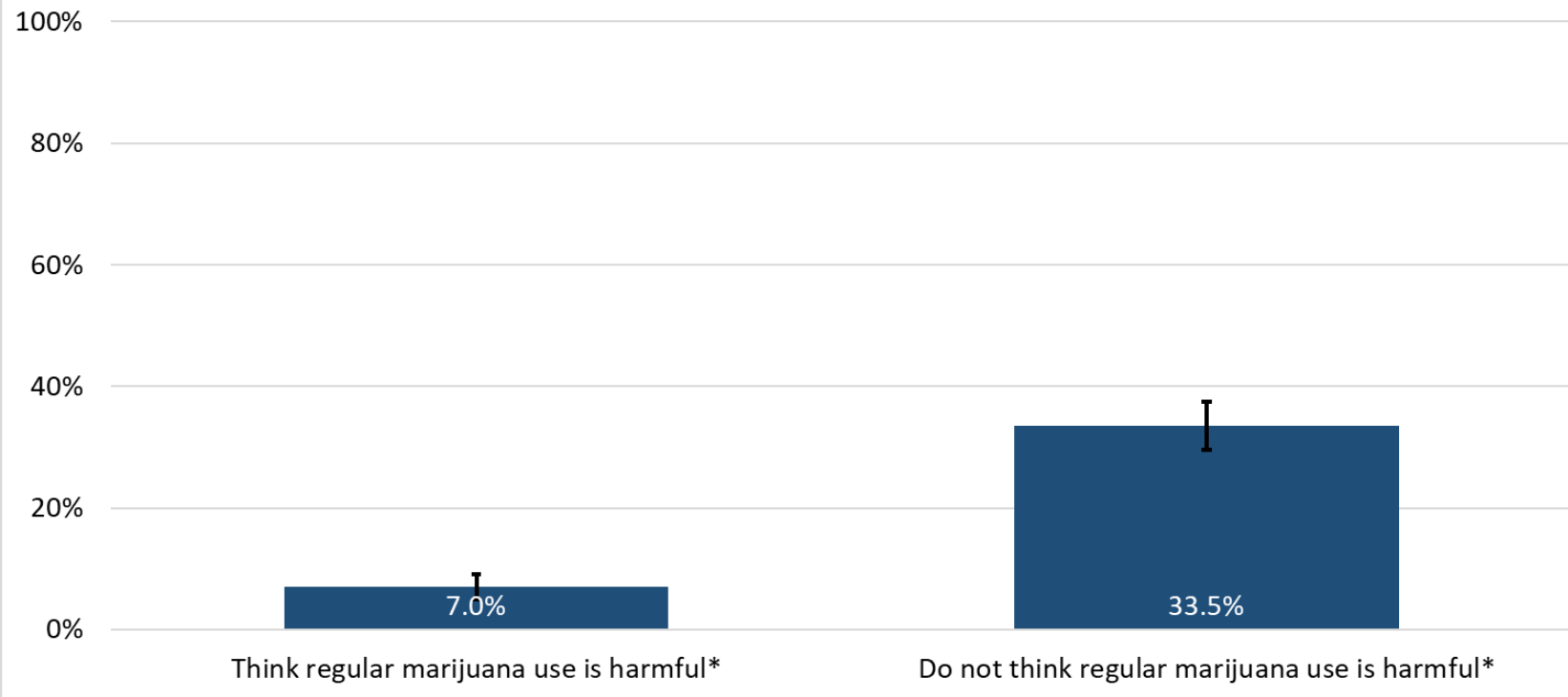
HC: Heterosexual and cisgender; LGBTQ: Lesbian, gay, bisexual, transgender, or questioning

\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey



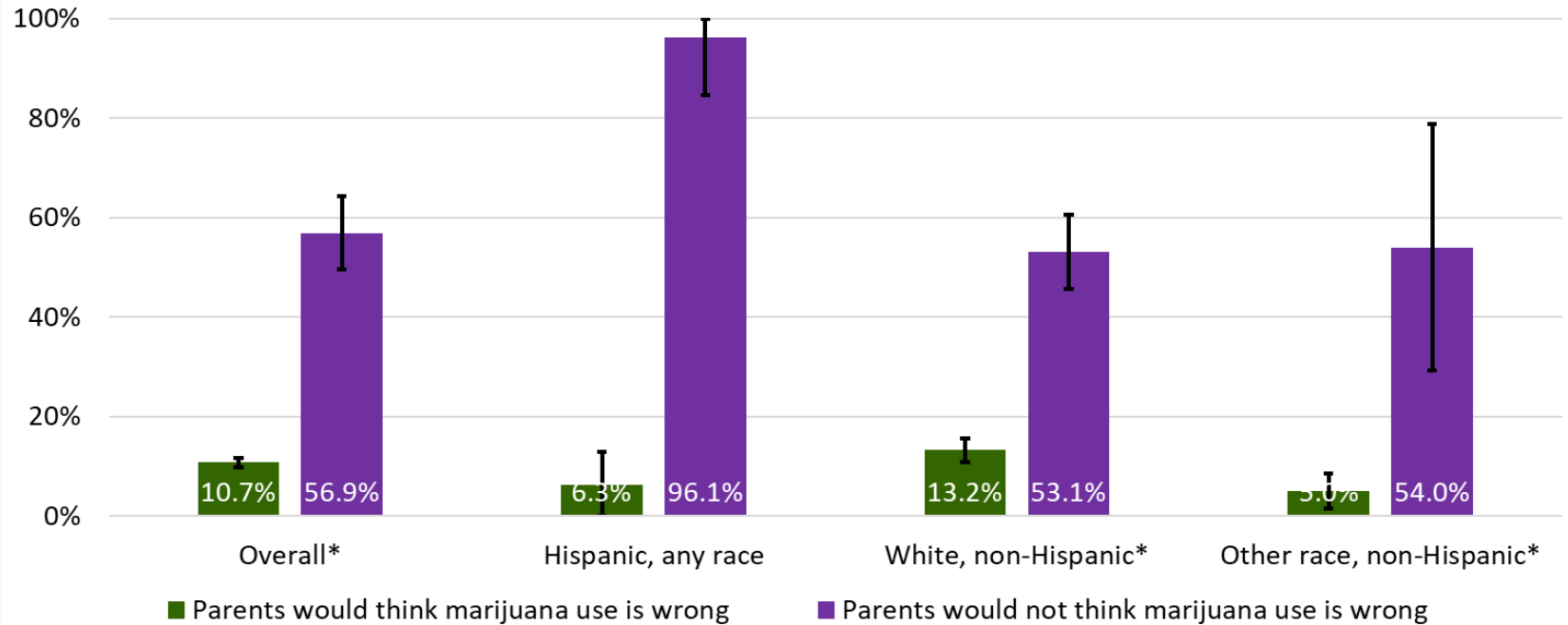
### Past 30-day marijuana use by perception of marijuana harm, BVSD high school students, Healthy Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

Past 30-day marijuana use by whether student reports their parents would think it is wrong for them to use marijuana, BVSD high school students, Healthy Kids Colorado Survey, 2021



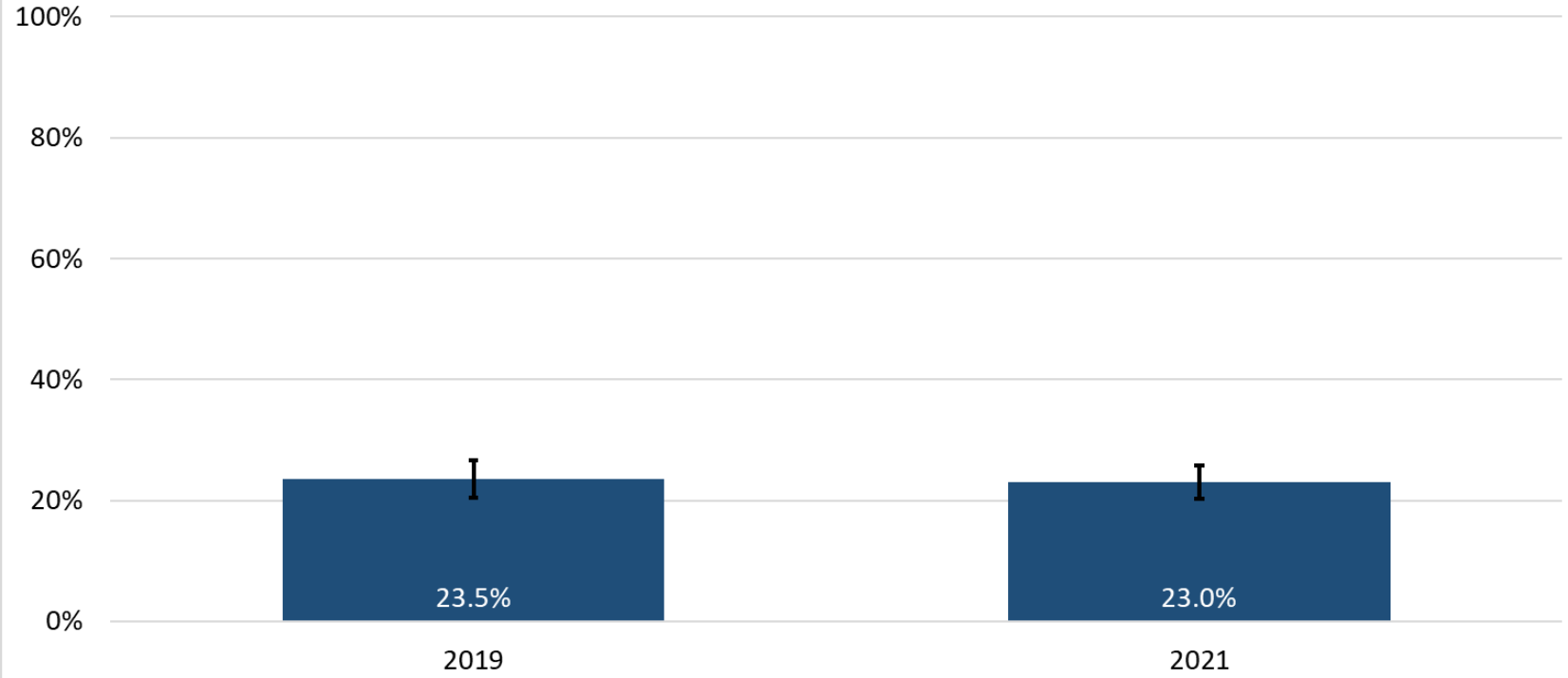
\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey



# **Mental health and bullying**

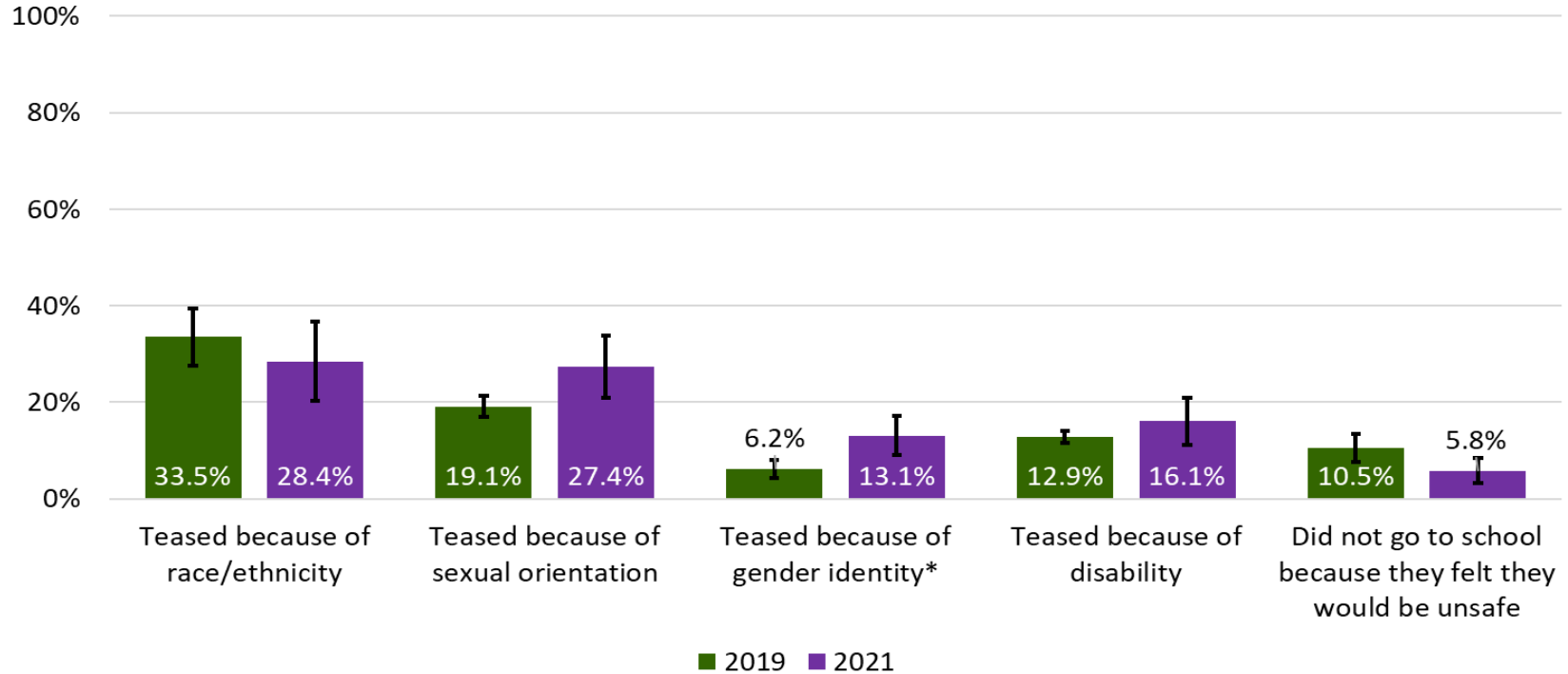
Percentage of students who reported being teased in the past 12 months,  
BVSD high school students, Healthy Kids Colorado Survey, 2019-2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2019 & 2021 Healthy Kids Colorado Survey

## Teasing indicators, BVSD high school students, Healthy Kids Colorado Survey, 2019 & 2021



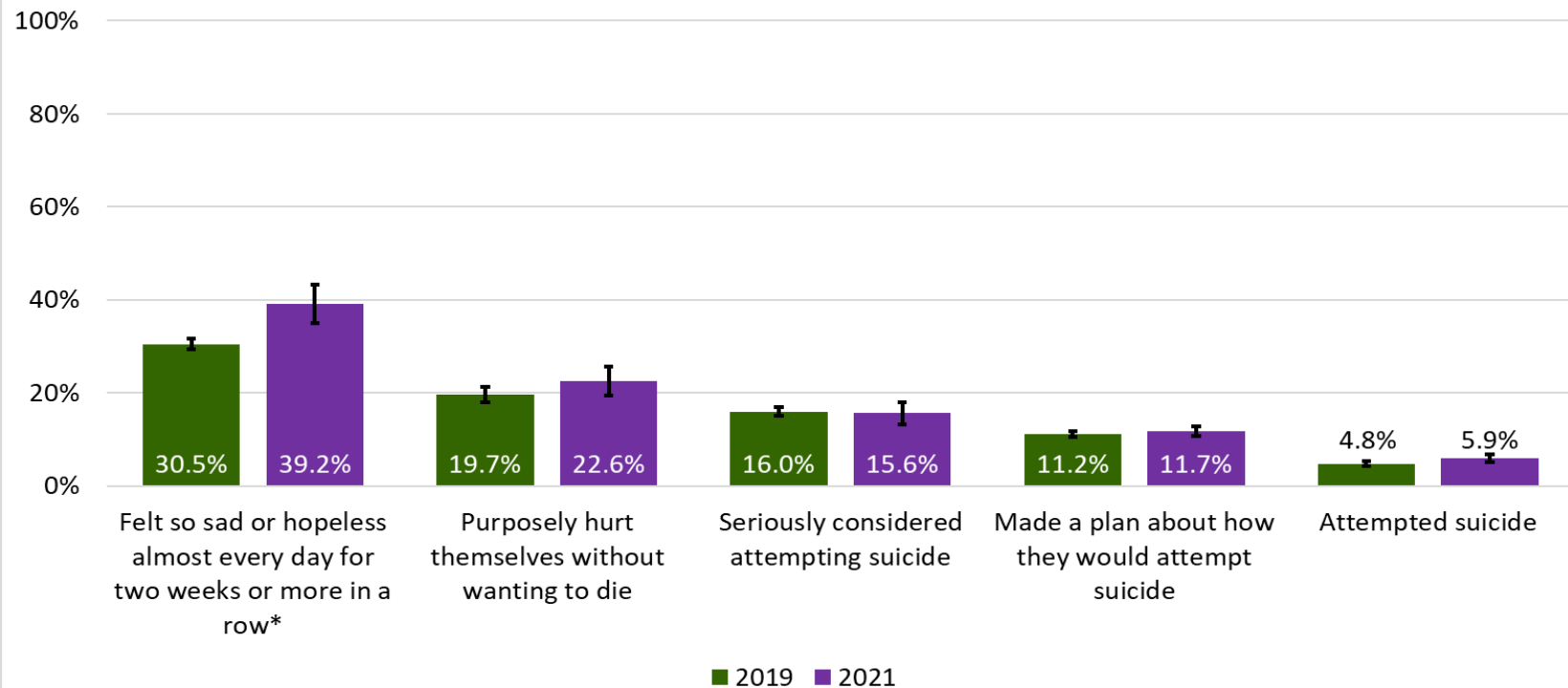
\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2019 & 2021 Healthy Kids Colorado Survey



Reason for teasing	Percent of all students reporting they were teased for this reason	Percent of teased students reporting they were teased for this reason
Race/ethnicity	6.5%	28.4%
Sexual orientation	6.3%	27.4%
Gender identity	3.0%	13.1%
Disability	3.7%	16.1%

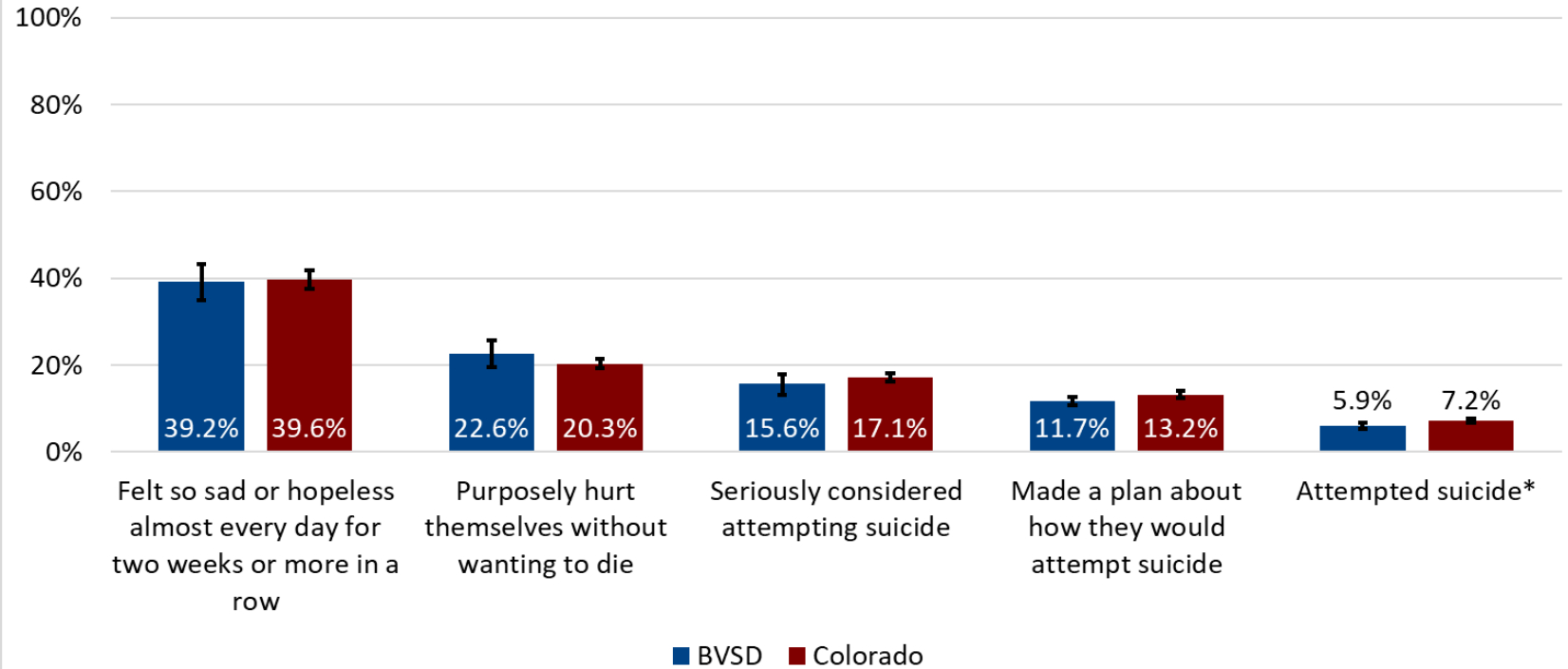
## Mental health indicators, BVSD high school students, Healthy Kids Colorado Survey, 2019 & 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2019 & 2021 Healthy Kids Colorado Survey

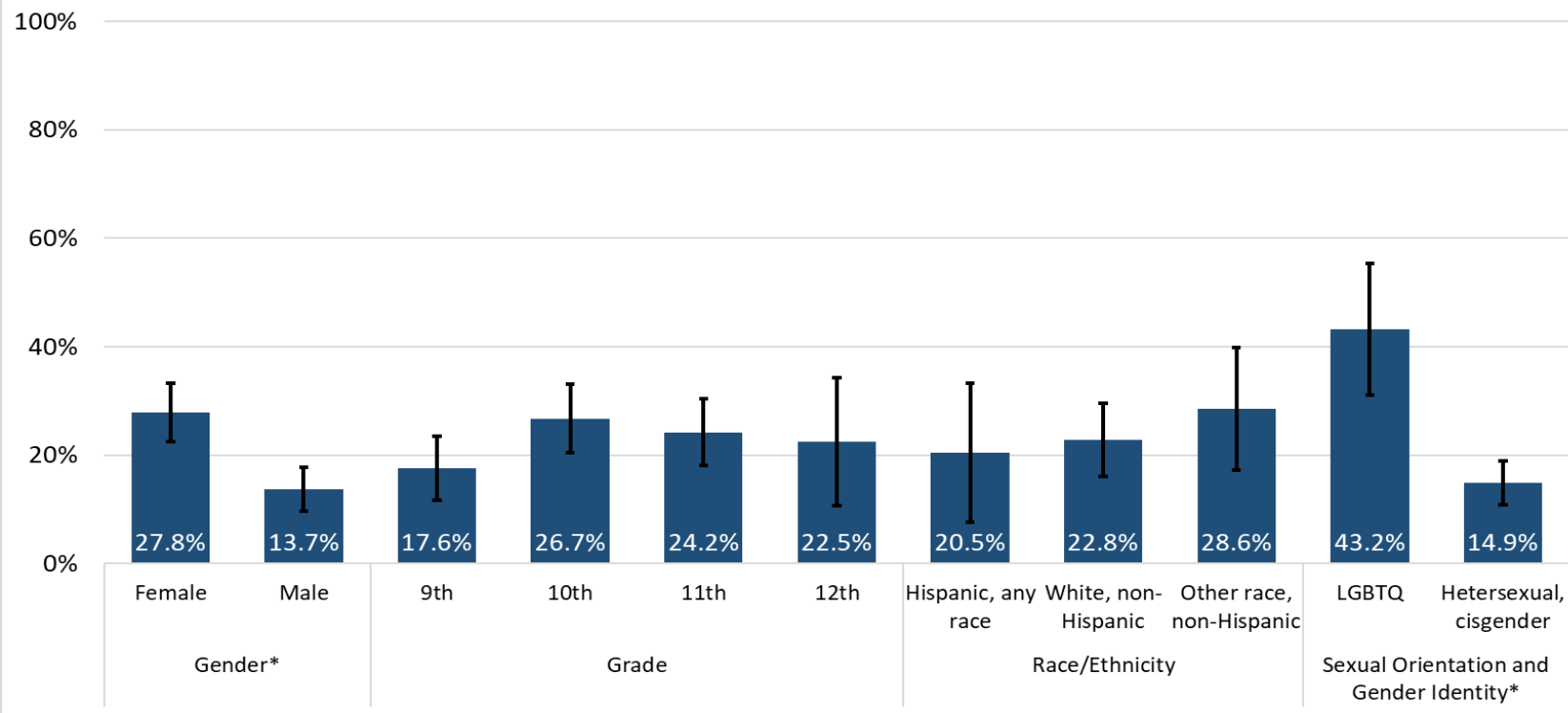
## Mental health indicators, BVSD and Colorado high school students, Healthy Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

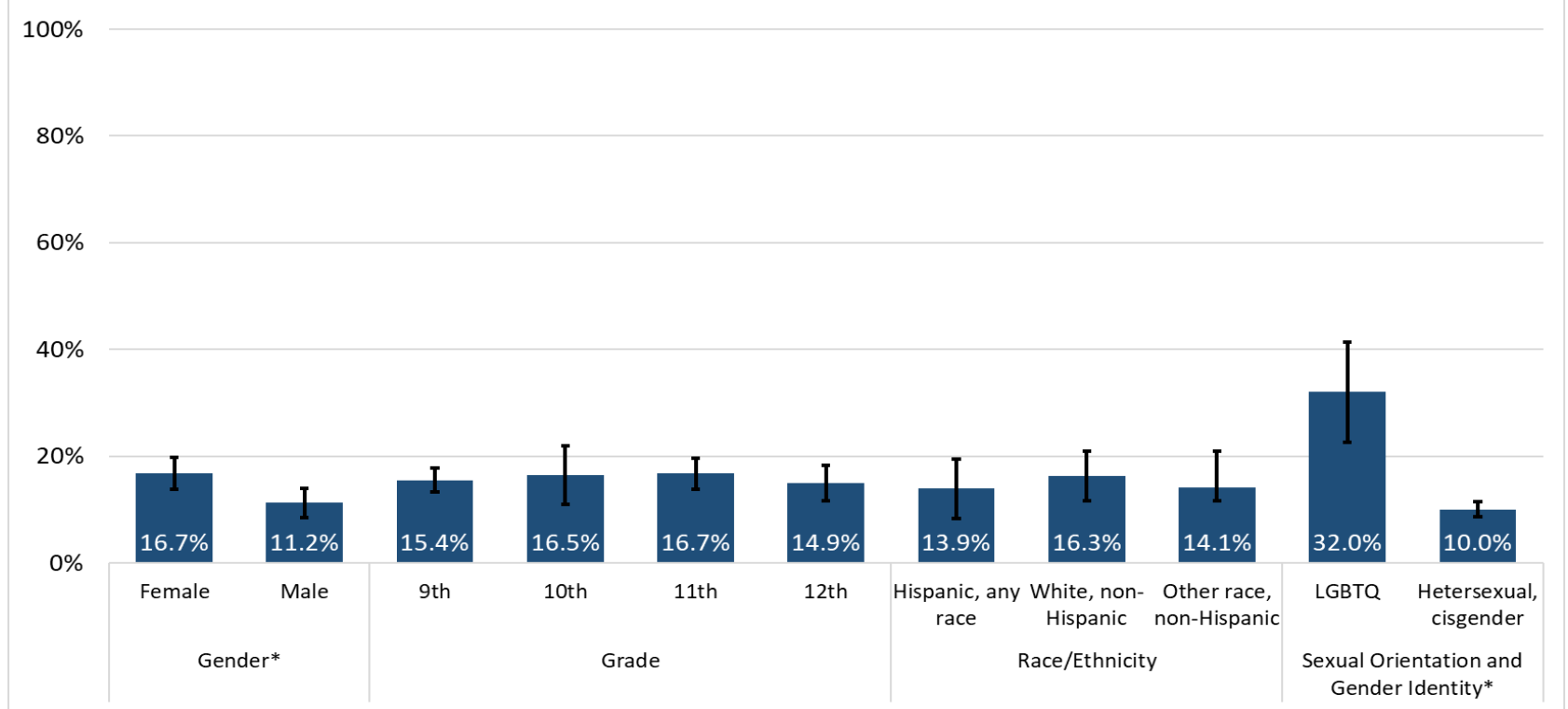
## Purposely hurt themselves without wanting to die in past 12 months, BVSD high school students, Health Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

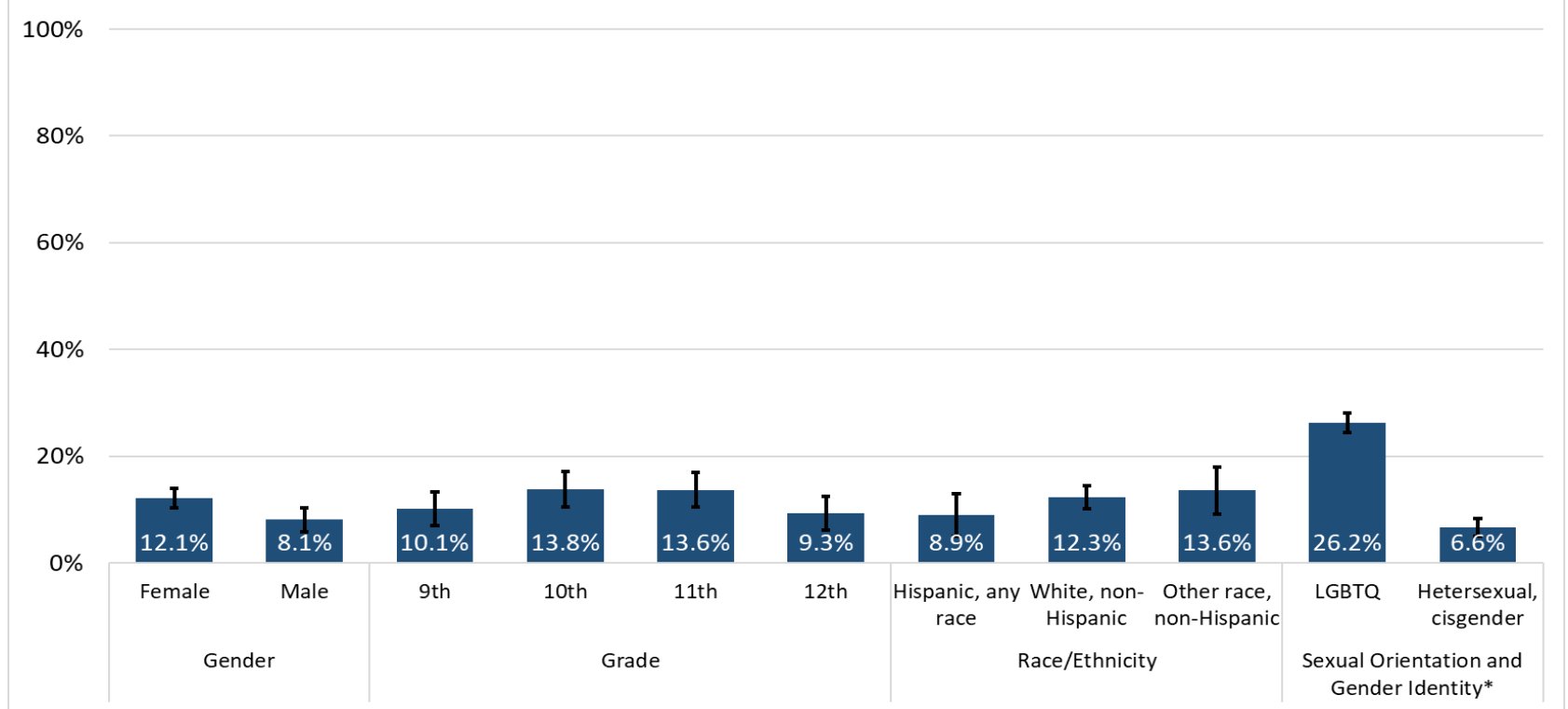
## Seriously considered suicide in past 12 months, BVSD high school students, Health Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

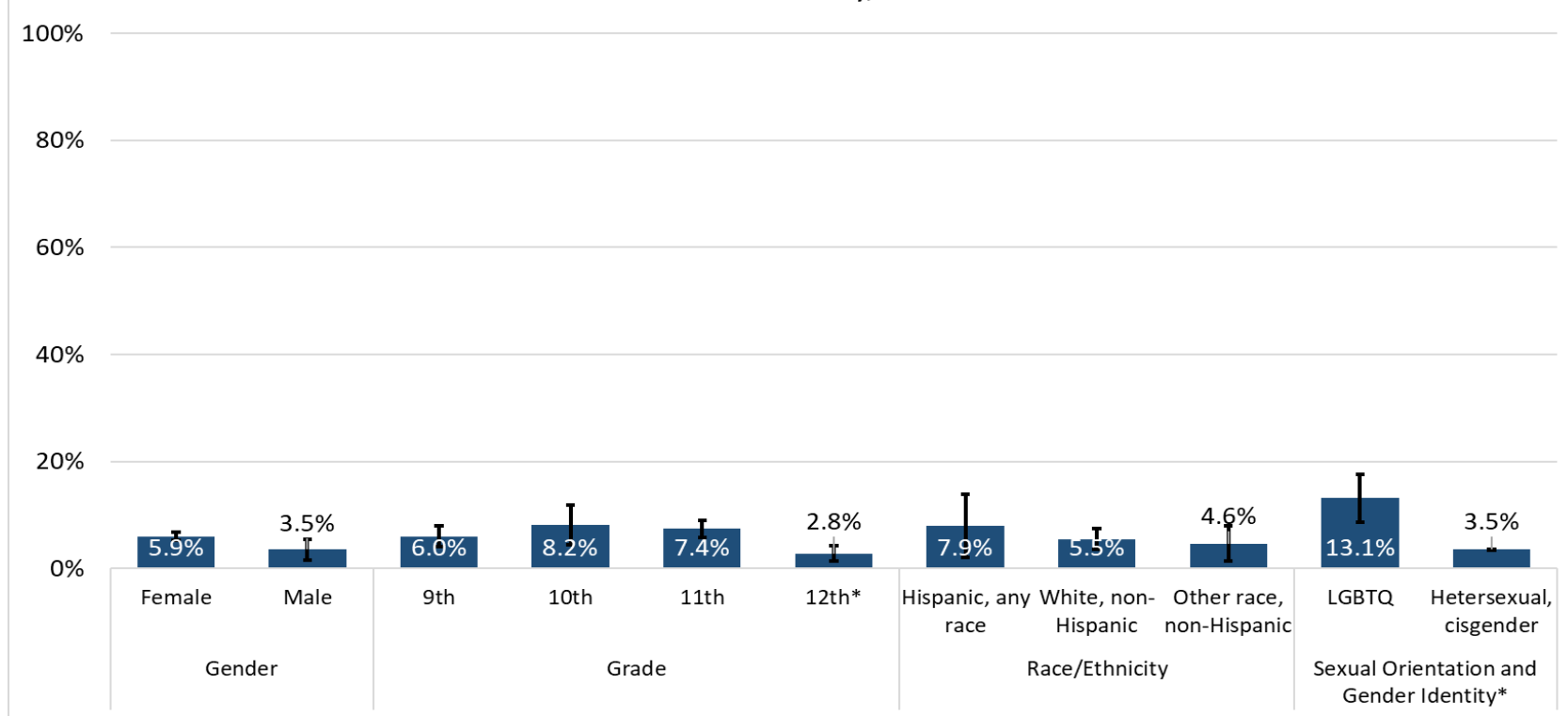
## Made a plan about suicide in past 12 months, BVSD high school students, Health Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

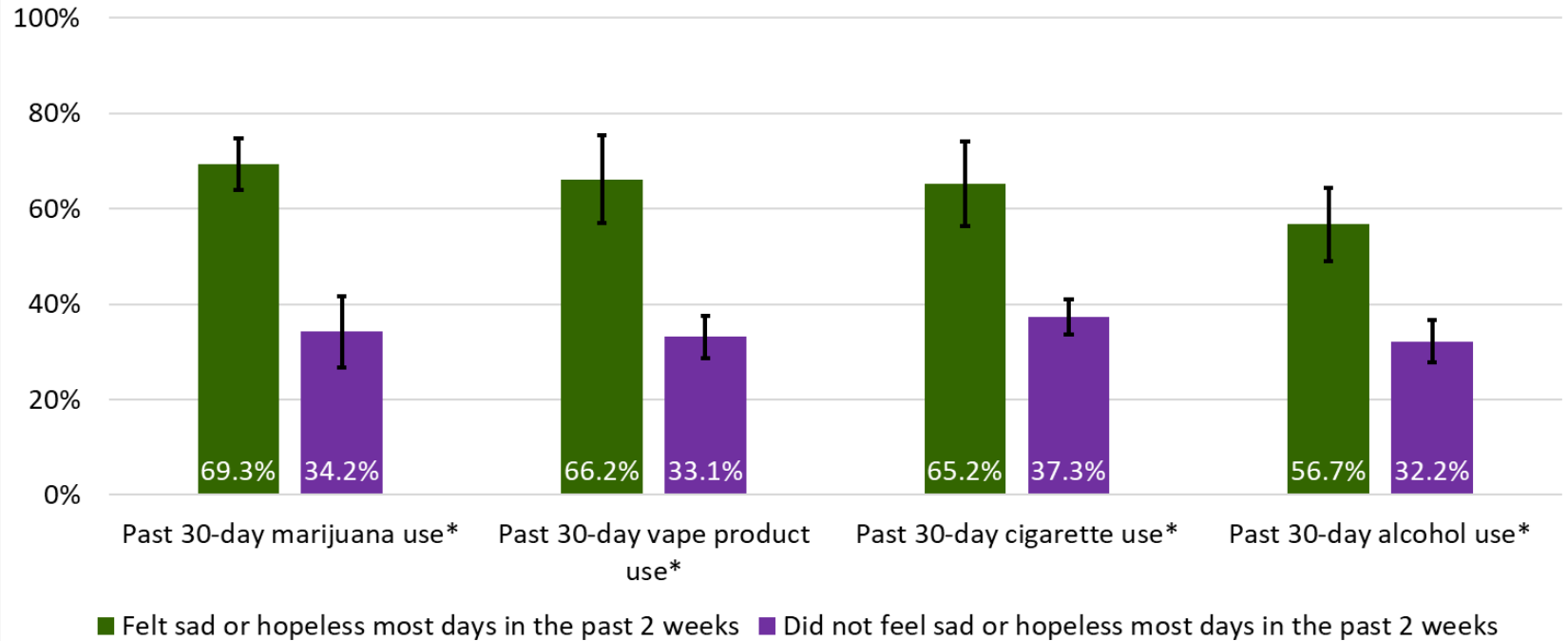
## Attempted suicide in past 12 months, BVSD high school students, Health Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

Felt so sad or hopeless that they stopped doing usual activities among those who did and did not use substances in the past 30 days, BVSD high school students, Healthy Kids Colorado Survey, 2021

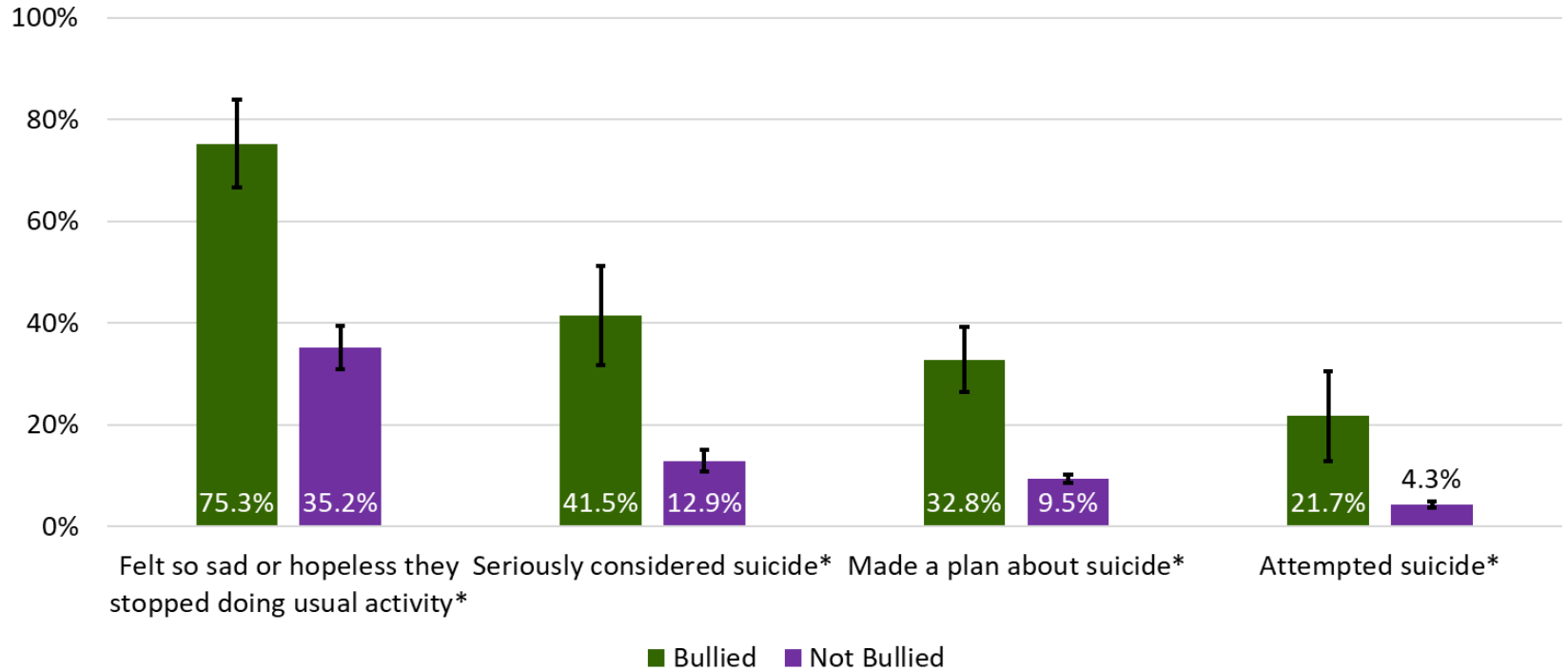


\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey



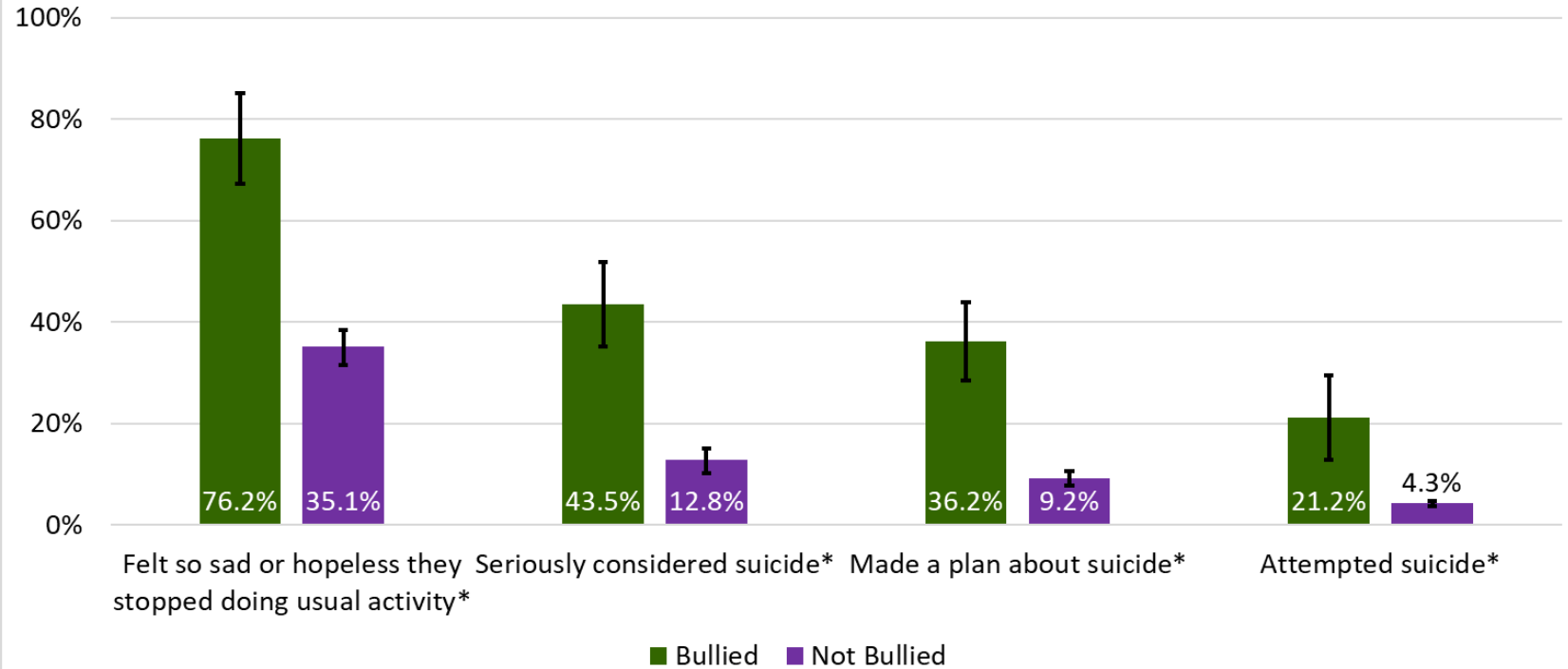
## Mental health indicators among students who were and were not bullied in school, BVSD high school students, Healthy Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

## Mental health indicators among students who were and were not bullied electronically, BVSD high school students, Healthy Kids Colorado Survey, 2021



Felt so sad or hopeless they stopped doing usual activity\*

Seriously considered suicide\*

Made a plan about suicide\*

Attempted suicide\*

■ Bullied ■ Not Bullied

\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

Reason for bullying	Bullied for this reason	Self-harm	Seriously considered suicide	Made a plan about suicide	Attempted suicide
Race/ethnicity	Yes	44.8%	30.2%*	20.4%*	15.7%*
	No	21.3%	14.6%	11.4%	5.5%
Sexual orientation	Yes	57.0%*	49.3%*	44.1%*	25.3%*
	No	20.1%	13.4%	9.9%	4.9%
Gender identity	Yes	45.3%	43.9%*	37.5%*	24.2%*
	No	21.9%	14.8%	11.3%	5.6%
Disability	Yes	41.1%*	51.0%*	32.9%*	28.4%*
	No	22.1%	14.3%	11.2%	5.4%

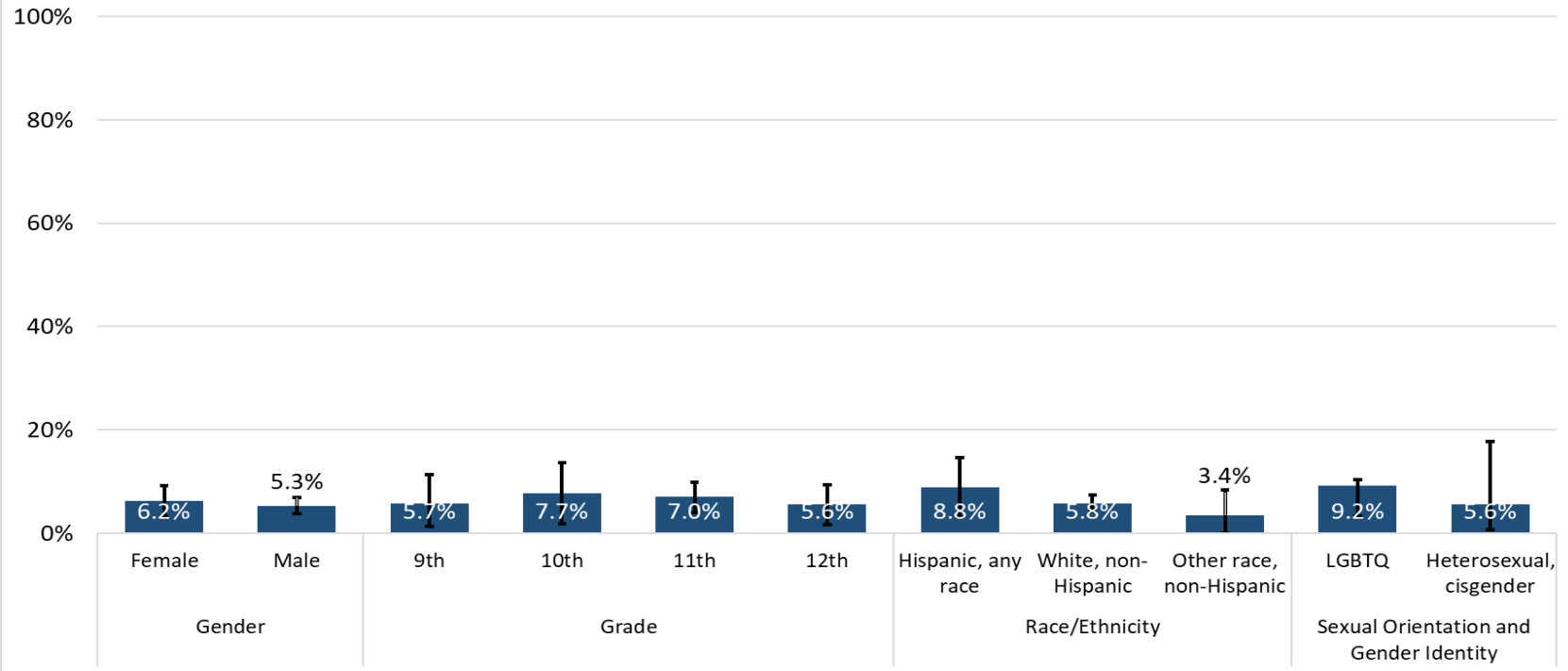
\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey



# **Dating and sexual violence**

Had been physically hurt on purpose by someone they were dating (among students who dated in past 12 months),  
BVSD high school students, Healthy Kids Colorado Survey, 2021

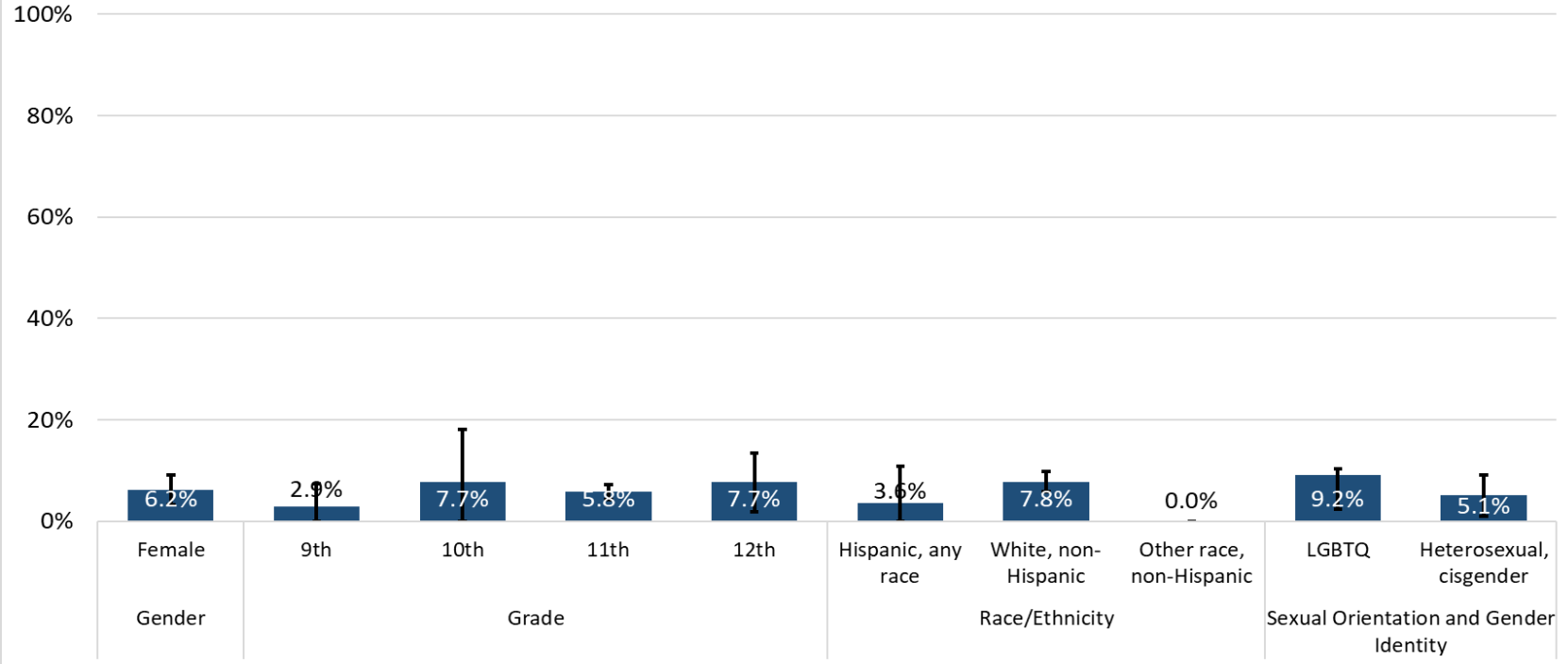


HC: Heterosexual and cisgender; LGBTQ: Lesbian, gay, bisexual, transgender, or questioning

\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

Had been physically hurt on purpose by someone they were dating (among students who dated in past 12 months), Female BVSD high school students, Healthy Kids Colorado Survey, 2021

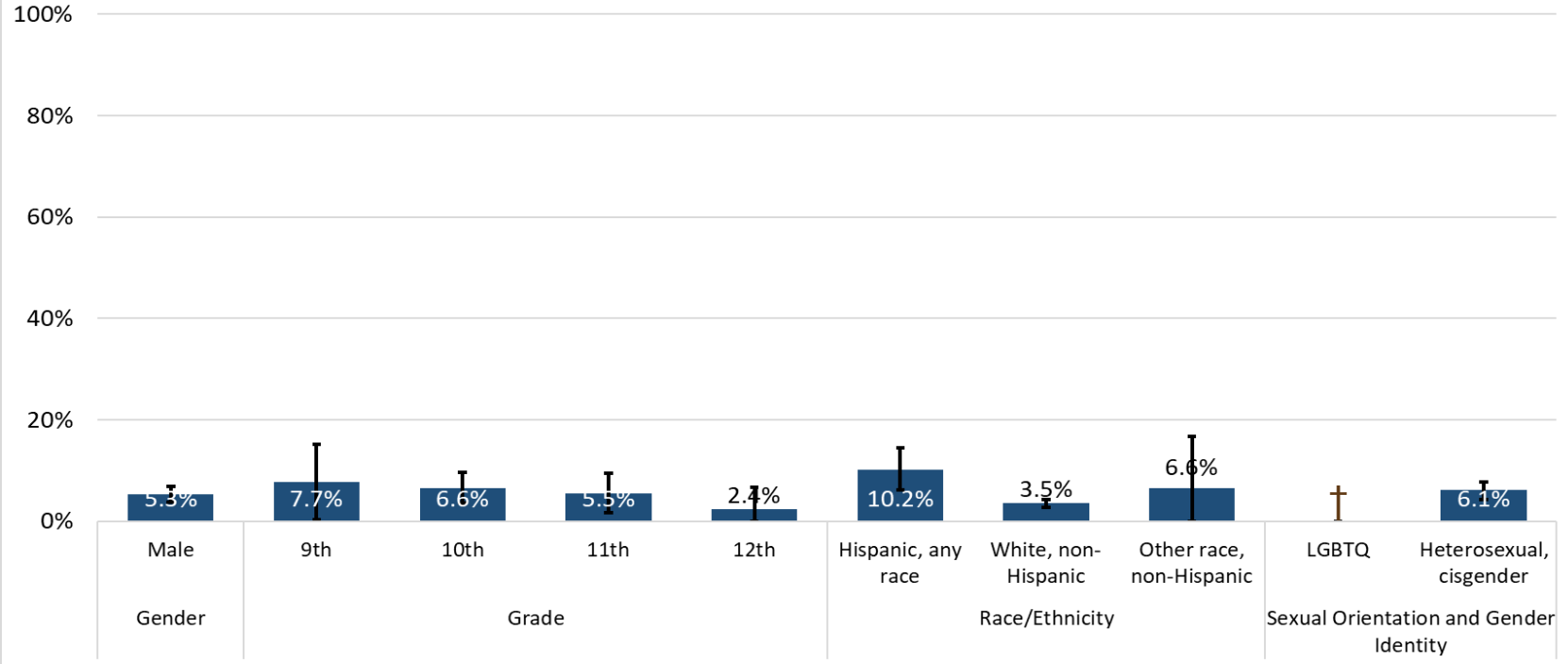


LGBTQ: Lesbian, gay, bisexual, transgender, or questioning

\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

Had been physically hurt on purpose by someone they were dating (among students who dated in past 12 months),  
Male BVSD high school students, Healthy Kids Colorado Survey, 2021

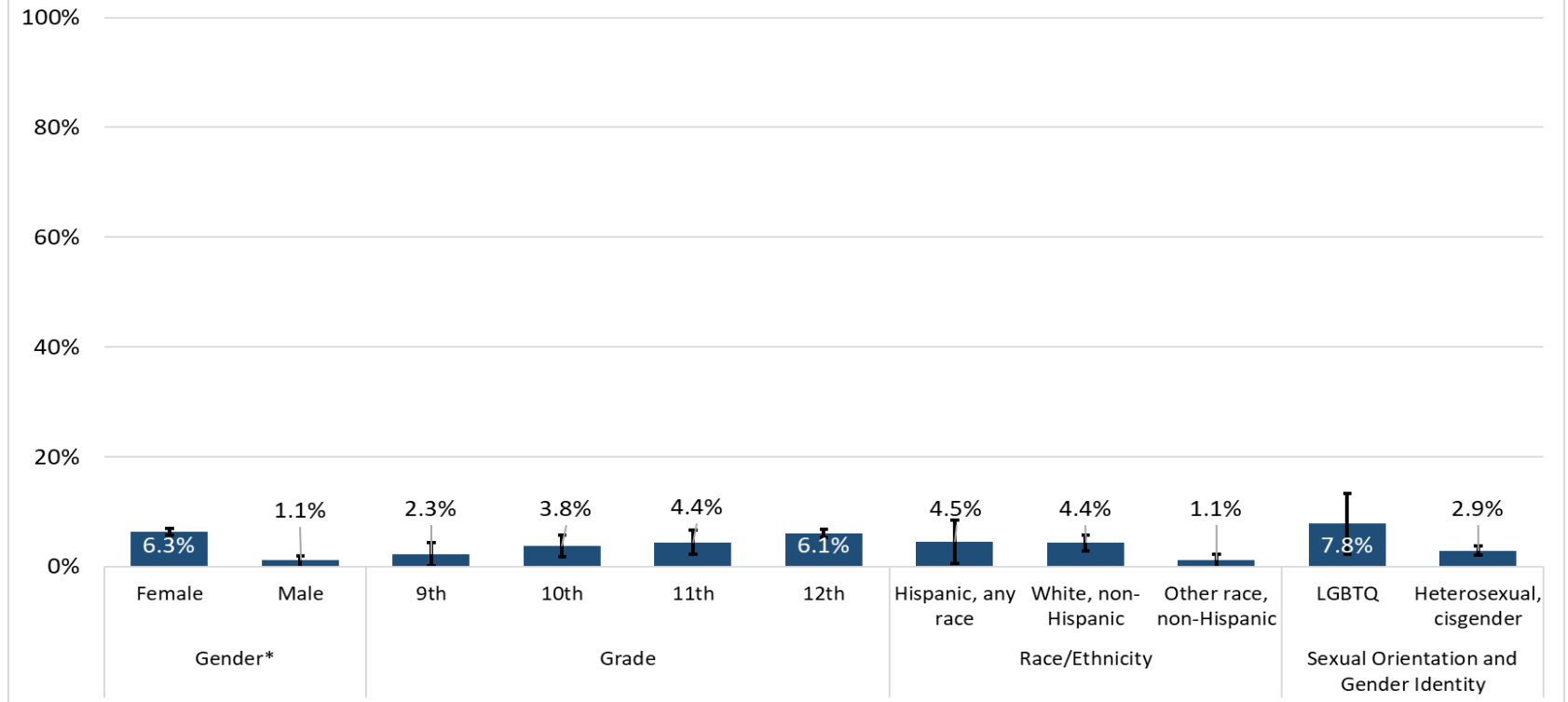


LGBTQ: Lesbian, gay, bisexual, transgender, or questioning

\* Denotes statistical significance at the  $p < 0.05$  level. † Denotes data is suppressed.

Source: 2021 Healthy Kids Colorado Survey

## Had ever been physically forced to have sexual intercourse when they did not want to, BVSD high school students, Healthy Kids Colorado Survey, 2021



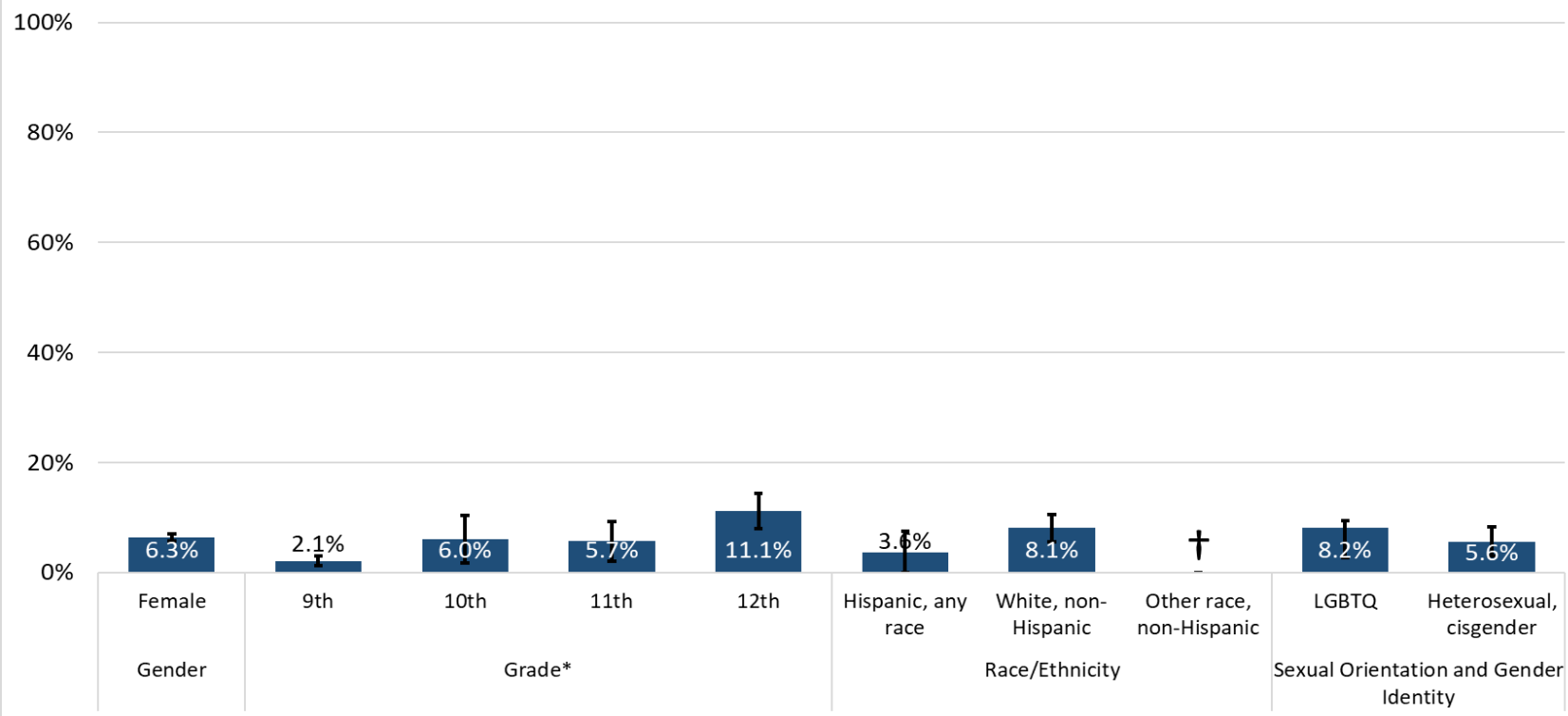
HC: Heterosexual and cisgender; LGBTQ: Lesbian, gay, bisexual, transgender, or questioning

\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey



## Had ever been physically forced to have sexual intercourse when they did not want to, Female BVSD high school students, Healthy Kids Colorado Survey, 2021

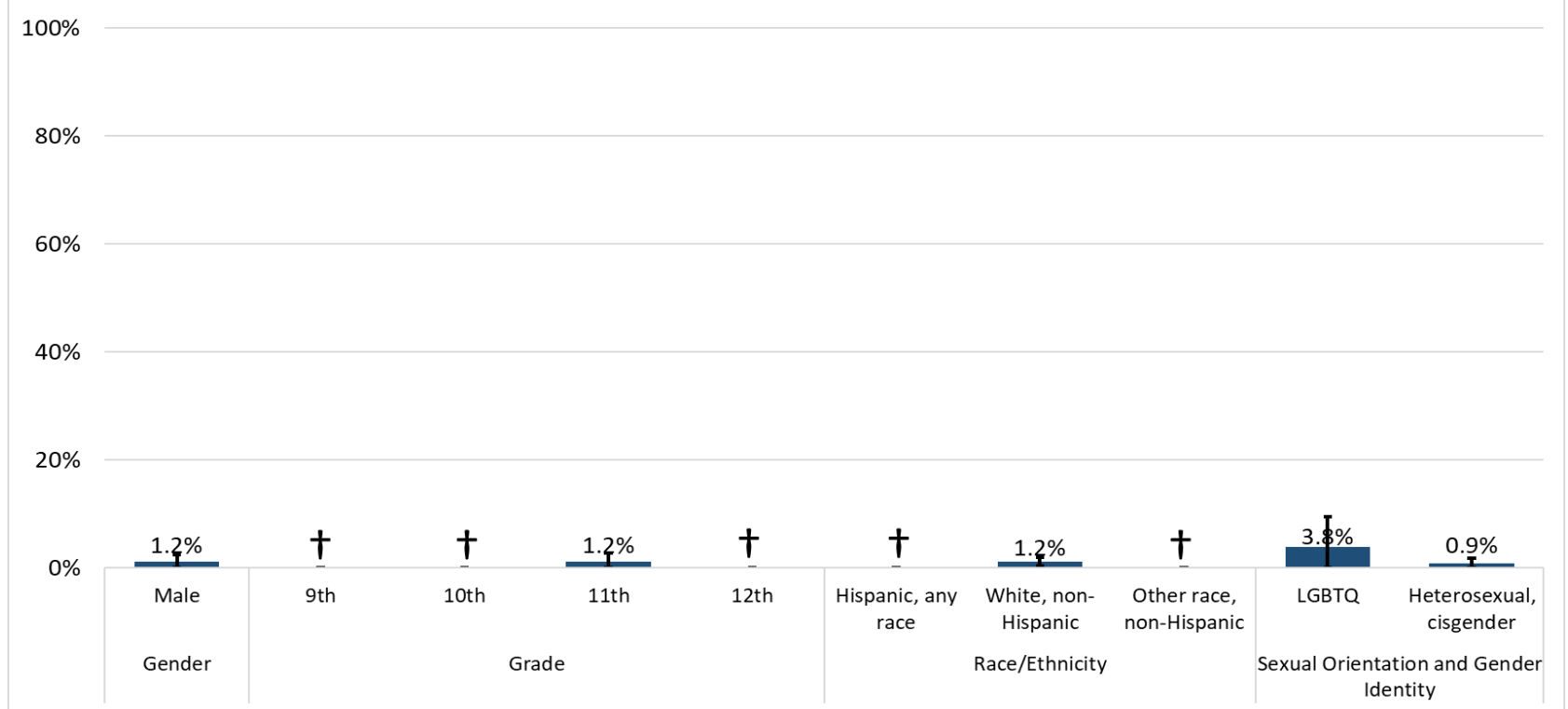


LGBTQ: Lesbian, gay, bisexual, transgender, or questioning

\* Denotes statistical significance at the  $p < 0.05$  level. † Denotes data is suppressed.

Source: 2021 Healthy Kids Colorado Survey

## Had ever been physically forced to have sexual intercourse when they did not want to, Male BVSD high school students, Healthy Kids Colorado Survey, 2021

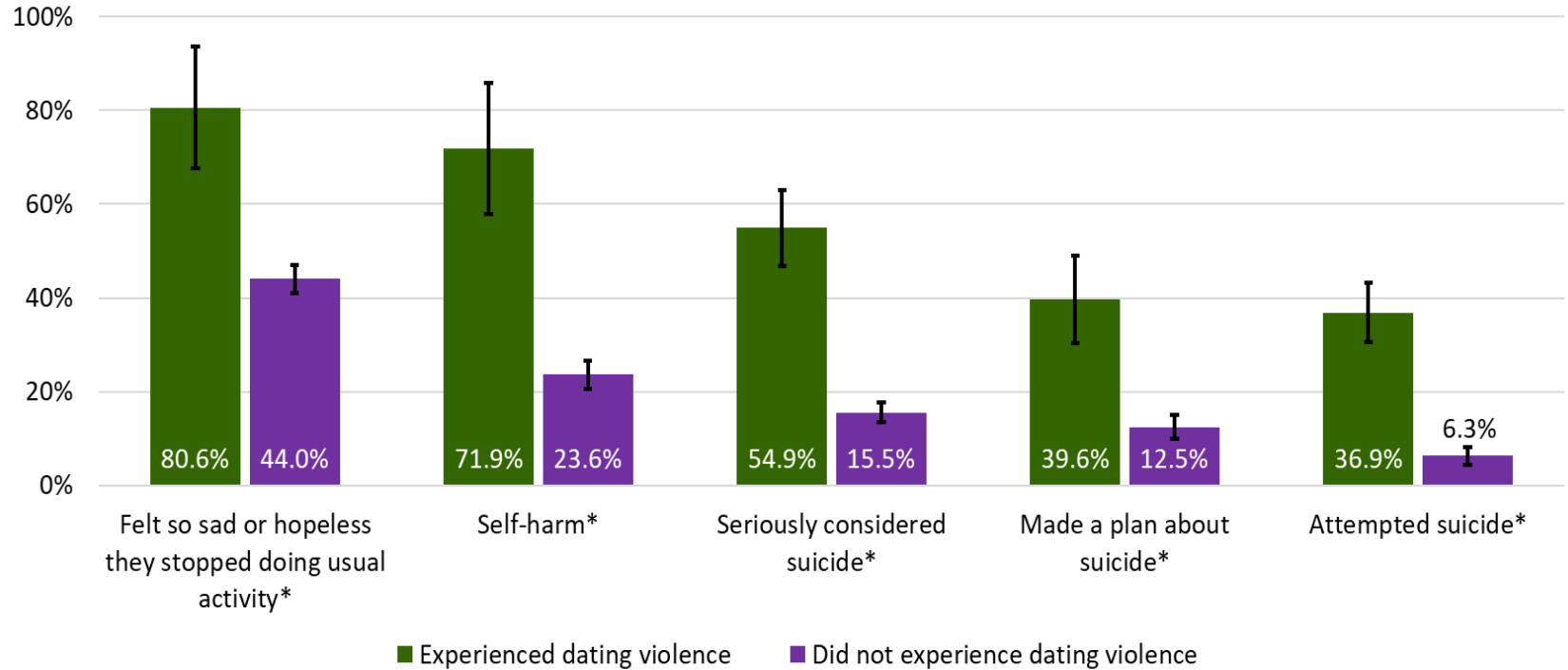


LGBTQ: Lesbian, gay, bisexual, transgender, or questioning

\* Denotes statistical significance at the  $p < 0.05$  level. † Denotes data is suppressed.

Source: 2021 Healthy Kids Colorado Survey

## Mental health indicators among students who did and did not experience dating violence, BVSD high school students, Healthy Kids Colorado Survey, 2021

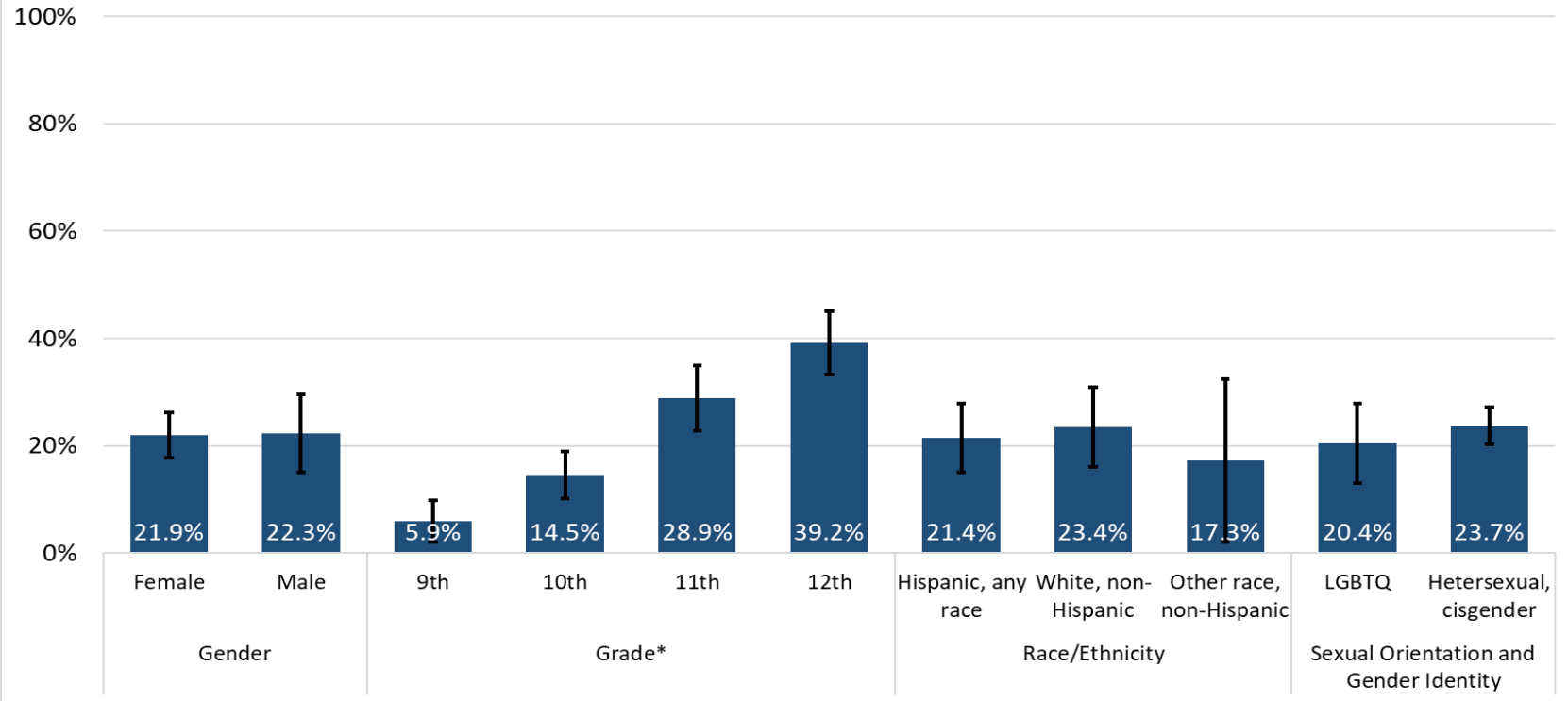


\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

# **Sexual activity**

## Students who ever had sexual intercourse, BVSD high school students, Health Kids Colorado Survey, 2021

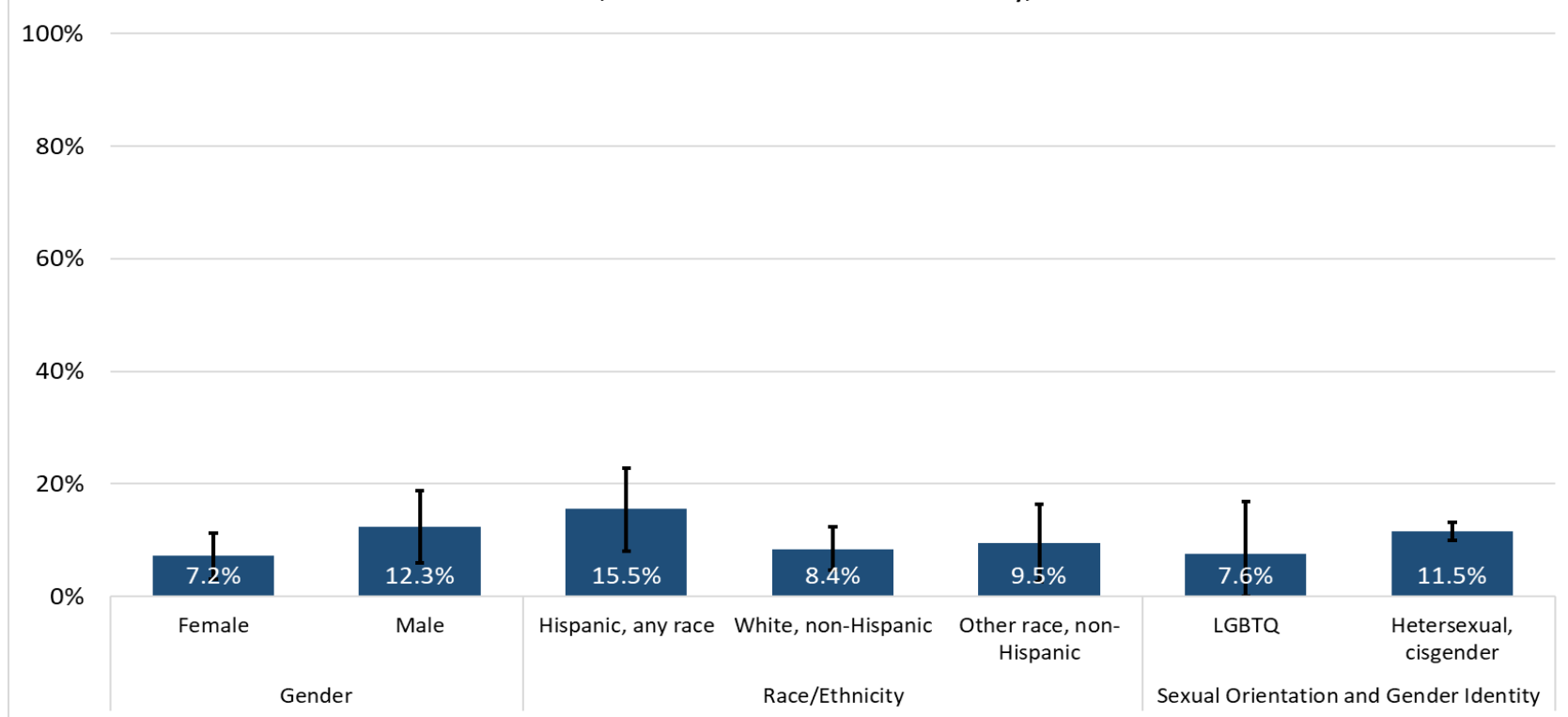


\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey



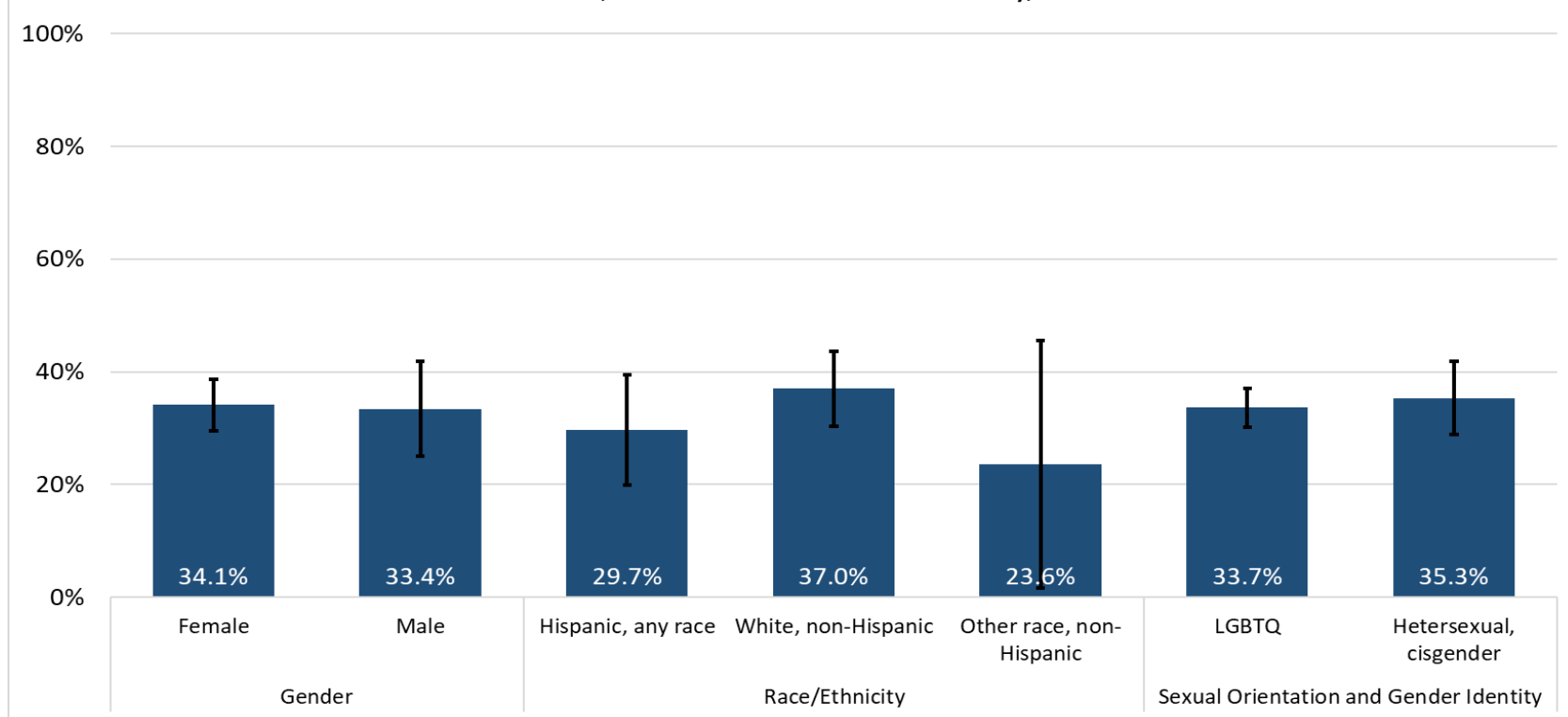
### Students who ever had sexual intercourse, BVSD 9th-10th grade high school students, Health Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

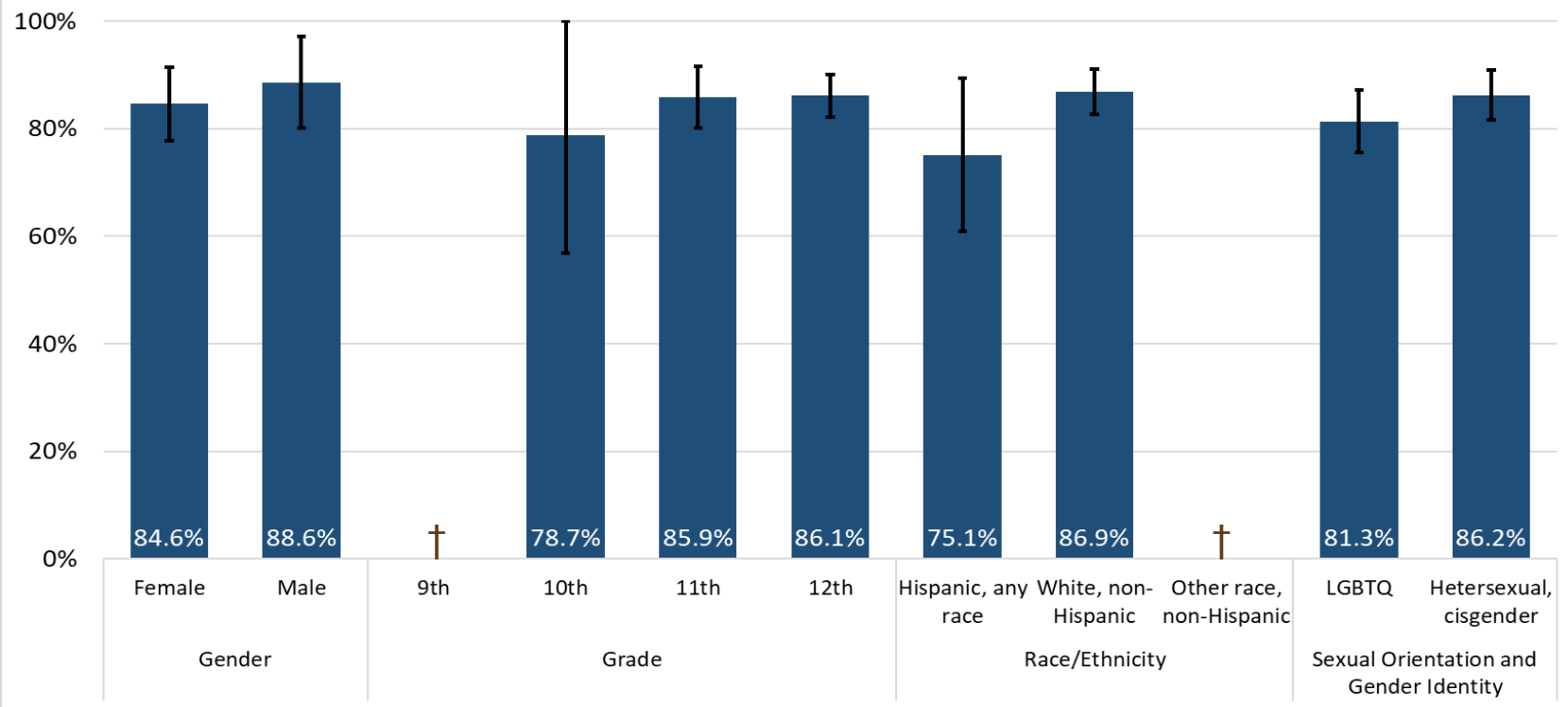
## Students who ever had sexual intercourse, BVSD 11th-12th grade high school students, Health Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

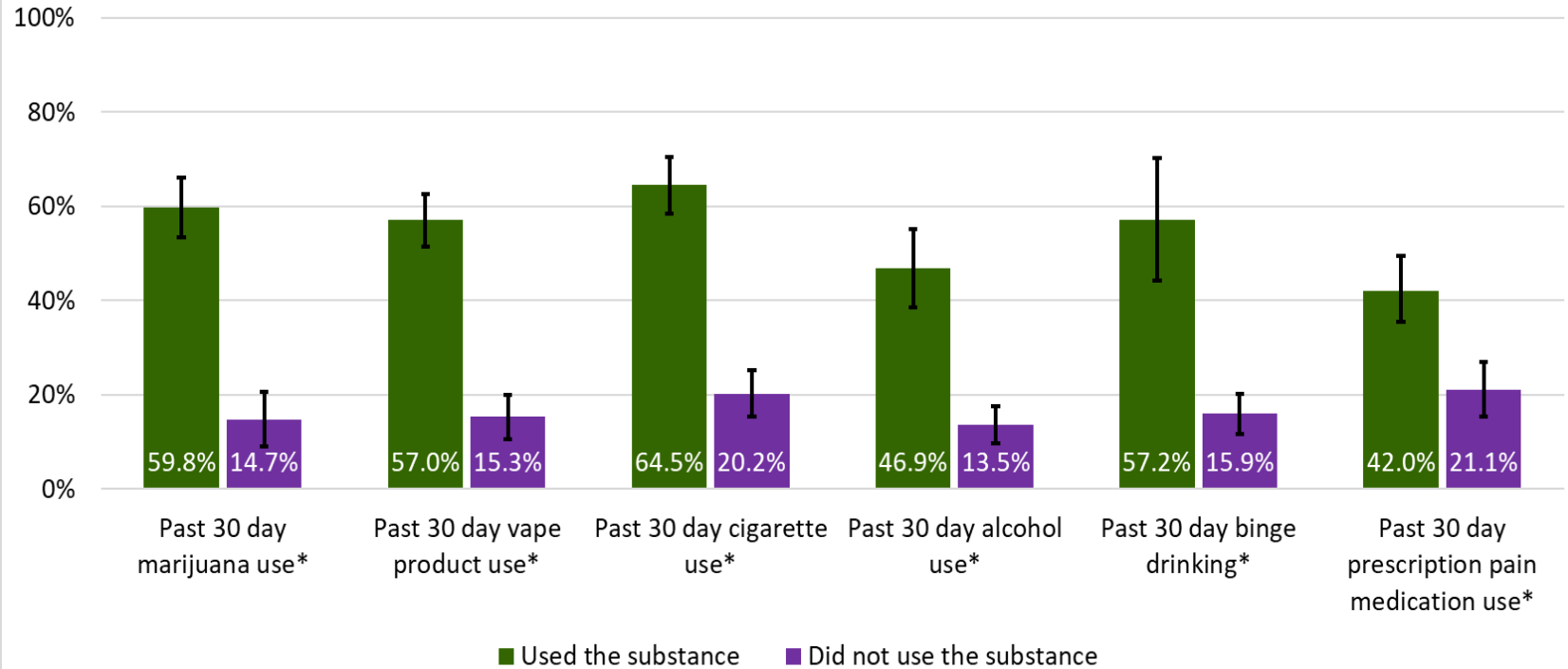
Among students who had sex in the last 3 months, the percentage that used some form of birth control, BVSD high school students, Health Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level. † Denotes data is suppressed.



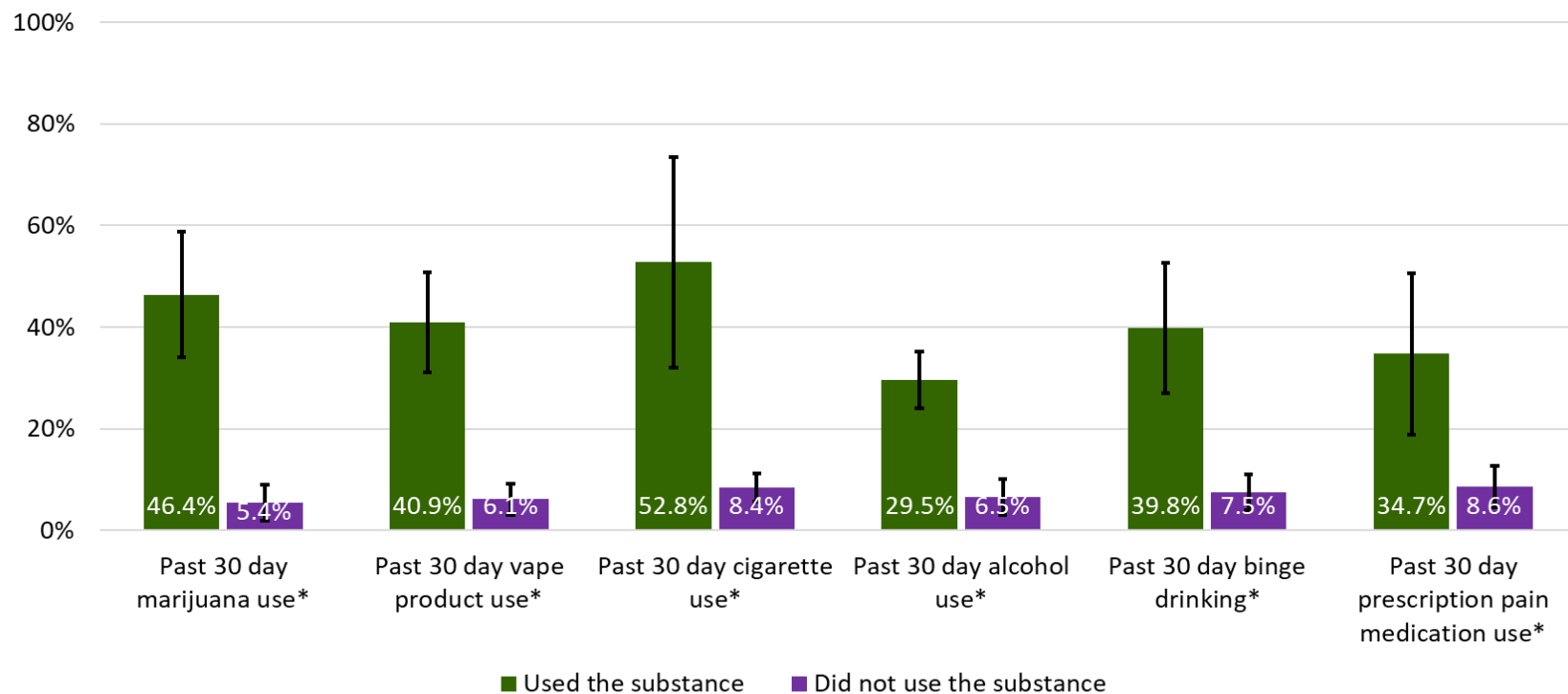
Ever had sex among those who did and did not use substances in the past 30 days,  
BVSD high school students, Healthy Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

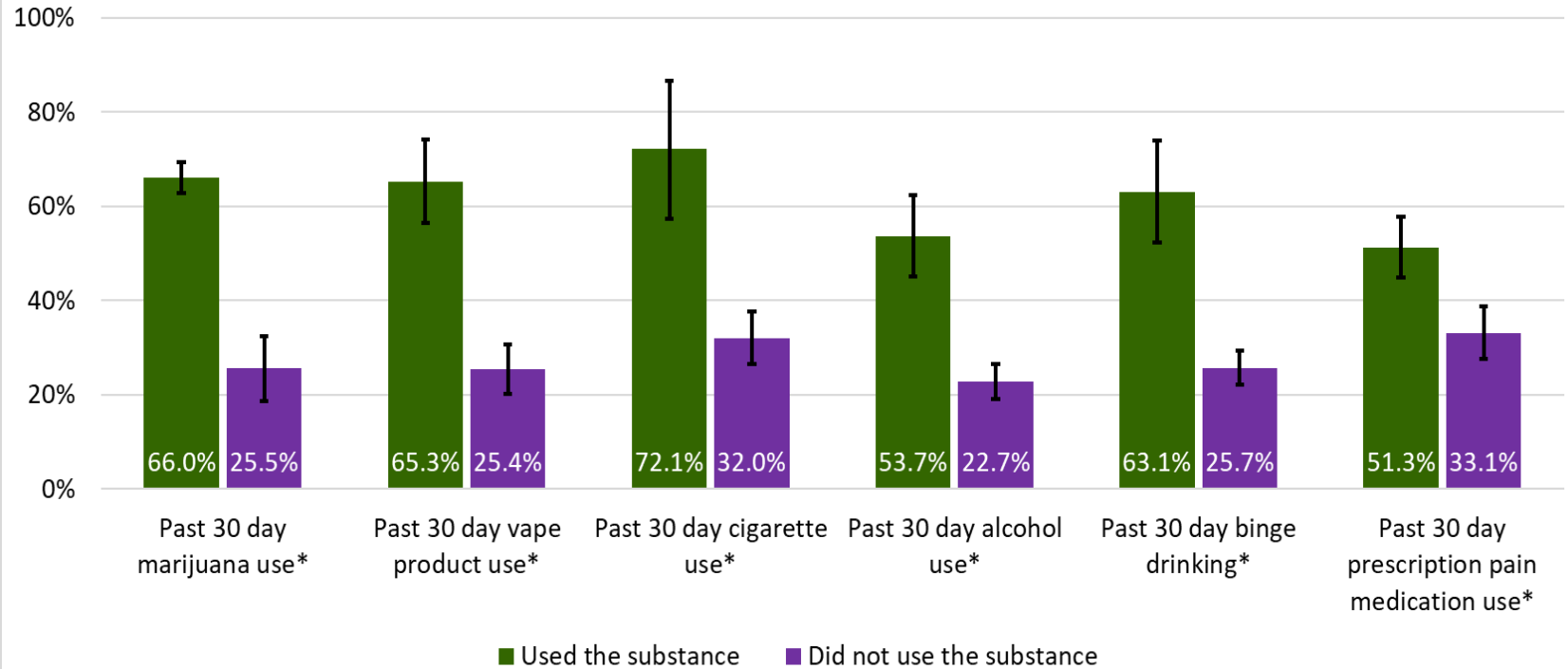
Ever had sex among those who did and did not use substances in the past 30 days,  
BVSD 9th-10th grade high school students, Healthy Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

Ever had sex among those who did and did not use substances in the past 30 days,  
BVSD 11th-12th grade high school students, Healthy Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

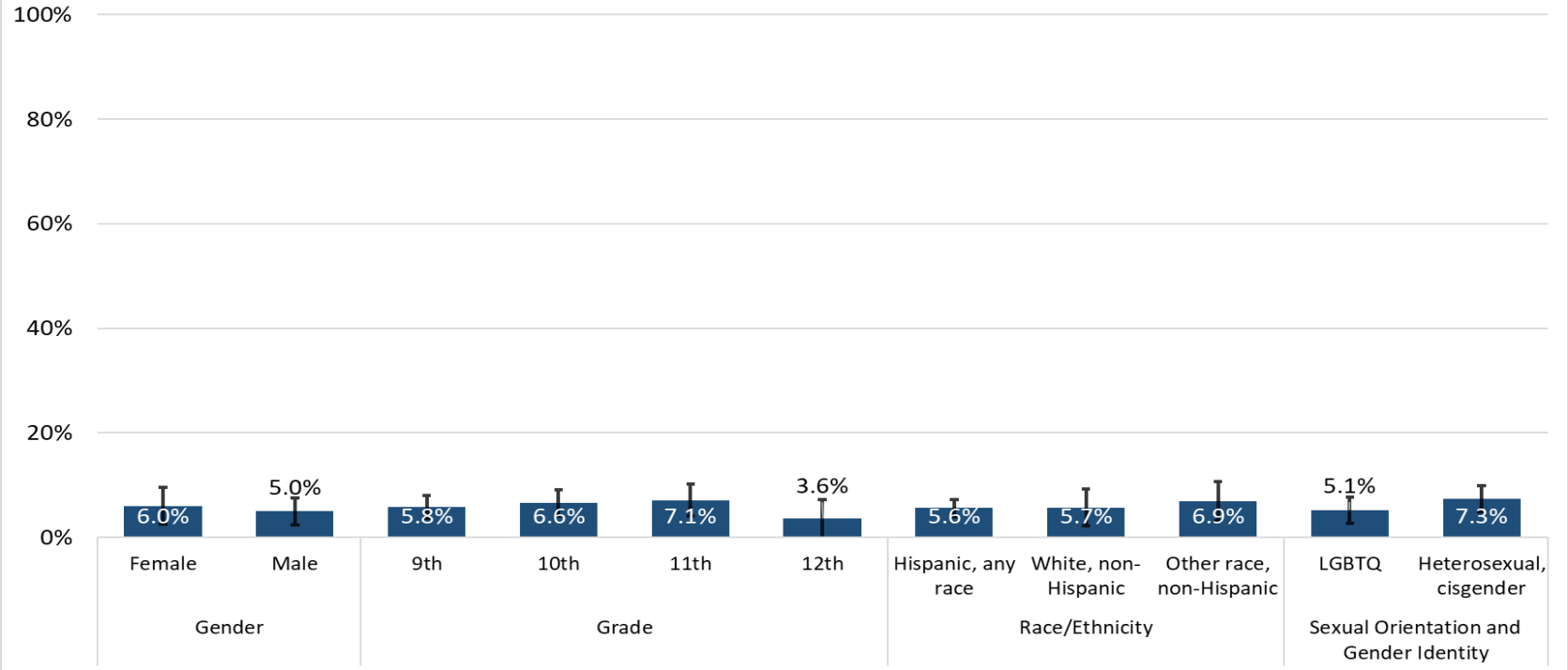
Source: 2021 Healthy Kids Colorado Survey



# **Risk and Protective Factors**



Did not go to school on one or more of the past 30 days because they felt they would be unsafe at school or on their way to or from school, BVSD high school students, Healthy Kids Colorado Survey, 2021

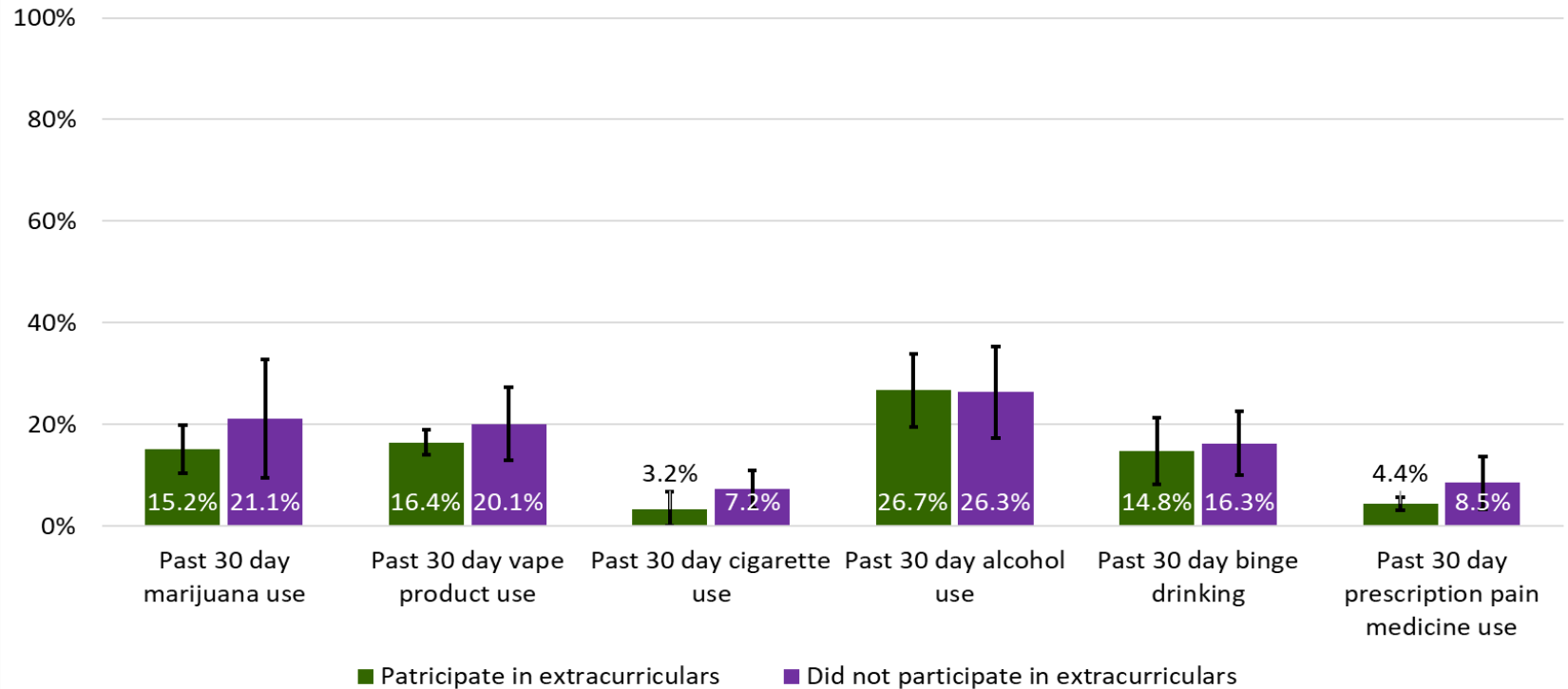


LGBTQ: Lesbian, gay, bisexual, transgender, or questioning

\* Denotes statistical significance at the p<0.05 level.

Source: 2021 Healthy Kids Colorado Survey

## Substance use indicators by participation in extracurricular activities, BVSD high school students, Healthy Kids Colorado Survey, 2021

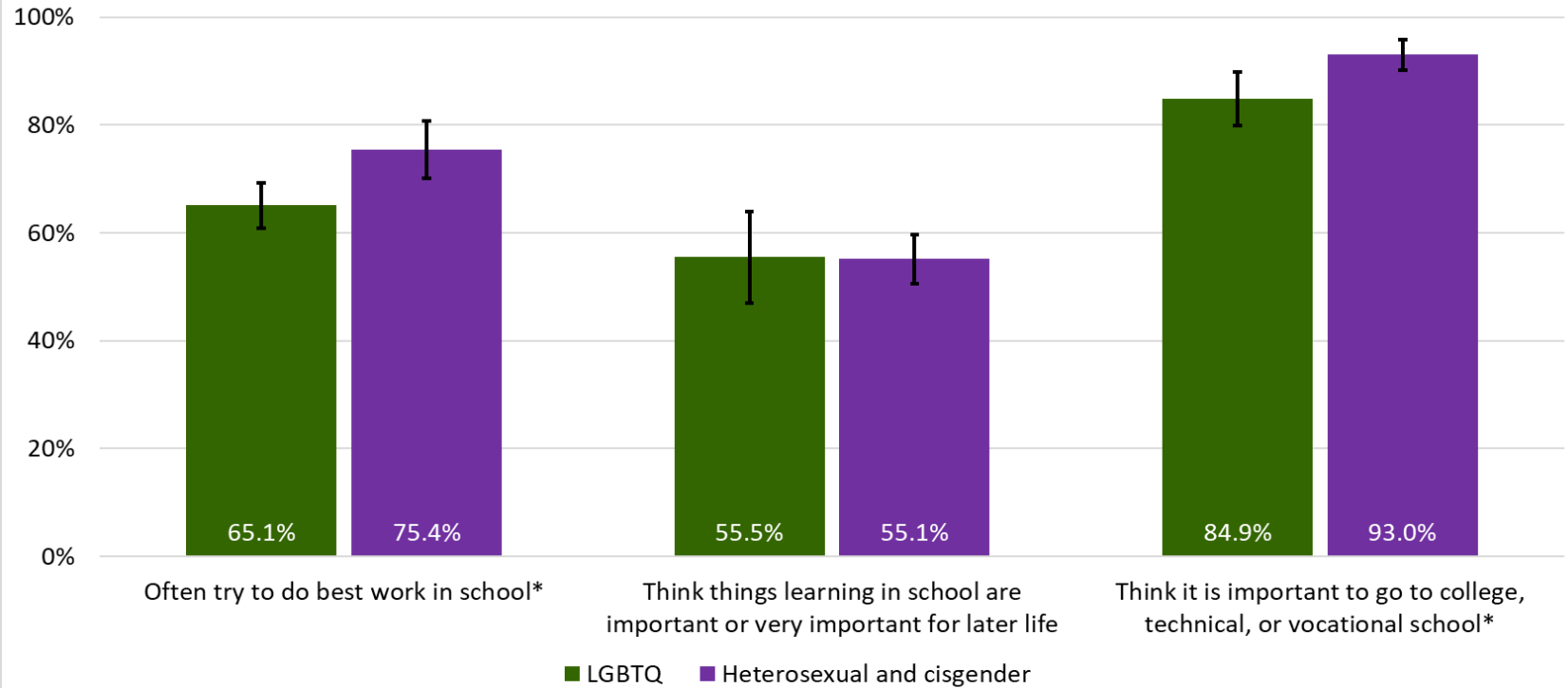


\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey



## Student engagement indicators by sexual orientation and gender identity, BVSD high school students, Healthy Kids Colorado Survey, 2021

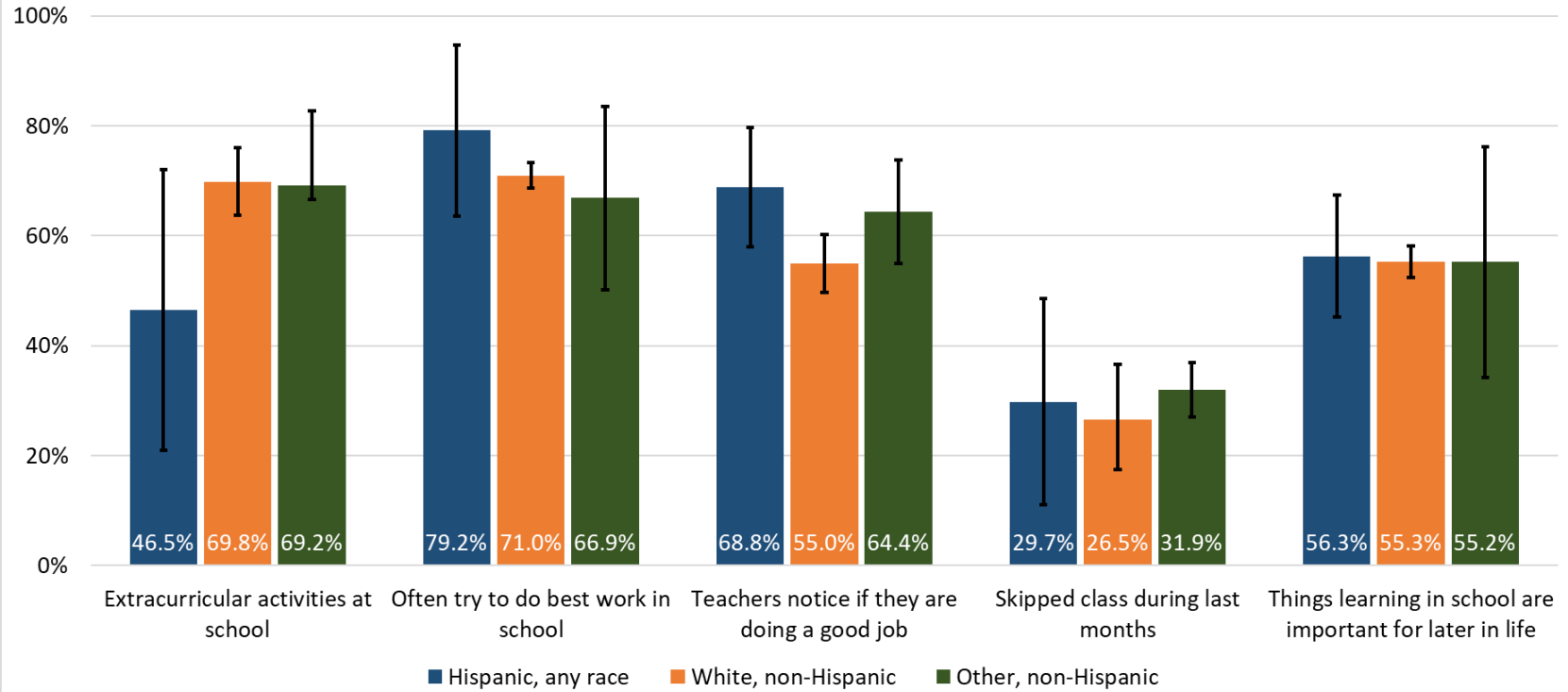


HC: Heterosexual and cisgender; LGBTQ: Lesbian, gay, bisexual, transgender, or questioning

\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

### Student engagement indicators by race/ethnicity, BVSD high school students, Healthy Kids Colorado Survey, 2021

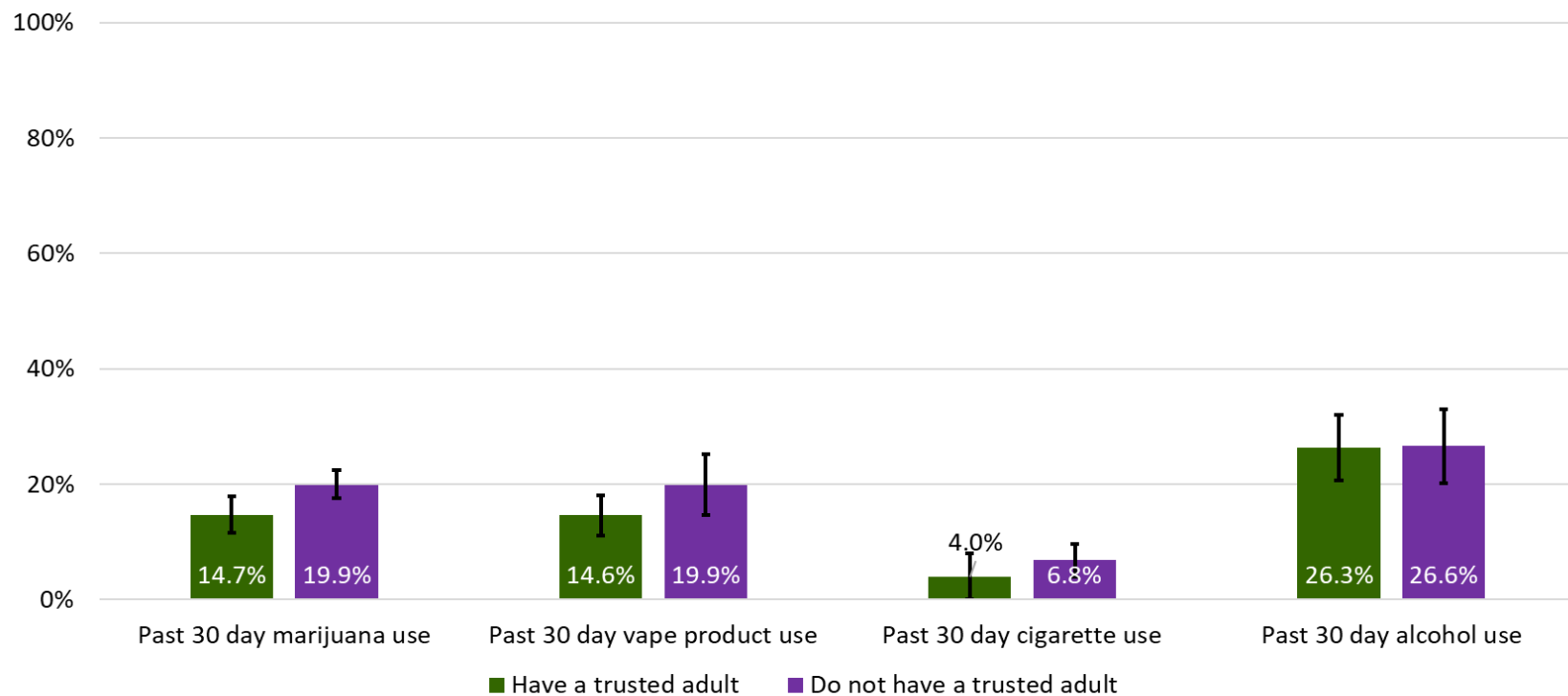


\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

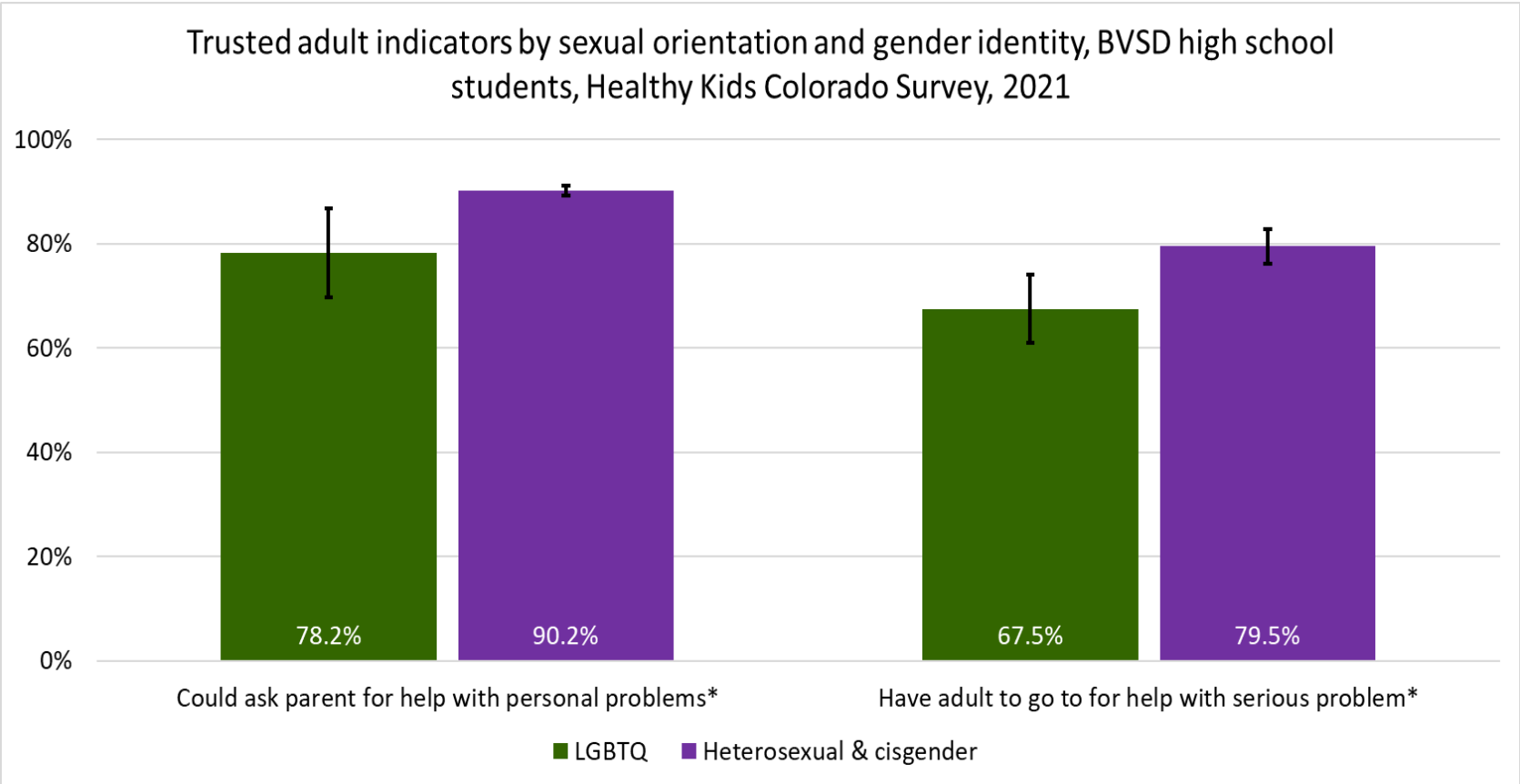


### Substance use among students with and without an adult to go for help with a serious problem, BVSD high school students, Healthy Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey



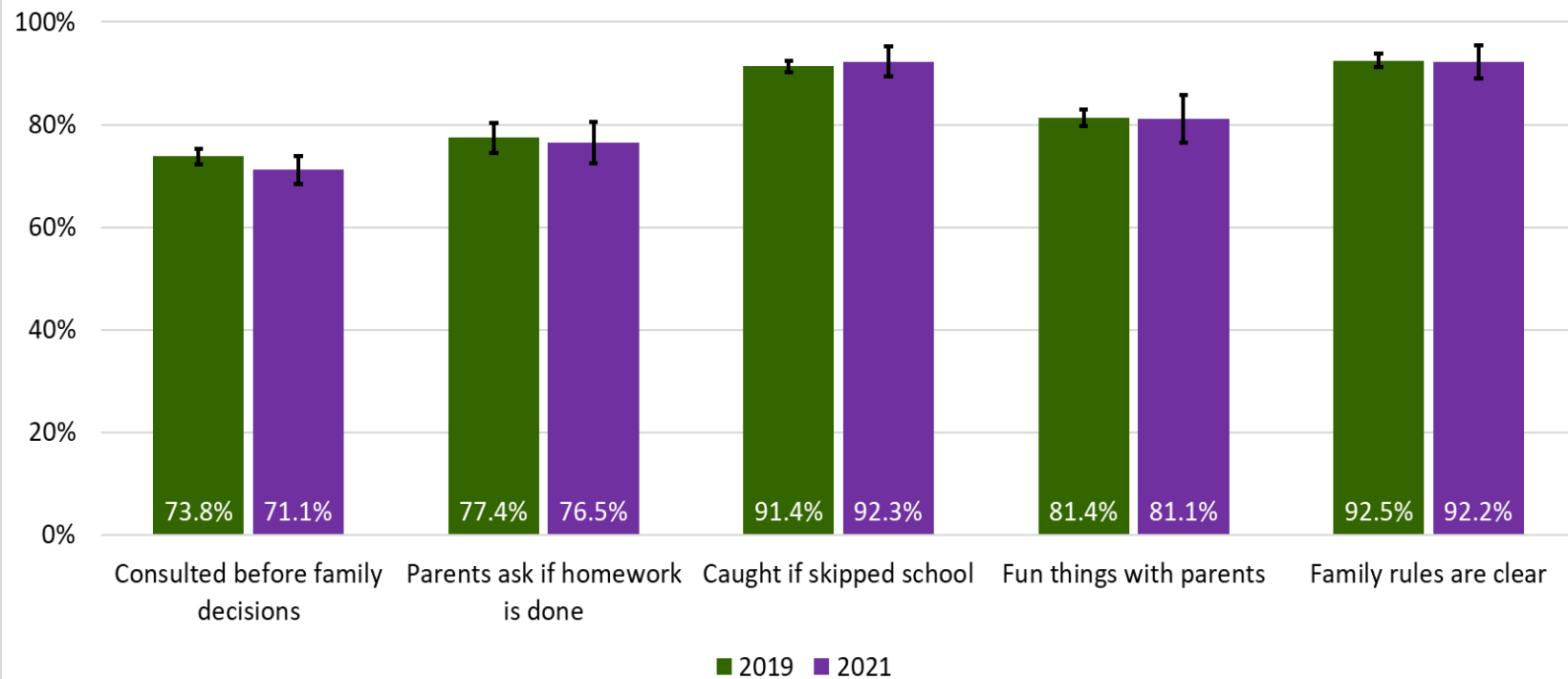
HC: Heterosexual and cisgender; LGBTQA: Lesbian, gay, bisexual, transgender, or questioning

\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

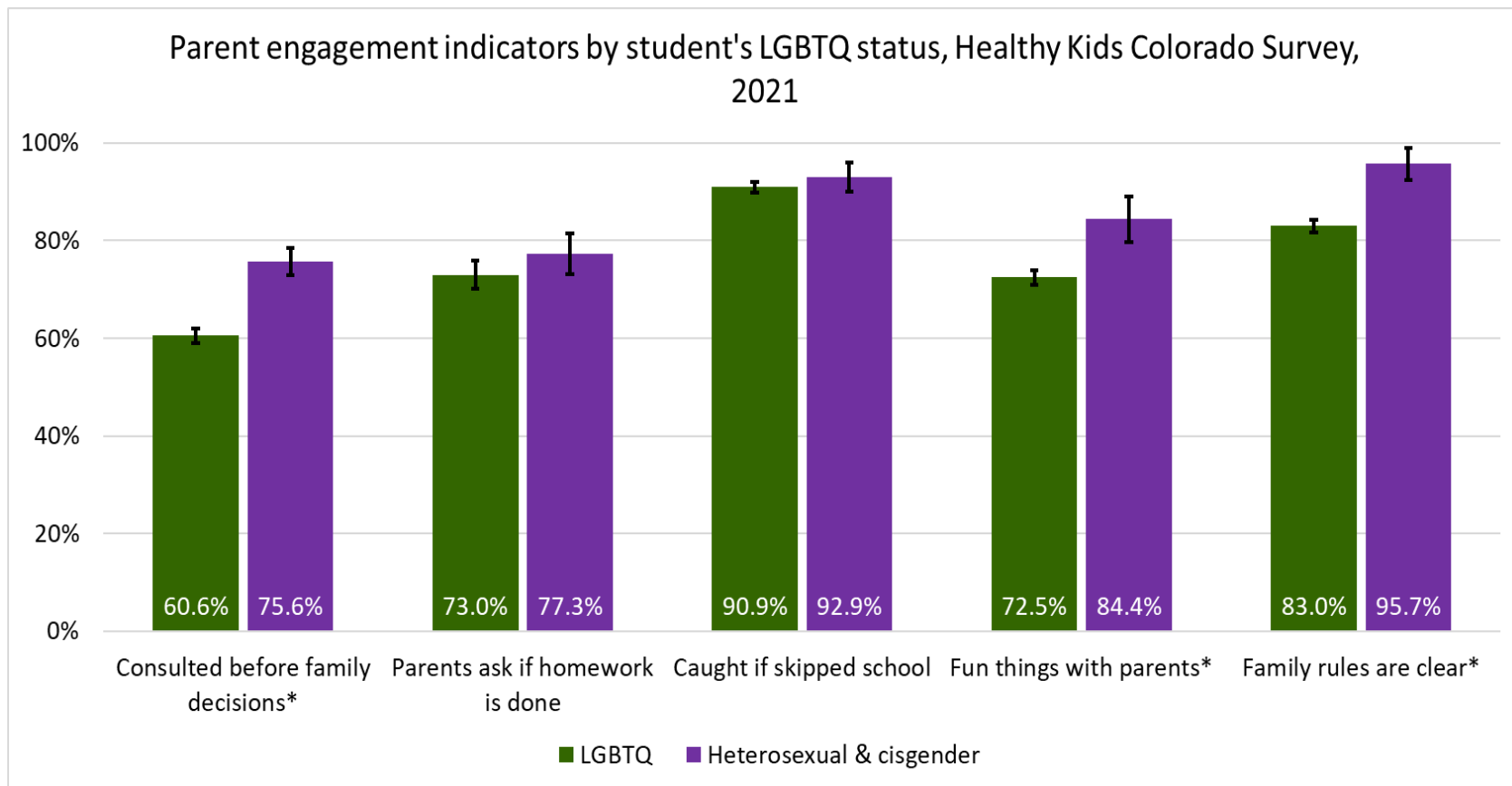


## Parent engagement indicators by year, BVSD high school students, Healthy Kids Colorado Survey, 2019 & 2021



\* Cannot compare year to year due to wording changes and differing sample populations.

Source: 2019 & 2021 Healthy Kids Colorado Survey

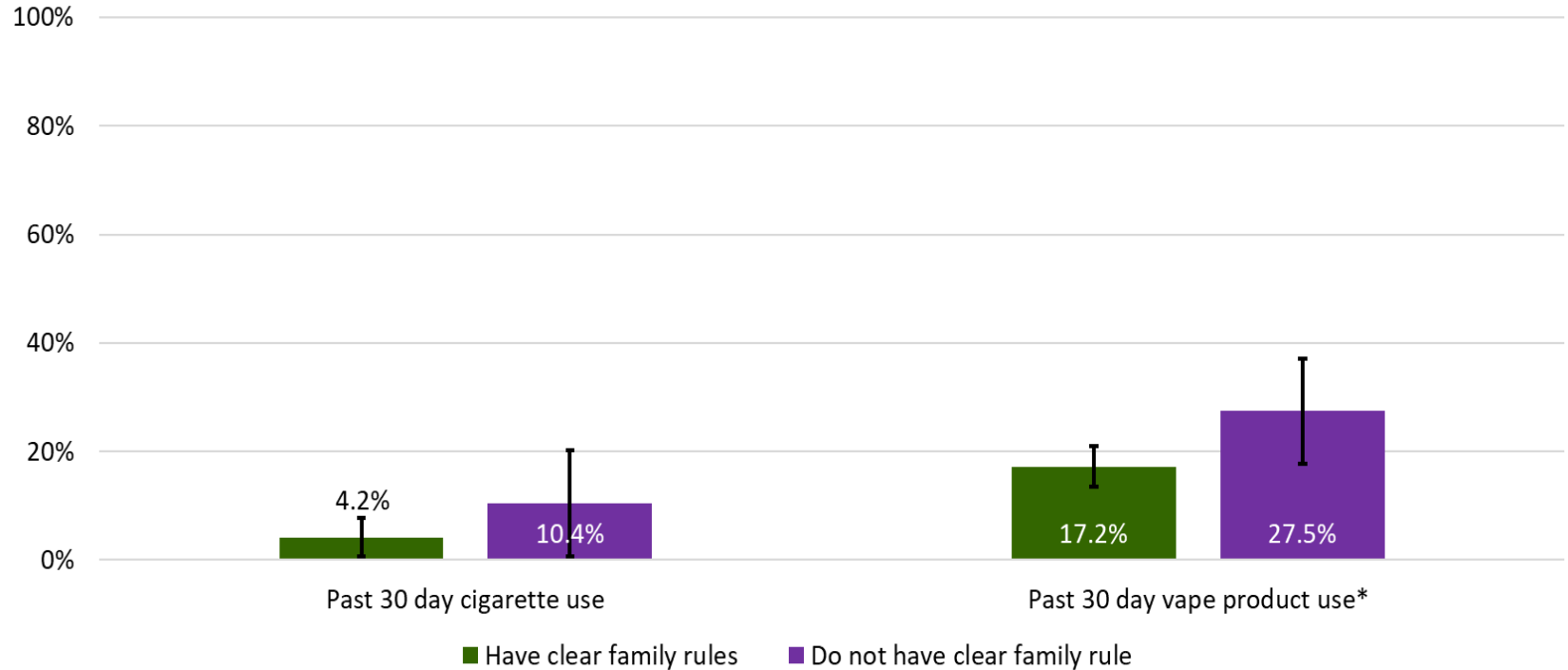


HC: Heterosexual and cisgender; LGBTQ: Lesbian, gay, bisexual, transgender, or questioning

\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

Past 30 day cigarette and vape product use among students with and without clear family rules, BVSD high school students, Healthy Kids Colorado Survey, 2021



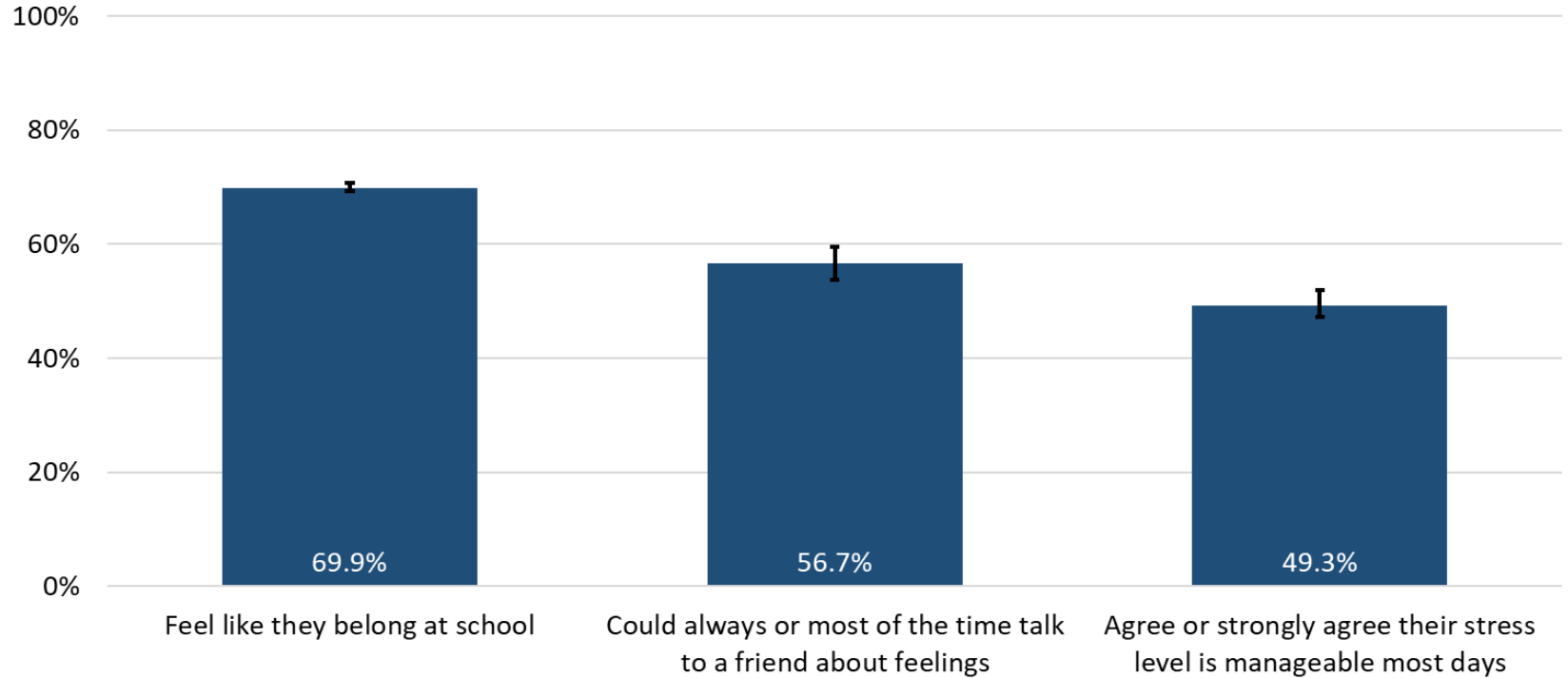
\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey



# **New Questions in 2021**

## New risk/protective factors questions, BVSD high school students, Healthy Kids Colorado Survey, 2021

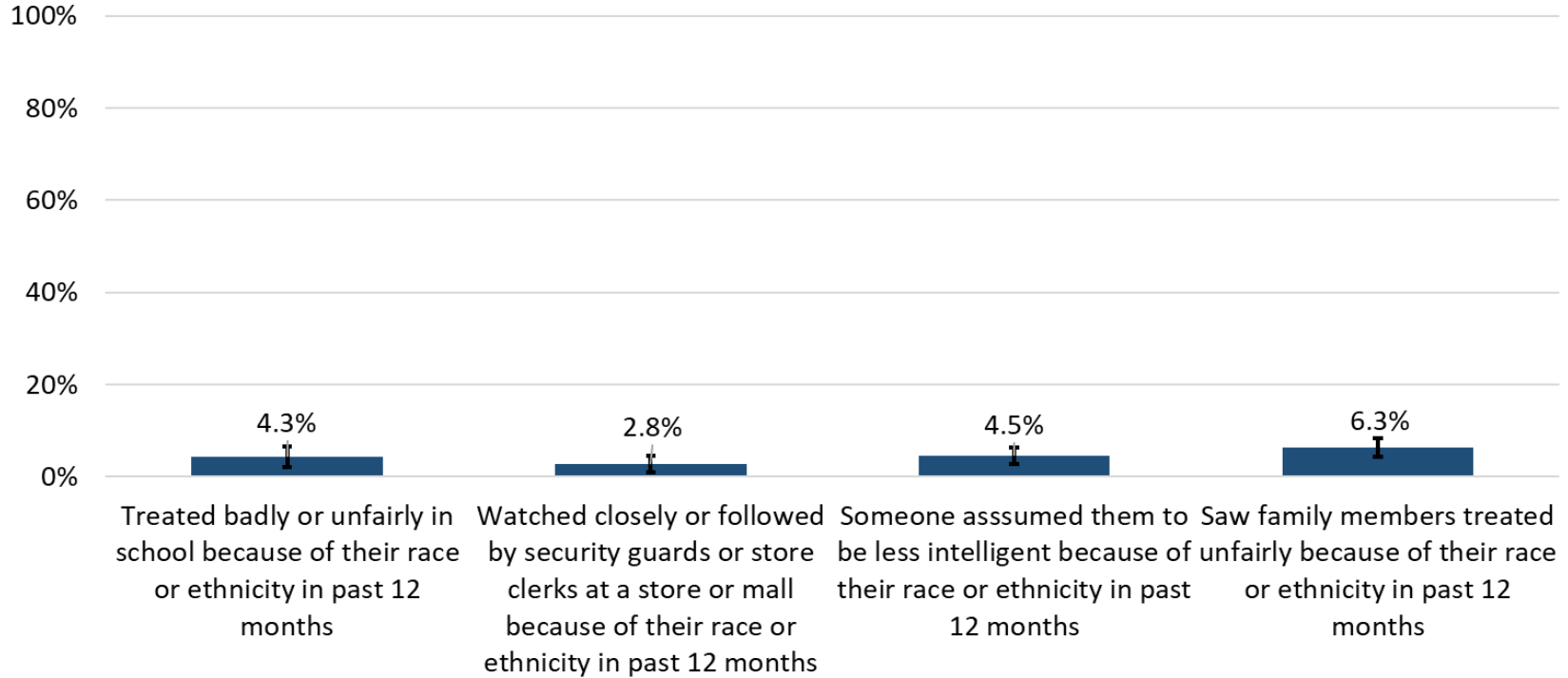


LGBTQ: Lesbian, gay, bisexual, transgender, or questioning

\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

## Experiences with racism, BVSD high school students, Healthy Kids Colorado Survey, 2021



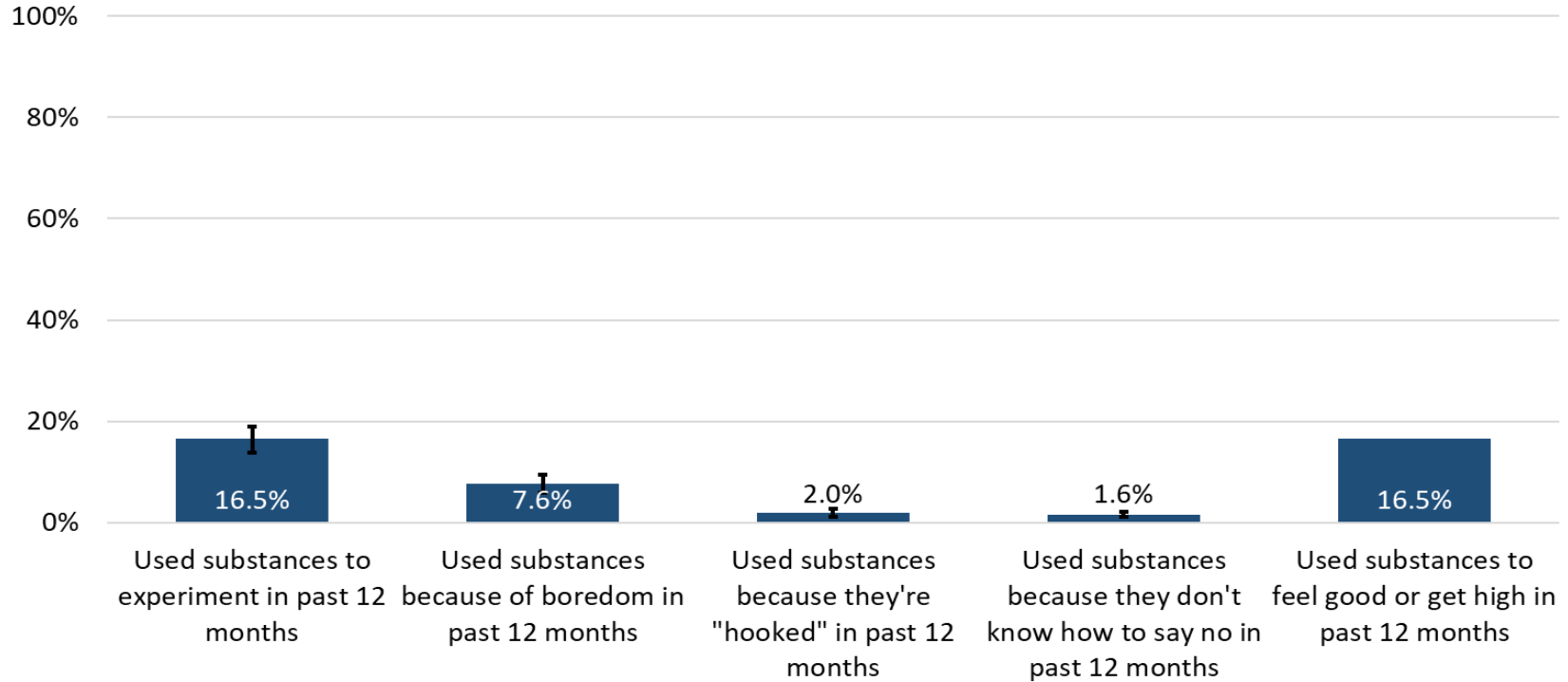
LGBTQ: Lesbian, gay, bisexual, transgender, or questioning

\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey



## Reason for using substances (part 1), BVSD high school students, Healthy Kids Colorado Survey, 2021

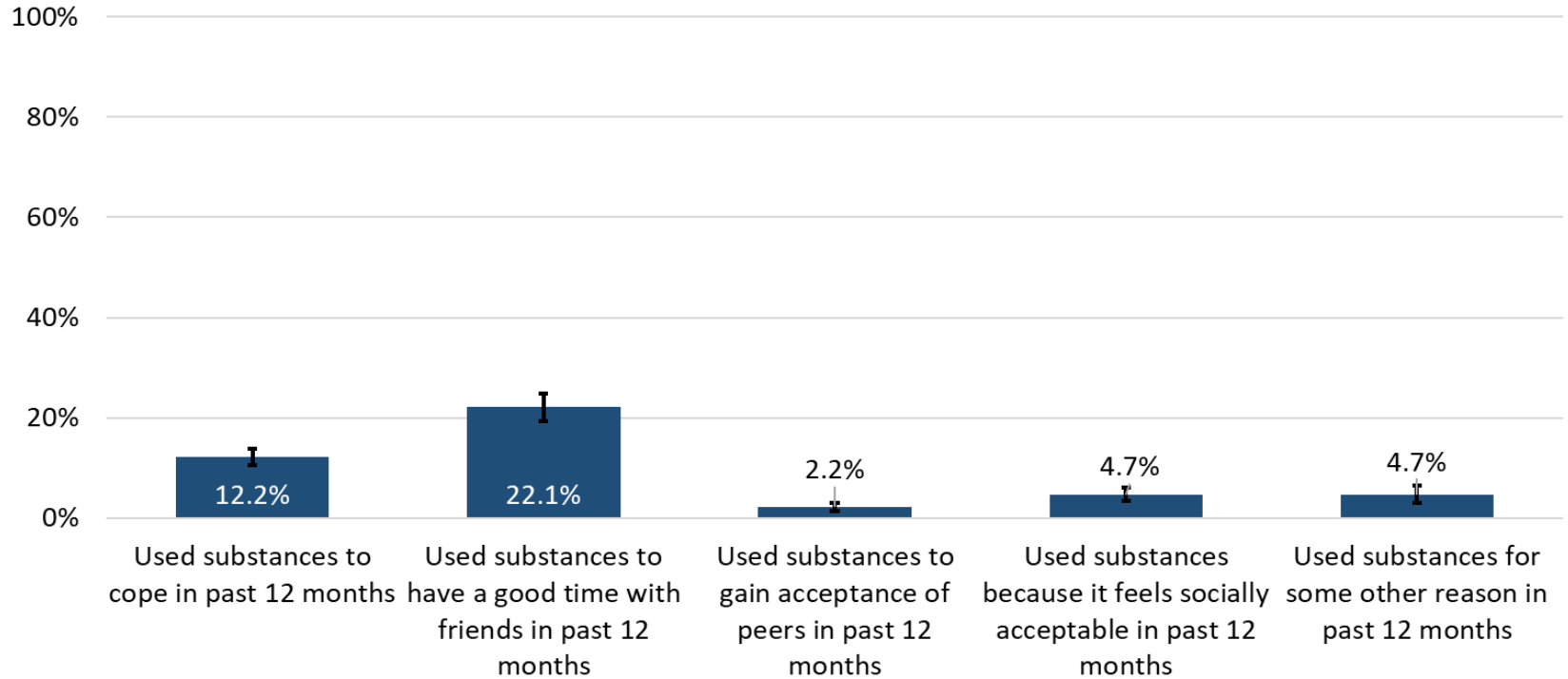


LGBTQ: Lesbian, gay, bisexual, transgender, or questioning

\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

## Reason for using substances (part 2), BVSD high school students, Healthy Kids Colorado Survey, 2021



LGBTQ: Lesbian, gay, bisexual, transgender, or questioning

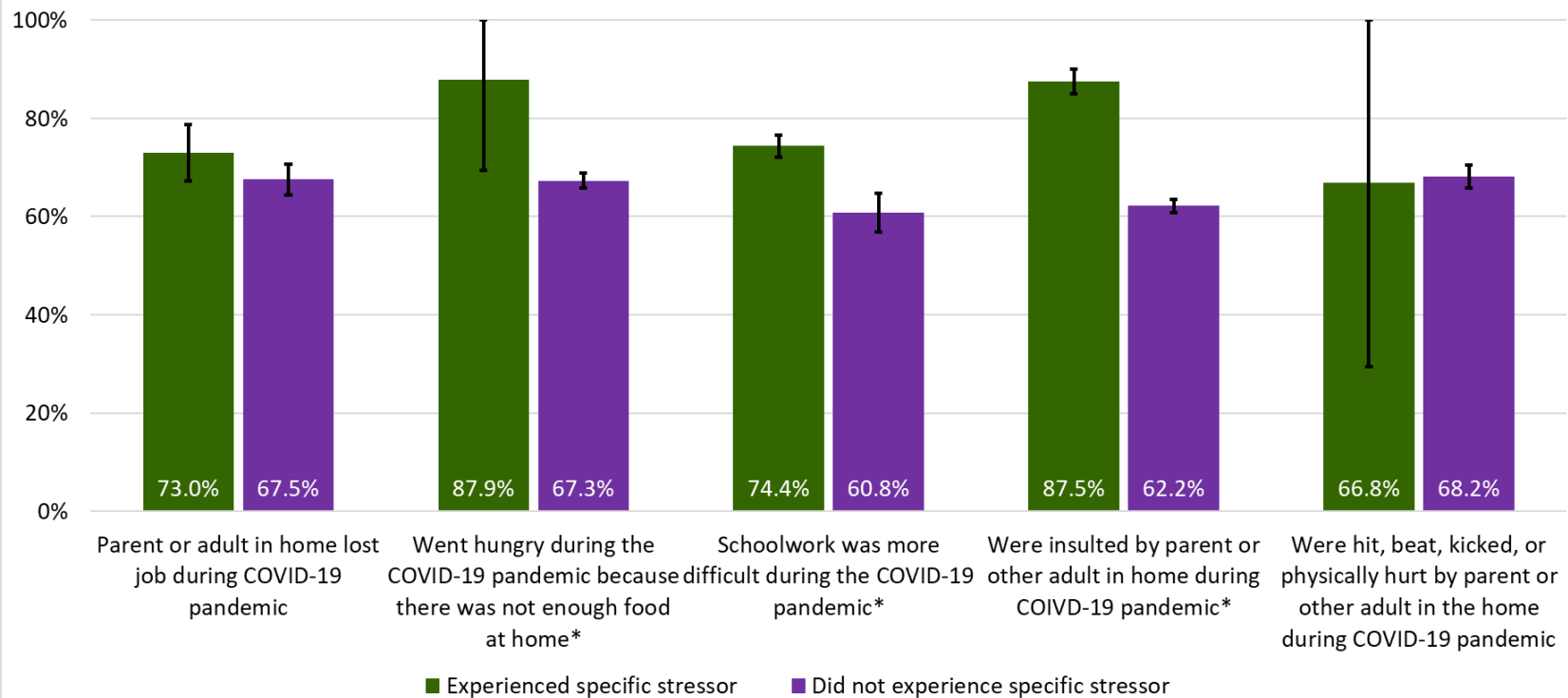
\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

**COVID 19**



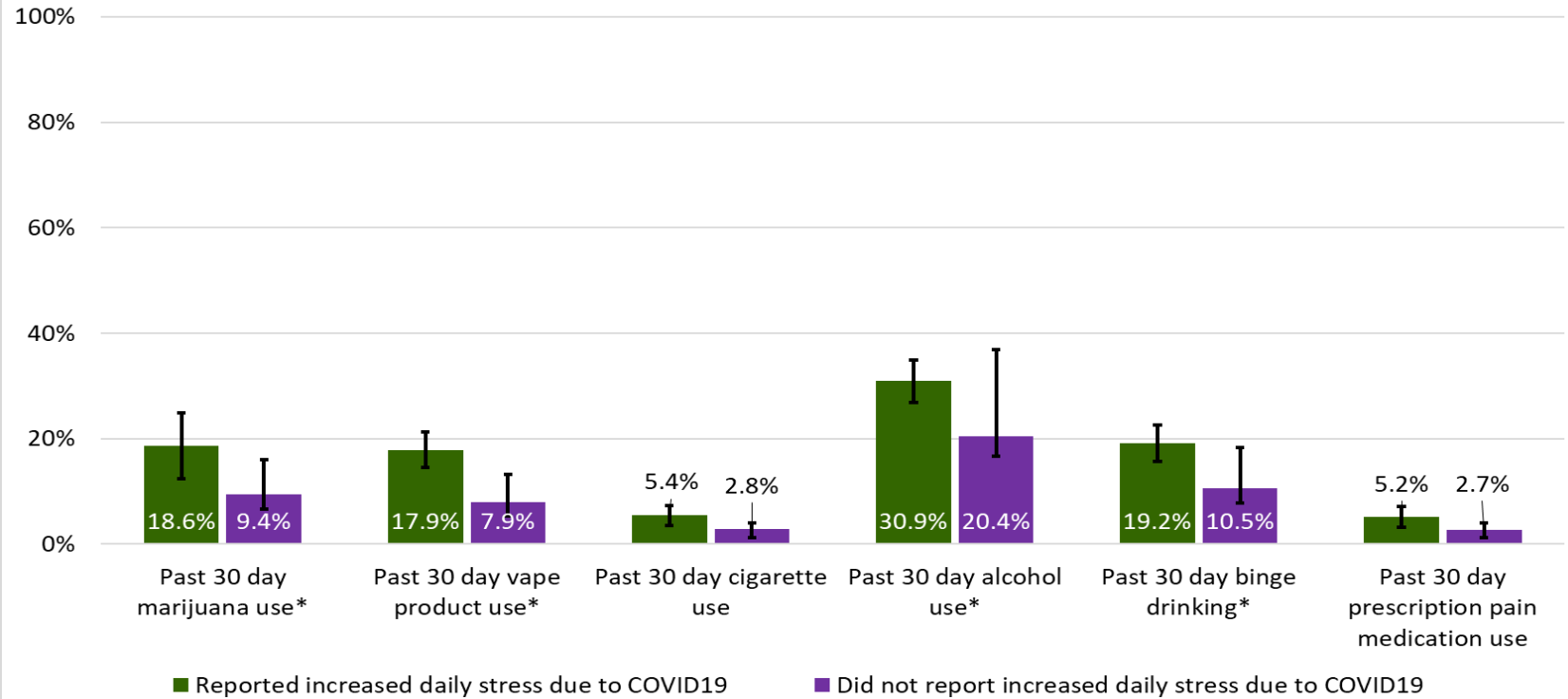
### Self-reported poor mental health by COVID-19 pandemic specific stressors, BVSD high school students, Healthy Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

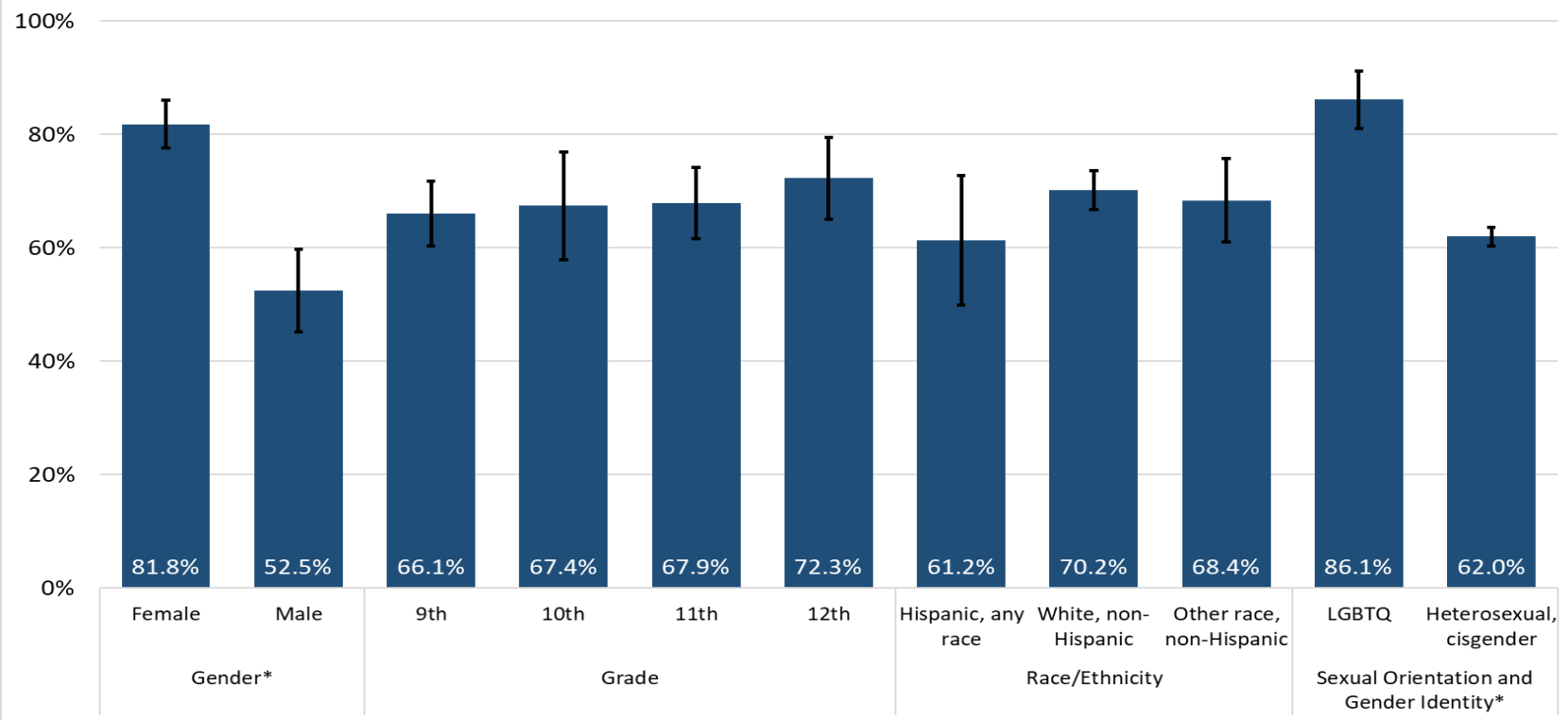
## Substance use in past 30 days by self-reported daily stress, BVSD high school students, Healthy Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey

Self-reported always, most of the time, or sometimes poor mental health during the COVID-19 pandemic, BVSD high school students, Healthy Kids Colorado Survey, 2021



\* Denotes statistical significance at the  $p < 0.05$  level.

Source: 2021 Healthy Kids Colorado Survey